UNIVERSITY OF KENTUCKY

HEALTHY KENTUCKY RESEARCH BUILDING

760 PRESS AVENUE, LEXINGTON, KY 40506

PHASE 4 INTERIOR FIT-OUT: BID & PERMIT

JANUARY 8, 2021

VICINITY MAP

THP

JACOBS Consultancy

CMTA

AEI Affiliated Engineers

WT WHITING-TURNER

HGA

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ARCHITECTURAL ABBREVIATIONS

A
A/E ARCHITECT/ENGINEER
ADD ADDENDUM
ADDL ADDITIONAL
ADJ ADJUSTABLE
ADJC ADJACENT
AFF ABOVE FINISH FLOOR
AL ALUMINUM
ALT ALTERNATE
APPROX APPROXIMATE(LY)
ARCH ARCHITECT(URAL)

B
BD BOARD
BLDG BUILDING
BLKG BLOCKING
BM BEAM
BO BOTTOM OF
BOT BOTTOM
BRKT BRACKET
BTW BETWEEN

C
CEN CENT(ER) (TRAL)
CJ CONTROL/CONSTRUCTION JOINT
CL CENTER LINE
CLG CEILING
CLR CLEAR(ANCE)
CNTR COUNTER
COL COLUMN
CONC CONCRETE
CONN CONNEC(TION)
CONST CONSTRUCTION
CONT CONTINU(E) (OUS) (ATION)

D
D DEEP, DEPTH
DEMO DEMO(LISH) (LITION)
DET DETAIL
DIA DIAMETER
DIM DIMENSION
DN DOWN
DR DOOR
DWG(S) DRAWING(S)

E
EA EACH
EJ EXPANSION JOINT
EL ELEVATION
ELEC ELECTRIC(AL)
EQ EQUAL
EQUIP EQUIPMENT
EXCL EXCLUD(E) (ED) (ING)
EXG EXISTING
(E), EXIST EXISTING
EXP EXPAN(D) (SION)
EXT EXTERIOR
EXTR EXTERIOR

F
FAS FASTEN(ED) (ER)
FSTR FASTEN(ED) (ER)
FD FLOOR DRAIN
FDN FOUNDATION
FLR FLOOR(ING)
FT FOOT, FEET
FTG FOOTING

G
GA GAUGE
GC GENERAL CONTRACTOR

H
H HIGH, HEIGHT
HT HEIGHT
HD HEAD
HM HOLLOW METAL
HO HOLD OPEN
HORIZ HORIZONTAL
HR HANDRAIL(S)

I
ID INSIDE DIAMETER/DIMENSION
IN INCH(ES)
INCL INCLU(DE) (DED) (DING) (SIVE)
INSUL INSULAT(E) (ED)
INT INTERIOR
INTR INTERIOR

J
JST JOIST
JT JOINT

K
KS KNEE SPACE

L
L ANGLE (STRUC SHAPE)
L LONG, LENGTH
LAV LAVATORY
LF LINEAL FOOT, FEET
LT LIGHT
LTG LIGHTING
LVL LEVEL

M
MAS MASONRY
MATL MATERIAL
MAX MAXIMUM
MECH MECHANICAL(LY)
MET METAL
MTL METAL
MIN MINIMUM
MISC MISCELLANEOUS
MO MASONRY OPENING
MT(D) MOUNT(ED)
MUL MULLION

N
N/A NOT APPLICABLE
NEC NECESSARY
NIC NOT IN CONTRACT
NO2 NITROUS OXIDE
NOM NOMINAL
NTS NOT TO SCALE

O
O OXYGEN
O2 OXYGEN
OC ON CENTER
OD OUTSIDE DIAMETER/DIMENSION
OH OVERHEAD
OH OPPOSITE HAND
OPG OPENING
OPP OPPOSITE
OPT OPTION(AL)

P
PAR PARALLEL
PERIM PERIMETER
PL PLATE
PNL PANEL
PR PAIR
PTD PAINTED
PTN PARTITION
PTS PNEUMATIC TUBE STATION

Q
QTY QUANTITY

R
R RADIUS, RADII
R RISER
RCP REFLECTED CEILING PLAN
RD ROOF DRAIN
REF REFER(ENCE)
REINF REINFORC(E) (ED) (ING) (EMENT)
REQD REQUIRED
REV REVIS(E) (ED) (ION)
RM ROOM
RO ROUGH OPENING

S
SECT SECTION
SF SQUARE FOOT/FEET
SHT SHEET(ING)
SHTG SHEATHING
SIM SIMILAR
SKLT SKYLIGHT(S)
SPEC(S) SPECIFICATION(S)
SS STAINLESS STEEL
STD STANDARD
STL STEEL
STRUC STRUCTUR(E) (AL)
SYM SYMMETR(Y) (ICAL)

T
T TREAD
T/D TELEPHONE DATA OUTLET
TEL TELEPHONE
TEMP TEMPORARY
TO TOP OF
TYP TYPICAL

U
UC UNDER CABINET
UNO UNLESS NOTED OTHERWISE
UR URINAL

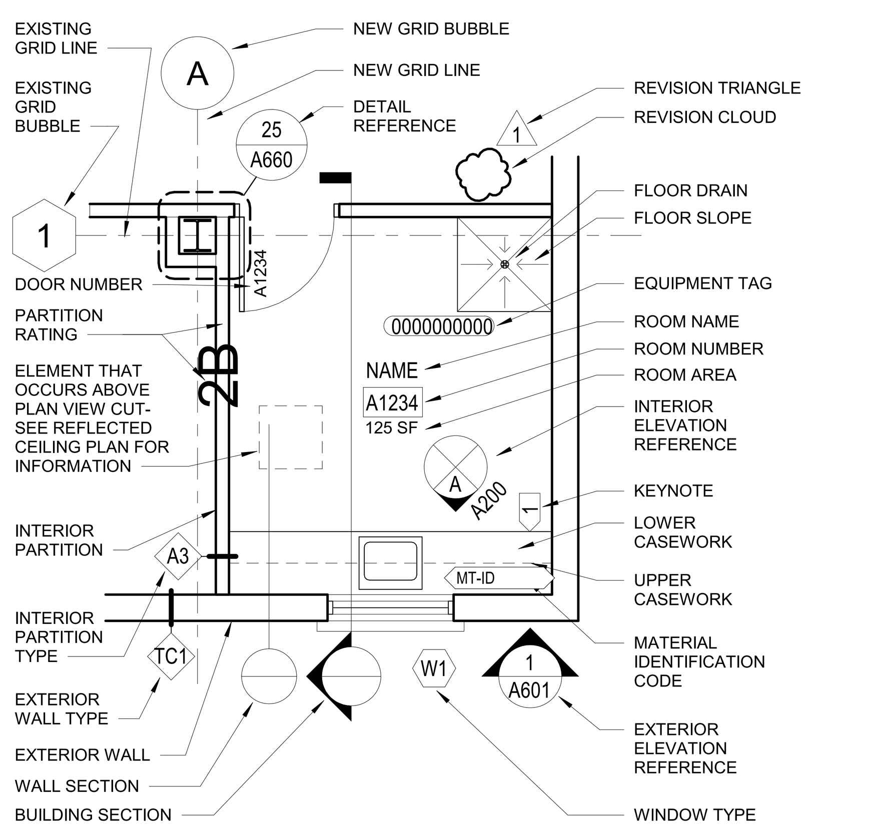
V
VAC VACUUM
VAR VAR(Y) (IES) (IATION)
VEN VENEER
VERT VERTICAL

W
W WIDE, WIDTH
W/ WITH
W/O WITHOUT
WC WATER CLOSET
WD WOOD
WSCT WAINSCOT

X
XP(D) EXPOSE(D)

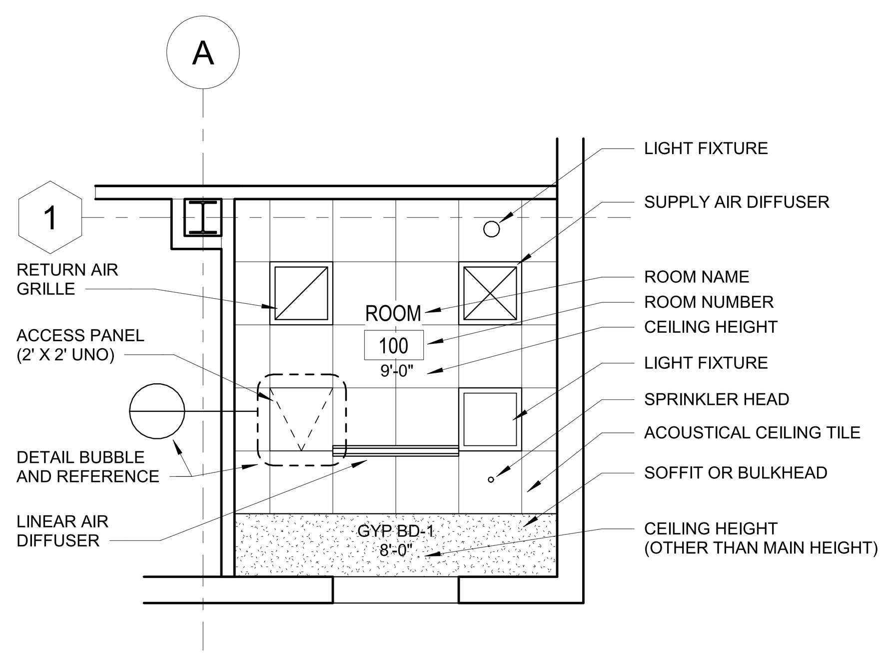
SPECIAL SYMBOLS			
@	AT	⊥	PERPENDICULAR
℄	CENTERLINE	#	NUMBER
ø	DIAMETER	/	PER
L	ANGLE(STRUC SHAPE)	±	PLUS/MINUS

FLOOR PLAN SYMBOL DESIGNATIONS



OTHER FLOOR PLAN SYMBOL DESIGNATIONS	
EXISTING DOOR TO REMAIN	EXISTING DOOR TO DEMO
EXISTING WALL TO REMAIN	EXISTING WALL TO DEMO

CEILING PLAN SYMBOL DESIGNATIONS



OTHER CEILING PLAN SYMBOL DESIGNATIONS	
RECESSED CAN DOWNLIGHT	TV CONNECTION (SEE ELECTRICAL DRAWINGS)
RECESSED CAN WALL WASHER	HORN (SEE ELECTRICAL DRAWINGS)
PENDANT MOUNTED LIGHT FIXTURE	TRACK LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
CEILING-MOUNTED EXIT LIGHT (SEE ELECTRICAL DRAWINGS	EQUIPMENT MOUNTING TRACKS
WALL-MOUNTED EXIT LIGHT (SEE ELECTRICAL DRAWINGS)	SPRINKLER HEAD
SMOKE DETECTOR (SEE ELECTRICAL DRAWINGS)	SPEAKER (SEE ELECTRICAL DRAWINGS)

CODE SUMMARY - FIT OUT - PHASE 4

PROJECT CODE SUMMARY - PHASE 4

PROJECT NAME AND ADDRESS:
UNIVERSITY OF KENTUCKY - HEALTHY KENTUCKY RESEARCH BUILDING
760 PRESS AVENUE, LEXINGTON, KY 40506

PROJECT DESCRIPTION:
FIT UP OF THE FOLLOWING AREAS IN THE EXISTING BUILDING:
- LOWER LEVEL IMAGING SUITE APPROX. 8400 SF ALONG WITH MISCELLANEOUS SUPPORT
- LEVEL ONE SEMINAR ROOM APPROX. 2230 SF
- LEVEL TWO CONFERENCE ROOM APPROX. 2230 SF
- LEVEL 6 - THREE LAB NEIGHBORHOODS FOR VASCULAR RESEARCH ALONG WITH COMMON COLLABORATION AND SUPPORT AREAS APPROX. 27,600 SF

GOVERNING CODES:
2018 KENTUCKY BUILDING CODE
2015 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL ENERGY CONSERVATION CODE
2015 INTERNATIONAL FIRE CODE (NEW CONSTRUCTION PROJECTS, ONLY WHEN SPECIFICALLY REFERENCED BY THE BODY OF KBC)
2012 NFPA 1 - FIRE PREVENTION CODE (AS DIRECTED BY 815 KAR 10:60 KENTUCKY STANDARDS OF SAFETY)
2012 NFPA 54 - NATIONAL FUEL GAS CODE
2015 NFPA 45 - STANDARD ON FIRE PROTECTION FOR LABORATORIES USING CHEMICALS
2017 NFPA 70 - NATIONAL ELECTRICAL CODE
2009 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
KENTUCKY STATE PLUMBING LAW, REGULATIONS & CODE (815 KAR CHAPTER 20)

OCCUPANCY CLASSIFICATION (302.1):
NON-SEPARATED MIXED USE (508.3)
LEVEL 0: IMAGING SUITE - B (BUSINESS)
LEVEL 1 & 2: SEMINAR AND CONFERENCE ROOMS ACCESSORY - A (ASSEMBLY)

LEVEL 6: LABORATORY NEIGHBORHOODS - B (BUSINESS)

LABORATORY CLASSIFICATION (NFPA-45)
CLASS B LABORATORY - MODERATE FIRE HAZARD

CONSTRUCTION TYPE (602.1):
I-B

HIGH-RISE BUILDINGS:
BUILDING CLASSIFIED AS HIGH-RISE: CONTAINS A FLOOR MORE THAN 75 FT ABOVE LOWEST LEVEL (403)
FIRE SPRINKLER REQUIREMENTS - BUILDING TO BE FULLY SPRINKLED (403.3)
SPRAY APPLIED FIRE PROOFING MINIMUM BOND EQUALS 430 PSF (402.4)
SPRINKLER RISERS SHALL BE LOCATED IN INTERIOR EXIT STAIRWAYS (403.3.1.1)
2-HOUR FIRE BARRIER REQUIRED AT FIRE PUMP ROOM (403.3.3)
1-HOUR FIRE BARRIER REQUIRED AT FIRE COMMAND CENTER (403.6)
LOCKABLE NON-EXIT DISCHARGE STAIRWAY DOOR CONTROL REQUIRED VIA FIRE COMMAND CENTER (403.5.3)
STAIRWAY COMMUNICATION SYSTEM REQUIRED AT EVERY 5TH FLOOR OR GREATER (403.5.3.1)
SMOKE PROOF ENCLOSURES REQUIRED FOR EXIT STAIRWAYS SERVING FLOORS ABOVE 75 FT (403.5.4)
LUMINOUS EGRESS PATH MARKINGS REQUIRED (1024)

FIRE RESISTANCE REQUIREMENTS (TABLE 601):

PRIMARY STRUCTURAL FRAME	2 HOUR
BEARING WALLS	
EXTERIOR	2 HOUR
INTERIOR	2 HOUR
NONBEARING WALLS	
EXTERIOR	0 HOUR (TABLE 602)
INTERIOR	0 HOUR
FLOOR CONSTRUCTION	2 HOUR
ROOF CONSTRUCTION	1 HOUR
SHAFT ENCLOSURES	2 HOUR (713.4)
CORRIDORS	0 HOUR (TABLE 1018.1)

MAXIMUM EXIT ACCESS TRAVEL DISTANCE (TABLE 1016.2):
GROUP A, S-1 250 FT
GROUP B 300 FT

MAXIMUM COMMON PATH OF EGRESS TRAVEL (TABLE 1014.3):
GROUP B, S 100 FT
GROUP A 75 FT

DEAD END CORRIDORS (1018.4):
GROUP B, S 50 FT
GROUP A 20 FT

EXIT REQUIREMENTS:
EXIT SEPARATION 30 FT AND 1/4 MAX DIAGONAL DIMENSION (403.5.1)
MINIMUM EXIT WIDTH
STAIRS 0.2 INCHES PER OCCUPANT (1005.3.1)
OTHER COMPONENTS 0.15 INCHES PER OCCUPANT (1005.3.2)

* REFER TO LIFE SAFETY DRAWINGS FOR OCCUPANT LOAD, TRAVEL DISTANCE, EGRESS WIDTH AND CAPACITY CALCULATIONS AND TOTALS

DRAWING INDEX - PHASE 4

SHEET NUMBER	SHEET NAME
GENERAL	
AG-010A	COVER SHEET
AG-011A	DRAWING INDEX, CODE & GENERAL INFO
AG-013A	TYPICAL INTERIOR PARTITION TYPES
AG-014A	ACCESSORY MOUNTING HEIGHTS
LIFE SAFETY	
FL-001	LIFE SAFETY PLANS
ARCHITECTURAL	
AI-229	FLOOR PLAN - LOWER LEVEL - OVERALL
AI-230	FLOOR PLAN - LOWER LEVEL - IMAGING SUITE
AI-231	FLOOR PLAN - LEVEL ONE - OVERALL
AI-231A	FLOOR PLAN - LEVEL ONE - AREA A
AI-232	FLOOR PLAN - LEVEL TWO - OVERALL AND PARTIAL LEVEL FOUR
AI-232A	FLOOR PLAN LEVEL TWO - AREA A
AI-236	FLOOR PLAN - LEVEL SIX - OVERALL
AI-236A	FLOOR PLAN - LEVEL SIX - AREA A
AI-236B	FLOOR PLAN - LEVEL SIX - AREA B
AI-240	PARTITION PLAN - LOWER LEVEL - IMAGING SUITE
AI-241	PARTITION PLAN - LEVEL ONE - AREA A
AI-242	PARTITION PLAN - LEVEL TWO - AREA A AND PARTIAL LEVEL FOUR
AI-246A	PARTITION PLAN - LEVEL SIX - AREA A
AI-246B	PARTITION PLAN - LEVEL SIX - AREA B
AI-281	ENLARGED FLOOR PLANS - LEVEL ONE & TWO
AI-282	ENLARGED FLOOR PLANS - LEVEL SIX WET LABS
AI-283	ENLARGED FLOOR PLANS - LEVEL SIX MISC
AI-330	FLOOR FINISH PLAN - LOWER LEVEL - IMAGING SUITE
AI-331	FLOOR FINISH PLAN - LEVEL ONE & TWO
AI-336A	FLOOR FINISH PLAN - LEVEL SIX - AREA A
AI-336B	FLOOR FINISH PLAN - LEVEL SIX - AREA B
AI-430	RCP - LOWER LEVEL - IMAGING SUITE
AI-431	RCP - LEVEL ONE & TWO
AI-436A	RCP - LEVEL SIX - AREA A
AI-436B	RCP - LEVEL SIX - AREA B & PARTIAL LEVEL FOUR
AI-680	INTERIOR ELEVATIONS - LOWER LEVEL, LEVELS ONE & TWO
AI-681	INTERIOR ELEVATIONS - LEVEL SIX TOILET ROOMS
AI-682	INTERIOR ELEVATIONS - WET LAB 650 & 651
AI-683	INTERIOR ELEVATIONS - WET LAB 652
AI-684	INTERIOR ELEVATIONS - GW 650 SERIES
AI-685	INTERIOR ELEVATIONS
AI-686	INTERIOR ELEVATIONS
AI-690	DETAILS - MISCELLANEOUS
AI-691	DETAILS - MISCELLANEOUS
AI-692	DETAILS - CEILING
AI-693	DETAILS - SECTIONS LEVEL ONE & TWO
AI-694	DETAILS - LEVEL ONE & TWO
AI-695	FIRE CONTAINMENT
AI-696	DOOR SCHEDULE & DETAILS
AI-697	DOOR & WALL PROTECTION DETAILS
AI-700	CASEWORK SECTIONS
AI-740	ROOM FINISH SCHEDULE
AI-741	FINISH LEGEND
AI-742	FLOOR TRANSITION DETAILS
AI-750	SIGNAGE PLAN - LOWER LEVEL - IMAGING SUITE
AI-751	SIGNAGE PLAN - SEMINAR AND CONFERENCE ROOMS
AI-756A	SIGNAGE PLAN - LEVEL SIX - AREA A
AI-756B	SIGNAGE PLAN - LEVEL SIX - AREA B
AI-757	SIGNAGE SCHEDULE, LEGEND & DETAILS
STRUCTURAL	
S-201	GENERAL STRUCTURAL NOTES, FRAMING PLAN AND DETAILS
LABORATORY	
QL-100	LAB EQUIPMENT COVER SHEET
QL-101	LAB EQUIPMENT COVER SHEET
QL-200	FLOOR PLAN LOWER LEVEL OVERALL
QL-206	FLOOR PLAN LEVEL 06 OVERALL
QL-206A	FLOOR PLAN LEVEL 06 AREA "A"
QL-206B	FLOOR PLAN LEVEL 06 AREA "B"
QL-220	FLOOR PLAN LOWER LEVEL IMAGING AREA
QL-301	LABORATORY ELEVATIONS
QL-302	LOWER LEVEL ELEVATIONS
QL-400	TABLE SYSTEMS AND CEILING SERVICE PANEL DETAILS
QL-401	LAB CASEWORK DETAILS
QL-402	LAB CASEWORK DETAILS
QL-403	LAB CASEWORK DETAILS
QL-404	FUME HOOD DETAILS
FIRE PROTECTION	
FP-160	FIRE PROTECTION LEGEND/SCHEDULES
FP-260	BASEMENT PHASE 4 FIT-OUT - FIRE PROTECTION
FP-261	LEVEL 1 PHASE 4 FIT-OUT - FIRE PROTECTION
FP-262	LEVEL 2 PHASE 4 FIT-OUT - FIRE PROTECTION
FP-266	LEVEL 6 PHASE 4 FIT-OUT - FIRE PROTECTION
FP-360	ENLARGED FIRE PROTECTION CEILING PLANS
PLUMBING	
P-061	PLUMBING LEGEND
P-165B	LEVEL 05 PHASE 4 FITOUT AREA 'B' - PLUMBING DEMOLITION PLAN
P-166A	LEVEL 06 PHASE 4 FITOUT AREA 'A' - PLUMBING DEMOLITION PLAN
P-166B	LEVEL 06 PHASE 4 FITOUT AREA 'B' - PLUMBING DEMOLITION PLAN
P-260B	BASEMENT PHASE 4 FIT-OUT AREA 'B' - PLUMBING PLAN
P-260C	BASEMENT PHASE 4 FIT-OUT AREA 'C' - PLUMBING PLAN
P-260D	BASEMENT PHASE 4 FIT-OUT AREA 'D' - PLUMBING PLAN
P-265A	LEVEL 05 PHASE 4 FITOUT AREA 'A' - PLUMBING PLAN
P-265B	LEVEL 05 PHASE 4 FITOUT AREA 'B' - PLUMBING PLAN
P-266A	LEVEL 06 PHASE 4 FITOUT AREA 'A' - PLUMBING PLAN
P-266B	LEVEL 06 PHASE 4 FITOUT AREA 'B' - PLUMBING PLAN
P-372	ENLARGED PHASE 4 LOWER LEVEL PLUMBING PLANS
P-373	ENLARGED PHASE 4 LOWER LEVEL PLUMBING PLANS
P-374	ENLARGED PHASE 4 LAB PLAN - LAB NEIGHBORHOOD MODULE 650
P-375	ENLARGED PHASE 4 LAB PLAN - LAB NEIGHBORHOOD MODULE 651
P-376	ENLARGED PHASE 4 LAB PLAN - LAB NEIGHBORHOOD MODULE 652
P-377	ENLARGED PHASE 4 TOILET ROOM PLUMBING PLAN
P-460	PHASE 4 FIT-OUT PLUMBING DETAILS
P-960	PHASE 4 FIT-OUT RISER ISOMETRICS
P-961	PHASE 4 FIT-OUT RISER ISOMETRICS
P-962	PHASE 4 FIT-OUT RISER ISOMETRICS
P-963	PHASE 4 FIT-OUT RISER ISOMETRICS
PH4 MECHANICAL	
MF-060	MECHANICAL FIT OUT SYMBOLS AND ABBREVIATIONS
MF-156-A	MECHANICAL FIT OUT LEVEL SIX DEMOLITION PLAN - AREA A
MF-156-B	MECHANICAL FIT OUT LEVEL SIX DEMOLITION PLAN - AREA B
MF-260-II	MECHANICAL FIT OUT VENTILATION LOWER LEVEL FLOOR PLAN - AREA II
MF-260-III	MECHANICAL FIT OUT VENTILATION LOWER LEVEL FLOOR PLAN AREA III
MF-260-VII	MECHANICAL FIT OUT VENTILATION LOWER LEVEL FLOOR PLAN - AREA VII
MF-261-II	MECHANICAL FIT OUT VENTILATION LEVEL ONE FLOOR PLAN AREA II
MF-262-II	MECHANICAL FIT OUT VENTILATION LEVEL TWO FLOOR PLAN AREA II
MF-266-I	MECHANICAL FIT OUT VENTILATION LEVEL SIX FLOOR PLAN AREA I
MF-266-II	MECHANICAL FIT OUT VENTILATION LEVEL SIX FLOOR PLAN AREA II
MF-266-III	MECHANICAL FIT OUT VENTILATION LEVEL SIX FLOOR PLAN AREA III
MF-266-IV	MECHANICAL FIT OUT VENTILATION LEVEL SIX FLOOR PLAN AREA IV
MF-360-A	MECHANICAL FIT OUT PIPING LOWER LEVEL FLOOR PLAN AREA A
MF-360-B	MECHANICAL FIT OUT PIPING LOWER LEVEL FLOOR PLAN AREA B
MF-360-D	MECHANICAL FIT OUT PIPING LOWER LEVEL FLOOR PLAN AREA D
MF-361-A	MECHANICAL FIT OUT PIPING LEVEL ONE FLOOR PLAN AREA A
MF-362-A	MECHANICAL FIT OUT PIPING LEVEL TWO FLOOR PLAN AREA A
MF-366-A	MECHANICAL FIT OUT PIPING LEVEL SIX FLOOR PLAN AREA A
MF-366-B	MECHANICAL FIT OUT PIPING LEVEL SIX FLOOR PLAN AREA B
MF-565	FACILITY AIR MONITORING SYSTEM RISER DIAGRAM
MF-860	MECHANICAL DETAILS - DUCTWORK
MF-861	MECHANICAL DETAILS - DUCTWORK
MF-862	MECHANICAL DETAILS - PIPING
MF-960	MECHANICAL SCHEDULES
MF-961	MECHANICAL SCHEDULES
MF-962	MECHANICAL SCHEDULES
MF-963	MECHANICAL SCHEDULES

DRAWING INDEX - PHASE 4 (CONT'D)

SHEET NUMBER	SHEET NAME
ELECTRICAL	
EL-060	BASEMENT PHASE 4 FITOUT - LIGHTING DEMOLITION PLAN
EL-061	LEVEL 01, LEVEL 02, LEVEL 04 PHASE 4 FITOUT - LIGHTING DEMOLITION PLAN
EL-160B	BASEMENT PHASE 4 FITOUT - AREA 'B' - LIGHTING PLAN
EL-160D	BASEMENT PHASE 4 FITOUT - AREA 'D' - LIGHTING PLAN
EL-161A	LEVEL 01 AND LEVEL 02 PHASE 4 FITOUT - AREA 'A' - LIGHTING PLAN
EL-166A	LEVEL 06 PHASE 4 FITOUT - AREA 'A' - LIGHTING PLAN
EL-166B	LEVEL 06 PHASE 4 FITOUT - AREA 'B' - LIGHTING PLAN
EL-360	PHASE 4 LIGHTING SYMBOLS AND FIXTURE SCHEDULE
EL-460	PHASE 4 LIGHTING PANEL SCHEDULES
EL-461	PHASE 4 LIGHTING PANEL SCHEDULES
EL-560	PHASE 4 TYPICAL LIGHTING PLANS
EL-660	PHASE 4 NETWORK LIGHTING CONTROL RISER DIAGRAMS
EL-661	PHASE 4 NETWORK LIGHTING CONTROL RISER DIAGRAMS
EL-662	PHASE 4 NETWORK LIGHTING CONTROL RISER DIAGRAMS
ES-160B	BASEMENT PHASE 4 FITOUT AREA 'B' - ESS PLAN
ES-160D	BASEMENT PHASE 4 FITOUT AREA 'D' - ESS PLAN
ES-161A	LEVEL 01 PHASE 4 FITOUT AREA 'A' - ESS PLAN
ES-162A	LEVEL 02 PHASE 4 FITOUT AREA 'A' - ESS PLAN
ES-166A	LEVEL 06 PHASE 4 FITOUT AREA 'A' - ESS PLAN
ES-166B	LEVEL 06 PHASE 4 FITOUT AREA 'B' - ESS PLAN
PH4 ELECTRICAL	
EF-060	ELECTRICAL PHASE 4 FO SYMBOLS AND ABBREVIATIONS
EF-061	ELECTRICAL PHASE 4 FO EQUIPMENT NAMING GUIDELINES
EF-260	ELECTRICAL PHASE 4 FO POWER FLOOR PLAN - LOWER LEVEL
EF-261A	ELECTRICAL PHASE 4 FO POWER FLOOR PLAN - LEVEL 01 AREA A
EF-262A	ELECTRICAL PHASE 4 FO POWER FLOOR PLAN - LEVEL 02 AREA A
EF-265	ELECTRICAL PHASE 4 FO POWER FLOOR PLAN - LEVEL 05
EF-266A	ELECTRICAL PHASE 4 FO POWER FLOOR PLAN - LEVEL 06 AREA A
EF-266B	ELECTRICAL PHASE 4 FO POWER FLOOR PLAN - LEVEL 06 AREA B
EF-460	ELECTRICAL PHASE 4 LAB NEIGHBORHOOD 650 ENLARGED PLAN
EF-461	ELECTRICAL PHASE 4 LAB NEIGHBORHOOD 651 ENLARGED PLAN
EF-462	ELECTRICAL PHASE 4 LAB NEIGHBORHOOD 652 ENLARGED PLAN
EF-556	ELECTRICAL PHASE 4 FO NORMAL POWER RISER
EF-557	ELECTRICAL PHASE 4 FO EMERGENCY AND CRITICAL POWER RISER
EF-558	ELECTRICAL PHASE 4 FO GROUNDING RISER
EF-860	ELECTRICAL PHASE 4 FO DETAILS
EF-861	ELECTRICAL PHASE 4 FO DETAILS
EF-960	ELECTRICAL PHASE 4 FO PANEL SCHEDULES
EF-974	ELECTRICAL PHASE 4 FO NORMAL LAB PANEL SCHEDULES
EF-985	ELECTRICAL PHASE 4 FO CRITICAL LAB PANEL SCHEDULES
EF-986	ELECTRICAL PHASE 4 FO CRITICAL LAB PANEL SCHEDULES
TECHNOLOGY	
TF-060	TECHNOLOGY PHASE 4 FO SYMBOLS AND ABBREVIATIONS
TF-260	TECHNOLOGY PHASE 4 FO PLAN LOWER LEVEL
TF-261A	TECHNOLOGY PHASE 4 FO PLAN LEVEL 01 AREA A
TF-262A	TECHNOLOGY PHASE 4 FO PLAN LEVEL 02 AREA A
TF-264A	TECHNOLOGY PHASE 4 FO PLAN LEVEL 04 AREA A
TF-264B	TECHNOLOGY PHASE 4 FO PLAN LEVEL 04 AREA B
TF-264C	TECHNOLOGY PHASE 4 FO PLAN LEVEL 04 AREA C
TF-265A	TECHNOLOGY PHASE 4 FO PLAN LEVEL 05 AREA A
TF-265B	TECHNOLOGY PHASE 4 FO PLAN LEVEL 05 AREA B
TF-266A	TECHNOLOGY PHASE 4 FO PLAN LEVEL 06 AREA A
TF-266B	TECHNOLOGY PHASE 4 FO PLAN LEVEL 06 AREA B
AUDIO VISUAL	
AVF-060	AUDIO VISUAL PHASE 4 FO SYMBOLS AND ABBREVIATIONS
AVF-261A	AUDIO VISUAL PHASE 4 FO PLAN LEVEL 01 AREA A
AVF-262A	AUDIO VISUAL PHASE 4 FO PLAN LEVEL 02 AREA A
AVF-265B	AUDIO VISUAL PHASE 4 FO PLAN LEVEL 05 AREA B
AVF-266A	AUDIO VISUAL PHASE 4 FO PLAN LEVEL 06 AREA A
AVF-266B	AUDIO VISUAL PHASE 4 FO PLAN LEVEL 06 AREA B
PH4 ELECTRICAL	
FAF-260	FIRE ALARM PHASE 4 FO FLOOR PLAN - LOWER LEVEL
FAF-261A	FIRE ALARM PHASE 4 FO FLOOR PLAN - LEVEL 01 AREA A
FAF-262A	FIRE ALARM PHASE 4 FO FLOOR PLAN - LEVEL 02 AREA A
FAF-266A	FIRE ALARM PHASE 4 FO FLOOR PLAN - LEVEL 06 AREA A
FAF-266B	FIRE ALARM PHASE 4 FO FLOOR PLAN - LEVEL 06 AREA B
FAF-960	FIRE ALARM PHASE 4 FO RISER
FAF-961	FIRE ALARM PHASE 4 FO MATRIX
INSTRUMENTATION AND CONTROLS	
IC-000	CONTROL INSTRUMENTATION SYMBOLS & ABBREVIATIONS
IC-500	BAS SYSTEM ARCHITECTURE
IC-753	TERMINAL UNITS
IC-754	TERMINAL UNITS
IC-755	TERMINAL UNITS
IC-756	TERMINAL UNITS
IC-900	INSTRUMENTATION EQUIPMENT SCHEDULES
IC-910	POINTS LIST

ARCHITECTURAL MATERIAL DESIGNATIONS

- ACOUSTIC TILE
- ASPHALT CONCRETE
- BLANKET INSULATION
- CARPET (LARGE SCALE)
- CERAMIC TILE
- CONCRETE
- CONCRETE MASONRY UNIT
- EARTH
- EXISTING CONSTRUCTION
- FACEBRICK
- GRANULAR MATERIAL
- GASKET (LARGE SCALE)
- METAL
- PLASTER OR GYPSUM BOARD
- QUARRY TILE
- RIGID INSULATION
- STONE - EXTERIOR
- SOLID WOOD FINISHED
- TERRAZZO
- WOOD BLOCKING - CONTINUOUS
- WOOD BLOCKING - INTERRUPTED
- WOOD SHEATHING
- MARBLE

GENERAL NOTES

A. THESE GENERAL NOTES APPLY TO THE CONSTRUCTION DOCUMENTS AND SHALL GOVERN UNLESS NOTED OTHERWISE BY GENERAL NOTES OR KEYNOTES ON SPECIFIC SHEETS.

B. COORDINATE ALL PROJECT PHASING WITH OWNER OR AS SPECIFIED AND/OR SHOWN ON THE DRAWINGS.

C. PROVIDE A SAFE MEANS OF EGRESS THROUGH AND/OR AROUND THE BUILDING AND SITE PER APPLICABLE CODES AT ALL TIMES DURING THE CONSTRUCTION PROCESS. MINIMIZE DISRUPTION TO ADJACENT AREAS/FLOORS AS MUCH AS POSSIBLE.

D. MINIMIZE NOISE TO LEVEL ACCEPTABLE WITH THE OWNER. SCHEDULE TASKS CREATING EXCESSIVE NOISE OR NEAR SENSITIVE AREAS WITH THE OWNER.

E. PROVIDE DUST CONTROL BETWEEN CONSTRUCTION AREAS AND OCCUPIED AREAS AT ALL TIMES AS SPECIFIED.

F. NOTIFY ARCHITECT PROMPTLY IF INFORMATION SHOWN IN ONE CONSTRUCTION DOCUMENT CONFLICTS WITH INFORMATION SHOWN ON ANOTHER.

G. NOTIFY ARCHITECT PROMPTLY IF CONSTRUCTION DOCUMENTS ARE INCONSISTENT WITH THE CURRENT APPLICABLE CODES AND REGULATIONS.

H. NOTIFY ARCHITECT PROMPTLY IF ANY EXISTING CONDITIONS CONFLICT WITH THE CONSTRUCTION DOCUMENTS.

J. STRUCTURAL STEEL MEMBER PROFILES AS INDICATED ON ARCHITECTURAL DRAWINGS MAY VARY FROM ACTUAL PROFILES AND SIZES INDICATED ON THE STRUCTURAL DRAWINGS WHICH SHALL GOVERN.

K. COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES, SPEAKERS, SMOKE DETECTORS, EXIT LIGHTS, ACCESS PANELS, SPRINKLER HEADS, HVAC DUCTS, DIFFUSERS, REGISTERS, AND OTHER CEILING ITEMS WITH MECHANICAL, ELECTRICAL AND OTHER TRADES. NOTIFY ARCHITECT PROMPTLY IF ANY LOCATIONS CONFLICT WITH ARCHITECTURAL REFLECTED CEILING PLANS.

L. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR FLOOR, WALL AND CEILING OPENINGS. ALL OPENINGS SHALL BE CUT AND PATCHED AS REQUIRED BY EACH DISCIPLINE OR TRADE REQUIRING THE OPENING UNLESS NOTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS. PATCHING IS TO BE IN CONFORMANCE WITH APPLICABLE CODES.

M. WOOD BLOCKING WITHIN THE WALL SYSTEM SHALL BE FIRE RETARDANT TREATED. ALL EXTERIOR WOOD BLOCKING SHALL BE MOISTURE TREATED. WOOD MAY NOT BE USED IN AN EXPOSED LOCATION UNLESS IT IS A FINISH MATERIAL IN A NON-COMBUSTIBLE ASSEMBLY OR AS SPECIFIED.

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760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - SD REVIEW	09/18/20
2	P4 - DD REVIEW	10/23/20
3	P4 - CD REVIEW	12/04/20
4	P4 - BID & PERMIT	01/08/21

Drawn By **Author**
Checked By **Checker**
Client Number 514
Project Number P4-5350

MICHAEL J. BATTOCLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE
DRAWING INDEX, CODE & GENERAL INFO

SHEET NO.
AG-011A

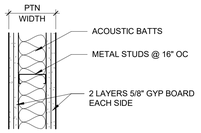
1/12/2021 12:27:32 PM

D AG-013A INTERIOR PARTITION TYPE- D SERIES

1 1/2" = 1'-0"

D SERIES

FIRE RESISTANCE: 2 HOUR
UL: U419



MINIMUM STC: 50
GA: WP 1548

PLAN VIEW

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
D1	1 5/8"	4 1/8"	1	D4	4"	6 1/2"	
D2	2 1/2"	5"	2	D6	6"	8 1/2"	
D3	3 5/8"	6 1/8"					

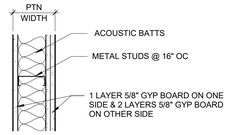
NOTES:
1. --

C AG-013A INTERIOR PARTITION TYPE- C SERIES

1 1/2" = 1'-0"

C SERIES

FIRE RESISTANCE: 1 HOUR
UL: U419



MINIMUM STC: 50
GA: WA 1021

PLAN VIEW

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
C2	2 1/2"	4 3/8"		C6	6"	7 7/8"	
C3	3 5/8"	5 1/2"					
C4	4"	5 7/8"					

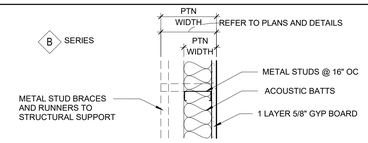
NOTES:
1. --

B AG-013A INTERIOR PARTITION TYPE- B SERIES

1 1/2" = 1'-0"

B SERIES

FIRE RESISTANCE: 1 HOUR
UL: U419



MINIMUM STC: 45
GA: WP 1070

PLAN VIEW

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
B1	1 5/8"	2 1/4"	1	B4	4"	4 5/8"	2
B2	2 1/2"	3 1/8"	1	B6	6"	6 5/8"	2
B3	3 5/8"	4 1/4"	2				

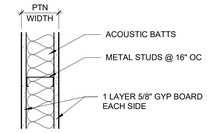
NOTES:
1. PROVIDE BRACES TO BACK-UP AT 4'-0" ON CENTER MAXIMUM VERTICALLY
2. PROVIDE BRACES TO BACK-UP AT VERTICAL MIDPOINT OF STUD WHERE UNBRACED HEIGHT EXCEEDS 12'-0"

A AG-013A INTERIOR PARTITION TYPE- A SERIES

1 1/2" = 1'-0"

A SERIES

FIRE RESISTANCE: 1 HOUR
UL: U419



MINIMUM STC: 45
GA: WP 1070

PLAN VIEW

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
A2	2 1/2"	3 3/4"		A6	6"	7 1/4"	
A3	3 5/8"	4 7/8"		A8	8"	9 1/4"	
A4	4"	5 1/4"					

NOTES:
1. --

GENERAL NOTES - INTERIOR PARTITION

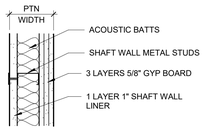
A. MINIMUM STC RATINGS INDICATED ARE BASED ON PARTITION TYPE WITH "a" MODIFIER ONLY
B. FILL EACH JOINT AND PENETRATION IN EACH PARTITION WITH INSULATION AND/OR ACOUSTICAL SEALANT TO ACHIEVE ACOUSTIC RATING (STC).
C. TYPICAL FLOOR PLAN DIMENSIONS FOR PARTITIONS ARE TO FINISH FACE OF GYPSUM BOARD OR MASONRY UNLESS NOTED OTHERWISE. MAINTAIN DIMENSION BETWEEN FACE OF FINISHES.
D. "CLEAR" OR "HOLD" DIMENSION DENOTES MINIMUM CLEARANCE REQUIRED BETWEEN PARTITION FINISHES.
E. TYPICAL GYPSUM BOARD PARTITION WIDTH IS BASED ON 5/8" GYPSUM BOARD UNLESS NOTED OTHERWISE.
F. PARTITION TYPES SHOW GENERAL REQUIREMENTS FOR PARTITIONS. REFER TO SPECIFICATIONS, PRODUCT TECHNICAL DATA AND REQUIREMENTS OF APPLICABLE TESTING AGENCIES FOR SPECIFICS OF PARTITION CONSTRUCTION REQUIREMENTS.
G. PARTITION REQUIREMENTS SHOWN ARE MINIMUM STANDARDS. WHERE ACTUAL CONDITIONS CAUSE PARTITION(S) TO EXCEED LIMITS PER MANUFACTURER'S RECOMMENDATIONS, REINFORCE PARTITION(S) AS REQUIRED.
H. PROVIDE FIRESTOPPING AT PENETRATIONS AND CONNECTIONS TO ADJACENT ASSEMBLIES IN FIRE-RATED PARTITIONS COMPLIANT WITH APPLICABLE TESTING AGENCY REQUIREMENTS.
I. PROVIDE BLOCKING OR BACKER MATERIAL FOR ATTACHMENT AND MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT. FOLLOW DRM 4.3.2.1 STRAPPING REQUIREMENTS FOR ALL PARTITIONS WITH CASEWORK AND DRM 4.3.1G FOR GENERAL BLOCKING REQUIREMENTS.
J. FIRE AND/OR ACOUSTIC TEST REFERENCES CALLED OUT MAY VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED.
K. PROVIDE WATER RESISTANT GYPSUM BOARD AT AREAS REQUIRED BY CODE AND WHERE FINISH WILL BE CERAMIC TILE UNLESS NOTED OTHERWISE.
L. PROVIDE TILE BACKER BOARD AT SHOWER AREAS AND AT OTHER WET AREAS WHERE FINISH WILL BE CERAMIC TILE.
M. ENSURE FINISH SURFACES ARE FLUSH AND SEAMLESS WHERE PARTITIONS AND/OR FURRING ARE COPLANAR.
N. UNLESS NOTED, THE CONNECTION AT THE TOP OF THE PARTITION TO THE STRUCTURE ABOVE MUST ALLOW FOR 1" MINIMUM VERTICAL MOVEMENT, EITHER UP OR DOWN. AT FIRE RATED METAL STUD PARTITIONS, THE TOP CONNECTION MUST BE A FIRE STOP CONNECTION THAT ALLOWS 1" MINIMUM VERTICAL MOVEMENT, EITHER UP OR DOWN. HOLD GYPSUM WALL BOARD AND STEEL STUDS 1" FROM THE BOTTOM OF THE STRUCTURE ABOVE. DO NOT SCREW-ATTACH STEEL VERTICAL STUDS OR GYPSUM WALL BOARD TO THE TOP TRACK. INSTALL BRIDGING 12" MINIMUM FROM THE TOP OF THE STUDS.

H AG-013A INTERIOR PARTITION TYPE- H SERIES

1 1/2" = 1'-0"

H SERIES

FIRE RESISTANCE: 3 HOUR
UL: U415



MINIMUM STC: 45
GA: WP 7453

PLAN VIEW

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
H2	2 1/2"	4 3/8"					
H4	4"	5 5/8"					
H6	6"	7 5/8"					

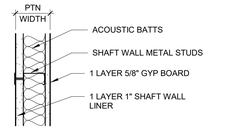
NOTES:
1. --

G AG-013A INTERIOR PARTITION TYPE- G SERIES

1 1/2" = 1'-0"

G SERIES

FIRE RESISTANCE: 1 HOUR
UL: U469



MINIMUM STC: 35
GA: WP 7008

PLAN VIEW

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
G2	2 1/2"	3 1/8"					
G4	4"	4 5/8"					
G6	6"	6 5/8"					

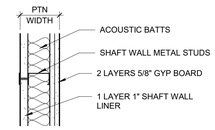
NOTES:
1. --

F AG-013A INTERIOR PARTITION TYPE- F SERIES

1 1/2" = 1'-0"

F SERIES

FIRE RESISTANCE: 2 HOUR
UL U428



MINIMUM STC: 50
GA: WP 7051

PLAN VIEW

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
F2	2 1/2"	3 3/4"					
F4	4"	5 1/4"					
F6	6"	7 1/4"					

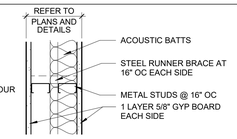
NOTES:
1. --

E AG-013A INTERIOR PARTITION TYPE- E SERIES

1 1/2" = 1'-0"

E SERIES

FIRE RESISTANCE: 1 HOUR
UL: U420



MINIMUM STC: 50
GA: WP 5015

PLAN VIEW

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
E1	1 5/8"	-		E4	4"	-	
E2	2 1/2"	-		E6	6"	-	
E3	3 5/8"	-					

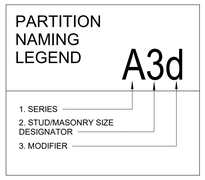
NOTES:
1. --

PARTITION NAMING LEGEND

1. SERIES
THIS CHARACTER DENOTES THE ASSEMBLY SERIES TO WHICH THE WALL BELONGS.

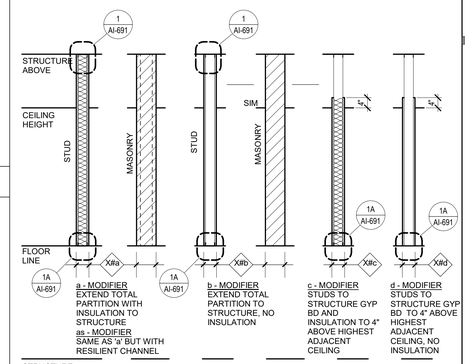
2. METAL STUD/MASONRY UNIT SIZE DESIGNATOR
THIS CHARACTER DENOTES THE STUD OR FURRING WIDTH. FOR MASONRY, THIS CHARACTER INDICATES NOMINAL UNIT WIDTH.

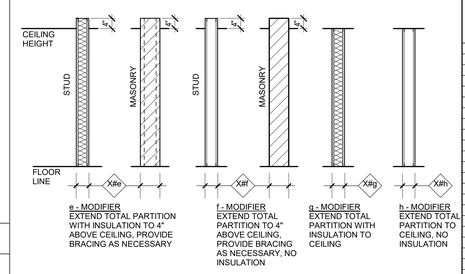
3. MODIFIER
THIS CHARACTER DENOTES MODIFICATION(S) TO THE SERIES ASSEMBLY.



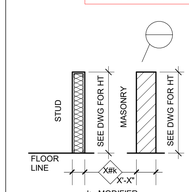
19 AG-013A INTERIOR PARTITION MODIFER KEY

1/2" = 1'-0"





NOTE:
ALL LOWER LEVEL GYPSUM PARTITIONS TO HAVE 5/8" IMPACT RESISTANT GYPSUM SHEATHING. REFER TO SPECIFICATIONS FOR BASIS OF DESIGN



k - MODIFIER
PARTITION HEIGHT AS NOTED, SEE ABOVE DETAIL FOR OTHER REQUIREMENTS

20 AG-013A INTERIOR PARTITION MODIFER KEY NOTES

1/2" = 1'-0"

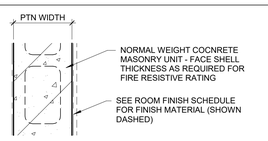
j - REPLACE 5/8" GYP BD WITH 1/2" GYP BD
k - SAME AS (SELECT a - i ABOVE) BUT WITH STUDS OF ___ METAL THICKNESS
m - SAME AS (SELECT a - i ABOVE) BUT ___ STUD SPACING

N AG-013A INTERIOR PARTITION TYPE- N SERIES

1 1/2" = 1'-0"

N SERIES

FIRE RESISTANCE: 1 HOUR
SEE NOTE 1 BELOW



PLAN VIEW

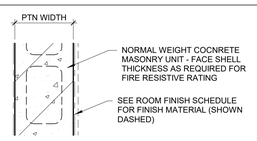
PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
N4	-	3 5/8"	1	N10	-	9 5/8"	1
N6	-	5 5/8"	1	N12	-	11 5/8"	1
N8	-	7 5/8"	1	N16	-	15 5/8"	1

NOTES:
1. FULLY GROUTED - FIRE RATING PER KBC TABLE 721.1(2).3

M AG-013A INTERIOR PARTITION TYPE- M SERIES

1 1/2" = 1'-0"

M SERIES



PLAN VIEW

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
M4	-	3 5/8"		M12	-	11 5/8"	
M6	-	5 5/8"		M16	-	15 5/8"	
M8	-	7 5/8"					

NOTES:
1. --

K AG-013A INTERIOR PARTITION TYPE- K SERIES

1 1/2" = 1'-0"

K SERIES

FIRE RESISTANCE: 1 HOUR
UL: U419

MINIMUM STC: 45
GA: WP 1070

PLAN VIEW

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
K2	2 1/2"	3 3/4"		K6	6"	7 1/4"	
K3	3 5/8"	4 7/8"		K8	8"	9 1/4"	
K4	4"	5 1/4"					

NOTES:
1. --

J AG-013A INTERIOR PARTITION TYPE- J SERIES

1 1/2" = 1'-0"

J SERIES

FIRE RESISTANCE: 3 HOUR
UL: U419

MINIMUM STC: 55
GA: WP 2800

PLAN VIEW

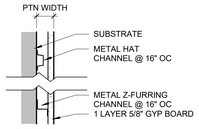
PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
J1	1 5/8"	4 1/8"		J4	4"	6 1/2"	
J2	2 1/2"	5"		J6	6"	8 1/2"	
J3	3 5/8"	6 1/8"					

NOTES:
1. --

U AG-013A INTERIOR PARTITION TYPE- U SERIES

1 1/2" = 1'-0"

U SERIES



PLAN VIEW

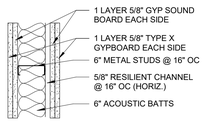
PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
U78	7/8"	1 1/2"	1	U2	2"	2 5/8"	2
U1	1"	1 5/8"	2	U3	3"	3 5/8"	2
U15	1 1/2"	2 1/8"	1 OR 2				

NOTES:
1. HAT CHANNELS
2. Z-FURRING CHANNELS

S AG-013A INTERIOR PARTITION TYPE- S SERIES

1 1/2" = 1'-0"

S SERIES



MINIMUM STC: 55
GA: WP 1070

PLAN VIEW

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
S2	2-1/2"	5 5/8"	STC-56				
S4	3 5/8"	6 3/4"	STC-58				
S6	6"	9 1/8"	STC-61				

NOTES:

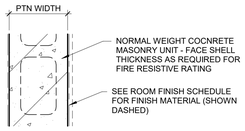
1. S-SERIES PARTITIONS TO BE CONSTRUCTED 5/8" SOUNDBREAK XP GYPSUM SHEATING BY NATIONAL GYPSUM OR EQUAL.

R AG-013A INTERIOR PARTITION TYPE- R SERIES

1 1/2" = 1'-0"

R SERIES

FIRE RESISTANCE: 3 HOUR
UL: U904



PLAN VIEW

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
R8	-	7 5/8"		R16	-	15 5/8"	
R10	-	9 5/8"					
R12	-	11 5/8"					

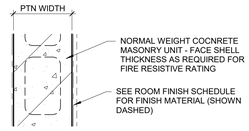
NOTES:
1. --

P AG-013A INTERIOR PARTITION TYPE- P SERIES

1 1/2" = 1'-0"

P SERIES

FIRE RESISTANCE: 2 HOUR
UL: U906



PLAN VIEW

PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES	PTN TYPE	STUD WIDTH	PTN WIDTH	NOTES
P6	-	5 5/8"		P12	-	11 5/8"	
P8	-	7 5/8"		P16	-	15 5/8"	
P10	-	9 5/8"					

NOTES:
1. --

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760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - SD REVIEW	09/18/20
2	P4 - DD REVIEW	10/23/20
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4	P4 - BID & PERMIT	01/08/21

Drawn By
Author
Checked By
Checker
Client Number
514
Project Number
P4-5350

MICHAEL J. BATTCHELLE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

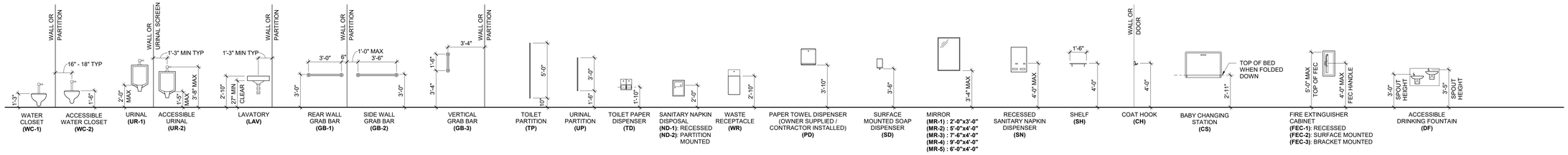
DRAWING TITLE

TYPICAL INTERIOR PARTITION TYPES

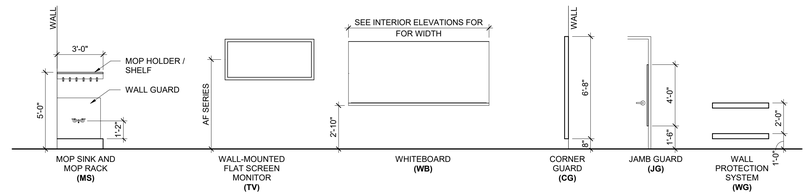
SHEET NO.

AG-013A

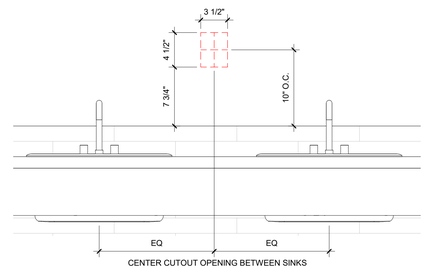
1/11/2021 4:40:12 PM



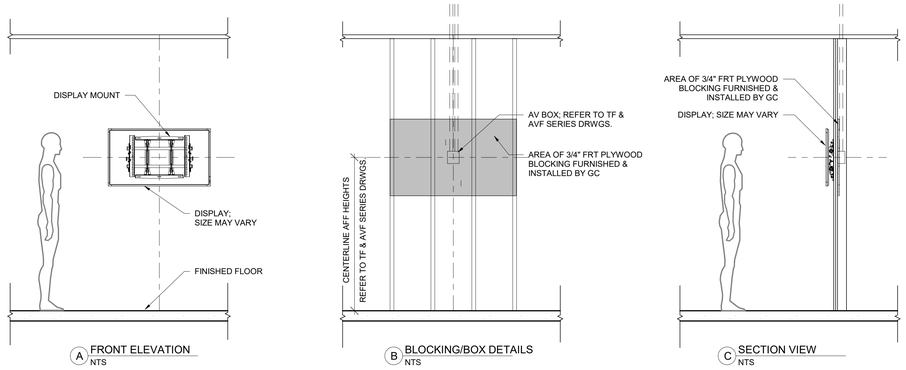
NOTE: TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE



ACCESSORY MOUNTING HEIGHTS



TYPICAL SOAP DISPENSOR MIRROR CUTOUT



WALL DISPLAY MOUNTING NOTES:
1.REVIEW MAXIMUM WEIGHT TO BE INSTALLED ON DISPLAY BRACKET/MOUNT.
2.THE WALL TO WHICH THE MOUNT & DISPLAY IS TO BE ANCHORED MUST BE CAPABLE OF SUPPORTING FIVE (5) TIMES THE TOTAL WEIGHT.
3.REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE CORRECT INSTALLATION PROCEDURES FOR THE MOUNT.

WARNING: IMPROPER INSTALLATION MAY RESULT IN SERIOUS PERSONAL INJURY!

FOLLOW MANUFACTURER'S INSTALLATION DIRECTIONS COMPLETELY. THE STRUCTURAL SYSTEM AND MOUNTING METHOD MUST BE CAPABLE OF SUPPORTING 5 TIMES THE COMBINED WEIGHT OF THE TOTAL INSTALLATION.

WALL MOUNTED DISPLAY

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

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UK Project Number 2552.0

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3	P4 - CD REVIEW	12/04/20
4	P4 - BID & PERMIT	01/08/21

Drawn By Author
Checked By Checker
Client Number 514
Project Number P4-5350

MICHAEL J. BATTOCLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE
ACCESSORY MOUNTING HEIGHTS

SHEET NO.
AG-014A

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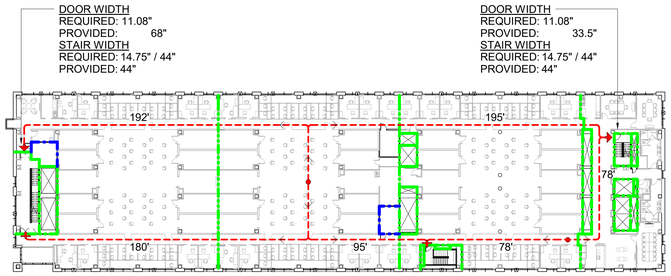
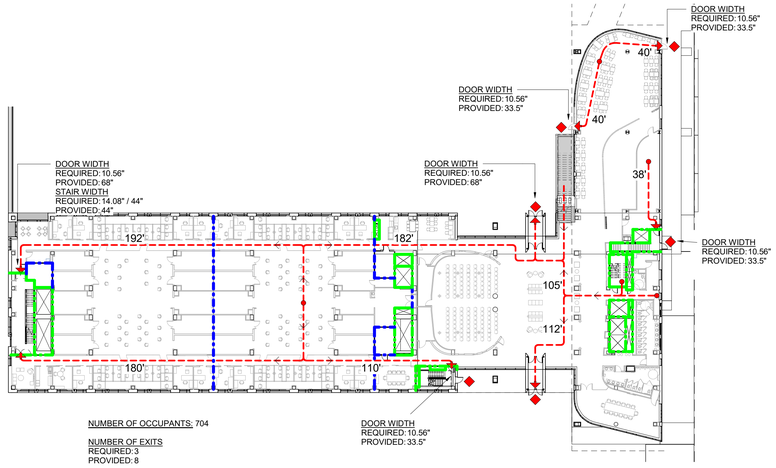


NUMBER OF OCCUPANTS: 295

NUMBER OF EXITS
REQUIRED: 2
PROVIDED: 4

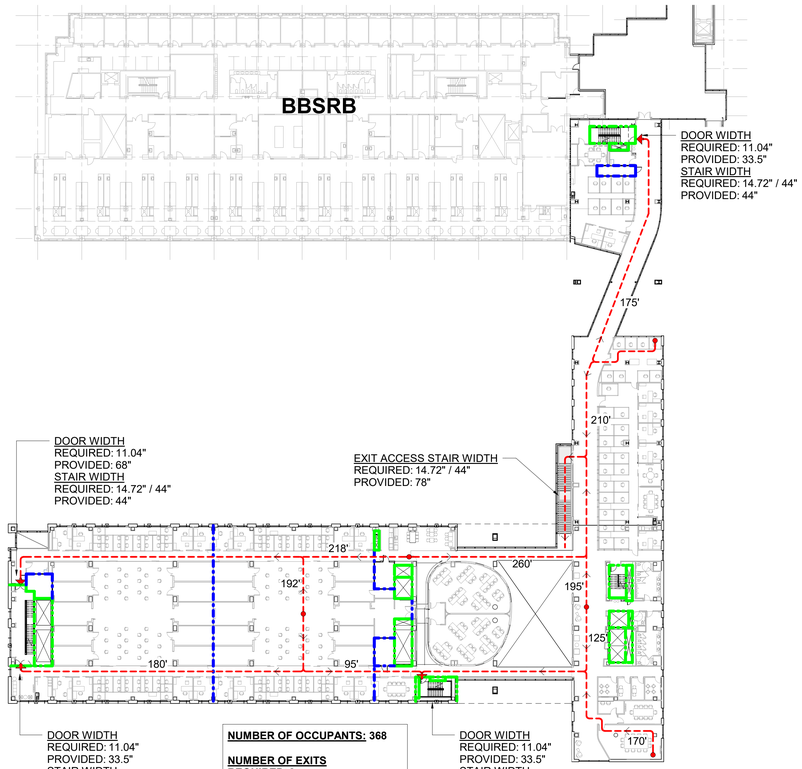
4 **LEVEL 06 - LIFE SAFETY PLAN**
FL-001 1/32" = 1'-0"



NUMBER OF OCCUPANTS: 704

NUMBER OF EXITS
REQUIRED: 3
PROVIDED: 8

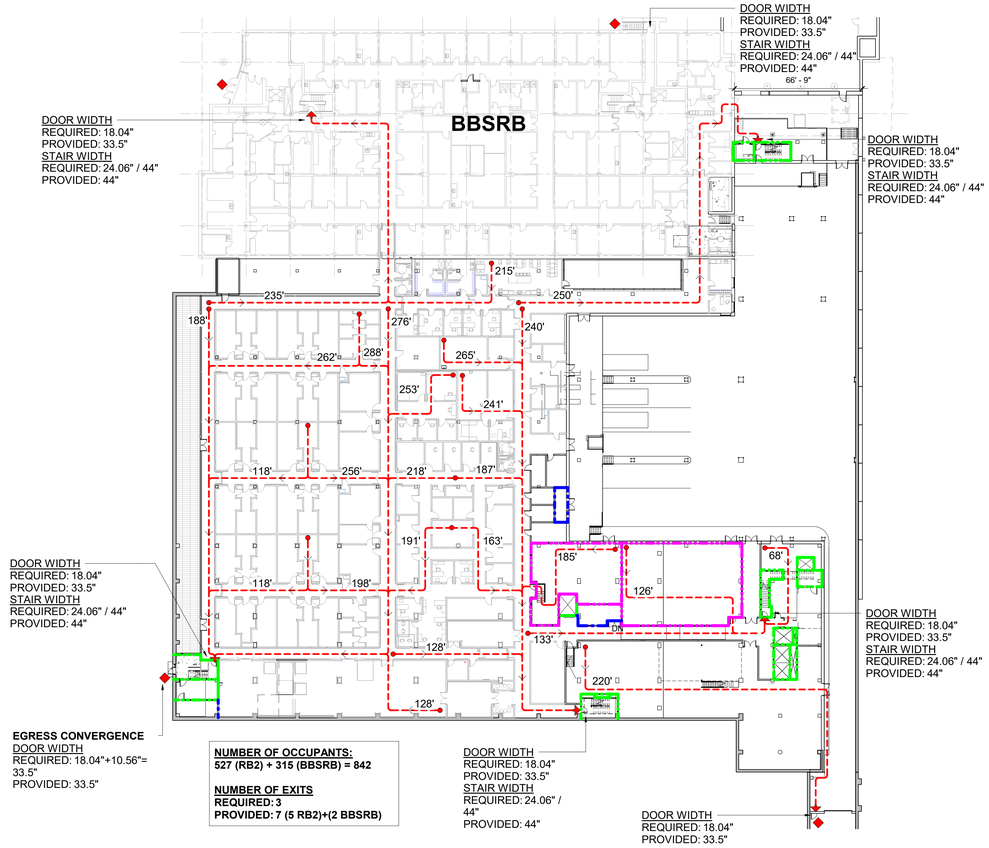
3 **LEVEL 01 - LIFE SAFETY PLAN**
FL-001 1/32" = 1'-0"



NUMBER OF OCCUPANTS: 368

NUMBER OF EXITS
REQUIRED: 2
PROVIDED: 5

2 **LEVEL 02 - LIFE SAFETY PLAN**
FL-001 1/32" = 1'-0"



EGRESS CONVERGENCE
DOOR WIDTH
REQUIRED: 18.04"+10.56"= 33.5"
PROVIDED: 33.5"

NUMBER OF OCCUPANTS:
527 (RB2) + 315 (BBSRB) = 842

NUMBER OF EXITS
REQUIRED: 3
PROVIDED: 7 (5 RB2)+(2 BBSRB)

1 **LOWER LEVEL LIFE SAFETY PLAN**
FL-001 1/32" = 1'-0"

LIFE SAFETY LEGEND

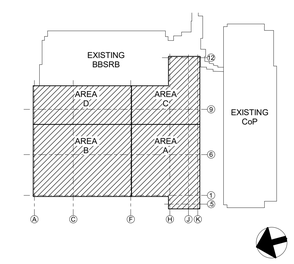
- 1 HR FIRE BARRIER ASSEMBLY
- 2 HR FIRE BARRIER ASSEMBLY (FIRE DAMPERS REQUIRED)
- 3 HR FIRE BARRIER ASSEMBLY (FIRE DAMPERS REQUIRED)
- DENOTES EXIT DISCHARGE
- TRAVEL DISTANCE
- DENOTES START POINT
- 175'
- DENOTES EXIT ROUTE
- DENOTES EXIT

EGRESS REQUIREMENTS

USE...	AREA / OCC	OCC	STAIR WIDTH (0.2")		OTHER WIDTH (0.15")	
			REQ'D	PROVIDED	REQ'D	PROVIDED
LOWER LEVEL (RB2):						
B	45,070 SF / 100	451				
S-1	22,815 SF / 300	76				
	67,885 SF	**527**	105.4"	192"	79.0"	167.5"
LOWER LEVEL (BBSRB):						
B	31,500 SF	315	63.0"	88"	47.3"	67"
		842	**168.4"**	**280"**	**126.3"**	**234.5"**
LEVEL ONE: (MAIN LEVEL OF EXIT DISCHARGE)						
A-2	3,060 SF / 15	204				
A-3	3,130 SF / 15	209				
B	28,675 SF / 100	287				
S-1	1,050 SF / 300	4				
	35,915 SF	**704**	140.8"	48"	105.6"	371.5"
LEVEL TWO:						
B	36,775 SF / 100	368	73.6"	192"	55.2"	168.5"
LEVEL THREE:						
B	40,205 SF / 100	402	80.4"	192"	60.3"	168.5"
LEVEL FOUR:						
B	40,055 SF / 100	401	80.2"	192"	60.2"	168.5"
LEVEL FIVE:						
B	29,655 SF / 100	297	59.4"	144"	44.6"	135"
LEVEL SIX						
B	29,500 SF / 100	295	59.0"	144"	44.3"	135"
PENTHOUSE:						
S-1	21,180 SF / 300	71	14.2"	96"	10.7"	67"
TOTAL:						
	301,170 SF	**3065**				

BUILIDNG AREA:

LOWER LEVEL	**67,885 SF**
LEVEL ONE	**35,915 SF**
LEVEL TWO	**36,775 SF**
LEVEL THREE	**40,055 SF**
LEVEL FOUR	**40,055 SF**
LEVEL FIVE	**29,500 SF**
LEVEL SIX	**29,500 SF**
PENTHOUSE	**21,180 SF**



KEY PLAN
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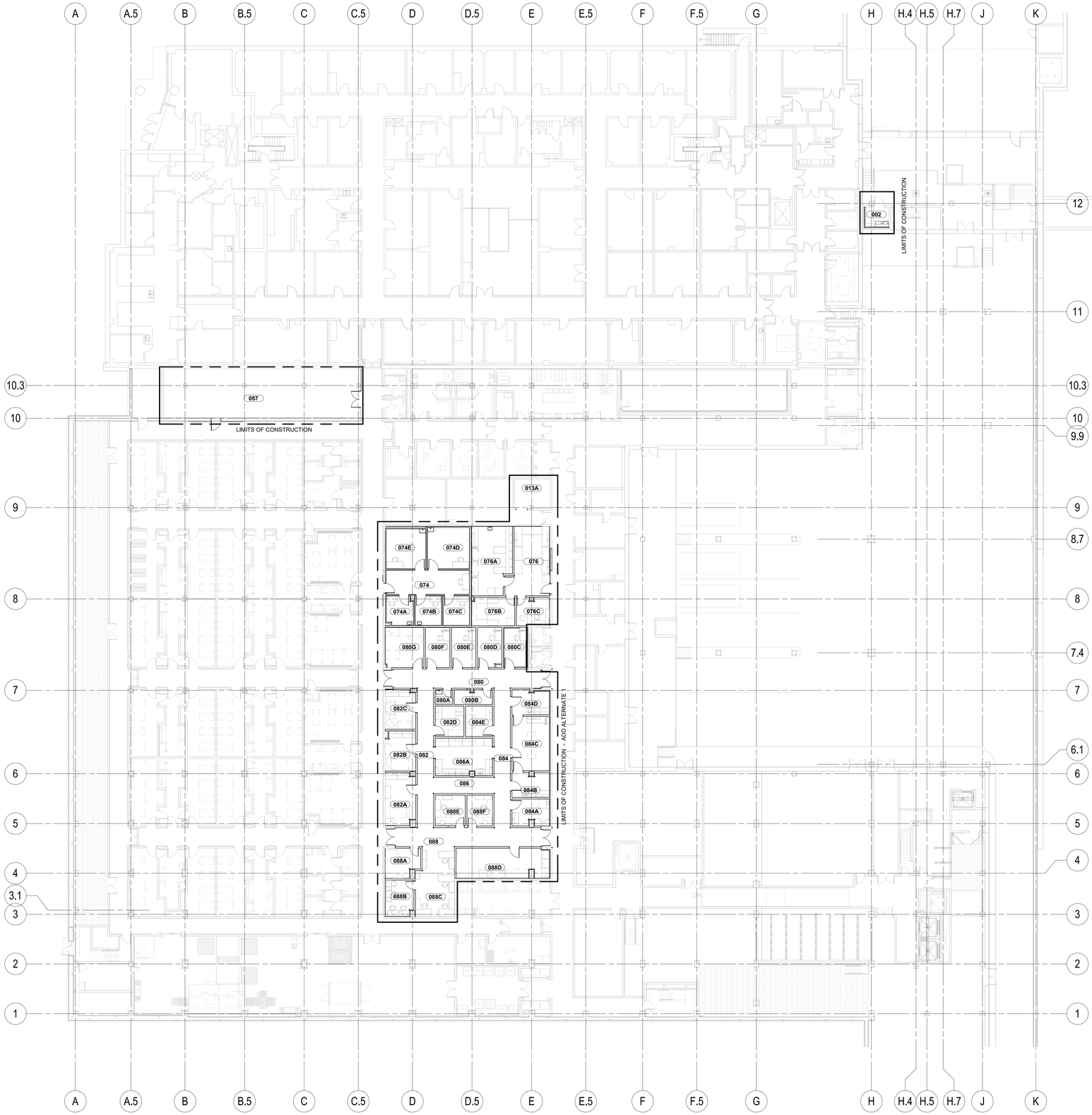
Drawn By
Author
Checked By
Checker
Client Number
514
Project Number
P4-5350

MICHAEL J. BATTCOLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE
LIFE SAFETY PLANS

SHEET NO.
FL-001

1/11/2021 5:17:34 PM



1 **FLOOR PLAN - LEVEL 00 FIT OUT - OVERALL**
AI-229 1/16" = 1'-0"

GENERAL NOTES - FIT-OUT PLANS

1. UNFORESEEN OR UNCLEAR CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
2. ANY CONFLICTS WITHIN THE DRAWINGS, BETWEEN DRAWINGS AND SPECIFICATIONS, OR BETWEEN DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL WRITTEN CLARIFICATION FROM THE ARCHITECT IS RECEIVED.
3. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL GOVERN. ALL PLAN DIMENSIONS ARE TAKEN TO FINISH FACE OF CONSTRUCTION.
4. SEE AG-013A FOR INTERIOR PARTITION TYPES. USE IMPACT RESISTANT GYPSUM BOARD FOR ALL GYPSUM BOARD WALL ASSEMBLIES IN VIVARIUM AREAS.
5. LAYOUT AND VERIFY ALL PARTITION LOCATIONS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS OR CLEARANCES.
6. WHERE FINISH IS CONTINUOUS AT PARTITION TYPE TRANSITIONS, ENSURE THAT FINISH SURFACE IS FLUSH AND SEAMLESS.
7. THE GENERAL CONTRACTOR IS TO PROVIDE BLOCKING IN ALL METAL STUD PARTITIONS FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES. THE LOCATIONS, MOUNTING HEIGHTS AND BLOCKING REQUIREMENTS SHOWN HERE ON ARE GIVEN FOR INFORMATIONAL PURPOSES ONLY AND IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THIS INFORMATION WITH SUB-CONTRACTORS, MANUFACTURERS, OR EQUIPMENT SUPPLIERS. SEE TYPICAL BLOCKING DETAILS IN METAL STUD WALLS INCLUDED IN THESE DOCUMENTS FOR BLOCKING AND ANCHORING REQUIREMENTS.
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11. PATCH ALL HOLES IN EXISTING SURFACES WHERE ELEMENTS HAVE BEEN REMOVED. PREPARE SURFACES FOR NEW FINISHES AS REQUIRED, OR PATCH TO MATCH ADJACENT SURFACE IF NO NEW FINISH IS SCHEDULED.
12. PROVIDE CONTROL JOINTS IN GYPSUM WALLBOARD INTERIOR PARTITIONS AT 30 FEET ON CENTER MAXIMUM. WHERE POSSIBLE, LOCATE AT CORNERS ABOVE OPENINGS. VERIFY LOCATIONS WITH ARCHITECT. SEE THE ASSOCIATED TYPICAL DETAILS INCLUDED IN THESE DOCUMENTS.
13. FURNISH AND INSTALL SEALANT AT ALL FIXTURES AND CHANGES IN MATERIAL, AND AS REQUIRED BY THE APPLICABLE HEALTH DEPARTMENT.
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15. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL EQUIPMENT INSTALLATION, AND VERIFYING ALL REQUIRED ROUGH OPENINGS AND ROUGH-IN DIMENSIONS WITH THE EQUIPMENT MANUFACTURER, OWNER, AND ARCHITECT PRIOR TO CONSTRUCTION.
16. ALL MECHANICAL EQUIPMENT PADS TO BE 4" HIGH MINIMUM UNLESS NOTED OTHERWISE.
17. CHARACTER HEIGHT AND PROPORTION, FINISH AND CONTRAST, FRONT, BRAILLE, AND PICTOGRAM TYPES AS INDICATED IN THESE DOCUMENTS. ROOM IDENTIFICATION SIGNAGE SHALL BE MOUNTED AT 60" ABOVE THE FINISHED FLOOR TO THE SIGN CENTERLINE, AND SHALL BE MOUNTED TO THE WALL AT THE LATCH SIDE OF THE DOOR.

ROOM DATA

ROOM NUMBER	ROOM NAME	NASF	SPACE DESCRIPTION
002	LAUNDRY	65 SF	
013A	STORAGE	140 SF	
057	STORAGE	1,310 SF	
074	CORRIDOR	276 SF	
074A	BEHAVIOR	105 SF	
074B	BEHAVIOR	106 SF	
074C	BEHAVIOR	106 SF	
074D	BEHAVIOR	237 SF	
074E	BEHAVIOR	215 SF	
076	FLOW - CYTOMETRY LAB	361 SF	
076A	FLOW - IM LAB	361 SF	
076B	BIOCONTAIN.	166 SF	
076C	OFFICE	126 SF	
080	CORRIDOR	386 SF	
080A	CUSTODIAL	35 SF	
080B	SUPPORT	75 SF	
080C	ANIMAL RM.	127 SF	
080D	ULTRASOUND	130 SF	
080E	ULTRASOUND	133 SF	
080F	ULTRASOUND	133 SF	
080G	MICRO-CT	210 SF	
082	CORRIDOR	310 SF	
082A	IMAGING	211 SF	
082B	IMAGING	163 SF	
082C	IMAGING	162 SF	
082D	IMAGING	119 SF	
084	CORRIDOR	310 SF	
084A	IMAGING	133 SF	
084B	PREP / SCRUB	125 SF	
084C	SURGERY	278 SF	
084D	PREP/RECOV.	123 SF	
084E	IMAGING	112 SF	
086	CORRIDOR	130 SF	
086A	WET LAB	291 SF	
088	CORRIDOR	387 SF	
088A	OFFICE	131 SF	
088B	DATA PROCESSING	138 SF	
088C	STAFF	348 SF	
088D	IMAGING	374 SF	
088E	OFFICE	125 SF	
088F	OFFICE	107 SF	
TOTAL NET SF		8,878 SF	

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Drawn By	
Author	
Checked By	
Checker	
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTCOMBE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE

FLOOR PLAN - LOWER LEVEL - OVERALL

SHEET NO.

AI-229

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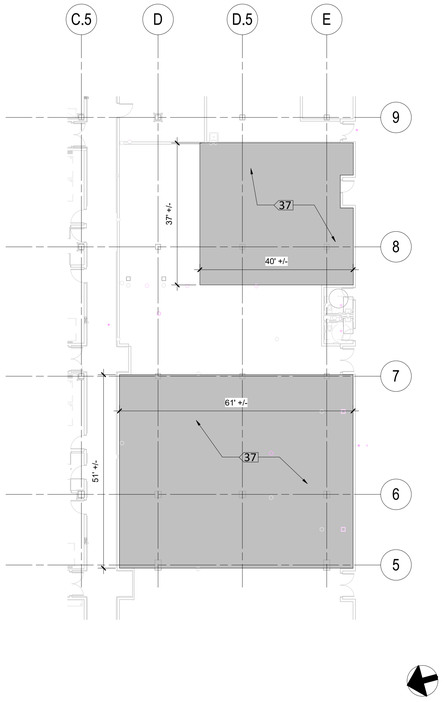
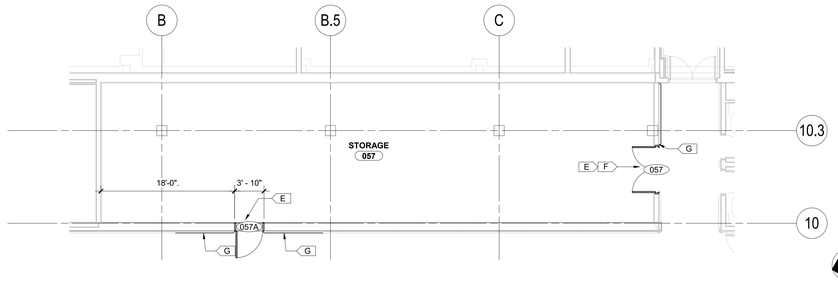
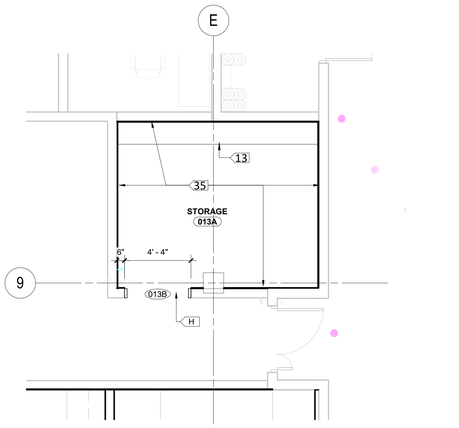


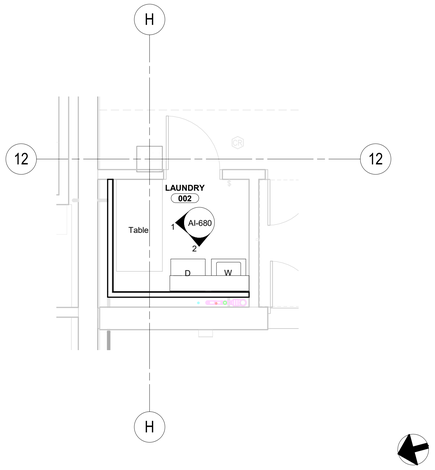
5 AI-230 **LOWER LEVEL PLAN - SLAB DEPRESSIONS P4**
1/16" = 1'-0"



4 AI-230 **FLOOR PLAN / DEMO PLAN - STORAGE 057**
1/8" = 1'-0"



3 AI-230 **FLOOR PLAN / DEMO PLAN - STORAGE 013A**
1/4" = 1'-0"



2 AI-230 **FLOOR PLAN - LAUNDRY 002**
1/4" = 1'-0"

1 AI-230 **FLOOR PLAN - LEVEL 00 FIT OUT - PARTIAL AREA 'B'**
1/8" = 1'-0"

GENERAL NOTES - FIT-OUT PLANS

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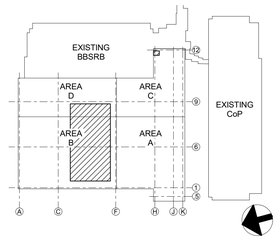
KEYNOTES - FIT OUT PH 4

5	FLOOR DRAIN WITH SAFETY SHOWER AT CEILING ABOVE
7	EXISTING POKE-THROUGH FLOOR BOX
8	GLASS GUARDRAIL TO MATCH PHASE 1 & 2 INSTALLATION
11	WAVE ACTIVATED DOOR ACTUATOR
13	INSTALL OWNER PROVIDED S.S. SHELVING; INSTALL BLOCKING AS REQUIRED.
18	NEW POKE-THRU FLOOR BOX
20	DOOR ACTUATOR; REFER TO HARDWARE SET FOR TYPE.
31	SS GUARD TO PROTECT SAFETY SHOWER HANDLE; TYPICAL FOR WET LABS; REFER TO DETAIL
35	5/8" GYP BOARD WITH 8" ACOUSTIC BATTS; CONTINUE TO U/S OF STRUCTURE
37	SHADED AREA INDICATES EXISTING 1" SLAB DEPRESSION, FILL WITH CEMENTITIOUS FLOOR LEVELING COMPOUND FOR SMOOTH TRANSITION OF FLOOR FINISH.
39	REPLACE EXISTING FRP DOORS
40	FOR MOP SINK WALL FINISHES AND ACCESSORIES REFER TO ELEVATIONS 13 & 14 ON SHEET AI-686
41	WALL MT. SOUND PANELS. SEE TYP. ELEVATION 3/AI-680
42	MOVEABLE PARTITION; REFER TO DETAILS AND SPECIFICATIONS SECTION 102239
C3	GYPSUM COLUMN WRAP
C5	EXPOSED CONCRETE COLUMN - PLASTER FINISH
D1	REMOVE EXISTING DOOR AND CUT SECTION OF EXISTING WALL FOR NEW OPENING.
D2	REMOVE EXISTING PARTITION & TEMPORARY FLOOR INFILL
D3	REMOVE EXISTING WINDOW; FILL IN WITH STUDS AND GYP BOARD BOTH SIDES
D4	REMOVE EXISTING GLASS GUARDRAIL; MAKE GOOD ALL EXISTING FINISHES

KEYNOTES - DEMO PLAN P4

A	REMOVE SECTIONS OF EXISTING INTERIOR WALL SYSTEM AS INDICATED IN PLANS AND SECTIONS
B	REMOVE EXISTING WALL PROTECTION
C	REMOVE EXISTING CEILING; MAINTAIN EXISTING SHADES; COORDINATE MEP EQUIPMENT
D	REMOVE EXISTING DOOR AND FRAME
E	CUT OPENING IN EXISTING MASONRY WALL FOR NEW DOOR
F	REMOVE EXISTING DOOR AND FRAME; INSTALL NEW DOOR AND FRAME - REFER TO DOOR SCHEDULE.
G	REMOVE AND MODIFY EXISTING WALL PROTECTION RAIL AS NEEDED FOR NEW DOOR
H	CUT OPENING IN EXISTING GYPSUM WALL; INSTALL NEW CASED OPENING - REFER TO DOOR SCHEDULE



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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - SD REVIEW	09/18/20
2	P4 - DD REVIEW	10/23/20
3	P4 - CD REVIEW	12/04/20
4	P4 - BID & PERMIT	01/08/21

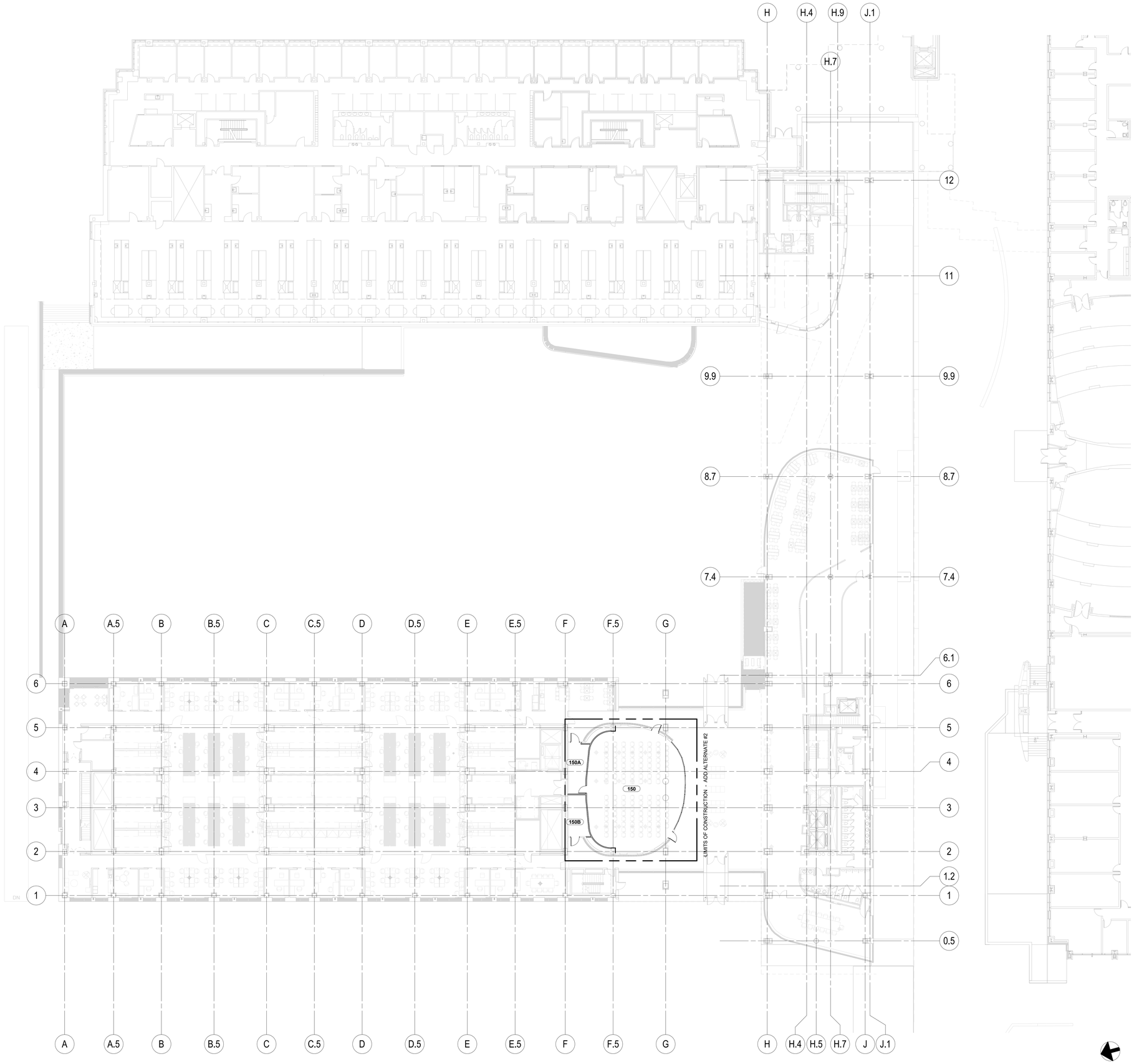
Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: P4-5350

MICHAEL J. BATTICOTTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE
FLOOR PLAN - LOWER LEVEL - IMAGING SUITE

SHEET NO.
AI-230

11/12/2021 11:53:49 AM



1 **FLOOR PLAN - LEVEL 01 FIT OUT - OVERALL**
AI-231 1/16" = 1'-0"

GENERAL NOTES - FIT-OUT PLANS

1. UNFORESEEN OR UNCLEAR CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
2. ANY CONFLICTS WITHIN THE DRAWINGS, BETWEEN DRAWINGS AND SPECIFICATIONS, OR BETWEEN DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL WRITTEN CLARIFICATION FROM THE ARCHITECT IS RECEIVED.
3. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL GOVERN. ALL PLAN DIMENSIONS ARE TAKEN TO FINISH FACE OF CONSTRUCTION.
4. SEE AG-013A FOR INTERIOR PARTITION TYPES. USE IMPACT RESISTANT GYPSUM BOARD FOR ALL GYPSUM BOARD WALL ASSEMBLIES IN VIVARIUM AREAS.
5. LAYOUT AND VERIFY ALL PARTITION LOCATIONS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS OR CLEARANCES.
6. WHERE FINISH IS CONTINUOUS AT PARTITION TYPE TRANSITIONS, ENSURE THAT FINISH SURFACE IS FLUSH AND SEAMLESS.
7. THE GENERAL CONTRACTOR IS TO PROVIDE BLOCKING IN ALL METAL STUD PARTITIONS FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES. THE LOCATIONS, MOUNTING HEIGHTS AND BLOCKING REQUIREMENTS SHOWN HERE ON ARE GIVEN FOR INFORMATIONAL PURPOSES ONLY AND IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THIS INFORMATION WITH SUB-CONTRACTORS, MANUFACTURERS, OR EQUIPMENT SUPPLIERS. SEE TYPICAL BLOCKING DETAILS IN METAL STUD WALLS INCLUDED IN THESE DOCUMENTS FOR BLOCKING AND ANCHORING REQUIREMENTS.
8. ALL CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED.
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12. PROVIDE CONTROL JOINTS IN GYPSUM WALLBOARD INTERIOR PARTITIONS AT 30 FEET ON CENTER MAXIMUM. WHERE POSSIBLE, LOCATE AT CORNERS ABOVE OPENINGS. VERIFY LOCATIONS WITH ARCHITECT. SEE THE ASSOCIATED TYPICAL DETAILS INCLUDED IN THESE DOCUMENTS.
13. FURNISH AND INSTALL SEALANT AT ALL FIXTURES AND CHANGES IN MATERIAL, AND AS REQUIRED BY THE APPLICABLE HEALTH DEPARTMENT.
14. DOOR OPENINGS NOT LOCATED BY DIMENSIONS SHALL BE 4" FROM FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME.
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17. CHARACTER HEIGHT AND PROPORTION, FINISH AND CONTRAST, FRONT, BRAILLE, AND PICTOGRAM TYPES AS INDICATED IN THESE DOCUMENTS. ROOM IDENTIFICATION SIGNAGE SHALL BE MOUNTED AT 60" ABOVE THE FINISHED FLOOR TO THE SIGN CENTERLINE, AND SHALL BE MOUNTED TO THE WALL AT THE LATCH SIDE OF THE DOOR.

ROOM DATA

ROOM NUMBER	ROOM NAME	NASF	SPACE DESCRIPTION
150	SEMINAR	1,843 SF	
150A	CONTROL ROOM	170 SF	
150B	STORAGE	143 SF	
TOTAL NET SF		2,156 SF	

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Drawn By Author
Checked By Checker
Client Number 514
Project Number P4-5350

MICHAEL J. BATTCOLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE

FLOOR PLAN - LEVEL ONE - OVERALL

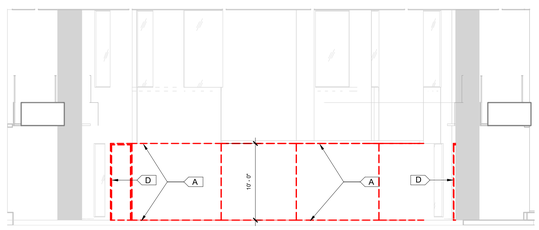
SHEET NO.

AI-231

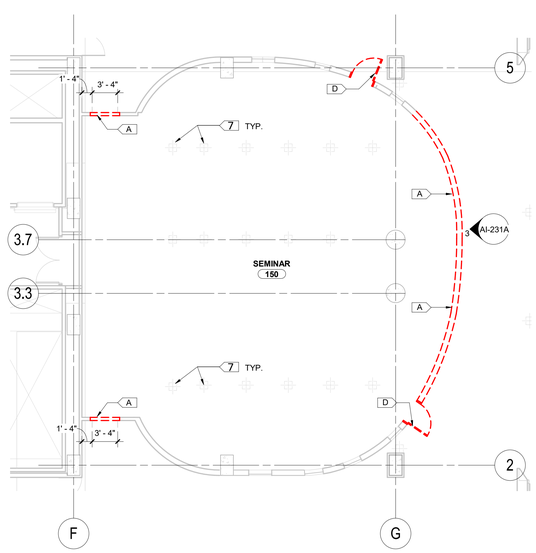
1/11/2021 4:43:19 PM

SEMINAR ROOM 150 - VIEW 2

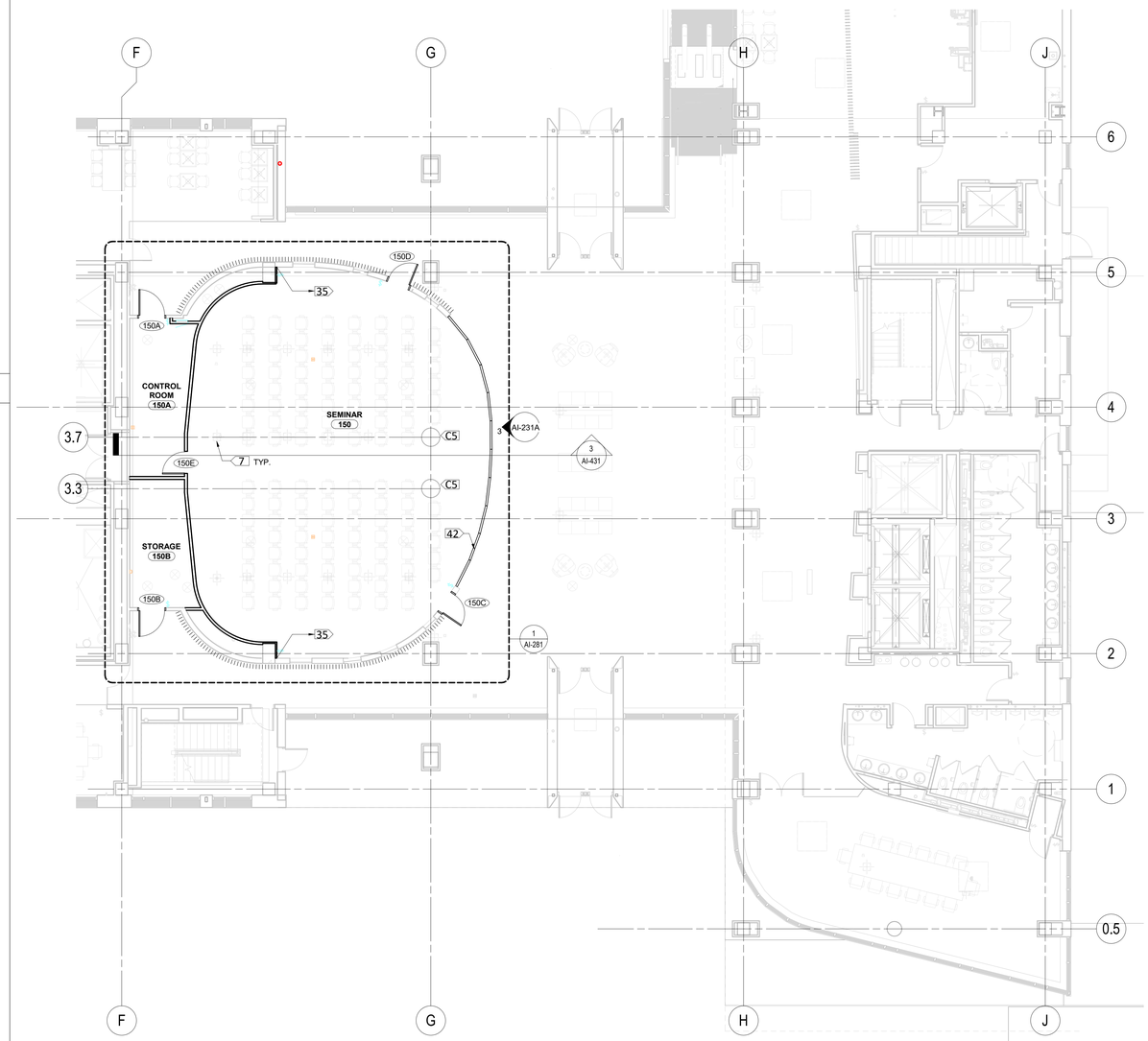
SEMINAR ROOM 150 - VIEW 1



3 AI-231A **LOBBY NORTH ELEVATION LEVEL 01 AND 02 - EXISTING**
1/8" = 1'-0"



2 AI-231A **DEMOLITION PLAN - LEVEL 01 FIT OUT - SEMINAR ROOM**
1/8" = 1'-0"



1 AI-231A **FLOOR PLAN - LEVEL 01 FIT OUT - AREA 'A'**
1/8" = 1'-0"

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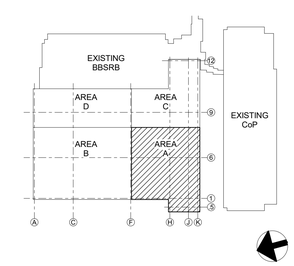
KEYNOTES - FIT OUT PH 4

5	FLOOR DRAIN WITH SAFETY SHOWER AT CEILING ABOVE
7	EXISTING POKE-THROUGH FLOOR BOX
8	GLASS GUARDRAIL TO MATCH PHASE 1 & 2 INSTALLATION
11	WAVE ACTIVATED DOOR ACTUATOR
13	INSTALL OWNER PROVIDED S.S. SHELVING; INSTALL BLOCKING AS REQUIRED.
18	NEW POKE-THRU FLOOR BOX
20	DOOR ACTUATOR; REFER TO HARDWARE SET FOR TYPE.
31	SS GUARD TO PROTECT SAFETY SHOWER HANDLE; TYPICAL FOR WET LABS; REFER TO DETAIL
35	5/8" GYP BOARD WITH 8" ACOUSTIC BATTS; CONTINUE TO U/S OF STRUCTURE
37	SHADED AREA INDICATES EXISTING 1" SLAB DEPRESSION. FILL WITH CEMENTITIOUS FLOOR LEVELING COMPOUND FOR SMOOTH TRANSITION OF FLOOR FINISH.
39	REPLACE EXISTING FRP DOORS
40	FOR MOP SINK WALL FINISHES AND ACCESSORIES REFER TO ELEVATIONS 13 & 14 ON SHEET AI-686
41	WALL MT. SOUND PANELS. SEE TYP. ELEVATION 3/AI-680
42	MOVEABLE PARTITION; REFER TO DETAILS AND SPECIFICATIONS SECTION 102239
C3	GYPSUM COLUMN WRAP
C5	EXPOSED CONCRETE COLUMN - PLASTER FINISH
D1	REMOVE EXISTING DOOR AND CUT SECTION OF EXISTING WALL FOR NEW OPENING.
D2	REMOVE EXISTING PARTITION & TEMPORARY FLOOR INFILL
D3	REMOVE EXISTING WINDOW; FILL IN WITH STUDS AND GYP BOARD BOTH SIDES
D4	REMOVE EXISTING GLASS GUARDRAIL; MAKE GOOD ALL EXISTING FINISHES

KEYNOTES - DEMO PLAN P4

A	REMOVE SECTIONS OF EXISTING INTERIOR WALL SYSTEM AS INDICATED IN PLANS AND SECTIONS
B	REMOVE EXISTING WALL PROTECTION
C	REMOVE EXISTING CEILING; MAINTAIN EXISTING SHADES; COORDINATE MEP EQUIPMENT
D	REMOVE EXISTING DOOR AND FRAME
E	CUT OPENING IN EXISTING MASONRY WALL FOR NEW DOOR
F	REMOVE EXISTING DOOR AND FRAME; INSTALL NEW DOOR AND FRAME - REFER TO DOOR SCHEDULE.
G	REMOVE AND MODIFY EXISTING WALL PROTECTION RAIL AS NEEDED FOR NEW DOOR
H	CUT OPENING IN EXISTING GYPSUM WALL; INSTALL NEW CASED OPENING - REFER TO DOOR SCHEDULE



KEY PLAN
NTS

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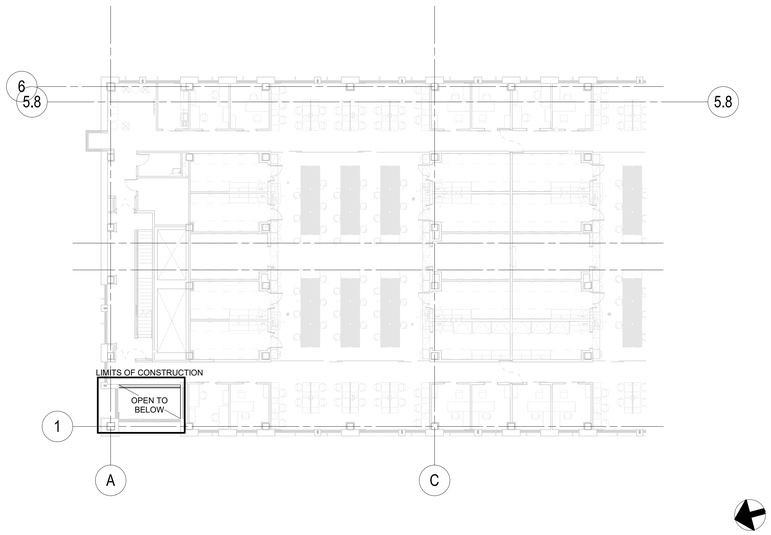
MICHAEL J. BATTCOTTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE

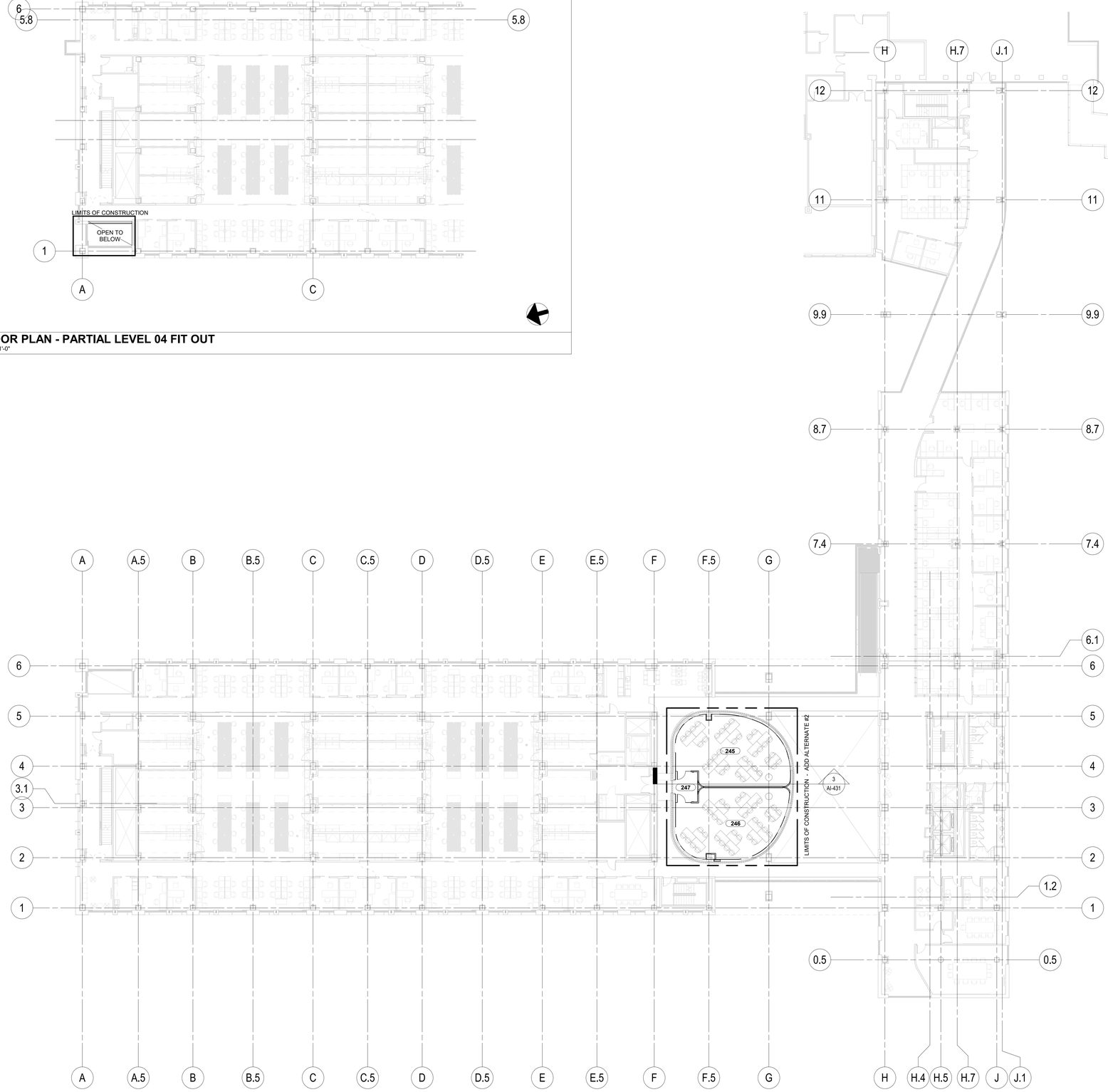
FLOOR PLAN - LEVEL ONE - AREA A

SHEET NO.
AI-231A

11/12/2021 11:51:01 AM



2 AI-232 **FLOOR PLAN - PARTIAL LEVEL 04 FIT OUT**
1/16" = 1'-0"



1 AI-232 **FLOOR PLAN - LEVEL 02 FIT OUT - OVERALL**
1/16" = 1'-0"

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ROOM DATA

ROOM NUMBER	ROOM NAME	NASF	SPACE DESCRIPTION
245	CONFERENCE ROOM	936 SF	PAINT WALL BASE TO MATCH WALL COLOR
246	CONFERENCE ROOM	902 SF	PAINT WALL BASE TO MATCH WALL COLOR
247	VESTIBULE	79 SF	PAINT WALL BASE TO MATCH WALL COLOR
TOTAL NET SF		1,917 SF	

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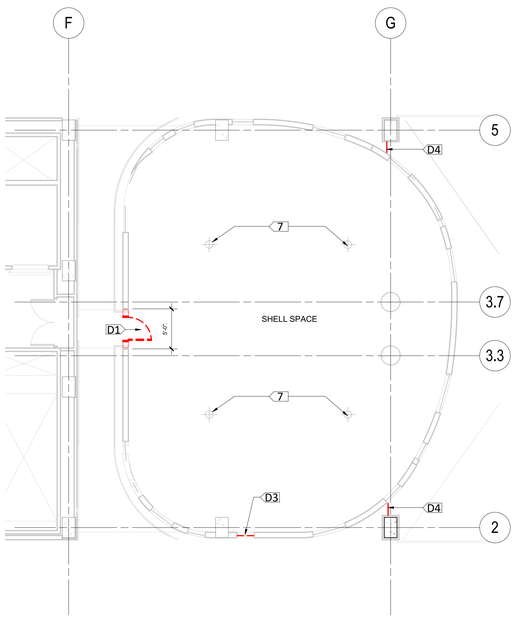
MICHAEL J. BATTOCLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY PROFESSIONAL ENGINEER

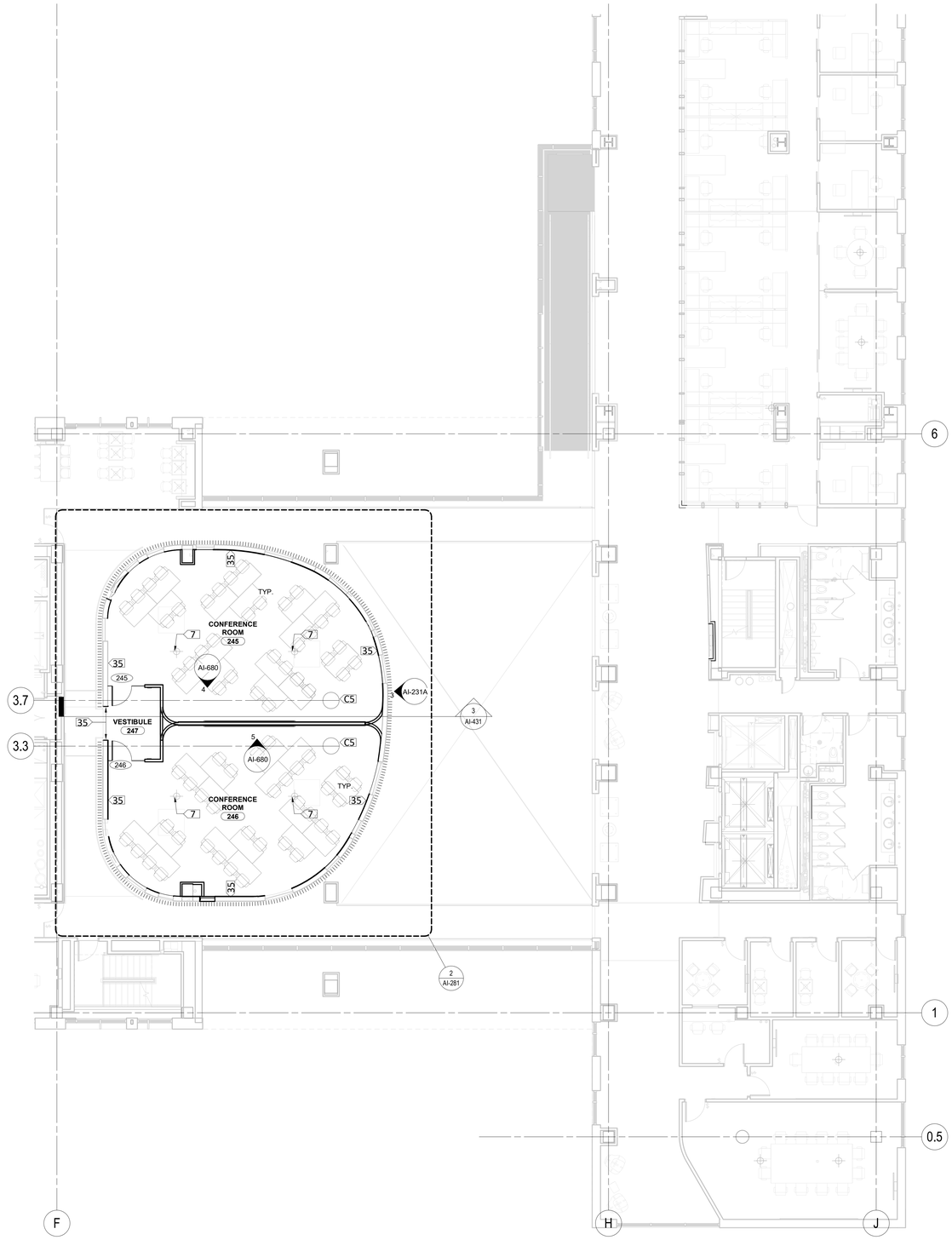
DRAWING TITLE
FLOOR PLAN - LEVEL TWO - OVERALL AND PARTIAL LEVEL FOUR

SHEET NO.
AI-232

1/11/2021 4:44:57 PM



2 AI-232A **DEMOLITION PLAN - LEVEL 02 FIT OUT - AREA 'A'**
1/8" = 1'-0"



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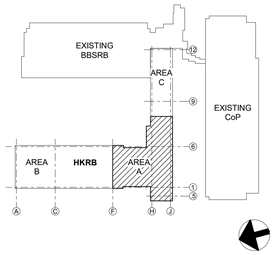
KEYNOTES - FIT OUT PH 4

5	FLOOR DRAIN WITH SAFETY SHOWER AT CEILING ABOVE
7	EXISTING POKE-THROUGH FLOOR BOX
8	GLASS GUARDRAIL TO MATCH PHASE 1 & 2 INSTALLATION
11	WAVE ACTIVATED DOOR ACTUATOR
13	INSTALL OWNER PROVIDED S.S. SHELVING; INSTALL BLOCKING AS REQUIRED.
18	NEW POKE-THRU FLOOR BOX
20	DOOR ACTUATOR; REFER TO HARDWARE SET FOR TYPE.
31	SS GUARD TO PROTECT SAFETY SHOWER HANDLE; TYPICAL FOR WET LABS; REFER TO DETAIL
35	5/8" GYP BOARD WITH 8" ACOUSTIC BATTS; CONTINUE TO U/S OF STRUCTURE
37	SHADED AREA INDICATES EXISTING 1" SLAB DEPRESSION. FILL WITH CEMENTITIOUS FLOOR LEVELING COMPOUND FOR SMOOTH TRANSITION OF FLOOR FINISH.
39	REPLACE EXISTING FRP DOORS
40	FOR MOP SINK WALL FINISHES AND ACCESSORIES REFER TO ELEVATIONS 13 & 14 ON SHEET AI-686
41	WALL MT. SOUND PANELS. SEE TYP. ELEVATION 3/AI-680
C3	GYPSUM COLUMN WRAP
C5	EXPOSED CONCRETE COLUMN - PLASTER FINISH
D1	REMOVE EXISTING DOOR AND CUT SECTION OF EXISTING WALL FOR NEW OPENING.
D2	REMOVE EXISTING PARTITION & TEMPORARY FLOOR INFILL
D3	REMOVE EXISTING WINDOW; FILL IN WITH STUDS AND GYP BOARD BOTH SIDES
D4	REMOVE EXISTING GLASS GUARDRAIL; MAKE GOOD ALL EXISTING FINISHES



KEY PLAN
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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

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2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By	
Author	
Checked By	
Checker	
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTICOTTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE

FLOOR PLAN LEVEL TWO - AREA A

SHEET NO.

AI-232A

1/11/2021 4:45:39 PM

ROOM DATA

ROOM NUMBER	ROOM NAME	NASF	SPACE DESCRIPTION
600E	CORRIDOR	510 SF	
600E1	BAS CLOSET	6 SF	
600EN	CORRIDOR	598 SF	
600ES	CORRIDOR	358 SF	
600N	CORRIDOR	81 SF	
600W	CORRIDOR	505 SF	
600WN	CORRIDOR	602 SF	
600WS	CORRIDOR	344 SF	
601	LOBBY	746 SF	
601	LOBBY	Redundant Room	
601A	CORRIDOR	135 SF	
602	TOILET	169 SF	
603	TOILET	51 SF	
604	TOILET	168 SF	
605	COLLABORATION	506 SF	RB-5 ON ISLAND BASE
605A	CONFERENCE RM	308 SF	
606	COPY	118 SF	
607	CONFERENCE ROOM	218 SF	
608	CONFERENCE ROOM	240 SF	
609	COLLABORATION	153 SF	
610	FACULTY OFFICE	118 SF	
611	FACULTY OFFICE	120 SF	
612	POST DOC/GRAD/TECH	500 SF	
613	FACULTY OFFICE	118 SF	
615	OFFICE	118 SF	
616	FACULTY OFFICE	122 SF	
617	FACULTY OFFICE	121 SF	
618	POST DOC/GRAD/TECH	526 SF	
619	FACULTY OFFICE	118 SF	
620	OFFICE	116 SF	FLEX OFFICE
621	FACULTY OFFICE	118 SF	
622	FACULTY OFFICE	120 SF	
623	POST DOC/GRAD/TECH	526 SF	
624	FACULTY OFFICE	120 SF	
625	OFFICE	124 SF	FLEX OFFICE
629	CUSTODIAL	68 SF	
631	COPY	96 SF	
632	OFFICE	122 SF	FLEX OFFICE
633	FACULTY OFFICE	120 SF	
634	POST DOC/GRAD/TECH	526 SF	
635	FACULTY OFFICE	120 SF	
636	FACULTY OFFICE	118 SF	
637	OFFICE	118 SF	FLEX OFFICE
638	FACULTY OFFICE	117 SF	
639	POST DOC/GRAD/TECH	525 SF	
640	FACULTY OFFICE	120 SF	
641	FACULTY OFFICE	122 SF	
643	FACULTY OFFICE	118 SF	

ROOM DATA

ROOM NUMBER	ROOM NAME	NASF	SPACE DESCRIPTION
644	FACULTY OFFICE	120 SF	
645	FACULTY OFFICE	123 SF	
646	FACULTY OFFICE	120 SF	
647	POST DOC/GRAD/TECH	513 SF	
648	FACULTY OFFICE	120 SF	
649	FACULTY OFFICE	116 SF	
650	LAB NEIGHBORHOOD MODULE	2,243 SF	
650A	FUME HOOD ROOM	200 SF	
650B	PROCEDURE ROOM	207 SF	
650C	LINEAR EQUIP ROOM	333 SF	
650C1	BAS CLOSET	7 SF	
650D	PROCEDURE ROOM	207 SF	
650E	PROCEDURE ROOM	199 SF	
650F	PROCEDURE ROOM	197 SF	
650G	PROCEDURE ROOM	205 SF	
650H	LINEAR EQUIP ROOM	246 SF	
650J	PROCEDURE ROOM	205 SF	
650K	PROCEDURE ROOM	200 SF	
651	LAB NEIGHBORHOOD MODULE	2,263 SF	
651A	FUME HOOD ROOM	196 SF	
651B	PROCEDURE ROOM	191 SF	
651C	LINEAR EQUIP ROOM	235 SF	
651D	PROCEDURE ROOM	192 SF	
651E	PROCEDURE ROOM	193 SF	
651F	PROCEDURE ROOM	191 SF	
651G	PROCEDURE ROOM	194 SF	
651H	LINEAR EQUIP ROOM	277 SF	
651H1	ENVIRONMENTAL ROOM	101 SF	
651H2	STERILIZER ALCOVE	59 SF	
651J	PROCEDURE ROOM	193 SF	
651K	PROCEDURE ROOM	194 SF	
652	LAB NEIGHBORHOOD MODULE	2,261 SF	
652A	PROCEDURE ROOM	192 SF	
652B	PROCEDURE ROOM	188 SF	
652C	LINEAR EQUIP ROOM	233 SF	
652D	PROCEDURE ROOM	188 SF	
652E	PROCEDURE ROOM	189 SF	
652F	PROCEDURE ROOM	193 SF	
652G	PROCEDURE ROOM	192 SF	
652H	LINEAR EQUIP ROOM	235 SF	
652J	PROCEDURE ROOM	191 SF	
652K	FUME HOOD ROOM	196 SF	
TOTAL NET SF		25,392 SF	

GENERAL NOTES - FIT-OUT PLANS

1. UNFORESEEN OR UNCLEAR CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
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4. SEE AG-013A FOR INTERIOR PARTITION TYPES. USE IMPACT RESISTANT GYPSUM BOARD FOR ALL GYPSUM BOARD WALL ASSEMBLIES IN VIVARIUM AREAS.
5. LAYOUT AND VERIFY ALL PARTITION LOCATIONS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS OR CLEARANCES.
6. WHERE FINISH IS CONTINUOUS AT PARTITION TYPE TRANSITIONS, ENSURE THAT FINISH SURFACE IS FLUSH AND SEAMLESS.
7. THE GENERAL CONTRACTOR IS TO PROVIDE BLOCKING IN ALL METAL STUD PARTITIONS FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES. THE LOCATIONS, MOUNTING HEIGHTS AND BLOCKING REQUIREMENTS SHOWN HERE ON ARE GIVEN FOR INFORMATIONAL PURPOSES ONLY AND IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THIS INFORMATION WITH SUB-CONTRACTORS, MANUFACTURERS, OR EQUIPMENT SUPPLIERS. SEE TYPICAL BLOCKING DETAILS IN METAL STUD WALLS INCLUDED IN THESE DOCUMENTS FOR BLOCKING AND ANCHORING REQUIREMENTS.
8. ALL CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED.
9. MECHANICAL, ELECTRICAL, AND PLUMBING ELEMENTS IN FINISHED AREAS ARE TO BE CONCEALED WITHIN THE CONSTRUCTION UNLESS OTHERWISE NOTED.
10. THE GENERAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER DISCIPLINES TO DETERMINE THE SIZE AND LOCATION OF PENETRATIONS. SEAL CONSTRUCTION TIGHT TO ALL PENETRATIONS AND CAULK. ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION MUST BE FIRE SAFED IN ACCORDANCE WITH THE SPECIFICATIONS.
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13. FURNISH AND INSTALL SEALANT AT ALL FIXTURES AND CHANGES IN MATERIAL, AND AS REQUIRED BY THE APPLICABLE HEALTH DEPARTMENT.
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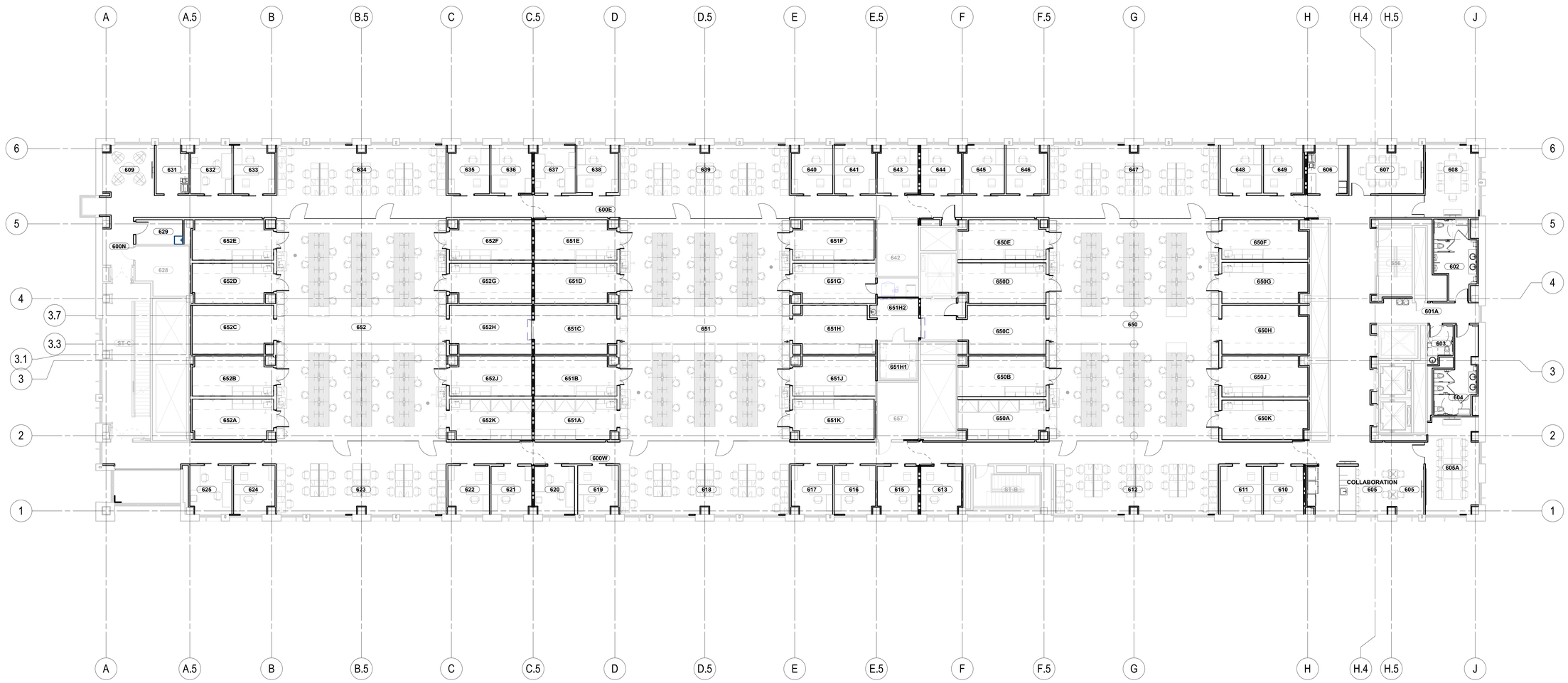
16. ALL MECHANICAL EQUIPMENT PADS TO BE 4" HIGH MINIMUM UNLESS NOTED OTHERWISE.
17. CHARACTER HEIGHT AND PROPORTION, FINISH AND CONTRAST, FRONT, BRAILLE, AND PICTOGRAM TYPES AS INDICATED IN THESE DOCUMENTS. ROOM IDENTIFICATION SIGNAGE SHALL BE MOUNTED AT 60" ABOVE THE FINISHED FLOOR TO THE SIGN CENTERLINE, AND SHALL BE MOUNTED TO THE WALL AT THE LATCH SIDE OF THE DOOR.



1 AI-236 **FLOOR PLAN - LEVEL 06 FIT OUT - OVERALL**
3/32" = 1'-0"

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Checked By: Checker
Client Number: 514
Project Number: P4-5350

MICHAEL J. BATTOCLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY PROFESSIONAL ARCHITECT

DRAWING TITLE

FLOOR PLAN - LEVEL SIX - OVERALL

SHEET NO.

AI-236

1/11/2021 4:46:16 PM

GENERAL NOTES - FIT-OUT PLANS

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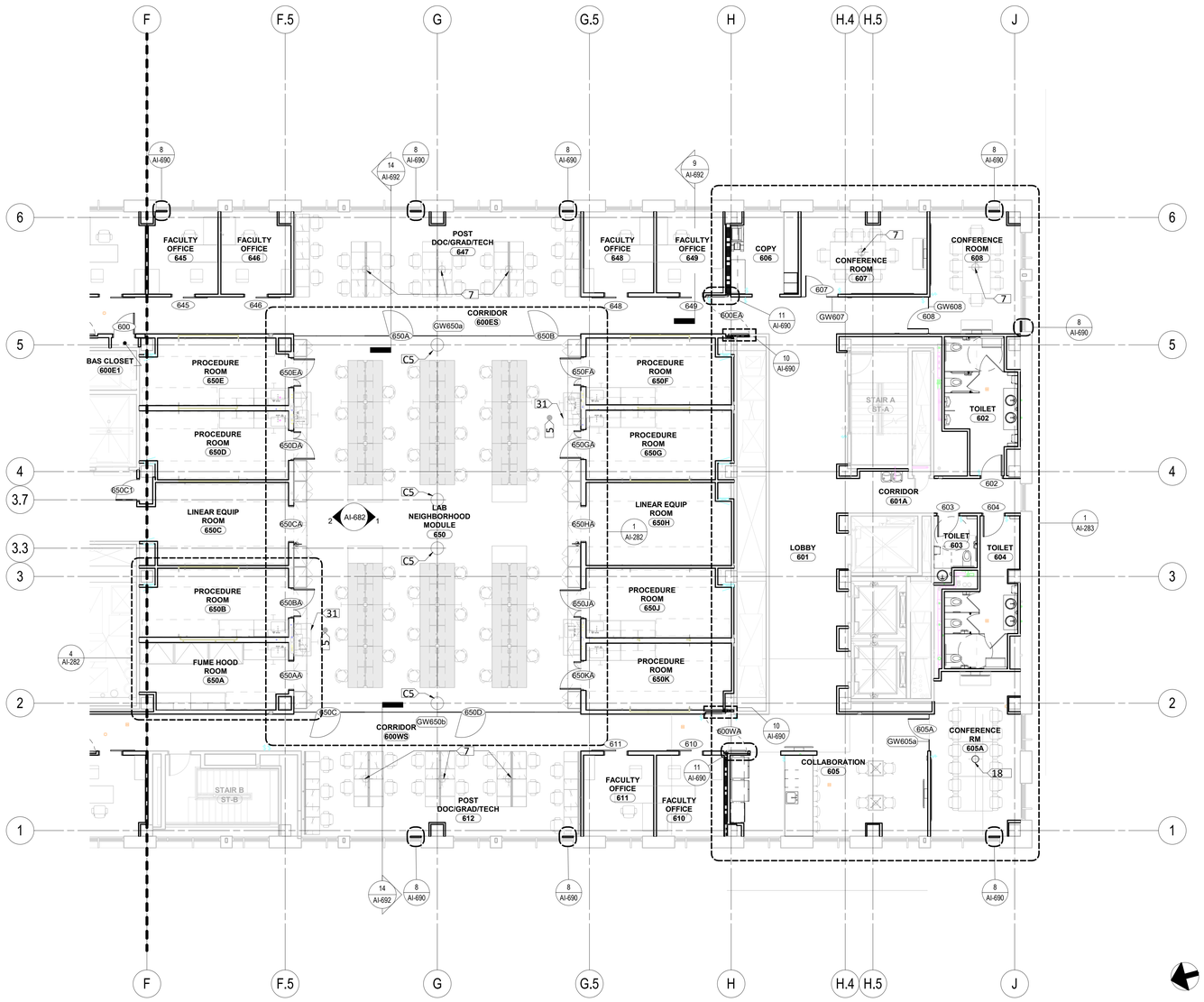

1 AI-236A FLOOR PLAN - LEVEL 06 FIT OUT - AREA 'A'
1/8" = 1'-0"

KEYNOTES - FIT OUT PH 4

5	FLOOR DRAIN WITH SAFETY SHOWER AT CEILING ABOVE
7	EXISTING POKE-THROUGH FLOOR BOX
8	GLASS GUARDRAIL TO MATCH PHASE 1 & 2 INSTALLATION
11	WAVE ACTIVATED DOOR ACTUATOR
13	INSTALL OWNER PROVIDED S.S. SHELVING; INSTALL BLOCKING AS REQUIRED.
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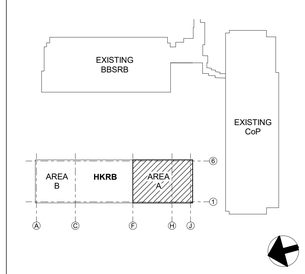

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MICHAEL J. BATTCHELLE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE

FLOOR PLAN - LEVEL SIX - AREA A

SHEET NO.
AI-236A

1/11/2021 4:46:32 PM

GENERAL NOTES - FIT-OUT PLANS

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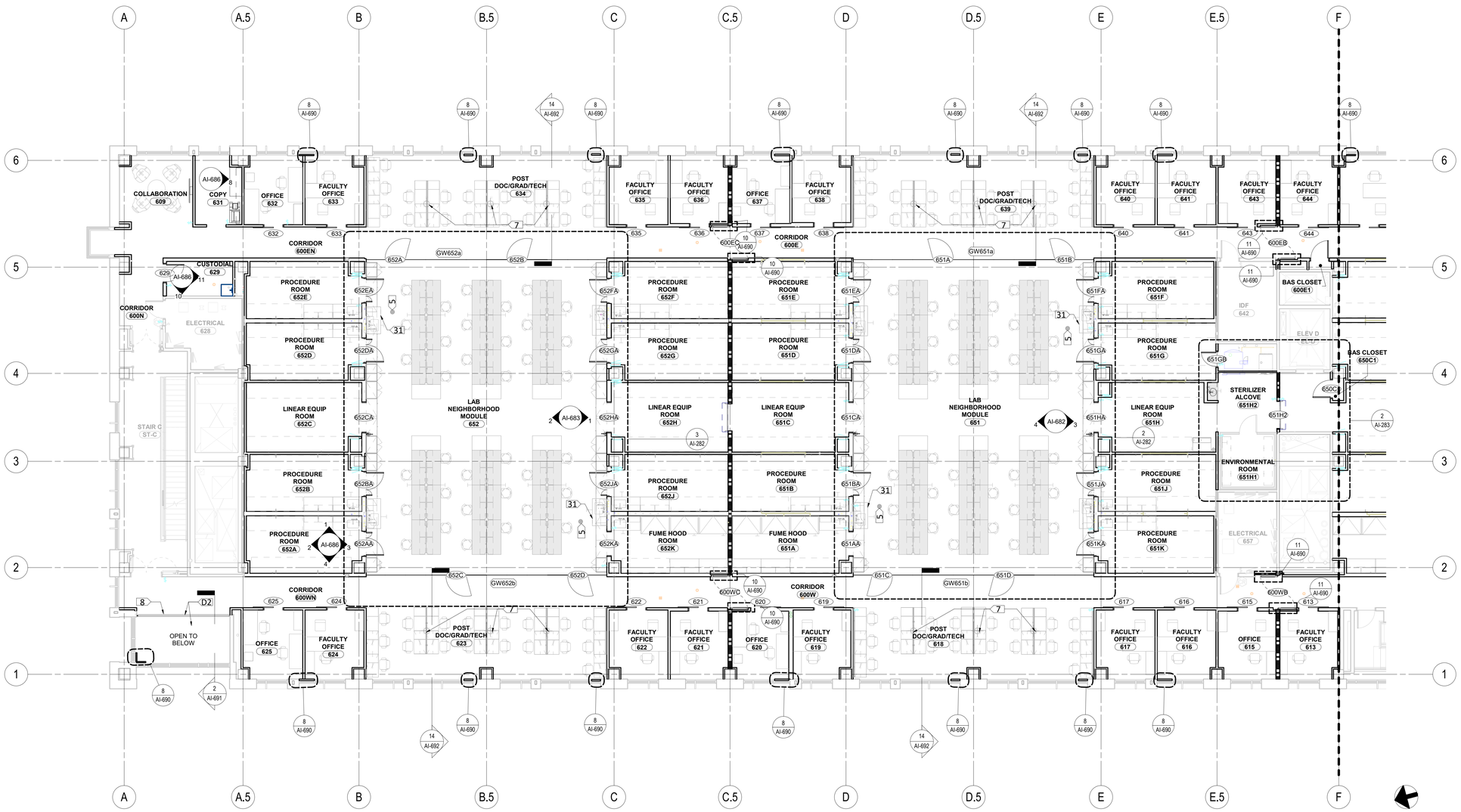

1 AI-236B **FLOOR PLAN - LEVEL 06 FIT OUT - AREA 'B'**
1/8" = 1'-0"

KEYNOTES - FIT OUT PH 4

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7	EXISTING POKE-THROUGH FLOOR BOX
8	GLASS GUARDRAIL TO MATCH PHASE 1 & 2 INSTALLATION
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C5	EXPOSED CONCRETE COLUMN - PLASTER FINISH
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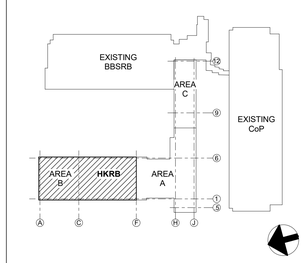

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Client Number	514
Project Number	P4-5350

MICHAEL J. BATTCHELLE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY PROFESSIONAL ARCHITECT

DRAWING TITLE

FLOOR PLAN - LEVEL SIX - AREA B

SHEET NO.

AI-236B

1/11/2021 4:47:09 PM

ACCESSORIES LEGEND PHASE 4

BCS	BABY CHANGING STATION
CG	CORNER GUARD; REFER TO AI-697
CR	CARD READER
DF-1	ACCESSIBLE DRINKING FOUNTAIN
FBS	FRP BACKSPLASH
FEC-1	RECESSED FIRE EXTINGUISHER CABINET
FEC-2	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
FEC-3	BRACKET MOUNTED FIRE EXTINGUISHER
GB-1	REAR WALL GRAB BAR
GB-2	SIDE WALL GRAB BAR
GB-3	VERTICAL GRAB BAR
JG	JAMB GUARD; REFER TO AI-697
LAV	LAVATORY
MR-1	2'-0" x 3'-0" MIRROR
MR-2	5'-0" x 4'-0" MIRROR
MR-3	7'-6" x 4'-0" MIRROR
MR-4	9'-0" x 4'-0" MIRROR
MR-5	6'-0" x 4'-0" MIRROR
MS	MOP SINK AND MOP RACK
ND-1	RECESSED SANITARY NAPKIN DISPOSAL
ND-2	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL
PD	PAPER TOWEL DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED)
PS	PROJECTOR SCREEN
RR	RECYCLING RECEPTACLE, OWNER PROVIDED
RS	DIGITAL ROOM SCHEDULING SCREEN
SD	SURFACE MOUNTED SOAP DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED) W/ CUTOUT IN MIRROR. REFER TO AG-021 FOR CUTOUT DIMENSIONS.
SG	STORAGE ADJUSTABLE SHELVING
SH	SHELF
SR-3	60" x 36" SHOWER
TD	TOILET PAPER DISPENSER
TP	TOILET PARTITION
TV	WALL MOUNTED FLAT SCREEN MONITOR
UP	URINAL PARTITION
UR-1	URINAL
UR-2	ACCESSIBLE URINAL
WB	WHITE BOARD
WC-1	WATER CLOSET
WC-2	ACCESSIBLE WATER CLOSET
WG	WALL PROTECTION SYSTEM
WR	WASTE RECEPTACLE

GENERAL NOTES - PARTITION PLANS

A. UNFORESEEN OR UNCLEAR CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
B. ANY CONFLICTS WITHIN THE DRAWINGS, BETWEEN DRAWINGS AND SPECIFICATIONS, OR BETWEEN DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL WRITTEN CLARIFICATION FROM THE ARCHITECT IS RECEIVED.
C. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL GOVERN. ALL PLAN DIMENSIONS ARE TAKEN TO FINISH FACE OF CONSTRUCTION.
D. SEE AG-013A FOR INTERIOR PARTITION TYPES. USE IMPACT RESISTANT GYPSUM BOARD FOR ALL GYPSUM BOARD WALL ASSEMBLIES IN VIVARIUM AND CAGE WASH AREAS.
E. LAYOUT AND VERIFY ALL PARTITION LOCATIONS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS OR CLEARANCES.
F. WHERE FINISH IS CONTINUOUS AT PARTITION TYPE TRANSITIONS, ENSURE THAT FINISH SURFACE IS FLUSH AND SEAMLESS.
G. THE GENERAL CONTRACTOR IS TO PROVIDE BLOCKING IN ALL METAL STUD PARTITIONS FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES. THE LOCATIONS, MOUNTING HEIGHTS AND BLOCKING REQUIREMENTS SHOWN HEREON ARE GIVEN FOR INFORMATIONAL PURPOSES ONLY AND IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THIS INFORMATION WITH SUB-CONTRACTORS, MANUFACTURERS, OR EQUIPMENT SUPPLIERS. SEE TYPICAL BLOCKING DETAILS IN METAL STUD WALLS INCLUDED IN THESE DOCUMENTS FOR BLOCKING AND ANCHORING REQUIREMENTS.
H. ALL CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED.
I. MECHANICAL, ELECTRICAL, AND PLUMBING ELEMENTS IN FINISHED AREAS ARE TO BE CONCEALED WITHIN THE CONSTRUCTION UNLESS OTHERWISE NOTED.
J. THE GENERAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER DISCIPLINES TO DETERMINE THE SIZE AND LOCATION OF PENETRATIONS. SEAL CONSTRUCTION TIGHT TO ALL PENETRATIONS AND CAULK. ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION MUST BE FIRE SAFED IN ACCORDANCE WITH THE SPECIFICATIONS.
K. PATCH ALL HOLES IN EXISTING SURFACES WHERE ELEMENTS HAVE BEEN REMOVED. PREPARE SURFACES FOR NEW FINISHES AS REQUIRED OR PATCH TO MATCH ADJACENT SURFACE IF NO NEW FINISH IS SCHEDULED.
L. PROVIDE CONTROL JOINTS IN GYPSUM WALLBOARD INTERIOR PARTITIONS AT 30 FEET ON CENTER MAXIMUM. WHERE POSSIBLE, LOCATE AT CORNERS ABOVE OPENINGS. VERIFY LOCATIONS WITH ARCHITECT. SEE THE ASSOCIATED TYPICAL DETAILS INCLUDED IN THESE DOCUMENTS.
M. FURNISH AND INSTALL SEALANT AT ALL FIXTURES AND CHANGES IN MATERIAL, AND AS REQUIRED BY THE APPLICABLE HEALTH DEPARTMENT.
N. DOOR OPENINGS NOT LOCATED BY DIMENSIONS SHALL BE 4" FROM FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME.
O. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL EQUIPMENT INSTALLATION AND VERIFYING ALL REQUIRED ROUGH OPENINGS, AND ROUGH-IN DIMENSIONS WITH THE EQUIPMENT MANUFACTURER, OWNER AND ARCHITECT PRIOR TO CONSTRUCTION.
P. ALL LOWER LEVEL DOORS TO RECEIVE JAMB GUARDS AS DETAILED.

KEYNOTES PARTITION PLANS - PH4

1	ALL EXTERIOR WALLS TO RECIEVE 5/8" TYPE X GYP BOARD FULL HEIGHT
2	ALIGN WALLS
3	PARTITION TYPE A6 CONTINUES ABOVE ALL-GLASS WALL; REFER TO DETAILS
4	MODIFY EXISTING 2HR SHAFT WALL TO ACCOMMODATE DOOR POCKET; REFER TO DETAILS
5	GLASS GUARDRAIL; REFER TO DETAIL
6	INSTALL NEW DOOR HARDWARE INCLUDING CARD READER
7	LEVEL EXISTING CONCRETE FLOOR AT GLASS WALL WITH LEVELING COMPOUND AS SPECIFIED.
9	5/8" TYPE X GYPBOARD WITH 4" ACOUSTIC BATTS, CONTINUE TO U/S OF STRUCTURE
10	INSTALL FRT WOOD BLOCKING AT ALL WALLS WITH SHELVING AND CASEWORK.
11	REQUEST TO EXIT BUTTON (RTE)
12	THERMOSTAT TO BE INSTALLED ON LATCH SIDE OF DOOR.
14	5/8" TYPE X GYPBOARD WITH 8" ACOUSTIC BATTS, CONTINUE TO U/S OF STRUCTURE; ALIGN GYPBOARD WITH AIR FLOOR GRILLE; REFER TO DETAILS
18	TWO ROWS OF 4' HIGH 3/4" FRT PLYWOOD SHEATHING ANCHORED TO EXISTING GYP. PARTITION
20	INSTALL 6" SOUND BATTS AND 5/8" TYPE X GYPSUM BD. TO U/S OF STRUCTURE ON PROJECT SIDE TO COMPLETE A6a PARTITION TYPE
21	5/8" GYPSUM BD. PROJECT SIDE OF PARTITION FULL HEIGHT OF PARTITION
22	ALIGN PARTITION TO CONCEAL EXISTING PLUMBING PIPING WITHIN CAVITY
23	REMOVE EXISTING VISIBLE PLUMBING PIPING AND CAP AT FLOOR LINE
24	REMOVE FLOOR DRAIN ASSEMBLY AND CAP; CONVERT VENT PIPING TO SANITARY WASTE
25	NEW CMU PARTITION INFILL TO MATCH ADJACENT CONSTRUCTION
26	FIELD BUILT PLATFORM TO ELEVATE MOP BASIN FOR CONNECTION TO EXISTING DRAIN PIPING. COORDINATE WITH PLUMBING DRAWINGS AND PROVIDE WASHABLE FINISH TO EXPOSED FRAMING
27	INSTALL 6" SOUND BATTS IN EXISTING PARTITION; ADD B3 PARTITION WITH 5/8" GYPSUM SOUND BOARD
28	WALLS TO RECEIVE 5/8" RESILIENT CHANNELS @16"O.C. WITH ADDITIONAL LAYER OF 5/8" GYPSUM SOUNDBOARD
30	EXISTING FLOOR DRAIN TO REMAIN
31	INSTALL FRAMING AND FINISH TIGHT TO EXISTING VENT STACK. REFER TO PLUMBING DRAWINGS
33	TOUCHLESS WAVE-TO-OPEN DEVICE
D1	REMOVE EXISTING CONSTRUCTION AS REQUIRED FOR NEW
D2	REMOVE PORTION OF WALL FOR NEW DOOR
D3	REMOVE DOOR AND FRAME FOR NEW
D4	REMOVE DOOR; EXISTING FRAME TO REMAIN

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JACOBS Consultancy

AEI Affiliated Engineers

CMTA

HEALTHY KENTUCKY RESEARCH BUILDING

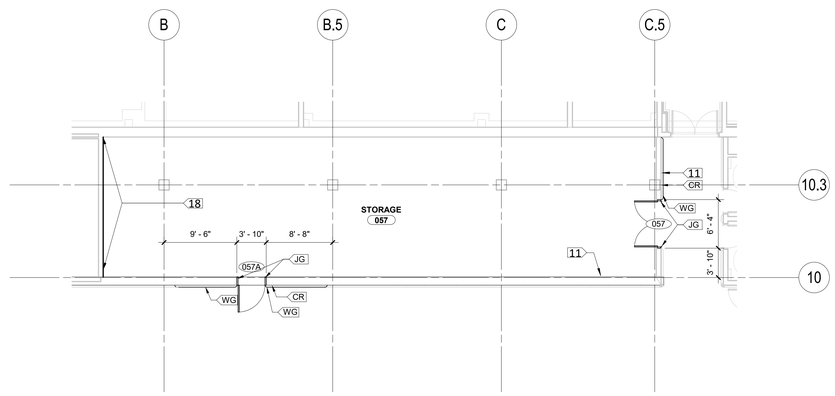
UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

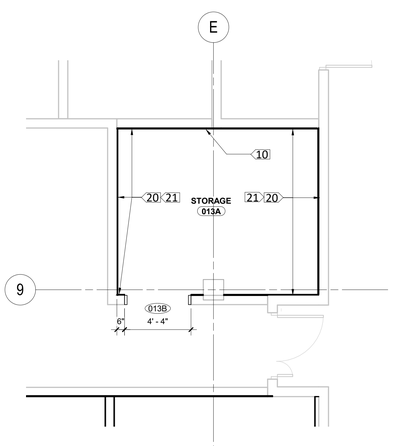
UK Project Number 2552.0

ISSUANCES

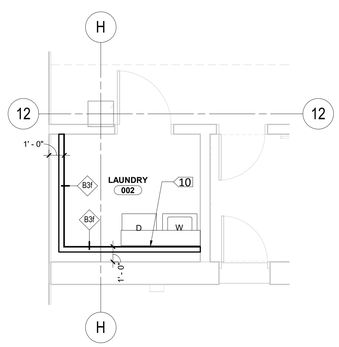
No.	Description	Date
1	P4 - SD REVIEW	09/18/20
2	P4 - DD REVIEW	10/23/20
3	P4 - CD REVIEW	12/04/20
4	P4 - BID & PERMIT	01/08/21



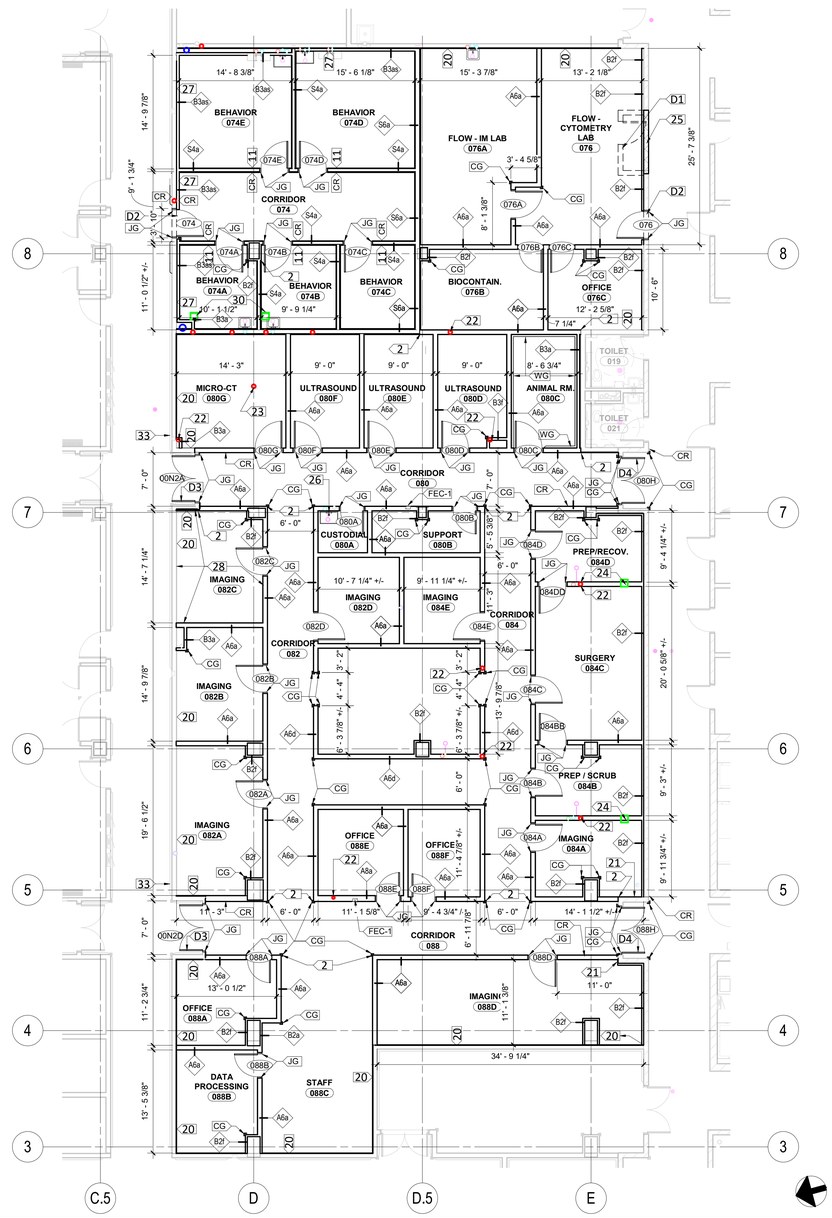
4 AI-240 **LEVEL 00 FIT OUT - STORAGE 057 PARTITION PLAN**
1/8" = 1'-0"



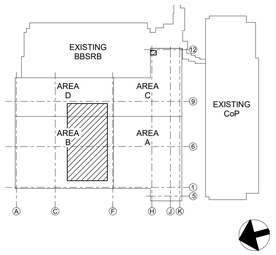
3 AI-240 **LEVEL 00 FIT OUT - STORAGE 013A PARTITION PLAN**
1/4" = 1'-0"



2 AI-240 **LEVEL 00 FIT OUT - LAUNDRY PARTITION PLAN**
1/4" = 1'-0"



1 AI-240 **PARTITION PLAN - LEVEL 00 - PARTIAL AREA 'B'**
1/8" = 1'-0"



KEY PLAN
NTS

Drawn By
Author
Checked By
Checker
Client Number 514
Project Number P4-5350

MICHAEL J. BATTCHELLE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE
PARTITION PLAN - LOWER LEVEL - IMAGING SUITE

SHEET NO.
AI-240

1/11/2021 4:47:51 PM

ACCESSORIES LEGEND PHASE 4

BCS	BABY CHANGING STATION
CG	CORNER GUARD; REFER TO AI-697
CR	CARD READER
DF-1	ACCESSIBLE DRINKING FOUNTAIN
FBS	FRP BACKSPLASH
FEC-1	RECESSED FIRE EXTINGUISHER CABINET
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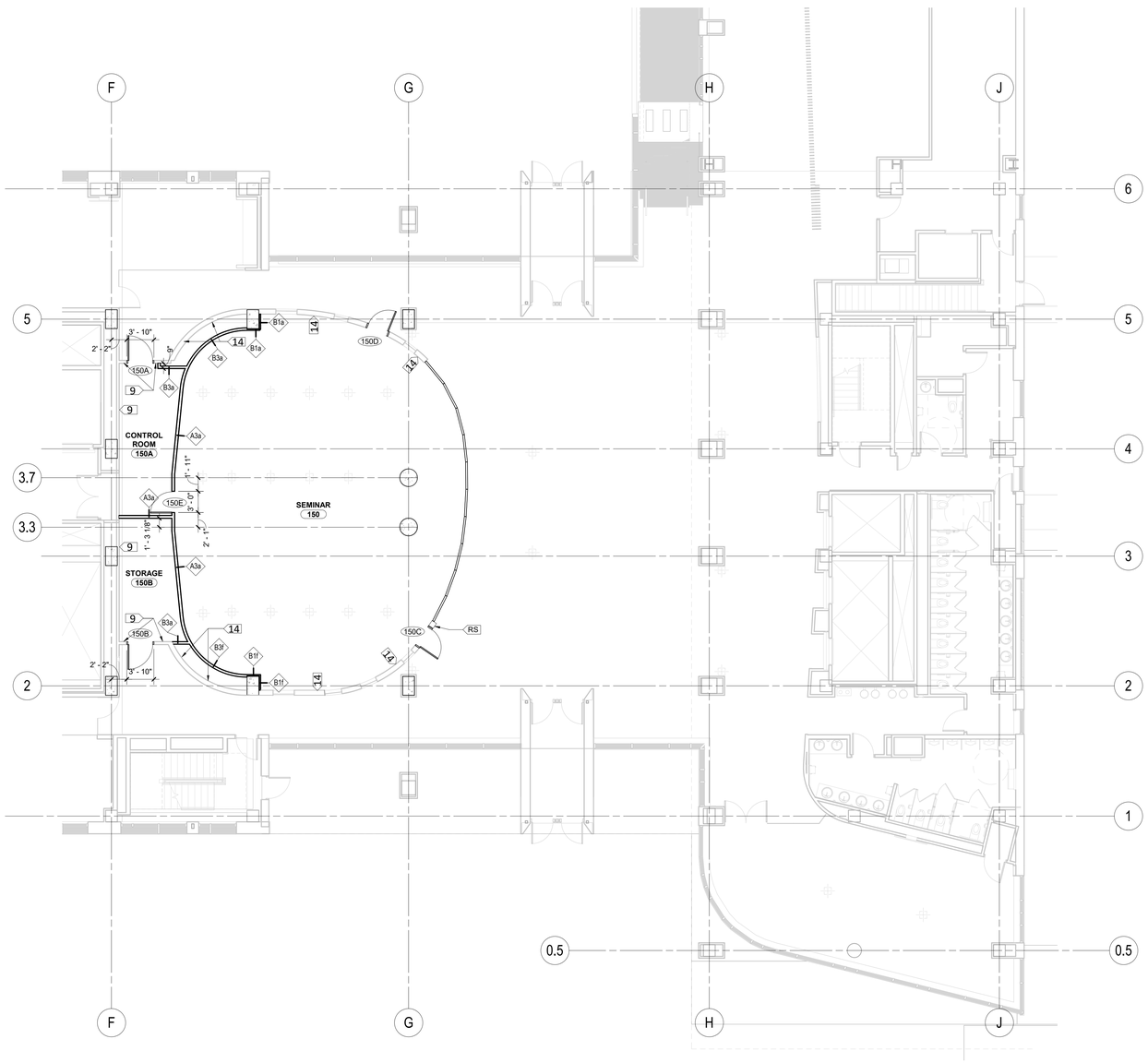

1 PARTITION PLAN LEVEL 01 - AREA 'A' SEMINAR ROOM FIT-OUT
AI-241 1/8" = 1'-0"

KEYNOTES PARTITION PLANS - PH4

1	ALL EXTERIOR WALLS TO RECIEVE 5/8" TYPE X GYP BOARD FULL HEIGHT
2	ALIGN WALLS
3	PARTITION TYPE A6 CONTINUES ABOVE ALL-GLASS WALL; REFER TO DETAILS
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20	INSTALL 6" SOUND BATTS AND 5/8" TYPE X GYPSUM BD. TO U/S OF STRUCTURE ON PROJECT SIDE TO COMPLETE A6a PARTITION TYPE
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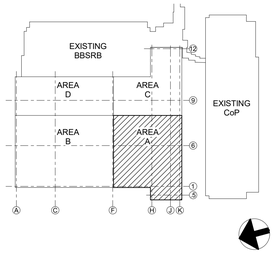
D1	REMOVE EXISTING CONSTRUCTION AS REQUIRED FOR NEW
D2	REMOVE PORTION OF WALL FOR NEW DOOR
D3	REMOVE DOOR AND FRAME FOR NEW
D4	REMOVE DOOR; EXISTING FRAME TO REMAIN



KEY PLAN
NTS

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UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: P4-5350

MICHAEL J. BATTOCLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY PROFESSIONAL ARCHITECT

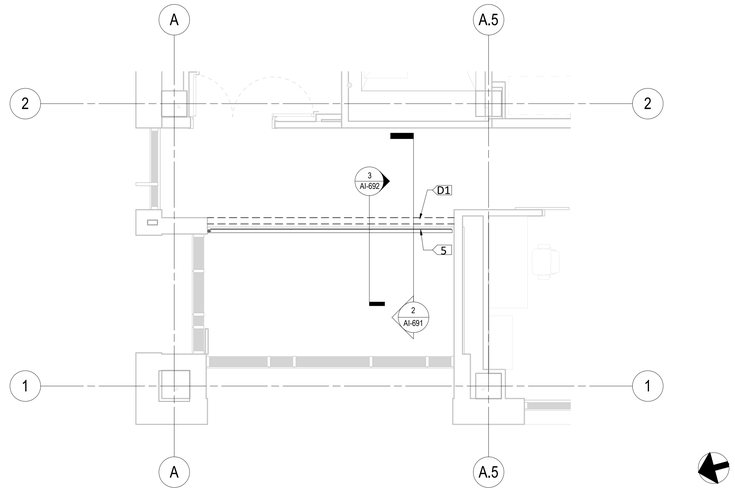
DRAWING TITLE

PARTITION PLAN - LEVEL ONE - AREA A

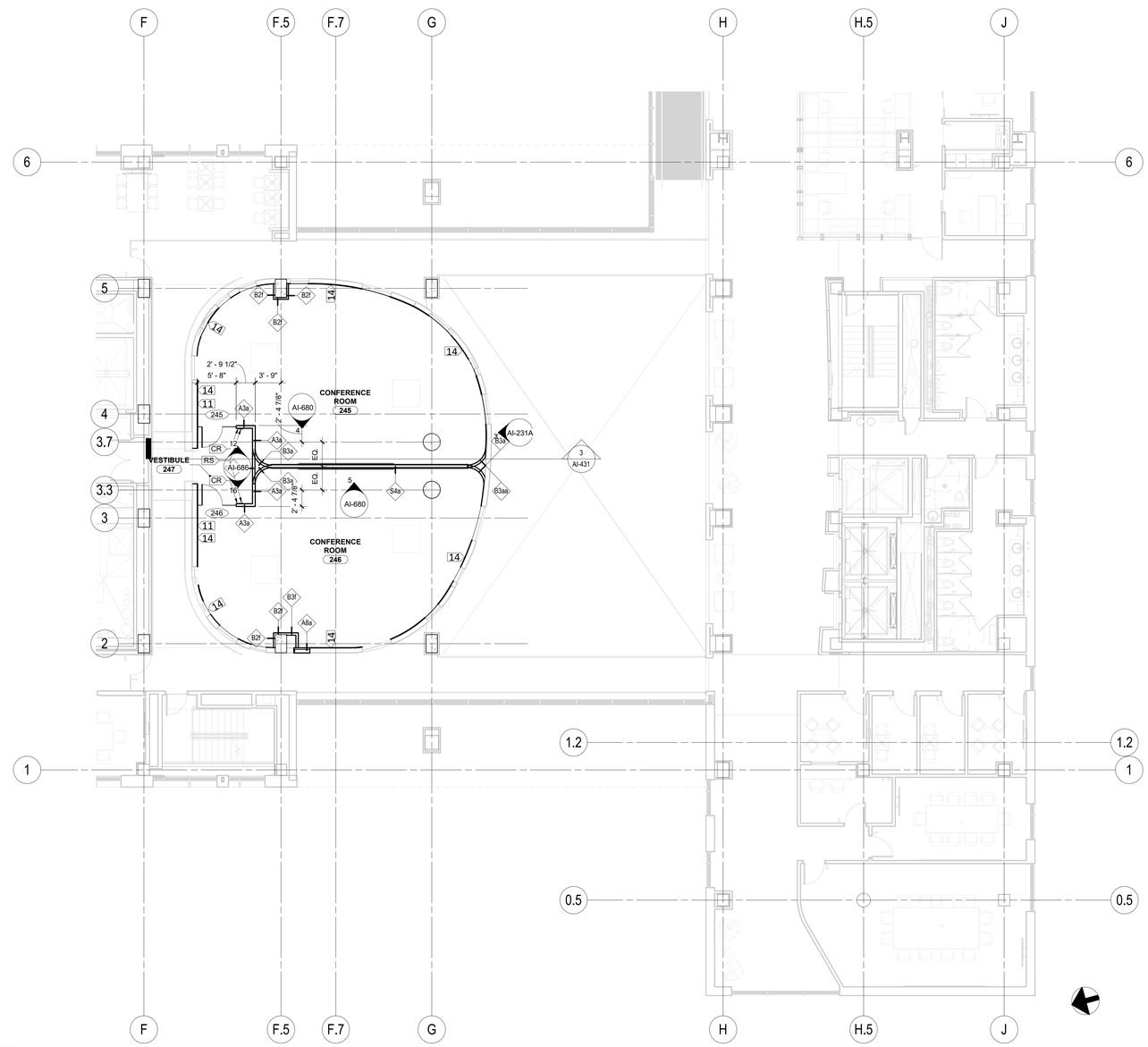
SHEET NO.

AI-241

1/11/2021 4:48:23 PM



2 AI-242 **PARTITION FLOOR PLAN - LEVEL 04 PARTIAL AREA 'B'**
1/4" = 1'-0"



1 AI-242 **PARTITION PLAN LEVEL 02 - AREA 'A'**
1/8" = 1'-0"

ACCESSORIES LEGEND PHASE 4

BCS	BABY CHANGING STATION
CG	CORNER GUARD; REFER TO AI-697
CR	CARD READER
DF-1	ACCESSIBLE DRINKING FOUNTAIN
FBS	FRP BACKSPLASH
FEC-1	RECESSED FIRE EXTINGUISHER CABINET
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E. LAYOUT AND VERIFY ALL PARTITION LOCATIONS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS OR CLEARANCES.
F. WHERE FINISH IS CONTINUOUS AT PARTITION TYPE TRANSITIONS, ENSURE THAT FINISH SURFACE IS FLUSH AND SEAMLESS.
G. THE GENERAL CONTRACTOR IS TO PROVIDE BLOCKING IN ALL METAL STUD PARTITIONS FOR ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES. THE LOCATIONS, MOUNTING HEIGHTS AND BLOCKING REQUIREMENTS SHOWN HEREON ARE GIVEN FOR INFORMATIONAL PURPOSES ONLY AND IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THIS INFORMATION WITH SUB-CONTRACTORS, MANUFACTURERS, OR EQUIPMENT SUPPLIERS. SEE TYPICAL BLOCKING DETAILS IN METAL STUD WALLS INCLUDED IN THESE DOCUMENTS FOR BLOCKING AND ANCHORING REQUIREMENTS.
H. ALL CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED.
I. MECHANICAL, ELECTRICAL, AND PLUMBING ELEMENTS IN FINISHED AREAS ARE TO BE CONCEALED WITHIN THE CONSTRUCTION UNLESS OTHERWISE NOTED.
J. THE GENERAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER DISCIPLINES TO DETERMINE THE SIZE AND LOCATION OF PENETRATIONS. SEAL CONSTRUCTION TIGHT TO ALL PENETRATIONS AND CAULK. ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION MUST BE FIRE SAFED IN ACCORDANCE WITH THE SPECIFICATIONS.
K. PATCH ALL HOLES IN EXISTING SURFACES WHERE ELEMENTS HAVE BEEN REMOVED. PREPARE SURFACES FOR NEW FINISHES AS REQUIRED OR PATCH TO MATCH ADJACENT SURFACE IF NO NEW FINISH IS SCHEDULED.
L. PROVIDE CONTROL JOINTS IN GYPSUM WALLBOARD INTERIOR PARTITIONS AT 30 FEET ON CENTER MAXIMUM. WHERE POSSIBLE, LOCATE AT CORNERS ABOVE OPENINGS. VERIFY LOCATIONS WITH ARCHITECT. SEE THE ASSOCIATED TYPICAL DETAILS INCLUDED IN THESE DOCUMENTS.
M. FURNISH AND INSTALL SEALANT AT ALL FIXTURES AND CHANGES IN MATERIAL, AND AS REQUIRED BY THE APPLICABLE HEALTH DEPARTMENT.
N. DOOR OPENINGS NOT LOCATED BY DIMENSIONS SHALL BE 4" FROM FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME.
O. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL EQUIPMENT INSTALLATION AND VERIFYING ALL REQUIRED ROUGH OPENINGS, AND ROUGH-IN DIMENSIONS WITH THE EQUIPMENT MANUFACTURER, OWNER AND ARCHITECT PRIOR TO CONSTRUCTION.
P. ALL LOWER LEVEL DOORS TO RECEIVE JAMB GUARDS AS DETAILED.

KEYNOTES PARTITION PLANS - PH4

1	ALL EXTERIOR WALLS TO RECIEVE 5/8" TYPE X GYP BOARD FULL HEIGHT
2	ALIGN WALLS
3	PARTITION TYPE A6 CONTINUES ABOVE ALL-GLASS WALL; REFER TO DETAILS
4	MODIFY EXISTING 2HR SHAFT WALL TO ACCOMMODATE DOOR POCKET; REFER TO DETAILS
5	GLASS GUARDRAIL; REFER TO DETAIL
6	INSTALL NEW DOOR HARDWARE INCLUDING CARD READER
7	LEVEL EXISTING CONCRETE FLOOR AT GLASS WALL WITH LEVELING COMPOUND AS SPECIFIED.
9	5/8" TYPE X GYPBOARD WITH 4" ACOUSTIC BATTS, CONTINUE TO U/S OF STRUCTURE
10	INSTALL FRT WOOD BLOCKING AT ALL WALLS WITH SHELVING AND CASEWORK.
11	REQUEST TO EXIT BUTTON (RTE)
12	THERMOSTAT TO BE INSTALLED ON LATCH SIDE OF DOOR.
14	5/8" TYPE X GYPBOARD WITH 8" ACOUSTIC BATTS, CONTINUE TO U/S OF STRUCTURE; ALIGN GYPBOARD WITH AIR FLOOR GRILLE; REFER TO DETAILS
18	TWO ROWS OF 4' HIGH 3/4" FRT PLYWOOD SHEATHING ANCHORED TO EXISTING GYP. PARTITION
20	INSTALL 6" SOUND BATTS AND 5/8" TYPE X GYPSUM BD. TO U/S OF STRUCTURE ON PROJECT SIDE TO COMPLETE A6a PARTITION TYPE
21	5/8" GYPSUM BD. PROJECT SIDE OF PARTITION FULL HEIGHT OF PARTITION
22	ALIGN PARTITION TO CONCEAL EXISTING PLUMBING PIPING WITHIN CAVITY
23	REMOVE EXISTING VISIBLE PLUMBING PIPING AND CAP AT FLOOR LINE
24	REMOVE FLOOR DRAIN ASSEMBLY AND CAP; CONVERT VENT PIPING TO SANITARY WASTE
25	NEW CMU PARTITION INFILL TO MATCH ADJACENT CONSTRUCTION
26	FIELD BUILT PLATFORM TO ELEVATE MOP BASIN FOR CONNECTION TO EXISTING DRAIN PIPING. COORDINATE WITH PLUMBING DRAWINGS AND PROVIDE WASHABLE FINISH TO EXPOSED FRAMING
27	INSTALL 6" SOUND BATTS IN EXISTING PARTITION; ADD B3 PARTITION WITH 5/8" GYPSUM SOUND BOARD
28	WALLS TO RECEIVE 5/8" RESILIENT CHANNELS @16"O.C. WITH ADDITIONAL LAYER OF 5/8" GYPSUM SOUNDBOARD
30	EXISTING FLOOR DRAIN TO REMAIN
31	INSTALL FRAMING AND FINISH TIGHT TO EXISTING VENT STACK. REFER TO PLUMBING DRAWINGS
33	TOUCHLESS WAVE-TO-OPEN DEVICE
D1	REMOVE EXISTING CONSTRUCTION AS REQUIRED FOR NEW
D2	REMOVE PORTION OF WALL FOR NEW DOOR
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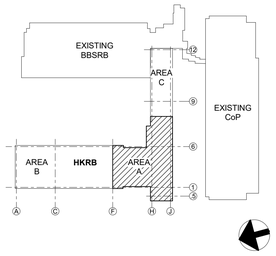
D4	REMOVE DOOR; EXISTING FRAME TO REMAIN



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UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTCOTTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE
PARTITION PLAN - LEVEL TWO - AREA A AND PARTIAL LEVEL FOUR

SHEET NO.
AI-242

1/11/2021 4:48:58 PM

ACCESSORIES LEGEND PHASE 4

BCS	BABY CHANGING STATION
CG	CORNER GUARD; REFER TO AI-697
CR	CARD READER
DF-1	ACCESSIBLE DRINKING FOUNTAIN
FBS	FRP BACKSPLASH
FEC-1	RECESSED FIRE EXTINGUISHER CABINET
FEC-2	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
FEC-3	BRACKET MOUNTED FIRE EXTINGUISHER
GB-1	REAR WALL GRAB BAR
GB-2	SIDE WALL GRAB BAR
GB-3	VERTICAL GRAB BAR
JG	JAMB GUARD; REFER TO AI-697
LAV	LAVATORY
MR-1	2'-0" x 3'-0" MIRROR
MR-2	5'-0" x 4'-0" MIRROR
MR-3	7'-6" x 4'-0" MIRROR
MR-4	9'-0" x 4'-0" MIRROR
MR-5	6'-0" x 4'-0" MIRROR
MS	MOP SINK AND MOP RACK
ND-1	RECESSED SANITARY NAPKIN DISPOSAL
ND-2	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL
PD	PAPER TOWEL DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED)
PS	PROJECTOR SCREEN
RR	RECYCLING RECEPTACLE, OWNER PROVIDED
RS	DIGITAL ROOM SCHEDULING SCREEN
SD	SURFACE MOUNTED SOAP DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED) W/ CUTOUT IN MIRROR. REFER TO AG-021 FOR CUTOUT DIMENSIONS.
SG	STORAGE ADJUSTABLE SHELVING
SH	SHELF
SR-3	60" x 36" SHOWER
TD	TOILET PAPER DISPENSER
TP	TOILET PARTITION
TV	WALL MOUNTED FLAT SCREEN MONITOR
UP	URINAL PARTITION
UR-1	URINAL
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WC-2	ACCESSIBLE WATER CLOSET
WG	WALL PROTECTION SYSTEM
WR	WASTE RECEPTACLE

GENERAL NOTES - PARTITION PLANS

A. UNFORESEEN OR UNCLEAR CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.

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D. SEE AG-013A FOR INTERIOR PARTITION TYPES. USE IMPACT RESISTANT GYPSUM BOARD FOR ALL GYPSUM BOARD WALL ASSEMBLIES IN VIVARIUM AND CAGE WASH AREAS.

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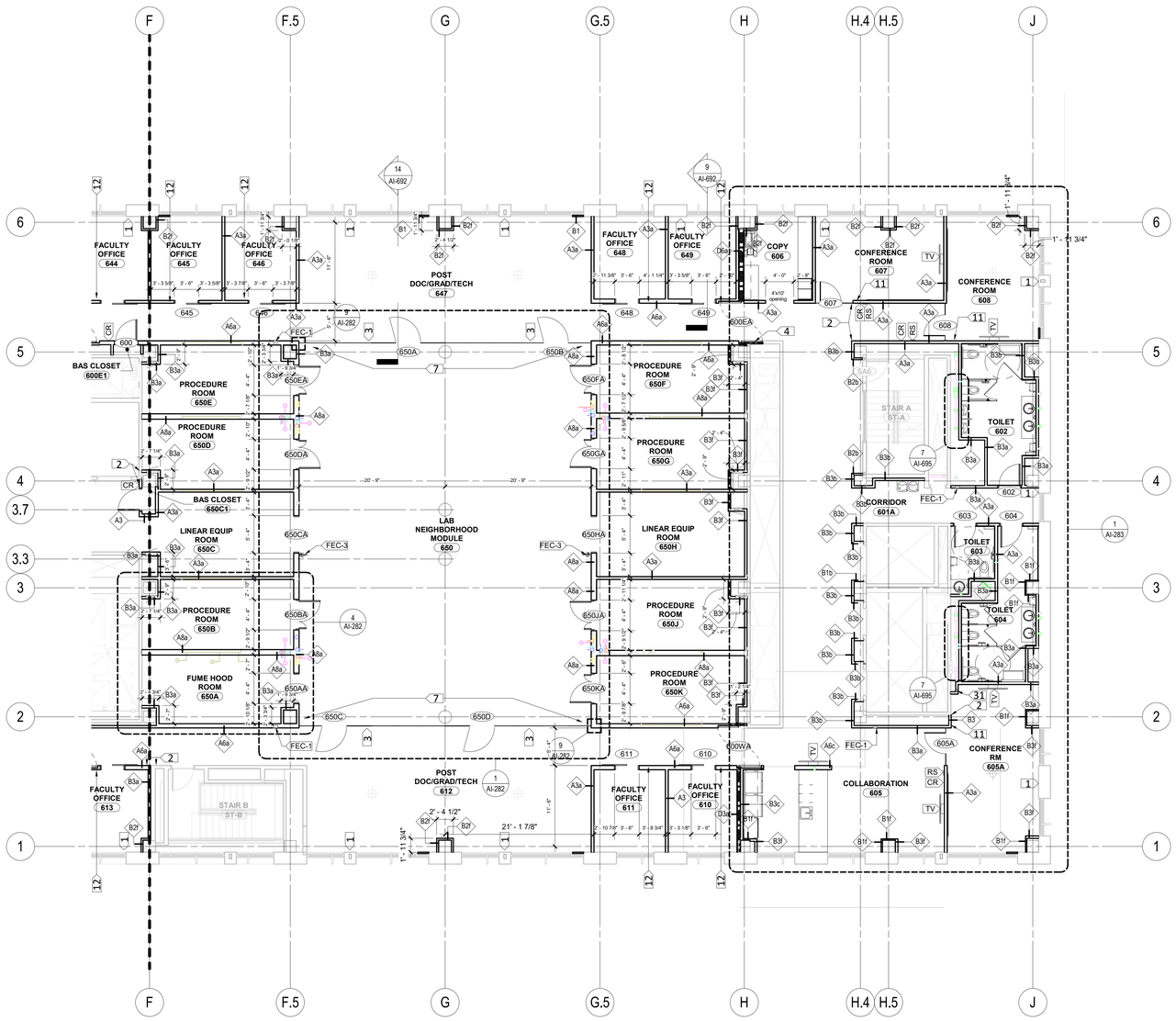

KEYNOTES PARTITION PLANS - PH4

1	ALL EXTERIOR WALLS TO RECIEVE 5/8" TYPE X GYP BOARD FULL HEIGHT
2	ALIGN WALLS
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11	REQUEST TO EXIT BUTTON (RTE)
12	THERMOSTAT TO BE INSTALLED ON LATCH SIDE OF DOOR.
14	5/8" TYPE X GYPBOARD WITH 8" ACOUSTIC BATTS, CONTINUE TO U/S OF STRUCTURE; ALIGN GYPBOARD WITH AIR FLOOR GRILLE; REFER TO DETAILS
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20	INSTALL 6" SOUND BATTS AND 5/8" TYPE X GYPSUM BD. TO U/S OF STRUCTURE ON PROJECT SIDE TO COMPLETE A6a PARTITION TYPE
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22	ALIGN PARTITION TO CONCEAL EXISTING PLUMBING PIPING WITHIN CAVITY
23	REMOVE EXISTING VISIBLE PLUMBING PIPING AND CAP AT FLOOR LINE
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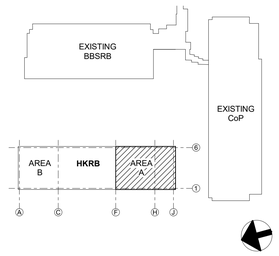

KEY PLAN
NTS

Drawn By
Author
Checked By
Checker
Client Number 514
Project Number P4-5350

MICHAEL J. BATTCOTTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE

PARTITION PLAN - LEVEL SIX - AREA A

SHEET NO.
AI-246A

1/11/2021 4:49:32 PM

1 | AI-246A
PARTITION PLAN - LEVEL 06 - AREA 'A'
1/8" = 1'-0"

ACCESSORIES LEGEND PHASE 4

BCS	BABY CHANGING STATION
CG	CORNER GUARD; REFER TO AI-697
CR	CARD READER
DF-1	ACCESSIBLE DRINKING FOUNTAIN
FBS	FRP BACKSPLASH
FEC-1	RECESSED FIRE EXTINGUISHER CABINET
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ND-2	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL
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PS	PROJECTOR SCREEN
RR	RECYCLING RECEPTACLE, OWNER PROVIDED
RS	DIGITAL ROOM SCHEDULING SCREEN
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SG	STORAGE ADJUSTABLE SHELVING
SH	SHELF
SR-3	60" x 36" SHOWER
TD	TOILET PAPER DISPENSER
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UR-1	URINAL
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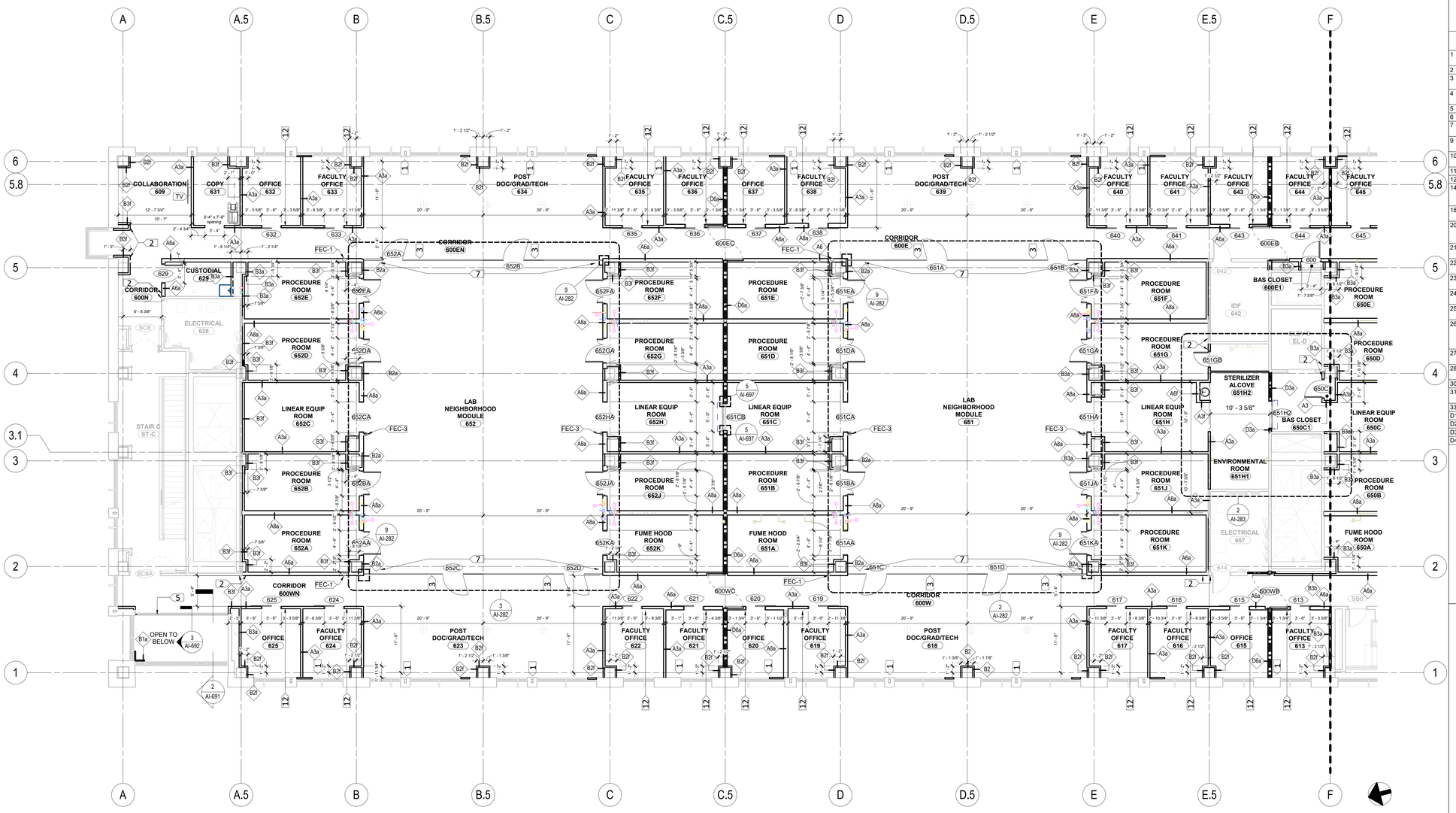

1 PARTITION PLAN - LEVEL 06 - AREA 'B'
AI-246B 1/8" = 1'-0"

KEYNOTES PARTITION PLANS - PH4

1	ALL EXTERIOR WALLS TO RECIEVE 5/8" TYPE X GYP BOARD FULL HEIGHT
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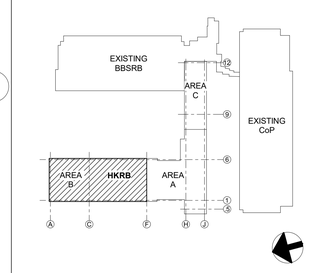

KEY PLAN
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UK Project Number 2552.0

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2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By	
Author	
Checked By	
Checker	
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTCOMBE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

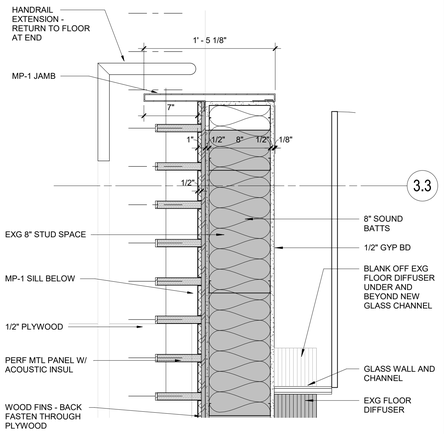
DRAWING TITLE

PARTITION PLAN - LEVEL SIX - AREA B

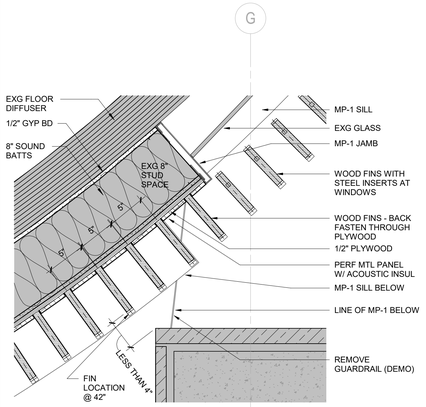
SHEET NO.

AI-246B

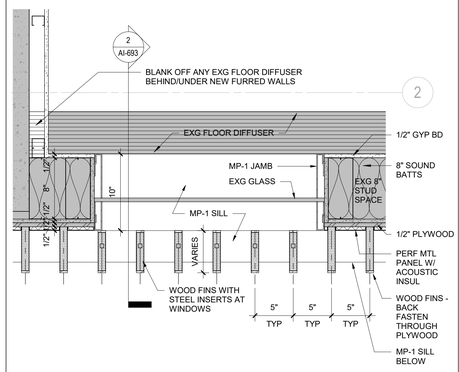
11/11/2021 4:50:11 PM



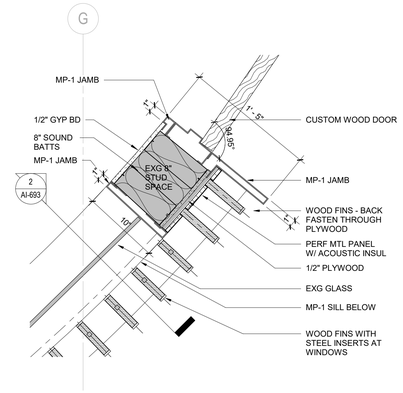
3 AI-281 **CONFRENCE ROOM ENTRY JAMB**
1 1/2" = 1'-0"



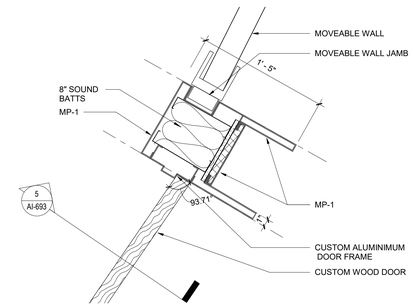
5 AI-281 **WOOD FIN WALL AT COLUMN**
1 1/2" = 1'-0"



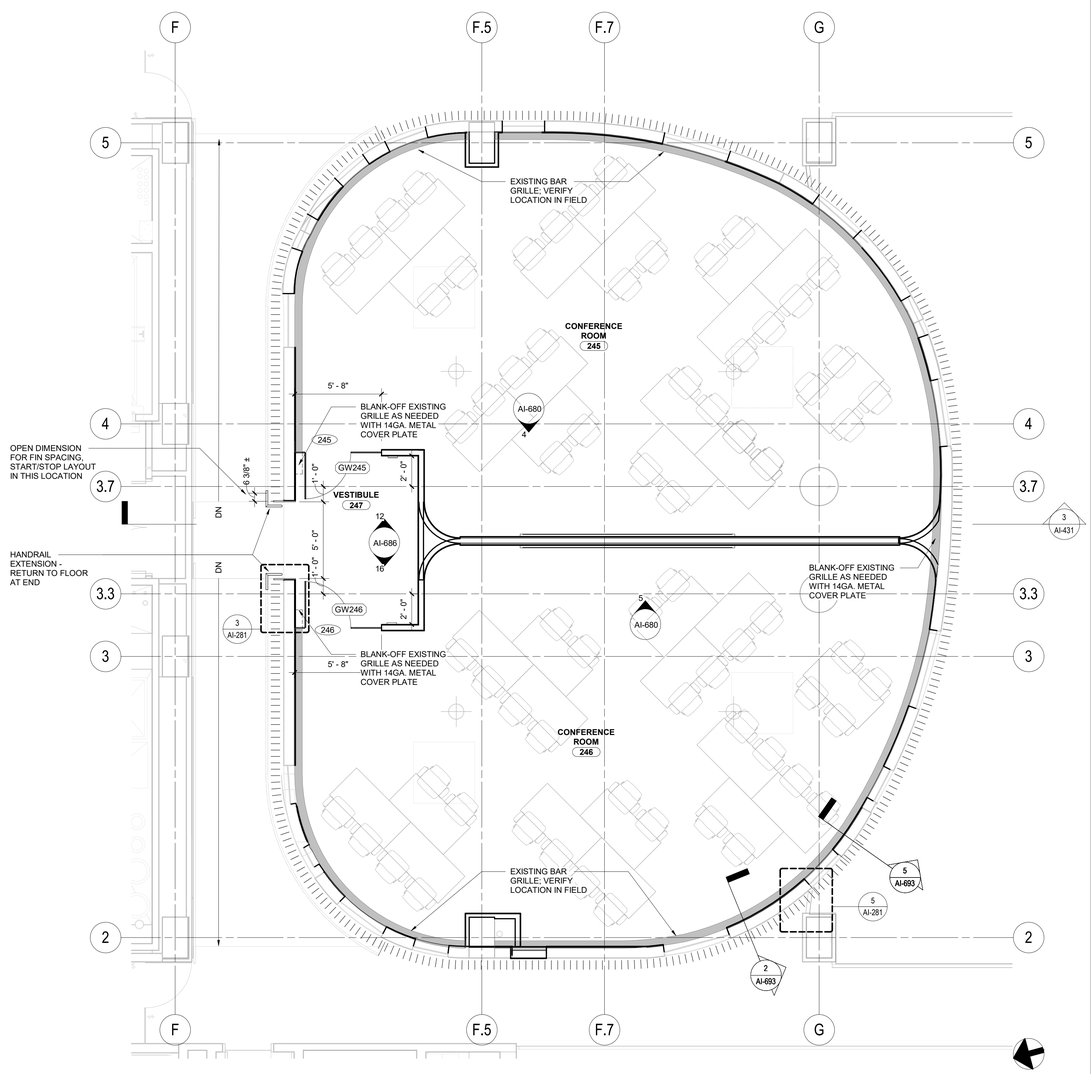
4 AI-281 **WOOD FIN AT WINDOW**
1 1/2" = 1'-0"



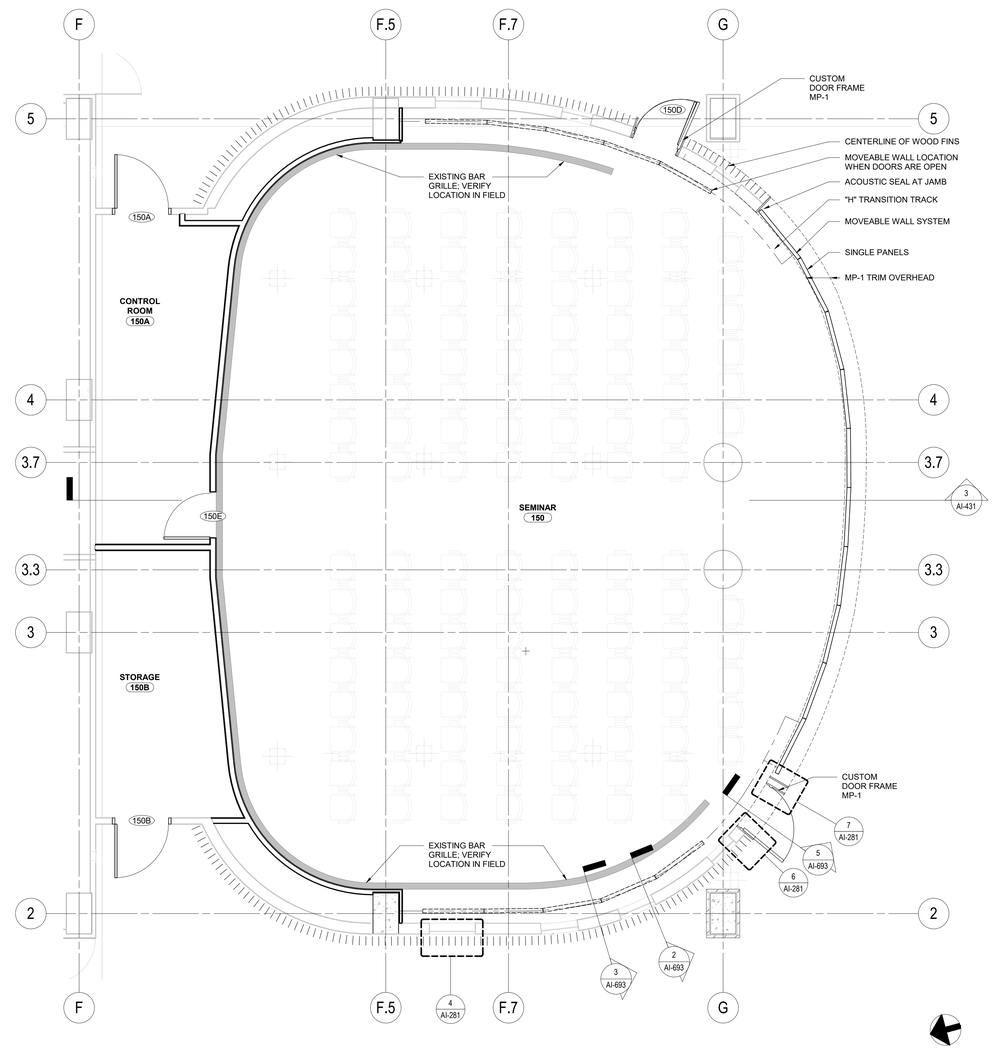
6 AI-281 **SEMINAR DOOR JAMB**
1 1/2" = 1'-0"



7 AI-281 **SEMINAR DOOR JAMB**
1 1/2" = 1'-0"



2 AI-281 **ENLARGED FLOOR PLAN - LEVEL 02 CONFERENCE ROOMS**
1/4" = 1'-0"



1 AI-281 **ENLARGED FLOOR PLAN - LEVEL 01 SEMINAR ROOM**
1/4" = 1'-0"

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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: P4-5350

MICHAEL J. BATTY, REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY PROFESSIONAL ENGINEER

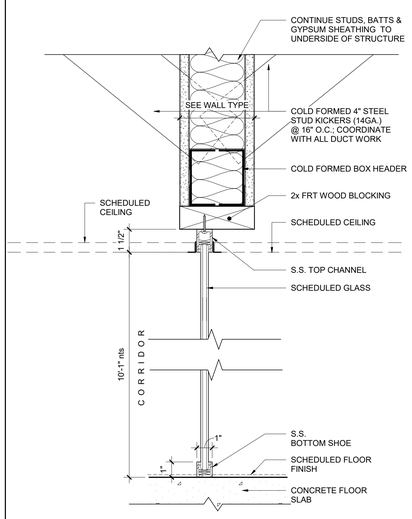
DRAWING TITLE

ENLARGED FLOOR PLANS - LEVEL ONE & TWO

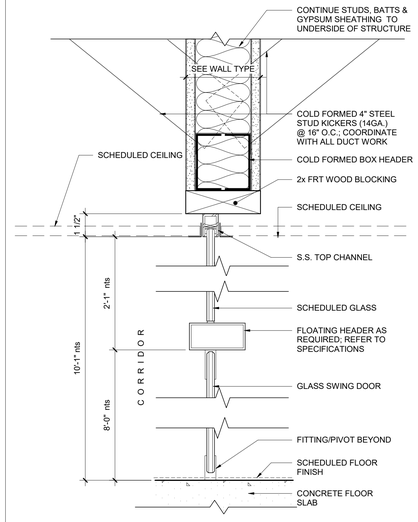
SHEET NO.

AI-281

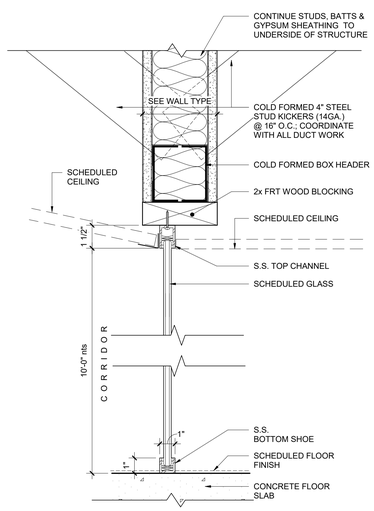
1/11/2021 4:51:09 PM



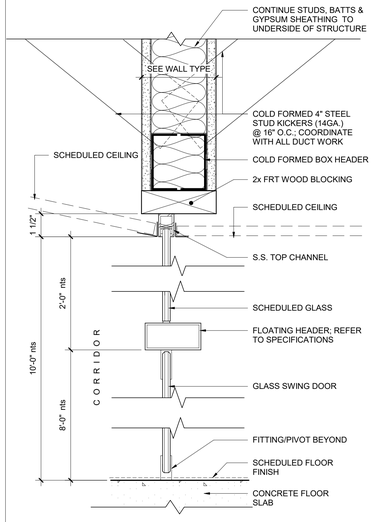
8 AI-282 **GW607 / GW608 SECTION**
3" = 1'-0"



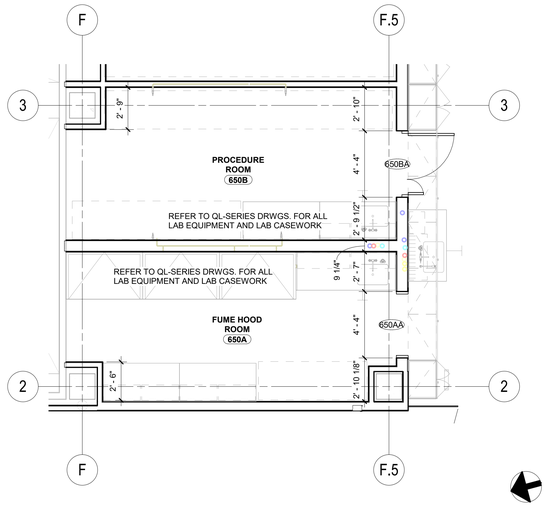
7 AI-282 **GW607 / GW608 SECTION - DOOR**
3" = 1'-0"



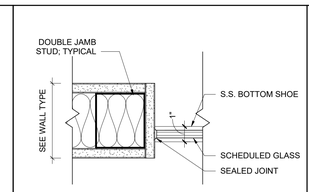
6 AI-282 **GW650 SERIES / SECTION**
3" = 1'-0"



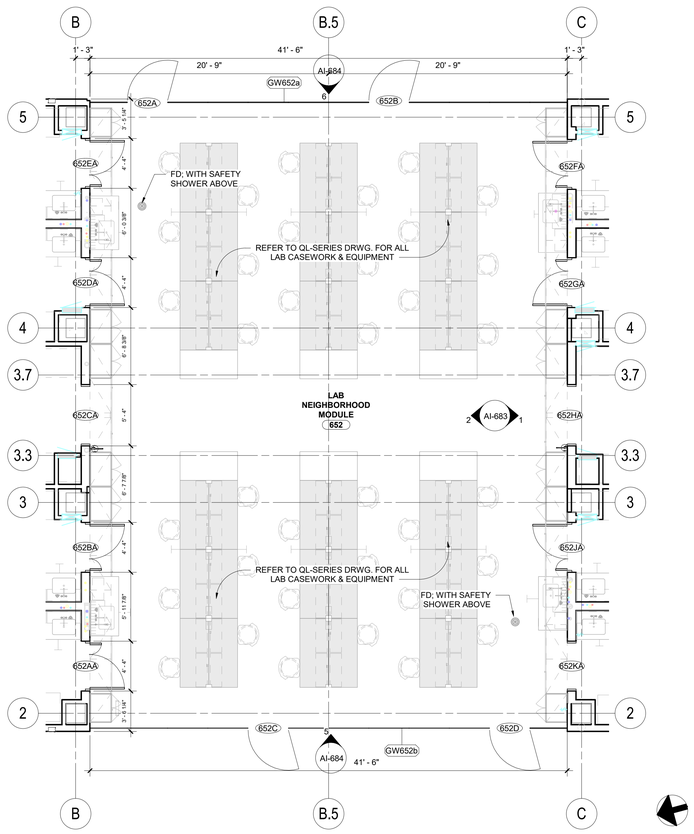
5 AI-282 **GW650 SERIES / SECTION - DOOR**
3" = 1'-0"



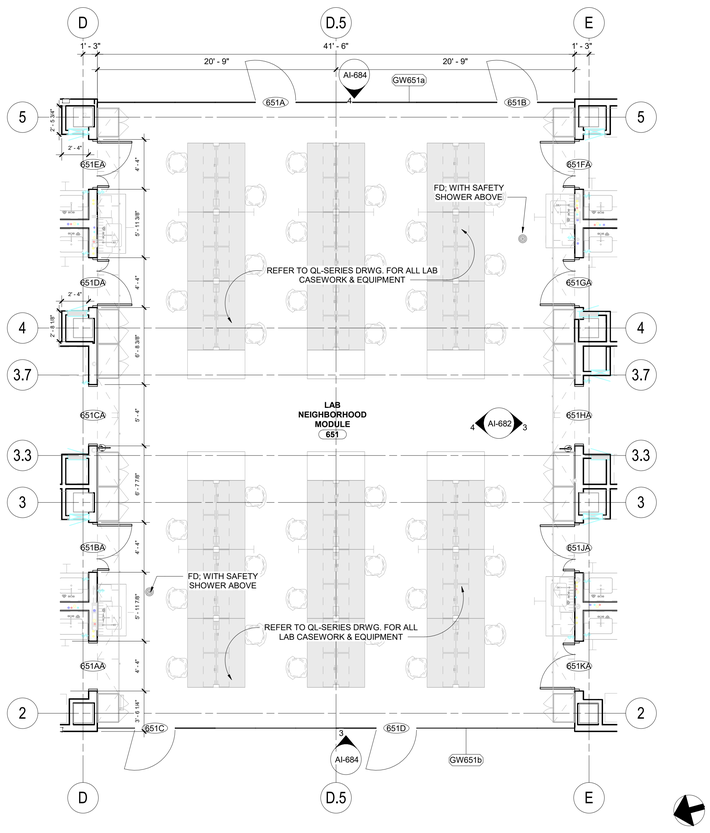
4 AI-282 **ENLARGED FLOOR PLAN - PROCEDURE AND FUME HOOD ROOM**
1/4" = 1'-0"



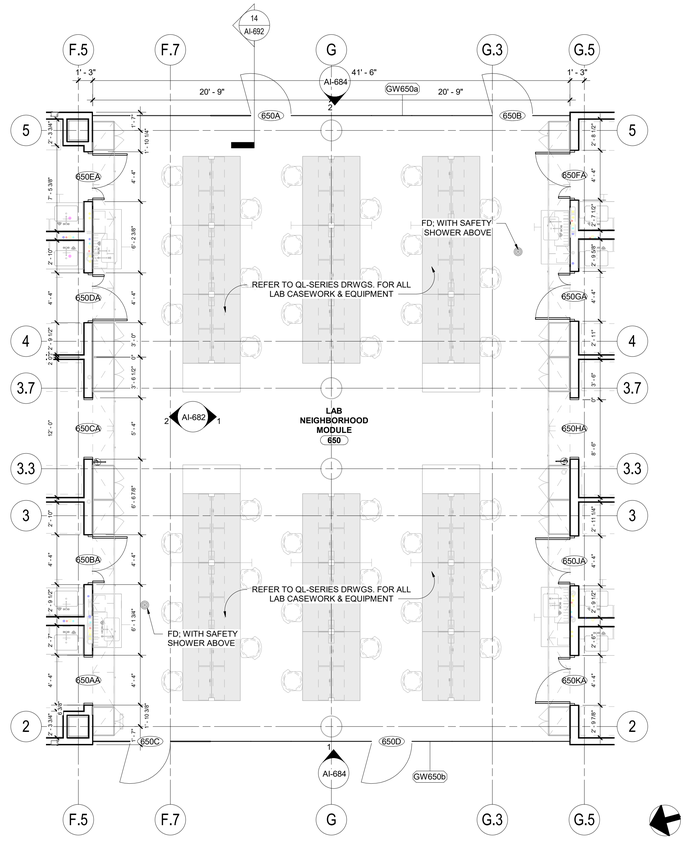
9 AI-282 **GW JAMB / TYPICAL**
3" = 1'-0"



3 AI-282 **ENLARGED FLOOR PLAN - WET LAB 652**
3/16" = 1'-0"



2 AI-282 **ENLARGED FLOOR PLAN - WET LAB 651**
3/16" = 1'-0"



1 AI-282 **ENLARGED FLOOR PLAN - WET LAB 650**
3/16" = 1'-0"

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3	P4 - BID & PERMIT	01/08/21

Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTCOMBE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

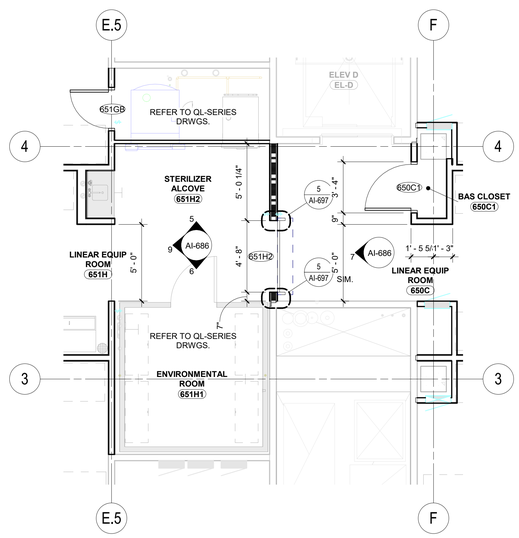
DRAWING TITLE

ENLARGED FLOOR PLANS - LEVEL SIX WET LABS

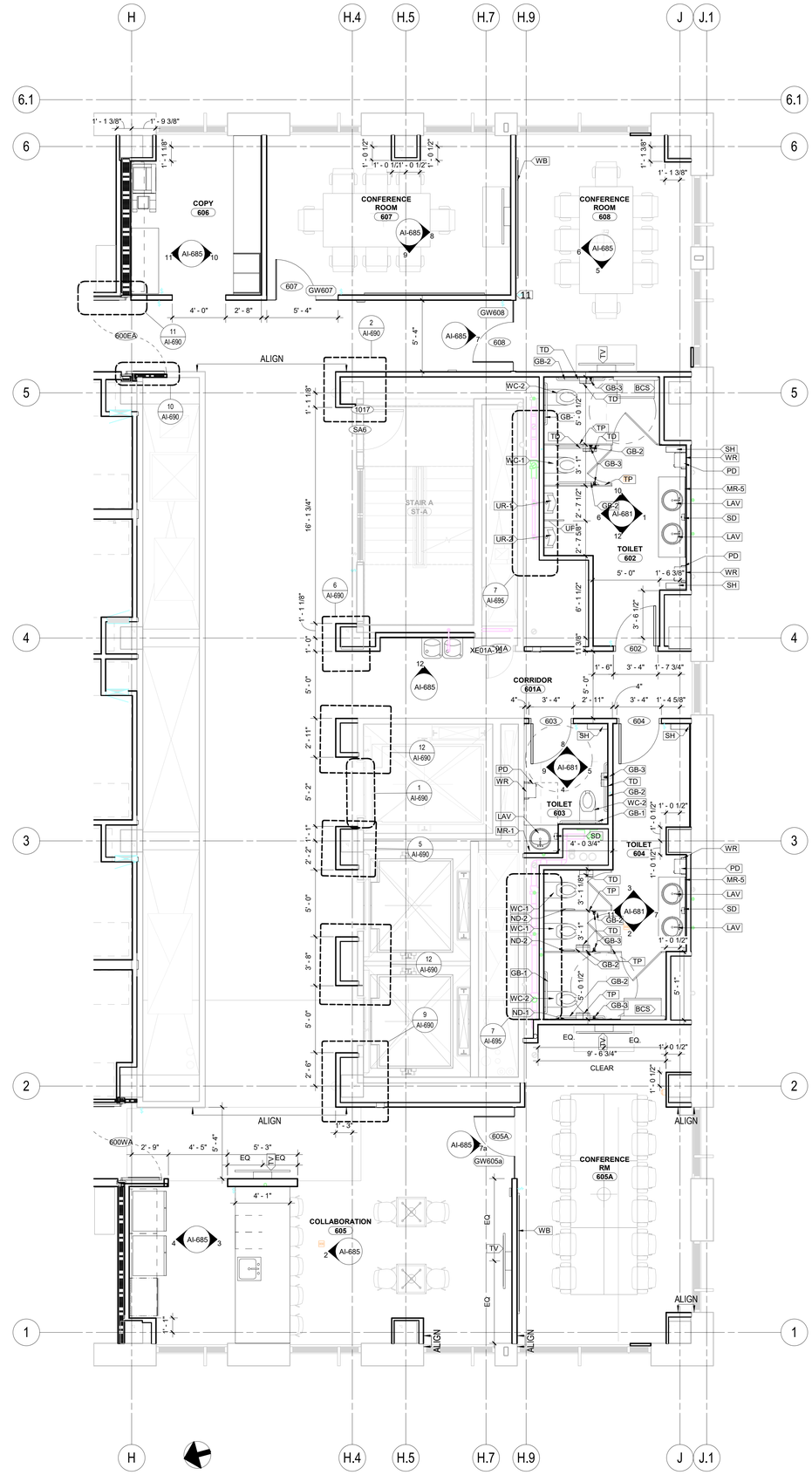
SHEET NO.

AI-282

1/11/2021 4:52:02 PM



2 AI-283 **FLOOR PLAN - LEVEL 06 FIT OUT - STERILIZER ALCOVE**
1/4" = 1'-0"



1 AI-283 **FLOOR PLAN - LEVEL 06 - AREA 'A' RR & CONFERENCE ROOMS**
1/4" = 1'-0"

ACCESSORIES LEGEND PHASE 4

BCS	BABY CHANGING STATION
CG	CORNER GUARD; REFER TO AI-697
CR	CARD READER
DF-1	ACCESSIBLE DRINKING FOUNTAIN
FBS	FRP BACKSPLASH
FEC-1	RECESSED FIRE EXTINGUISHER CABINET
FEC-2	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
FEC-3	BRACKET MOUNTED FIRE EXTINGUISHER
GB-1	REAR WALL GRAB BAR
GB-2	SIDE WALL GRAB BAR
GB-3	VERTICAL GRAB BAR
JG	JAMB GUARD; REFER TO AI-697
LAV	LAVATORY
MR-1	2'-0" x 3'-0" MIRROR
MR-2	5'-0" x 4'-0" MIRROR
MR-3	7'-6" x 4'-0" MIRROR
MR-4	9'-0" x 4'-0" MIRROR
MR-5	6'-0" x 4'-0" MIRROR
MS	MOP SINK AND MOP RACK
ND-1	RECESSED SANITARY NAPKIN DISPOSAL
ND-2	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL
PD	PAPER TOWEL DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED)
PS	PROJECTOR SCREEN
RR	RECYCLING RECEPTACLE, OWNER PROVIDED
RS	DIGITAL ROOM SCHEDULING SCREEN
SD	SURFACE MOUNTED SOAP DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED) W/ CUTOUT IN MIRROR. REFER TO AG-021 FOR CUTOUT DIMENSIONS.
SG	STORAGE ADJUSTABLE SHELVING
SH	SHELF
SR-3	60" x 36" SHOWER
TD	TOILET PAPER DISPENSER
TP	TOILET PARTITION
TV	WALL MOUNTED FLAT SCREEN MONITOR
UP	URINAL PARTITION
UR-1	URINAL
UR-2	ACCESSIBLE URINAL
WB	WHITE BOARD
WC-1	WATER CLOSET
WC-2	ACCESSIBLE WATER CLOSET
WG	WALL PROTECTION SYSTEM
WR	WASTE RECEPTACLE

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UK Project Number 2552.0

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2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTICCIOTTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

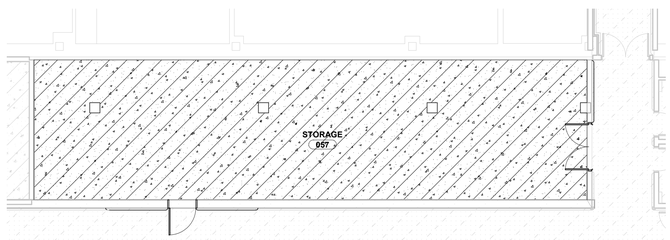
DRAWING TITLE

ENLARGED FLOOR PLANS - LEVEL SIX MISC

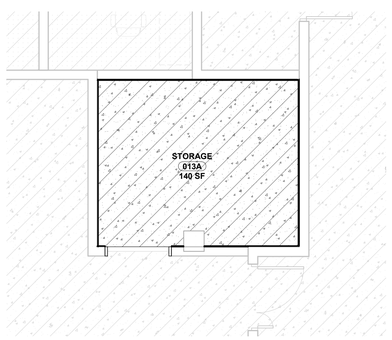
SHEET NO.

AI-283

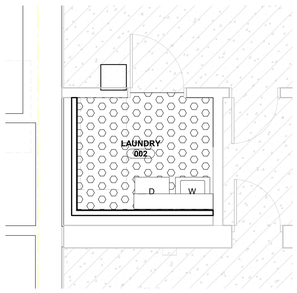
1/11/2021 4:52:37 PM



4 AI-330 **FLOOR FINISH PLAN - LOWER LEVEL - STORAGE**
1/8" = 1'-0"



3 AI-330 **FLOOR FINISH PLAN - STORAGE RM. 013B**
1/4" = 1'-0"



2 AI-330 **FLOOR FINISH PLAN - LAUNDRY RM. 002**
1/4" = 1'-0"

NOTE: ALL FLOORING IN DATA PROCESSING, IMAGING AND FLOW ROOMS TO BE NON-STATIC

1 AI-330 **FLOOR FINISH PLAN - LOWER LEVEL - IMAGING SUITE**
1/8" = 1'-0"

GENERAL NOTES - FINISH PH 4

1. SEE FLOOR PLANS FOR WALL TYPES.
2. SEE ROOM FINISH SCHEDULE, INTERIOR ELEVATIONS, INTERIOR DETAILS, & CASEWORK DETAILS FOR ADDITIONAL INFORMATION.
3. REFER TO AI-741 FINISH LEGEND FOR MATERIAL DESIGNATIONS AND BASIS OF DESIGN PRODUCT INFORMATION.
4. PAINT HOLLOW METAL DOOR & FRAMES TO MATCH THE COLOR OF HOST WALL, UNO.
5. FLOOR TRANSITIONS AT DOOR OPENINGS SHALL BE CENTERED ON THE DOOR PANEL, UNO.
6. ALL MISCELLANEOUS PANELS, FIRE EXTINGUISHER CABINETS, EXPOSED DUCTING PARTS, CONDUIT, PIPES, LOUVERS, VENTILATION COVERS AND ANY EQUIPMENT FACTORY FINISHED, INCLUDING ASSOCIATED HARDWARE, SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH IT OCCURS, UNO
7. ALL WALLS TO RECEIVE <PT-1>, UNO.
8. ALL WALLS TO RECEIVE <RB-1>, UNO. ACCENT WALLS TO RECEIVE ACCENT WALL BASE.
9. ALL CTW CORNER TRANSITIONS TO RECEIVE <CTA-2>
10. REFER TO 9&10\AI-649 FOR <RES-1> COVE BASE DETAIL; TO BE USED AT ALL LOCATIONS RECEIVING <RES-1> FLOORING, UNO \
11. ALL FLOORING IN LOWER LEVEL IMAGING, DATA PROCESSING AND FLOW TO BE NON-STATIC FLOORING.

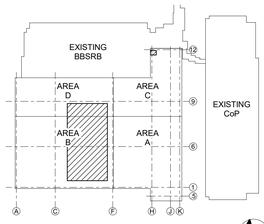
LEGEND - FINISH PLANS

- CPT-51
- CPT-52
- CS-1
- CS-2
- CTF-1
- CTF-2
- CTF-3
- TZO-1
- RES-1
- RSF-1
- RSF-2
- RSF-3
- RSF-4
- VCT
- WM-1

FINISH PLAN LEGEND PHASE 4

KEYNOTE - FINISH FLOOR PLAN PH 4

1	FLOOR FINISH TO EXTEND TO WINDOW MULLION; REFER TO DETAIL 19/AI-742
3	COLUMN FINISH PLASTER SKIM COAT W/ PAINTED FINISH
6	REMOVE EXISTING STAIR TREADS AND PHOTO LUMINESCENT HANDRAIL COVERS AND RE-INSTALL WITH NEW PROVIDED BY OWNER.
8	ACCENT PAINT PT-6 WITH BASE RB-1 JJ
10	CTW-2
11	TACK BOARD BD-4 - REFER TO TYPICAL ELEVATION 13/AI-685
12	NEW FLOORING ON LEVEL 5; COORDINATE WITH CM.
15	MP-1 WALL FINISH
29	PT-1 W/ RB-1
30	PAINT DOOR AND DOOR FRAME, PT-6
31	PAINT DOOR FRAME, PT-6
32	RSF-3 ACCENT FLOOR AT FLOOR DRAIN; REFER TO DETAIL
33	RSF-3 ACCENT FLOOR AT LADDER STATION; REFER TO DETAIL
35	STAIR RISERS TO BE PAINTED BLACK IN STAIRS A, B, C THROUGH ENTIRE HEIGHT OF STAIRWELL
36	2" WIDE CONTINUOUS FILM-3 APPLIED TO GLASS; SIGN ADJ. TO DOOR TO SAY "DOOR MUST REMAIN CLOSED"
39	FRP BACK SPLASH
43	REMOVE EXISTING TILE TO ALLOW FOR TOOTHING IN OF NEW TILE TO EXTENTS SHOWN



KEY PLAN
NTS

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UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - SD REVIEW	09/18/20
2	P4 - DD REVIEW	10/23/20
3	P4 - CD REVIEW	12/04/20
4	P4 - BID & PERMIT	01/08/21

Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: P4-5350

MICHAEL J. BATTCOTTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE
FLOOR FINISH PLAN - LOWER LEVEL - IMAGING SUITE

SHEET NO.
AI-330

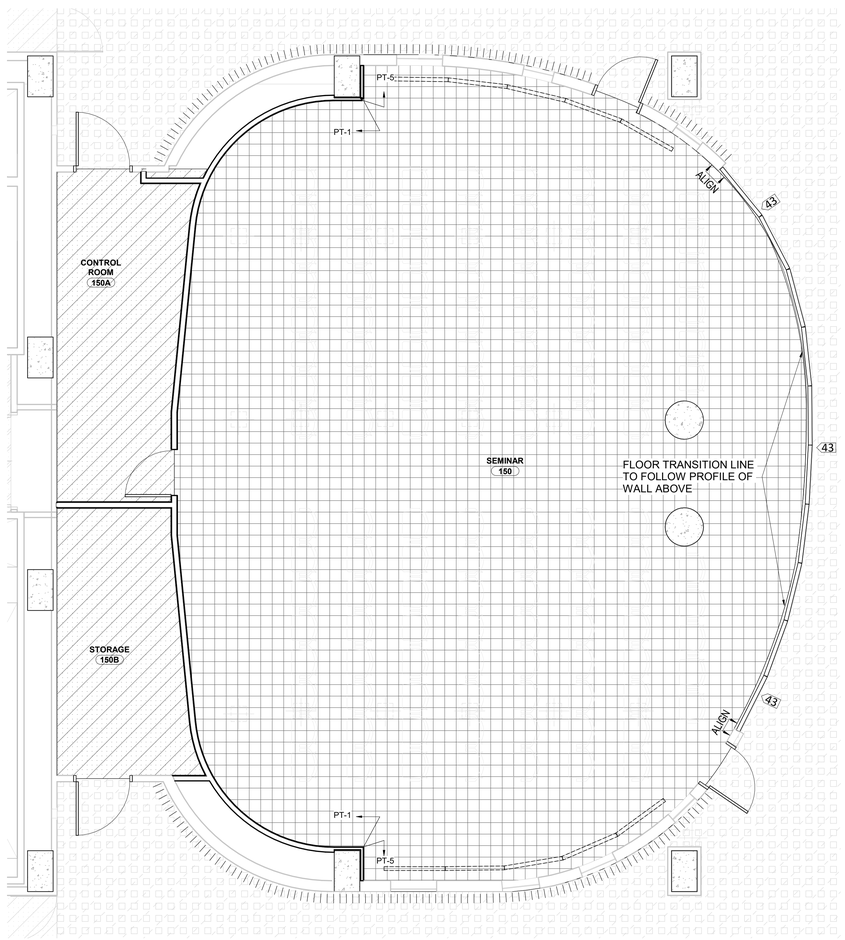
1/11/2021 4:54:50 PM

GENERAL NOTES - FINISH PLANS

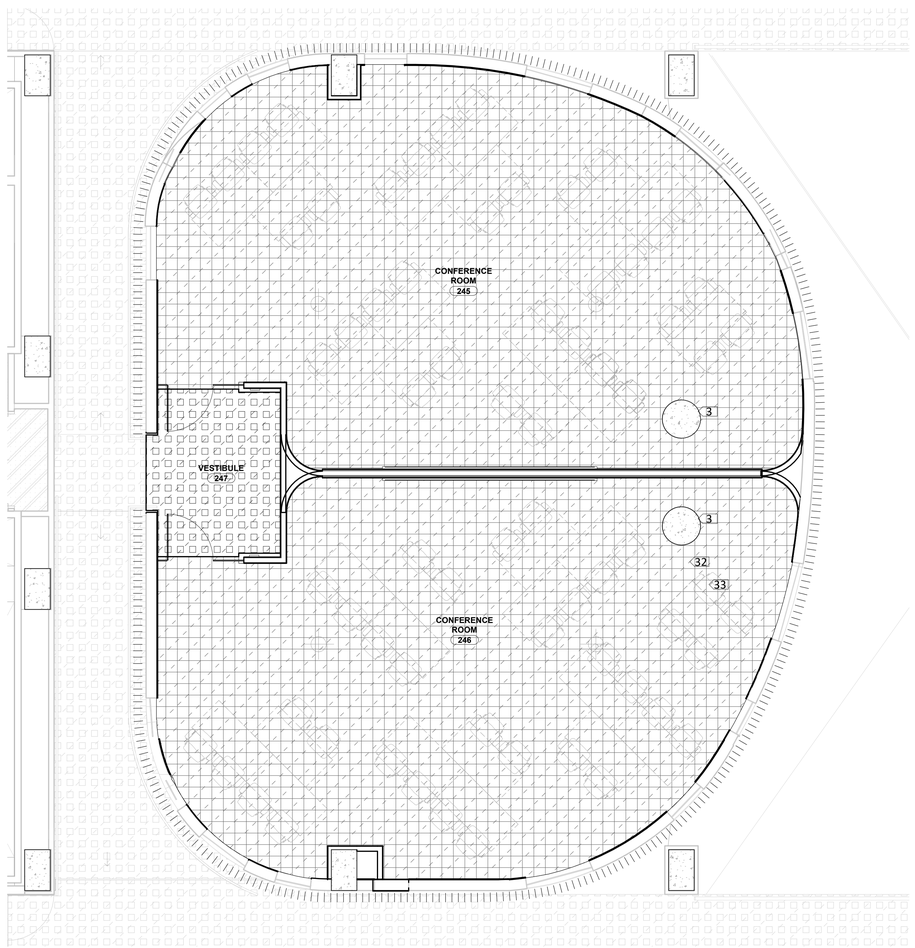
1. SEE FLOOR PLANS FOR WALL TYPES.
2. SEE ROOM FINISH SCHEDULE, INTERIOR ELEVATIONS, INTERIOR DETAILS, & CASEWORK DETAILS FOR ADDITIONAL INFORMATION.
3. REFER TO AI-723 FINISH LEGEND FOR MATERIAL DESIGNATIONS AND BASIS OF DESIGN PRODUCT INFORMATION.
4. PAINT HOLLOW METAL DOOR & FRAMES TO MATCH THE COLOR OF HOST WALL, UNO.
5. FLOOR TRANSITIONS AT DOOR OPENINGS SHALL BE CENTERED ON THE DOOR PANEL, UNO.
6. ALL MISCELLANEOUS PANELS, FIRE EXTINGUISHER CABINETS, EXPOSED DUCTING PARTS, CONDUIT, PIPES, LOUVERS, VENTILATION COVERS AND ANY EQUIPMENT FACTORY FINISHED, INCLUDING ASSOCIATED HARDWARE, SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH IT OCCURS, UNO
7. ALL WALLS TO RECEIVE <PT-1>, UNO.
8. ALL WALLS TO RECEIVE <RB-1>, UNO. ACCENT WALLS TO RECEIVE ACCENT WALL BASE.
9. ALL COLLABORATION CASEWORK WALLS TO RECEIVE HIGH GLOSS FINISH WITHIN ALCOVE.
10. ALL SHELL SPACES SHALL BE LEFT UNFINISHED. FLOORS SHOULD BE PREPPED FOR FUTURE INSTALL.
11. <RSF-3> TO BE USED AS ACCENT FLOORING AT ALL EMERGENCY EYE WASH AND SAFETY SHOWER FIXTURES. SEE 12/AI-672.
12. <RSF-3> TO BE USED AS ACCENT FLOORING AT LADDER STATIONS IN WET LAB. SEE 15/AI-672.
13. CLEAR FLOOR AREAS AT LOWER LEVEL: REVIEW MARKINGS INDICATED ON PLAN WITH OWNER AFTER ALL FIXED EQUIPMENT HAS BEEN INSTALLED. FLOOR MARKING MATERIAL TO BE DETERMINED.
14. ELEVATOR CAB FLOORING (NOT SHOWN ON PLAN) TO BE <TZO-1>
15. ALL CTW CORNER TRANSITIONS TO RECEIVE <CTA-2>
16. REFER TO 11&14/AI-672 FOR <RES-1> COVE BASE DETAIL; TO BE USED AT ALL LOCATIONS RECEIVING <RES-1> FLOORING, UNO
17. STAIRS E TO RECEIVE INTEGRATED LUMINOUS STAIR TREAD FOR ALL LEVELS BASEMENT THROUGH LEVEL 4, UNO.; ALL LANDINGS IN STAIRS E TO RECEIVE RUBBER LUMINOUS NOSING
18. CONTRACTOR TO INCLUDE ALL PHOTOLUMINESCENT ITEMS PER CODE IN STAIRS E; REFER TO FINISH LEGEND AI-724 FOR ITEMS TO BE APPLIED

LEGEND - FINISH PLANS

CPT-51
CPT-52
CS-1
CS-2
CTF-1
CTF-2
CTF-3
TZO-1
RES-1
RSF-1
RSF-2
RSF-3
RSF-4
VCT
WM-1



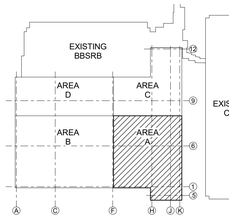
1 AI-331 **FLOOR FINISH PLAN - LEVEL 01 - AREA 'A' SEMINAR ROOM**
1/4" = 1'-0"



2 AI-331 **FLOOR FINISH PLAN - LEVEL 02 - AREA 'A' CONFERENCE ROOMS**
1/4" = 1'-0"

KEYNOTE - FINISH FLOOR PLAN PH 4

1	FLOOR FINISH TO EXTEND TO WINDOW MULLION; REFER TO DETAIL 19/AI-742
3	COLUMN FINISH PLASTER SKIM COAT W/ PAINTED FINISH
6	REMOVE EXISTING STAIR TREADS AND PHOTO LUMINESCENT HANDRAIL COVERS AND RE-INSTALL WITH NEW PROVIDED BY OWNER.
8	ACCENT PAINT PT-6 WITH BASE RB-1 JJ
10	CTW-2
11	TACK BOARD BD-4 - REFER TO TYPICAL ELEVATION 13/AI-685
12	NEW FLOORING ON LEVEL 5; COORDINATE WITH CM.
15	MP-1 WALL FINISH
29	PT-1 W/ RB-1
30	PAINT DOOR AND DOOR FRAME, PT-6
31	PAINT DOOR FRAME, PT-6
32	RSF-3 ACCENT FLOOR AT FLOOR DRAIN; REFER TO DETAIL
33	RSF-3 ACCENT FLOOR AT LADDER STATION; REFER TO DETAIL
35	STAIR RISERS TO BE PAINTED BLACK IN STAIRS A, B, C THROUGH ENTIRE HEIGHT OF STAIRWELL
36	2" WIDE CONTINUOUS FILM-3 APPLIED TO GLASS; SIGN ADJ. TO DOOR TO SAY "DOOR MUST REMAIN CLOSED"
39	FRP BACK SPLASH
43	REMOVE EXISTING TILE TO ALLOW FOR TOOTHING IN OF NEW TILE TO EXTENTS SHOWN



KEY PLAN
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UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

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UK Project Number 2552.0

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1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: P4-5350

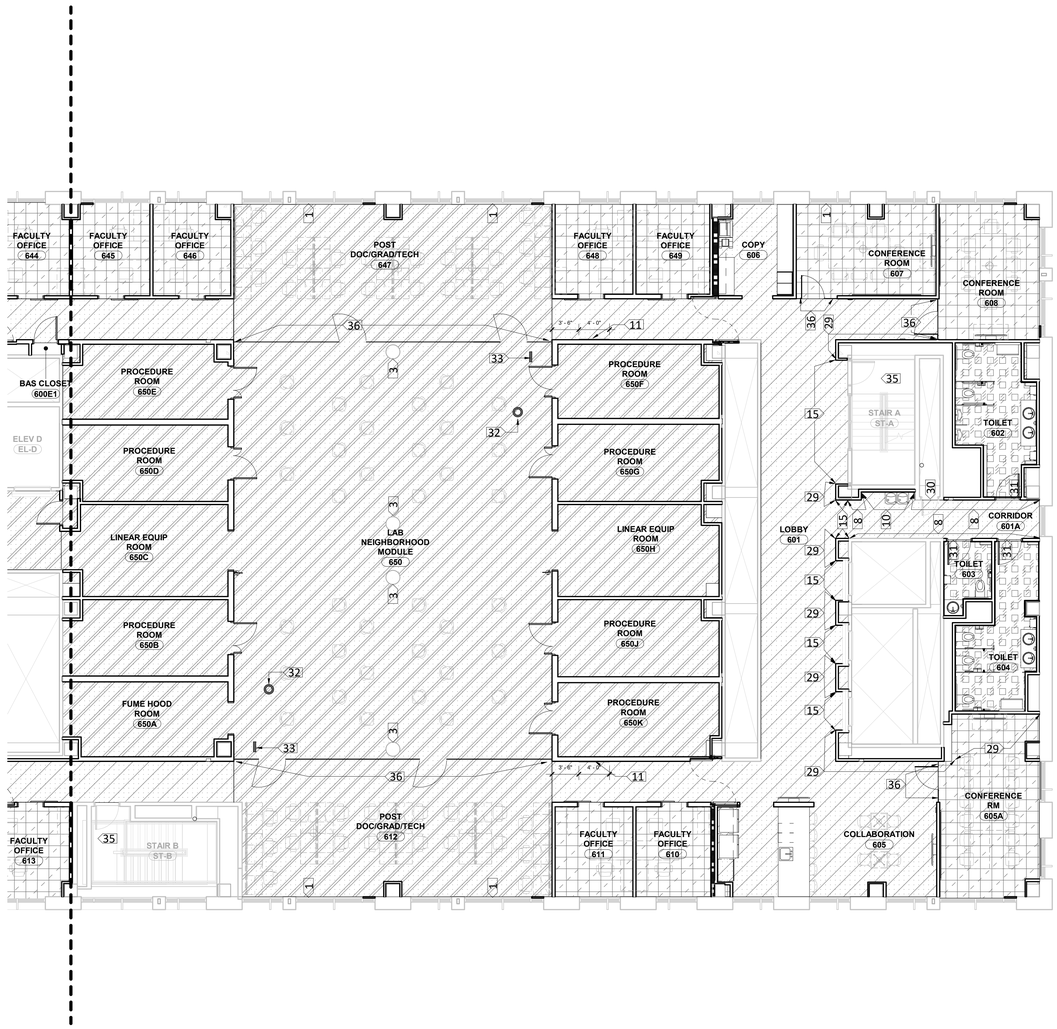
MICHAEL J. BATTY, P.E. REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY PROFESSIONAL ENGINEER

DRAWING TITLE

FLOOR FINISH PLAN - LEVEL ONE & TWO

SHEET NO.
AI-331

1/11/2021 4:55:38 PM



1 **FLOOR FINISH PLAN - LEVEL 06 - AREA 'A'**
AI-336A 1/8" = 1'-0"

GENERAL NOTES - FINISH PLANS

1. SEE FLOOR PLANS FOR WALL TYPES.
2. SEE ROOM FINISH SCHEDULE, INTERIOR ELEVATIONS, INTERIOR DETAILS, & CASEWORK DETAILS FOR ADDITIONAL INFORMATION.
3. REFER TO AI-723 FINISH LEGEND FOR MATERIAL DESIGNATIONS AND BASIS OF DESIGN PRODUCT INFORMATION.
4. PAINT HOLLOW METAL DOOR & FRAMES TO MATCH THE COLOR OF HOST WALL, UNO.
5. FLOOR TRANSITIONS AT DOOR OPENINGS SHALL BE CENTERED ON THE DOOR PANEL, UNO.
6. ALL MISCELLANEOUS PANELS, FIRE EXTINGUISHER CABINETS, EXPOSED DUCTING PARTS, CONDUIT, PIPES, LOUVERS, VENTILATION COVERS AND ANY EQUIPMENT FACTORY FINISHED, INCLUDING ASSOCIATED HARDWARE, SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH IT OCCURS, UNO
7. ALL WALLS TO RECEIVE <PT-1>, UNO.
8. ALL WALLS TO RECEIVE <RB-1>, UNO. ACCENT WALLS TO RECEIVE ACCENT WALL BASE.
9. ALL COLLABORATION CASEWORK WALLS TO RECEIVE HIGH GLOSS FINISH WITHIN ALCOVE.
10. ALL SHELL SPACES SHALL BE LEFT UNFINISHED. FLOORS SHOULD BE PREPPED FOR FUTURE INSTALL.
11. <RSF-3> TO BE USED AS ACCENT FLOORING AT ALL EMERGENCY EYE WASH AND SAFETY SHOWER FIXTURES. SEE 12/AI-672.
12. <RSF-3> TO BE USED AS ACCENT FLOORING AT LADDER STATIONS IN WET LAB. SEE 15/AI-672.
13. CLEAR FLOOR AREAS AT LOWER LEVEL: REVIEW MARKINGS INDICATED ON PLAN WITH OWNER AFTER ALL FIXED EQUIPMENT HAS BEEN INSTALLED. FLOOR MARKING MATERIAL TO BE DETERMINED.
14. ELEVATOR CAB FLOORING (NOT SHOWN ON PLAN) TO BE <TZO-1>
15. ALL CTW CORNER TRANSITIONS TO RECEIVE <CTA-2>
16. REFER TO 11&14/AI-672 FOR <RES-1> COVE BASE DETAIL; TO BE USED AT ALL LOCATIONS RECEIVING <RES-1> FLOORING, UNO
17. STAIRS E TO RECEIVE INTEGRATED LUMINOUS STAIR TREAD FOR ALL LEVELS BASEMENT THROUGH LEVEL 4, UNO.; ALL LANDINGS IN STAIRS E TO RECEIVE RUBBER LUMINOUS NOSING
18. CONTRACTOR TO INCLUDE ALL PHOTOLUMINESCENT ITEMS PER CODE IN STAIRS E; REFER TO FINISH LEGEND AI-724 FOR ITEMS TO BE APPLIED

LEGEND - FINISH PLANS

- CPT-51
- CPT-52
- CS-1
- CS-2
- CTF-1
- CTF-2
- CTF-3
- TZO-1
- RES-1
- RSF-1
- RSF-2
- RSF-3
- RSF-4
- VCT
- WM-1

KEYNOTE - FINISH FLOOR PLAN PH 4

1	FLOOR FINISH TO EXTEND TO WINDOW MULLION; REFER TO DETAIL 19/AI-742
3	COLUMN FINISH PLASTER SKIM COAT W/ PAINTED FINISH
6	REMOVE EXISTING STAIR TREADS AND PHOTO LUMINESCENT HANDRAIL COVERS AND RE-INSTALL WITH NEW PROVIDED BY OWNER.
8	ACCENT PAINT PT-6 WITH BASE RB-1 JJ
10	CTW-2
11	TACK BOARD BD-4 - REFER TO TYPICAL ELEVATION 13/AI-685
12	NEW FLOORING ON LEVEL 5; COORDINATE WITH CM.
15	MP-1 WALL FINISH
29	PT-1 W/ RB-1
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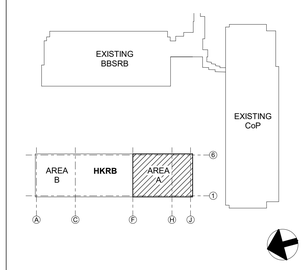

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Author	
Checked By	
Checker	
Client Number 514	
Project Number P4-5350	

MICHAEL J. BATTCOCKETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

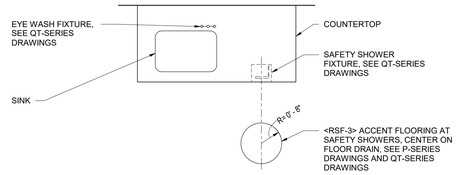
DRAWING TITLE

FLOOR FINISH PLAN - LEVEL SIX - AREA A

SHEET NO.

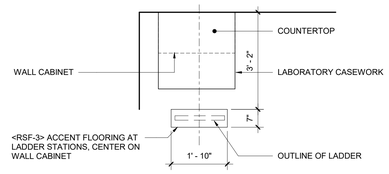
AI-336A

1/11/2021 4:55:54 PM



NOTE: ACCENT FLOORING TO BE INLAYED INTO SURROUNDING FLOORING FOR A RESULTING SMOOTH AND SEAMLESS FLOORING SURFACE

3 AI-336B **ACCENT FLOORING AT EYE WASH STATIONS** 1/2" = 1'-0"



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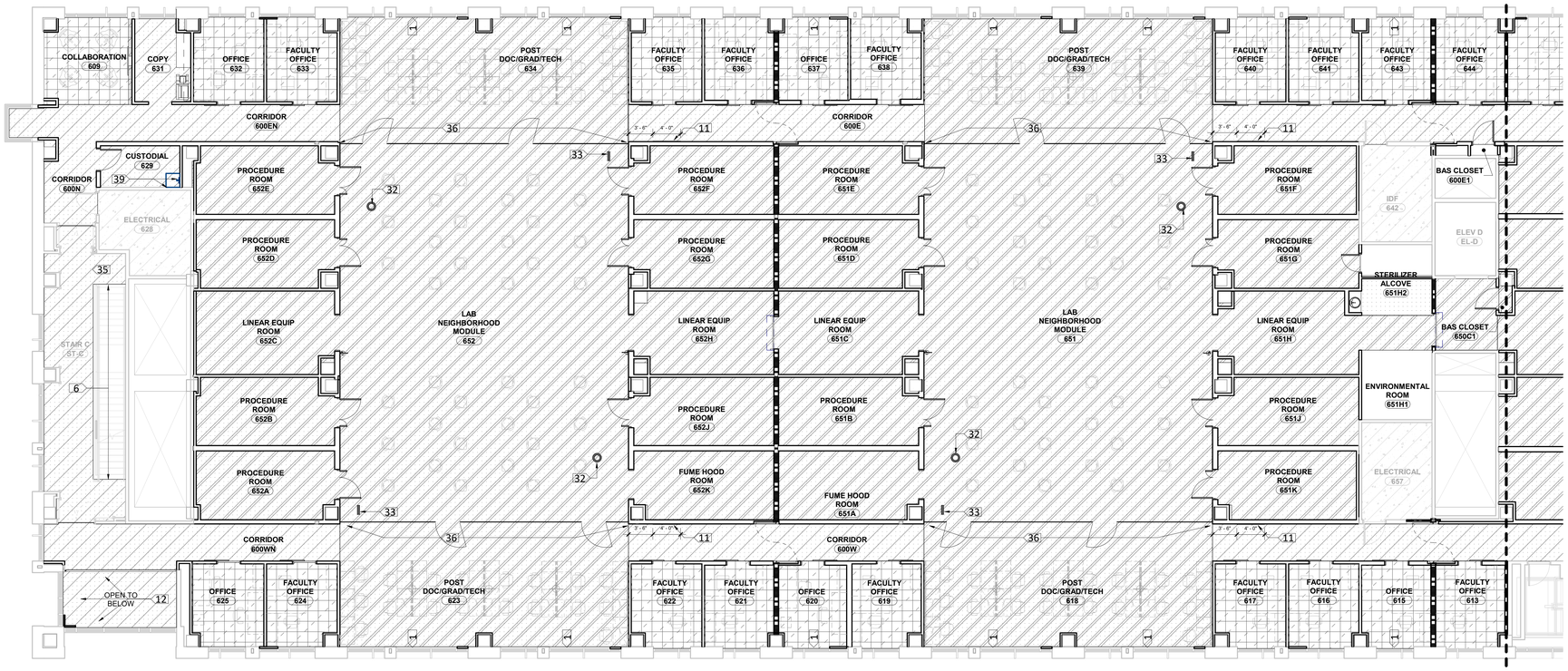
2 AI-336B **ACCENT FLOORING AT LADDER STATIONS** 1/2" = 1'-0"



1 AI-336B **FLOOR FINISH PLAN - LEVEL 06 - AREA 'B'** 1/8" = 1'-0"

GENERAL NOTES - FINISH PLANS

1. SEE FLOOR PLANS FOR WALL TYPES.
2. SEE ROOM FINISH SCHEDULE, INTERIOR ELEVATIONS, INTERIOR DETAILS, & CASEWORK DETAILS FOR ADDITIONAL INFORMATION.
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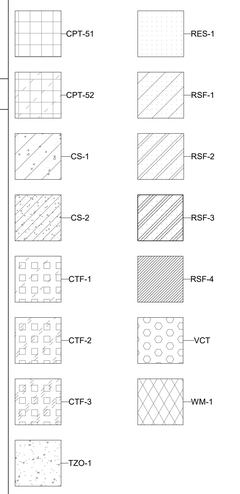
LEGEND - FINISH PLANS



KEYNOTE - FINISH FLOOR PLAN PH 4

1	FLOOR FINISH TO EXTEND TO WINDOW MULLION; REFER TO DETAIL 19/AI-742
3	COLUMN FINISH PLASTER SKIM COAT W/ PAINTED FINISH
6	REMOVE EXISTING STAIR TREADS AND PHOTO LUMINESCENT HANDRAIL COVERS AND RE-INSTALL WITH NEW PROVIDED BY OWNER.
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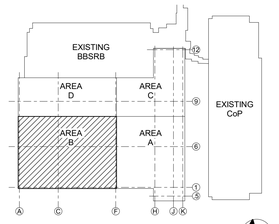

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Drawn By	
Author	
Checked By	
Checker	
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTCOTTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE

FLOOR FINISH PLAN - LEVEL SIX - AREA B

SHEET NO.

AI-336B

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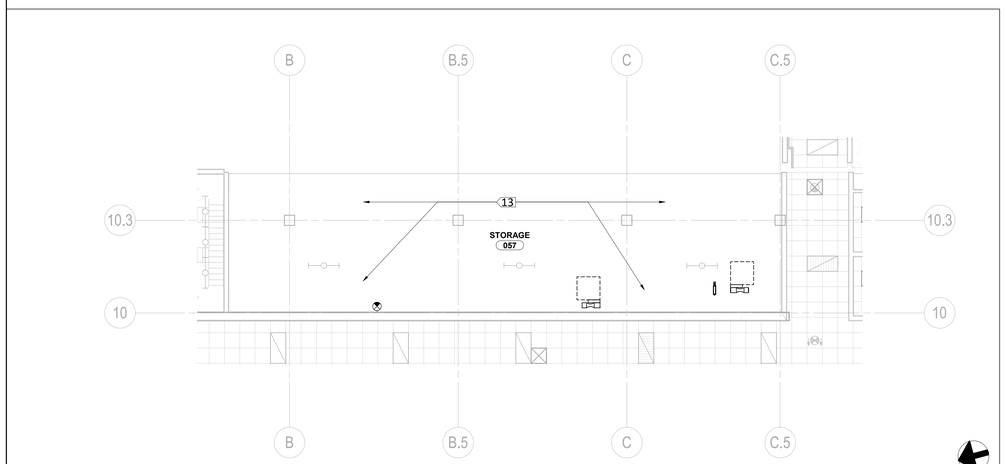
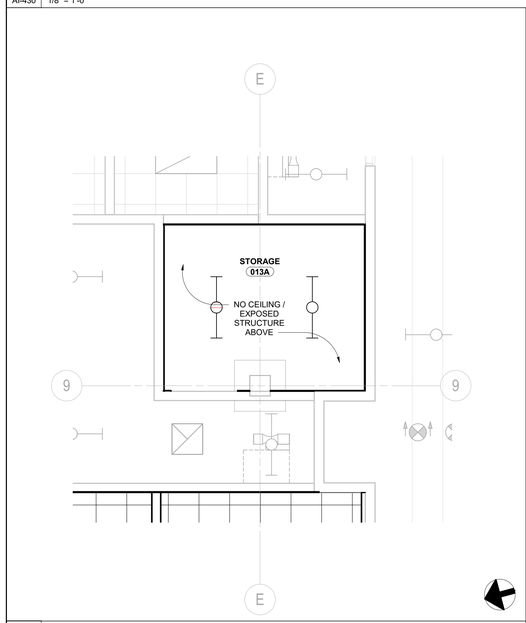
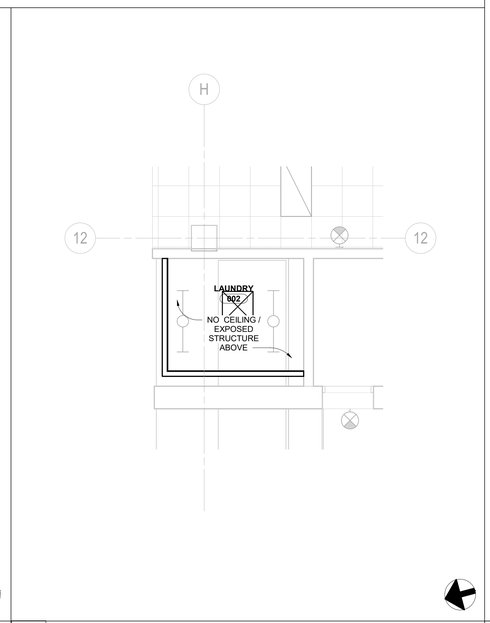


4 AI-430 **REFLECTED CEILING PLAN - STORAGE 057**
1/8" = 1'-0"



3 AI-430 **REFLECTED CEILING PLAN - STORAGE 013A**
1/4" = 1'-0"



2 AI-430 **REFLECTED CEILING PLAN - LAUNDRY 002**
1/4" = 1'-0"

1 AI-430 **REFLECTED CEILING PLAN - LEVEL 00 - IMAGING SUITE**
1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

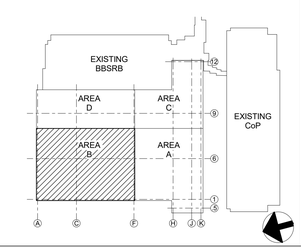
1. COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR DEVICES, TYPES, AND INSTALLATION. INFORM ARCHITECT OF ANY INCONSISTENCIES FOUND IN DRAWINGS OR SPECIFICATIONS.
2. HIGH SIDE OF SLOPED CEILINGS IS ADJACENT TO BUILDING EXTERIOR WALL. SEE KEYNOTES FOR HIGH AND LOW POINT DIMENSIONS AND/OR ANGLE OF CEILING.
3. CEILING TYPES AND HEIGHTS ARE INDICATED ON R.C.P. - INFORM ARCHITECT OF ANY MISSING CEILING TYPE AND HEIGHT DATA.
4. SOFFITS OVER CASEWORK SHALL BE 7'-2" U.N.O.
5. DEVICES (RECESSSED LIGHTS, EXIT SIGNS, ELECTRICAL AND MECHANICAL DEVICES, SPRINKLER HEADS, ETC) ARE TO BE CENTERED ON CEILING TILES U.N.O.
6. CONTRACTOR SHALL PROVIDE AND COORDINATE ACCESS PANELS FOR DEVICES REQUIRING ACCESS IN NON-ACCESSIBLE CEILINGS.
7. PATCH OR REPAIR EXISTING CONSTRUCTION TO REMAIN WHERE DAMAGED OR DISTURBED DURING NEW CONSTRUCTION.
8. PROVIDE WINDOW SHADE AT ALL EXTERIOR GLAZING UNLESS NOTED OTHERWISE
9. PROVIDE SMOKE CURTAINS AT ELEVATOR DOORS.
10. SEE TYPICAL CEILING HEIGHT TRANSITIONS 10 / AI-654
11. SEE TYPICAL CEILING EDGE CLOSURE 11 / AI-654 - DETAIL OCCURS AT BUILDING EXTERIOR WALLS WHERE SHOWN ON RCP
12. SEE TYPICAL OFFICE CEILING CONDITIONS 4 / AI-402B U.N.O.

REFLECTED CEILING PLAN LEGEND

- GYP BD-1 GYPSUM BOARD CEILING, SOFFIT, OR BULKHEAD
- GYP BD-3 GYPSUM BOARD CEILING, SOFFIT, OR BULKHEAD - 5/8" GYPSUM BOARD ON FRAMED SYSTEM
- MP-1 METAL PANEL CEILING
- TBD - CEILING TO BE DECIDED
- STN-1 LIMESTONE SOFFIT
- 6" WIDE UTILITY STRIP WITH WHITE METAL CEILING PANEL INFILL
- 2X2 ACOUSTICAL CEILING PER SPECIFICATION. ACT-1 TYPICAL UNLESS NOTED OTHERWISE
- 2X4 ACCOUSTICAL CEILING PER SPECIFICATION. ACT-2 TYPICAL UNLESS NOTED OTHERWISE
- 2x4 LIGHT FIXTURE PER ELECTRICAL DRAWINGS
- 2x2 LIGHT FIXTURE PER ELECTRICAL DRAWINGS
- RECESSED DIMABLE INCANDESCENT OR FLUORESCENT DOWNLIGHT FIXTURE; REFER TO ELECTRICAL DRAWINGS
- DECORATIVE RECESSED DIMABLE DOWNLIGHT FIXTURE; REFER TO ELECTRICAL DRAWINGS
- SURFACE MOUNTED PENDANT LIGHT FIXTURE PER ELECTRICAL DRAWINGS
- WALL MOUNTED LIGHT SCONCE PER ELECTRICAL DRAWINGS, TYP. MOUNTING HEIGHT SHALL BE 6'-6" U.N.O.
- BATHROOM WALL MOUNTED LIGHT SCONCE PER ELECTRICAL DRAWINGS, TYP. MOUNTING HEIGHT SHALL BE X'-X" U.N.O.
- SPRINKLER HEAD - COORDINATE WITH FIRE SUPPRESSION DRAWINGS
- MECHANICAL SUPPLY AIR DEVICE, SIZE AS INDICATED ON DRAWINGS, REFER TO MECHANICAL DRAWINGS
- MECHANICAL 1x1 RETURN AIR DEVICE, COORDINATE WITH MECHANICAL DRAWINGS
- ACT-1 1'-0" — CEILING TAG. TOP LINE INDICATES CEILING TYPE. BOTTOM LINE INDICATES CEILING HEIGHT
- SD — SMOKE DETECTOR LED PLATE - REFER TO M.E.P. DRAWINGS
- EXIT SIGN - REFER TO ELECTRICAL DRAWINGS
- RADIANT PANEL - SEE MECHANICAL DRAWINGS
- SH-1 — MANUAL SHADE
- SH-1A — MOTORIZED SHADE

KEYNOTE - CEILING PLAN P4

1	NO CEILING IN THIS ROOM OR AREA
7	HOLD CEILING GRID 2" FROM WALL TO ALLOW FOR RETURN AIR. SEE MECHANICAL DRAWINGS
8	NO CEILING BEHIND MODULAR EQUIPMENT WALL, SEE EQUIPMENT DRAWINGS
9	SUSPENDED LINEAR LIGHT FIXTURE; CENTERED
10	CEILING SLOPED THIS ROOM, HIGH POINT IS AT SIDE ADJACENT TO EXTERIOR WALL AT 12'-0" AFF
11	CEILING TRANSITION ABOVE CABINET; REFER TO DETAIL 10/AI-692
12	6" WIDE METAL CEILING PANEL; REFER TO DETAIL 18/AI-692
13	NO CEILING / EXPOSED CONCRETE STRUCTURE - PAINT BRIGHT WHITE
15	SMOKE CURTAIN AT ELEVATOR DOOR
17	CEILING HEIGHT TRANSITION. CEILING TYPES AS INDICATED, REFER TO TYPICAL CEILING DETAILS
24	PROJECTOR EQUIPMENT. SEE DETAILS ON DRWG. AI-691
25	LOCATION OF SAFETY SHOWER BELOW CEILING
27	CEILING ACCESS PANEL. 24" x 24"
29	PROJECTOR SCREEN. SEE DETAIL ON DRWG. AI-691
32	NEW CEILING TO ALIGN WITH EXISTING
33	ALIGN GRID TO ADJACENT
34	COORDINATE ITEMS TO REMOVE FOR NEW WORK AFTER BUCK HOIST REMOVAL. REMOVE TEMPORARY WALL AND ACOUSTIC TILE CEILING GRID SYSTEM FOR NEW WORK
35	STAINLESS STEEL UNISTRUT TRACK AND TROLLEY SYSTEM MOUNTED AND SUSPENDED FROM CEILING WITH FRT WD. BLOCKING; CENTER STRUT TO BE MOVABLE ACROSS ROOM



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MICHAEL J. BATTY CLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

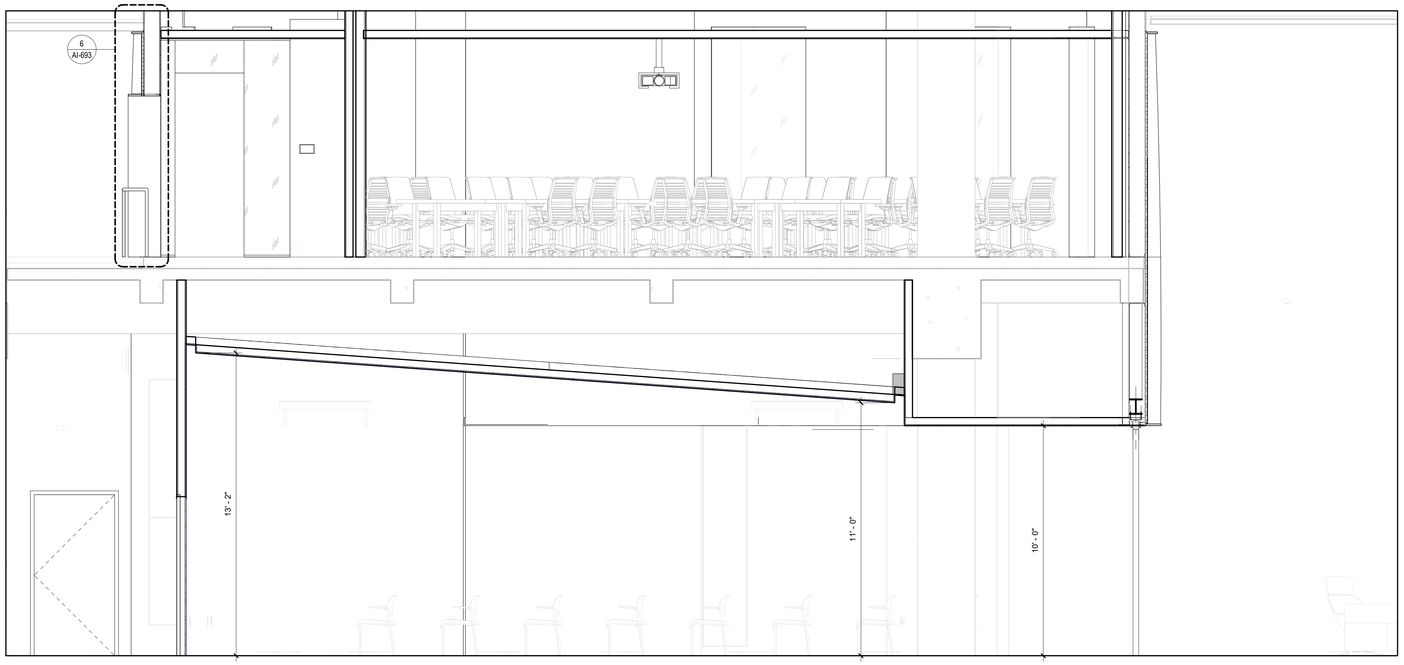
DRAWING TITLE

RCP - LOWER LEVEL - IMAGING SUITE

SHEET NO.

AI-430

1/11/2021 4:57:26 PM



3 AI-431 **BUILDING SECTION - CONFERENCE AND SEMINAR ROOMS**
3/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- GYP BD-1 GYPSUM BOARD CEILING, SOFFIT, OR BULKHEAD
- GYP BD-3 GYPSUM BOARD CEILING, SOFFIT, OR BULKHEAD - 5/8" GYPSUM BOARD ON FRAMED SYSTEM
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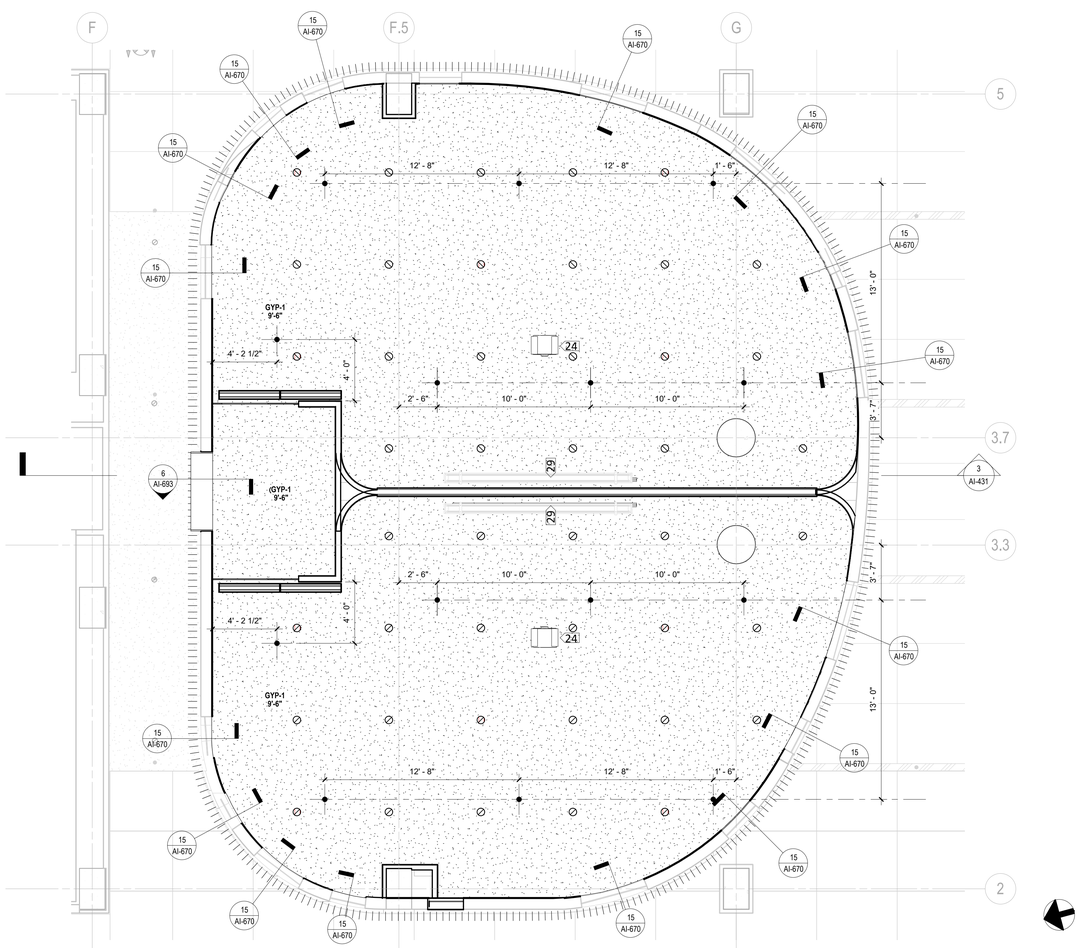
- DECORATIVE RECESSED DIMABLE DOWNLIGHT FIXTURE; REFER TO ELECTRICAL DRAWINGS
- SURFACE MOUNTED PENDANT LIGHT FIXTURE PER ELECTRICAL DRAWINGS
- WALL MOUNTED LIGHT SCONCE PER ELECTRICAL DRAWINGS, TYP. MOUNTING HEIGHT SHALL BE 6'-6" U.N.O.
- BATHROOM WALL MOUNTED LIGHT SCONCE PER ELECTRICAL DRAWINGS, TYP. MOUNTING HEIGHT SHALL BE X'-X" U.N.O.
- SPRINKLER HEAD - COORDINATE WITH FIRE SUPPRESSION DRAWINGS
- MECHANICAL SUPPLY AIR DEVICE, SIZE AS INDICATED ON DRAWINGS, REFER TO MECHANICAL DRAWINGS
- MECHANICAL 1x1 RETURN AIR DEVICE, COORDINATE WITH MECHANICAL DRAWINGS
- ACT-1 1'-0" — CEILING TAG. TOP LINE INDICATES CEILING TYPE. BOTTOM LINE INDICATES CEILING HEIGHT
- SD — SMOKE DETECTOR LED PLATE - REFER TO M.E.P. DRAWINGS
- EXIT SIGN - REFER TO ELECTRICAL DRAWINGS
- RADIANT PANEL - SEE MECHANICAL DRAWINGS
- SH-1 — MANUAL SHADE
- SH-1A — MOTORIZED SHADE

REFLECTED CEILING PLAN GENERAL NOTES

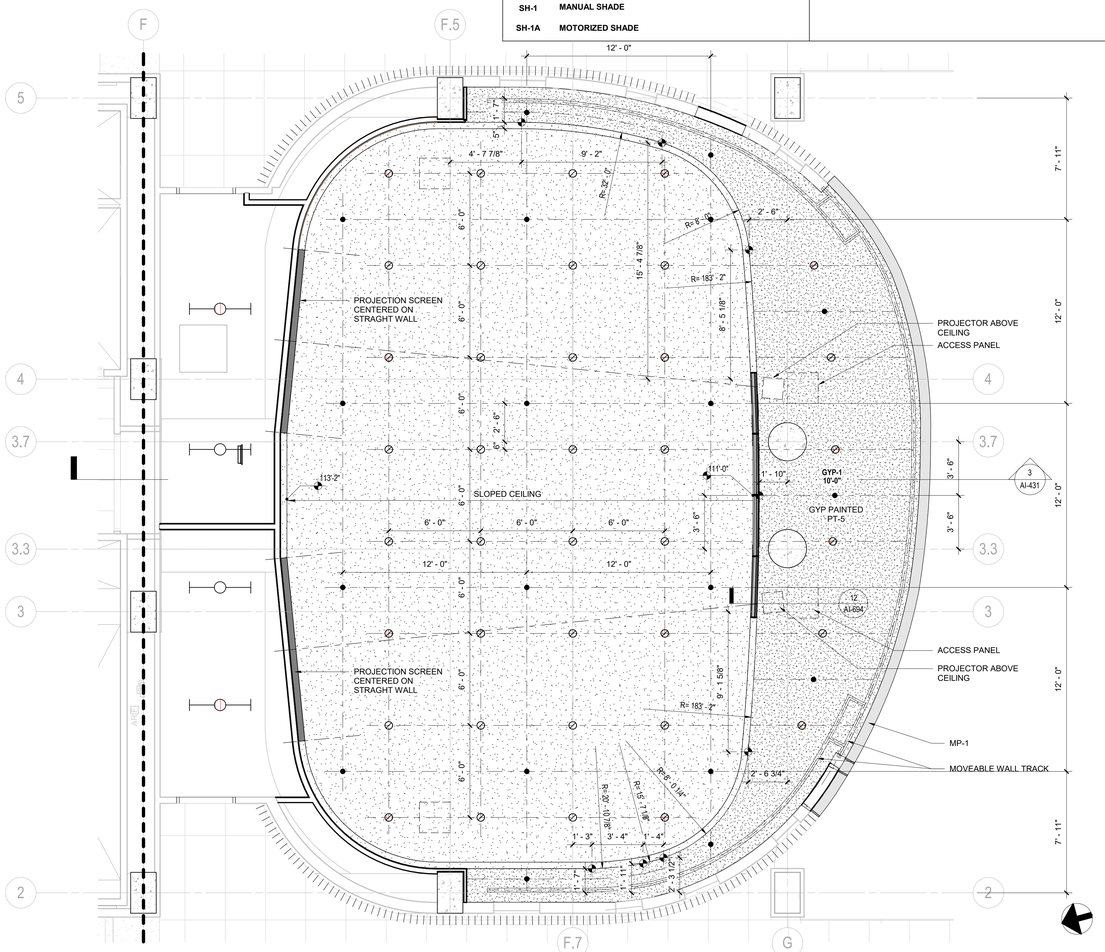
1. COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR DEVICES, TYPES, AND INSTALLATION. INFORM ARCHITECT OF ANY INCONSISTENCIES FOUND IN DRAWINGS OR SPECIFICATIONS.
2. HIGH SIDE OF SLOPED CEILINGS IS ADJACENT TO BUILDING EXTERIOR WALL. SEE KEYNOTES FOR HIGH AND LOW POINT DIMENSIONS AND/OR ANGLE OF CEILING.
3. CEILING TYPES AND HEIGHTS ARE INDICATED ON R.C.P. - INFORM ARCHITECT OF ANY MISSING CEILING TYPE AND HEIGHT DATA.
4. SOFFITS OVER CASEWORK SHALL BE 7'-2" U.N.O.
5. DEVICES (RECESSSED LIGHTS, EXIT SIGNS, ELECTRICAL AND MECHANICAL DEVICES, SPRINKLER HEADS, ETC) ARE TO BE CENTERED ON CEILING TILES U.N.O.
6. CONTRACTOR SHALL PROVIDE AND COORDINATE ACCESS PANELS FOR DEVICES REQUIRING ACCESS IN NON-ACCESSIBLE CEILINGS.
7. PATCH OR REPAIR EXISTING CONSTRUCTION TO REMAIN WHERE DAMAGED OR DISTURBED DURING NEW CONSTRUCTION.
8. PROVIDE WINDOW SHADE AT ALL EXTERIOR GLAZING UNLESS NOTED OTHERWISE
9. PROVIDE SMOKE CURTAINS AT ELEVATOR DOORS.
10. SEE TYPICAL CEILING HEIGHT TRANSITIONS 10 / AI-654
11. SEE TYPICAL CEILING EDGE CLOSURE 11 / AI-654 - DETAIL OCCURS AT BUILDING EXTERIOR WALLS WHERE SHOWN ON RCP
12. SEE TYPICAL OFFICE CEILING CONDITIONS 4 / AI-402B U.N.O.

KEYNOTE - CEILING PLAN P4

1	NO CEILING IN THIS ROOM OR AREA
7	HOLD CEILING GRID 2" FROM WALL TO ALLOW FOR RETURN AIR. SEE MECHANICAL DRAWINGS
8	NO CEILING BEHIND MODULAR EQUIPMENT WALL, SEE EQUIPMENT DRAWINGS
9	SUSPENDED LINEAR LIGHT FIXTURE; CENTERED
10	CEILING SLOPED THIS ROOM. HIGH POINT IS AT SIDE ADJACENT TO EXTERIOR WALL AT 12'-0" AFF
11	CEILING TRANSITION ABOVE CABINET; REFER TO DETAIL 10/AI-692
12	6" WIDE METAL CEILING PANEL; REFER TO DETAIL 18/AI-692
13	NO CEILING / EXPOSED CONCRETE STRUCTURE - PAINT BRIGHT WHITE
15	SMOKE CURTAIN AT ELEVATOR DOOR
17	CEILING HEIGHT TRANSITION, CEILING TYPES AS INDICATED, REFER TO TYPICAL CEILING DETAILS
24	PROJECTOR EQUIPMENT. SEE DETAILS ON DRWG. AI-691
25	LOCATION OF SAFETY SHOWER BELOW CEILING
27	CEILING ACCESS PANEL. 24" x 24"
29	PROJECTOR SCREEN. SEE DETAIL ON DRWG. AI-691
32	NEW CEILING TO ALIGN WITH EXISTING
33	ALIGN GRID TO ADJACENT
34	COORDINATE ITEMS TO REMOVE FOR NEW WORK AFTER BUCK HOIST REMOVAL. REMOVE TEMPORARY WALL AND ACOUSTIC TILE CEILING GRID SYSTEM FOR NEW WORK
35	STAINLESS STEEL UNISTRUT TRACK AND TROLLEY SYSTEM MOUNTED AND SUSPENDED FROM CEILING WITH FRT WD. BLOCKING; CENTER STRUT TO BE MOVABLE ACROSS ROOM



2 AI-431 **REFLECTED CEILING PLAN - LEVEL 02 - CONFERENCE ROOMS**
1/4" = 1'-0"



1 AI-431 **REFLECTED CEILING PLAN - LEVEL 01 - SEMINAR ROOM**
1/4" = 1'-0"

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JACOBS Consultancy

AEI Affiliated Engineers

CMTA

HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTOCLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY PROFESSIONAL ENGINEER

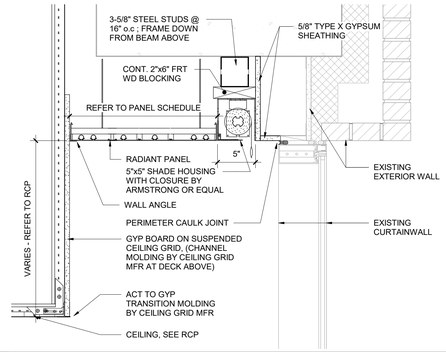
DRAWING TITLE

RCP - LEVEL ONE & TWO

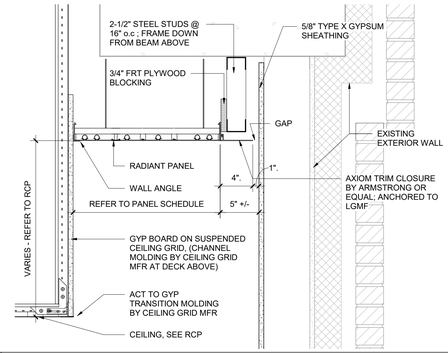
SHEET NO.

AI-431

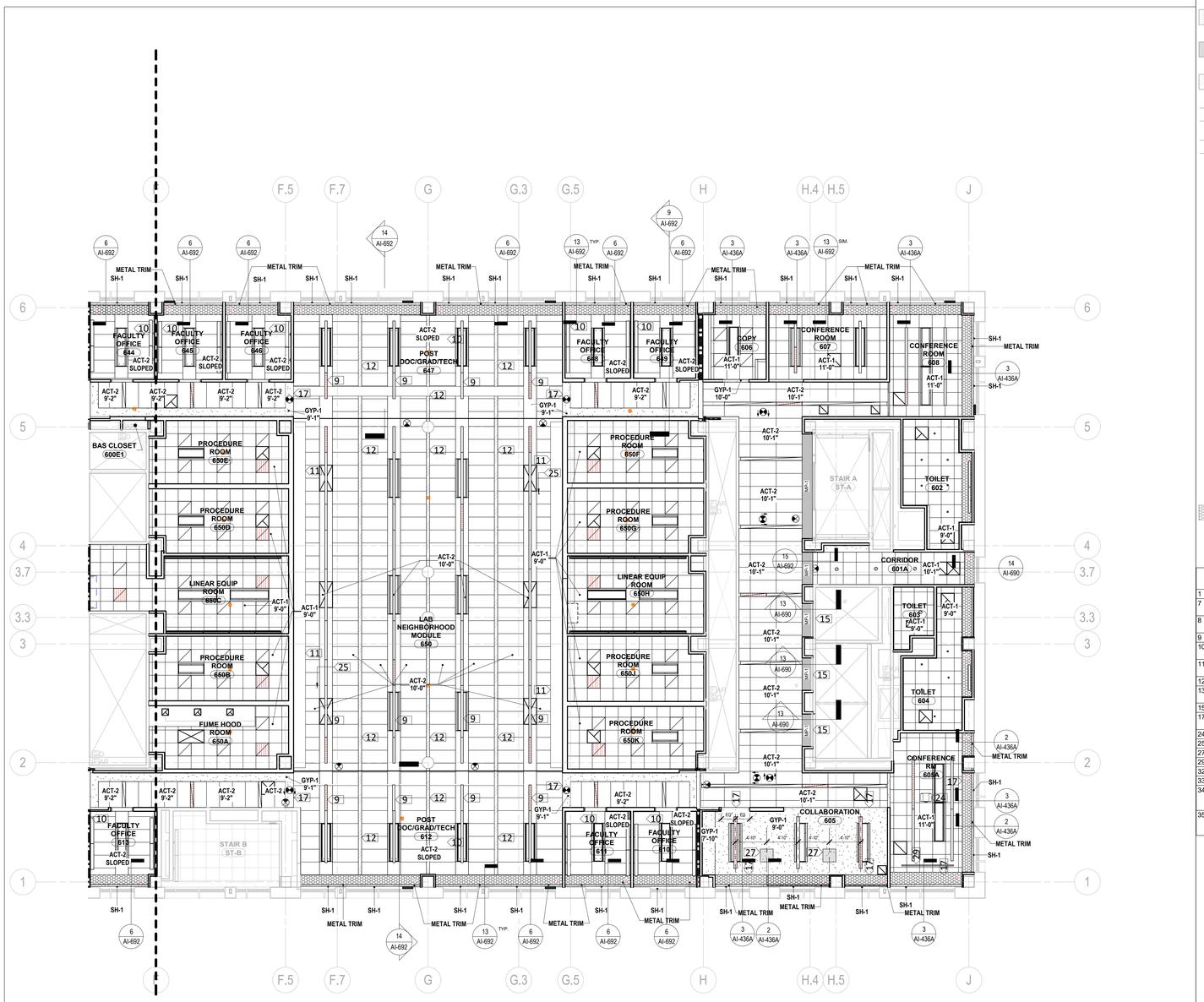
1/11/2021 4:59:15 PM



3 AI-436A **SECTION DETAIL**
1 1/2" = 1'-0"



2 AI-436A **SECTION DETAIL**
1 1/2" = 1'-0"



1 AI-436A **REFLECTED CEILING PLAN - LEVEL 06 - AREA 'A'**
1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

1. COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR DEVICES, TYPES, AND INSTALLATION. INFORM ARCHITECT OF ANY INCONSISTENCIES FOUND IN DRAWINGS OR SPECIFICATIONS.
2. HIGH SIDE OF SLOPED CEILINGS IS ADJACENT TO BUILDING EXTERIOR WALL. SEE KEYNOTES FOR HIGH AND LOW POINT DIMENSIONS AND/OR ANGLE OF CEILING.
3. CEILING TYPES AND HEIGHTS ARE INDICATED ON R.C.P. - INFORM ARCHITECT OF ANY MISSING CEILING TYPE AND HEIGHT DATA.
4. SOFFITS OVER CASEWORK SHALL BE 7'-2" U.N.O.
5. DEVICES (RECESSSED LIGHTS, EXIT SIGNS, ELECTRICAL AND MECHANICAL DEVICES, SPRINKLER HEADS, ETC) ARE TO BE CENTERED ON CEILING TILES U.N.O.
6. CONTRACTOR SHALL PROVIDE AND COORDINATE ACCESS PANELS FOR DEVICES REQUIRING ACCESS IN NON-ACCESSIBLE CEILINGS.
7. PATCH OR REPAIR EXISTING CONSTRUCTION TO REMAIN WHERE DAMAGED OR DISTURBED DURING NEW CONSTRUCTION.
8. PROVIDE WINDOW SHADE AT ALL EXTERIOR GLAZING UNLESS NOTED OTHERWISE
9. PROVIDE SMOKE CURTAINS AT ELEVATOR DOORS.
10. SEE TYPICAL CEILING HEIGHT TRANSITIONS 10 / AI-654
11. SEE TYPICAL CEILING EDGE CLOSURE 11 / AI-654 - DETAIL OCCURS AT BUILDING EXTERIOR WALLS WHERE SHOWN ON RCP
12. SEE TYPICAL OFFICE CEILING CONDITIONS 4 / AI-402B U.N.O.

REFLECTED CEILING PLAN LEGEND

- GYP BD-1 GYPSUM BOARD CEILING, SOFFIT, OR BULKHEAD
- GYP BD-3 GYPSUM BOARD CEILING, SOFFIT, OR BULKHEAD - 5/8" GYPSUM BOARD ON FRAMED SYSTEM
- MP-1 METAL PANEL CEILING
- TBD - CEILING TO BE DECIDED
- STN-1 LIMESTONE SOFFIT
- 6" WIDE UTILITY STRIP WITH WHITE METAL CEILING PANEL INFILL
- 2X2 ACOUSTICAL CEILING PER SPECIFICATION. ACT-1 TYPICAL UNLESS NOTED OTHERWISE
- 2X4 ACCOUSTICAL CEILING PER SPECIFICATION. ACT-2 TYPICAL UNLESS NOTED OTHERWISE
- 2x4 LIGHT FIXTURE PER ELECTRICAL DRAWINGS
- 2x2 LIGHT FIXTURE PER ELECTRICAL DRAWINGS
- RECESSED DIMABLE INCANDESCENT OR FLUORESCENT DOWNLIGHT FIXTURE; REFER TO ELECTRICAL DRAWINGS
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- SURFACE MOUNTED PENDANT LIGHT FIXTURE PER ELECTRICAL DRAWINGS
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- BATHROOM WALL MOUNTED LIGHT SCONCE PER ELECTRICAL DRAWINGS, TYP. MOUNTING HEIGHT SHALL BE X'-X" U.N.O.
- SPRINKLER HEAD - COORDINATE WITH FIRE SUPPRESSION DRAWINGS
- MECHANICAL SUPPLY AIR DEVICE, SIZE AS INDICATED ON DRAWINGS, REFER TO MECHANICAL DRAWINGS
- MECHANICAL 1x1 RETURN AIR DEVICE, COORDINATE WITH MECHANICAL DRAWINGS
- ACT-1 1'-0" — CEILING TAG. TOP LINE INDICATES CEILING TYPE. BOTTOM LINE INDICATES CEILING HEIGHT
- SD — SMOKE DETECTOR LED PLATE - REFER TO M.E.P. DRAWINGS
- EXIT SIGN - REFER TO ELECTRICAL DRAWINGS
- RADIANT PANEL - SEE MECHANICAL DRAWINGS
- SH-1 — MANUAL SHADE
- SH-1A — MOTORIZED SHADE

KEYNOTE - CEILING PLAN P4

1	NO CEILING IN THIS ROOM OR AREA
7	HOLD CEILING GRID 2" FROM WALL TO ALLOW FOR RETURN AIR. SEE MECHANICAL DRAWINGS
8	NO CEILING BEHIND MODULAR EQUIPMENT WALL, SEE EQUIPMENT DRAWINGS
9	SUSPENDED LINEAR LIGHT FIXTURE; CENTERED
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12	6" WIDE METAL CEILING PANEL; REFER TO DETAIL 18/AI-692
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24	PROJECTOR EQUIPMENT. SEE DETAILS ON DRWG. AI-691
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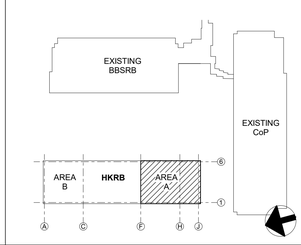

KEY PLAN
NTS

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760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

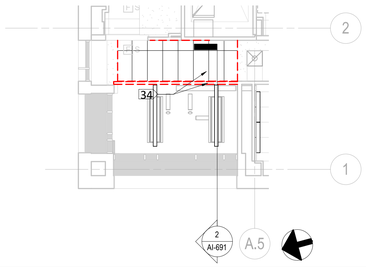
Drawn By
Author
Checked By
Checker
Client Number 514
Project Number P4-5350

MICHAEL J. BATTY SOCIETY REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY PROFESSIONAL ENGINEER

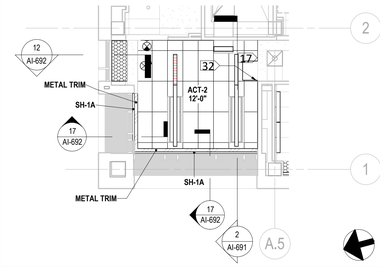
DRAWING TITLE
RCP - LEVEL SIX - AREA A

SHEET NO.
AI-436A

1/11/2021 5:00:08 PM



3 AI-436B **DEMOLITION - RCP - LEVEL 04**
1/8" = 1'-0"



2 AI-436B **REFLECTED CEILING PLAN - LEVEL 04 - P4**
1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

1. COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR DEVICES, TYPES, AND INSTALLATION. INFORM ARCHITECT OF ANY INCONSISTENCIES FOUND IN DRAWINGS OR SPECIFICATIONS.
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8. PROVIDE WINDOW SHADE AT ALL EXTERIOR GLAZING UNLESS NOTED OTHERWISE
9. PROVIDE SMOKE CURTAINS AT ELEVATOR DOORS.
10. SEE TYPICAL CEILING HEIGHT TRANSITIONS 10 / AI-654
11. SEE TYPICAL CEILING EDGE CLOSURE 11 / AI-654 - DETAIL OCCURS AT BUILDING EXTERIOR WALLS WHERE SHOWN ON RCP
12. SEE TYPICAL OFFICE CEILING CONDITIONS 4 / AI-402B U.N.O.

REFLECTED CEILING PLAN LEGEND

- GYP BD-1 GYPSUM BOARD CEILING, SOFFIT, OR BULKHEAD
- GYP BD-3 GYPSUM BOARD CEILING, SOFFIT, OR BULKHEAD - 5/8" GYPSUM BOARD ON FRAMED SYSTEM
- MP-1 METAL PANEL CEILING
- TBD - CEILING TO BE DECIDED
- STN-1 LIMESTONE SOFFIT
- 6" WIDE UTILITY STRIP WITH WHITE METAL CEILING PANEL INFILL
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- 2X4 ACCOUSTICAL CEILING PER SPECIFICATION. ACT-2 TYPICAL UNLESS NOTED OTHERWISE
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- DECORATIVE RECESSED DIMABLE DOWNLIGHT FIXTURE; REFER TO ELECTRICAL DRAWINGS
- SURFACE MOUNTED PENDANT LIGHT FIXTURE PER ELECTRICAL DRAWINGS
- WALL MOUNTED LIGHT SCONCE PER ELECTRICAL DRAWINGS, TYP. MOUNTING HEIGHT SHALL BE 6'-6" U.N.O.
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- ACT-1 1'-0" — CEILING TAG. TOP LINE INDICATES CEILING TYPE. BOTTOM LINE INDICATES CEILING HEIGHT
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- EXIT SIGN - REFER TO ELECTRICAL DRAWINGS
- RADIANT PANEL - SEE MECHANICAL DRAWINGS
- SH-1 — MANUAL SHADE
- SH-1A — MOTORIZED SHADE

KEYNOTE - CEILING PLAN P4

1	NO CEILING IN THIS ROOM OR AREA
7	HOLD CEILING GRID 2" FROM WALL TO ALLOW FOR RETURN AIR. SEE MECHANICAL DRAWINGS
8	NO CEILING BEHIND MODULAR EQUIPMENT WALL, SEE EQUIPMENT DRAWINGS
9	SUSPENDED LINEAR LIGHT FIXTURE; CENTERED
10	CEILING SLOPED THIS ROOM, HIGH POINT IS AT SIDE ADJACENT TO EXTERIOR WALL AT 12'-0" AFF
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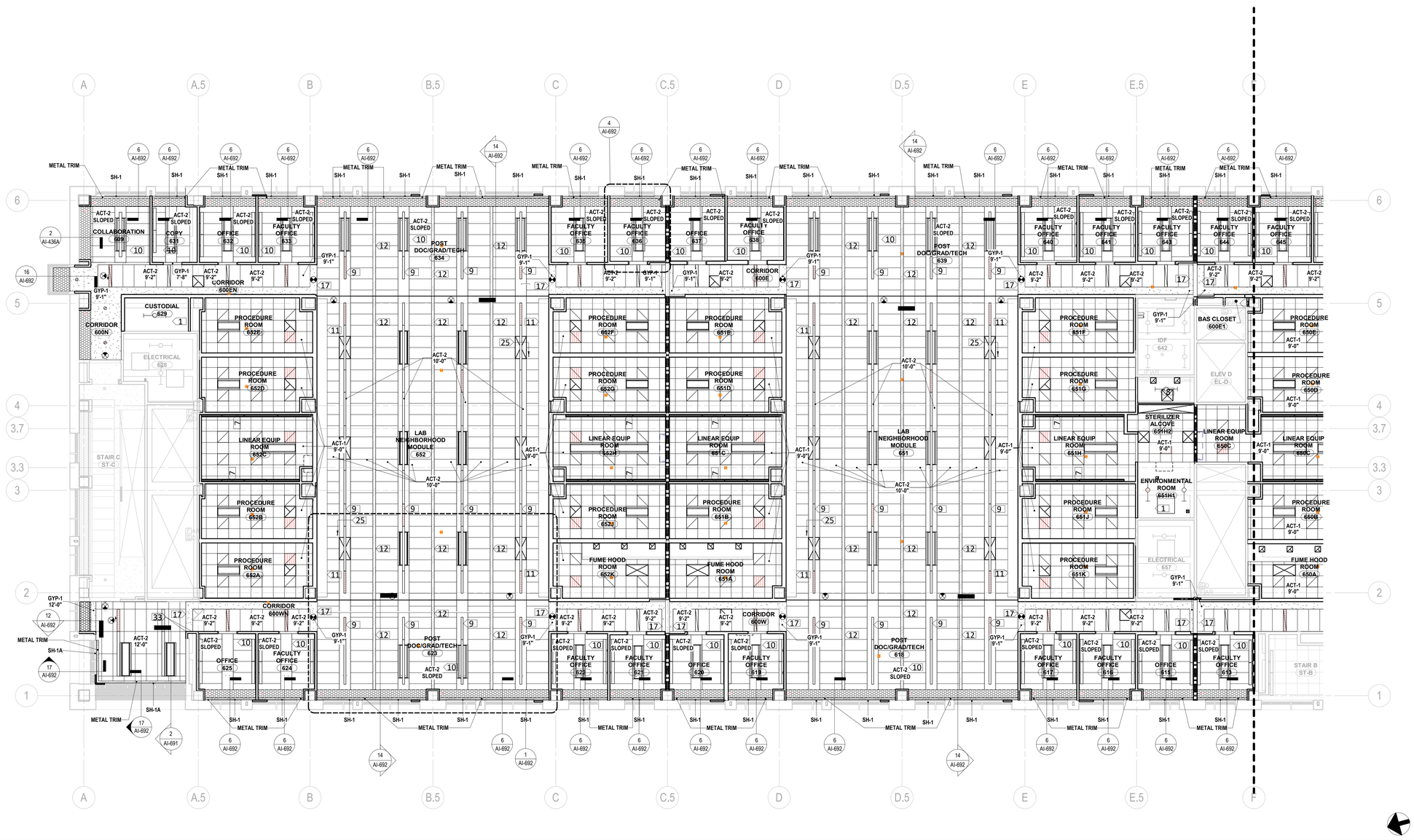
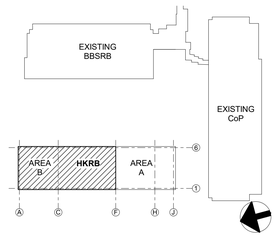


1 AI-436B **REFLECTED CEILING PLAN - LEVEL 06 - AREA 'B'**
1/8" = 1'-0"

KEY PLAN

NTS



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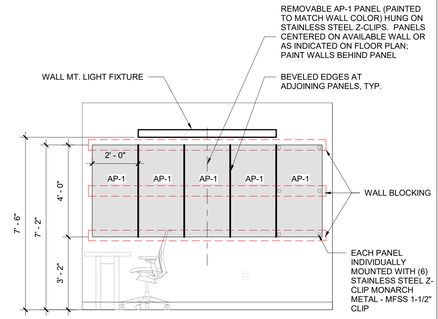
Drawn By
Author
Checked By
Checker
Client Number 514
Project Number P4-5350

MICHAEL J. BATTICHETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE
RCP - LEVEL SIX - AREA B & PARTIAL LEVEL FOUR

SHEET NO.
AI-436B

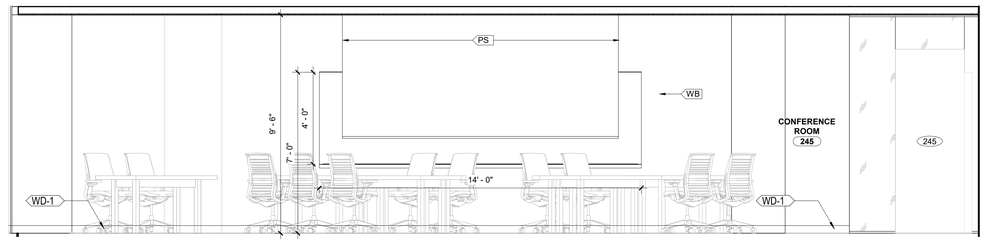
1/11/2021 5:00:58 PM



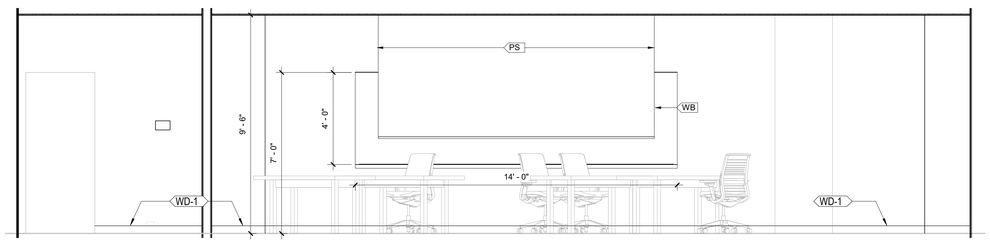
3 AI-680 **BEHAVIOR - TYP. REMOVABLE SOUND PANEL**
3/8" = 1'-0"

ACCESSORIES LEGEND PHASE 4

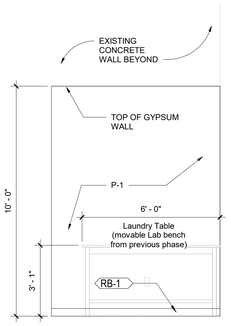
BCS	BABY CHANGING STATION
CG	CORNER GUARD; REFER TO AI-697
CR	CARD READER
DF-1	ACCESSIBLE DRINKING FOUNTAIN
FBS	FRP BACKSPLASH
FEC-1	RECESSED FIRE EXTINGUISHER CABINET
FEC-2	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
FEC-3	BRACKET MOUNTED FIRE EXTINGUISHER
GB-1	REAR WALL GRAB BAR
GB-2	SIDE WALL GRAB BAR
GB-3	VERTICAL GRAB BAR
JG	JAMB GUARD; REFER TO AI-697
LAV	LAVATORY
MR-1	2'-0" x 3'-0" MIRROR
MR-2	5'-0" x 4'-0" MIRROR
MR-3	7'-0" x 4'-0" MIRROR
MR-4	9'-0" x 4'-0" MIRROR
MR-5	6'-0" x 4'-0" MIRROR
MS	MOP SINK AND MOP RACK
ND-1	RECESSED SANITARY NAPKIN DISPOSAL
ND-2	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL
PD	PAPER TOWEL DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED)
PS	PROJECTOR SCREEN
RR	RECYCLING RECEPTACLE, OWNER PROVIDED
RS	DIGITAL ROOM SCHEDULING SCREEN
SD	SURFACE MOUNTED SOAP DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED) W/ CUTOUT IN MIRROR. REFER TO AG-021 FOR CUTOUT DIMENSIONS.
SG	STORAGE ADJUSTABLE SHELVING
SH	SHELF
SR-3	60" x 36" SHOWER
TD	TOILET PAPER DISPENSER
TP	TOILET PARTITION
TV	WALL MOUNTED FLAT SCREEN MONITOR
UP	URINAL PARTITION
UR-1	URINAL
UR-2	ACCESSIBLE URINAL
WB	WHITE BOARD
WC-1	WATER CLOSET
WC-2	ACCESSIBLE WATER CLOSET
WG	WALL PROTECTION SYSTEM
WR	WASTE RECEPTACLE



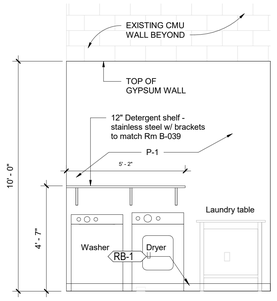
4 AI-680 **LEVEL 02 - CONFERENCE ROOM 245 - WEST ELEVATION**
3/8" = 1'-0"



5 AI-680 **CONFERENCE ROOM 246 - EAST ELEVATION**
3/8" = 1'-0"



1 AI-680 **LAUNDRY 002 NORTH ELEVATION**
3/8" = 1'-0"



2 AI-680 **LAUNDRY 002 WEST ELEVATION**
3/8" = 1'-0"

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UK Project Number 2552.0

ISSUANCES

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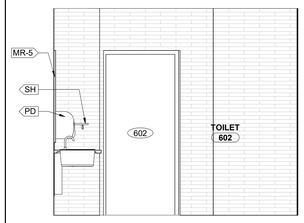
Drawn By Author
Checked By Checker
Client Number 514
Project Number P4-5350

MICHAEL J. BATTCOMBE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

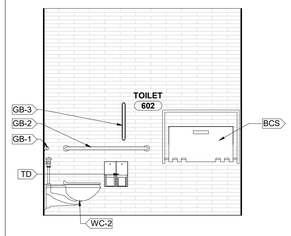
DRAWING TITLE
INTERIOR ELEVATIONS - LOWER LEVEL, LEVELS ONE & TWO

SHEET NO.
AI-680

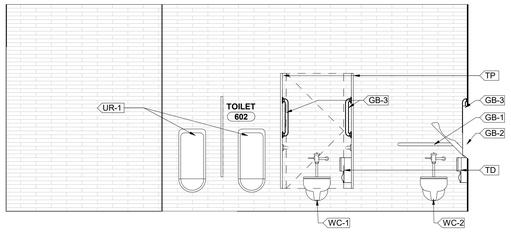
1/11/2021 5:01:38 PM



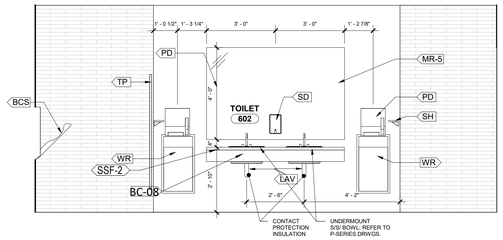
12 | AI-681 | **TOILET 602 - WEST ELEVATION** | 3/8" = 1'-0"



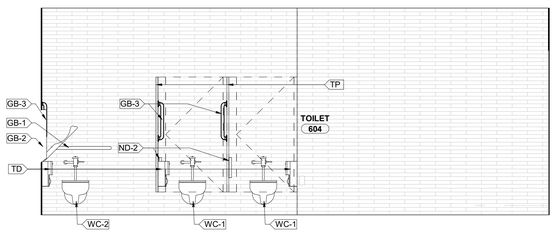
10 | AI-681 | **TOILET 602 - EAST ELEVATION** | 3/8" = 1'-0"



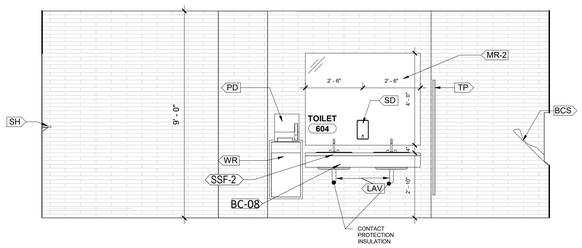
6 | AI-681 | **TOILET 602 - NORTH ELEVATION** | 3/8" = 1'-0"



1 | AI-681 | **TOILET 602 - SOUTH ELEVATION** | 3/8" = 1'-0"

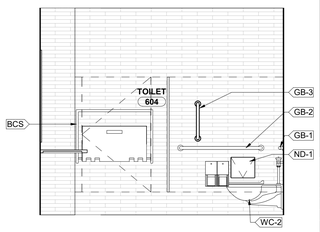


11 | AI-681 | **TOILET 604 - NORTH ELEVATION** | 3/8" = 1'-0"

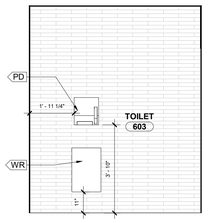


7 | AI-681 | **TOILET 604 - SOUTH ELEVATION** | 3/8" = 1'-0"

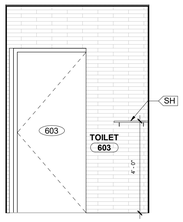
3 | AI-681 | **TOILET 604 - EAST ELEVATION** | 3/8" = 1'-0"



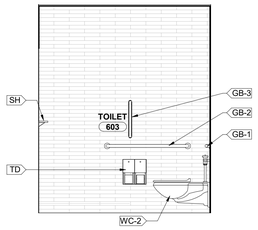
2 | AI-681 | **TOILET 604 - WEST ELEVATION** | 3/8" = 1'-0"



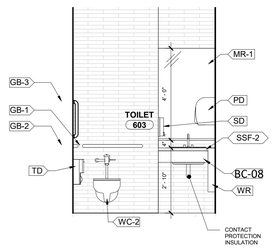
9 | AI-681 | **ADA TOILET 603 - NORTH ELEVATION** | 3/8" = 1'-0"



8 | AI-681 | **ADA TOILET 603 - EAST ELEVATION** | 3/8" = 1'-0"



5 | AI-681 | **ADA TOILET 603 - SOUTH ELEVATION** | 3/8" = 1'-0"



4 | AI-681 | **ADA TOILET 603 - WEST ELEVATION** | 3/8" = 1'-0"

ACCESSORIES LEGEND PHASE 4

BCS	BABY CHANGING STATION
CG	CORNER GUARD; REFER TO AI-697
CR	CARD READER
DF-1	ACCESSIBLE DRINKING FOUNTAIN
FBS	FRP BACKSPLASH
FEC-1	RECESSED FIRE EXTINGUISHER CABINET
FEC-2	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
FEC-3	BRACKET MOUNTED FIRE EXTINGUISHER
GB-1	REAR WALL GRAB BAR
GB-2	SIDE WALL GRAB BAR
GB-3	VERTICAL GRAB BAR
JG	JAMB GUARD; REFER TO AI-697
LAV	LAVATORY
MR-1	2'-0" x 3'-0" MIRROR
MR-2	5'-0" x 4'-0" MIRROR
MR-3	7'-6" x 4'-0" MIRROR
MR-4	9'-0" x 4'-0" MIRROR
MR-5	6'-0" x 4'-0" MIRROR
MS	MOP SINK AND MOP RACK
ND-1	RECESSED SANITARY NAPKIN DISPOSAL
ND-2	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL
PD	PAPER TOWEL DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED)
PS	PROJECTOR SCREEN
RR	RECYCLING RECEPTACLE, OWNER PROVIDED
RS	DIGITAL ROOM SCHEDULING SCREEN
SD	SURFACE MOUNTED SOAP DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED) W/ CUTOUT IN MIRROR. REFER TO AG-021 FOR CUTOUT DIMENSIONS.
SG	STORAGE ADJUSTABLE SHELVING
SH	SHELF
SR-3	60" x 36" SHOWER
TD	TOILET PAPER DISPENSER
TP	TOILET PARTITION
TV	WALL MOUNTED FLAT SCREEN MONITOR
UP	URINAL PARTITION
UR-1	URINAL
UR-2	ACCESSIBLE URINAL
WB	WHITE BOARD
WC-1	WATER CLOSET
WC-2	ACCESSIBLE WATER CLOSET
WG	WALL PROTECTION SYSTEM
WR	WASTE RECEPTACLE

CABINET LEGEND

BC-01	BASE CABINET FULL HT DOOR
BC-02	BASE CABINET TYPICAL
BC-03	BASE CABINET 3 DRAWER
BC-04	BASE CABINET 4 DRAWER
BC-05	BASE CABINET OPEN
BC-06	BASE CABINET PULLOUT TRASH RECYCLE
BC-07	BASE COUNTERTOP WORKSURFACE
BC-08	ADA SINK WITH APRON
BC-09	BASE CABINET WITH SINK
UC-01	WALL CABINET TYPICAL
UC-02	WALL CABINET COPY SHELVES
UC-03	WALL CABINET 18" HIGH
UC-04	WALL CABINET MAILROOM SHELVES
TC-01	TALL CABINET 1 MICROWAVE
TC-02	TALL CABINET 3 MICROWAVES
TC-03	TALL CABINET 3 MICROWAVES
TC-04	TALL CABINET 1 MICROWAVE WITH CLOSURE PANEL
TC-05	TALL CABINET 3 MICROWAVES WITH CLOSURE PANEL

GENERAL NOTES - CASEWORK

A. ALL BASE CABINETS TO BE PLAM-1, U.N.O.
B. ALL UPPER CABINETS TO BE PLAM-1, U.N.O.
C. ALL TALL CABINETS TO BE PLAM-1, U.N.O.
D. ALL CASEWORK DIMENSIONS TO BE FIELD VERIFIED.

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Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTOCLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

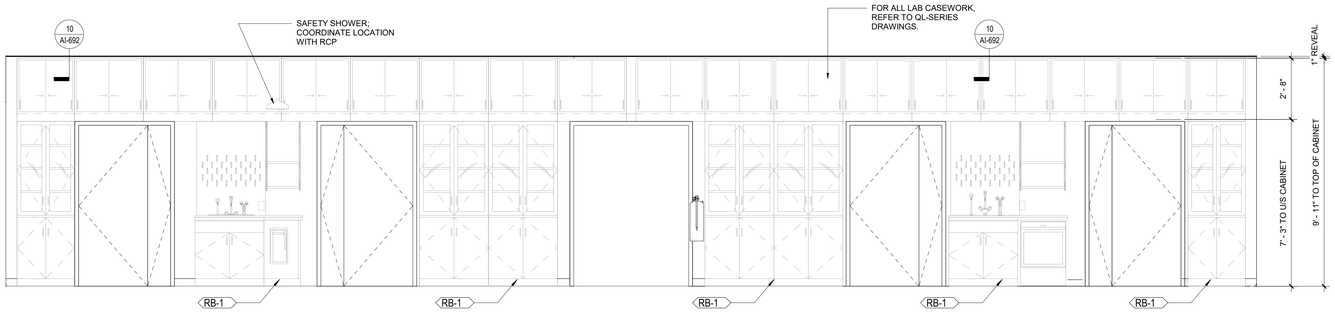
DRAWING TITLE

INTERIOR ELEVATIONS - LEVEL SIX TOILET ROOMS

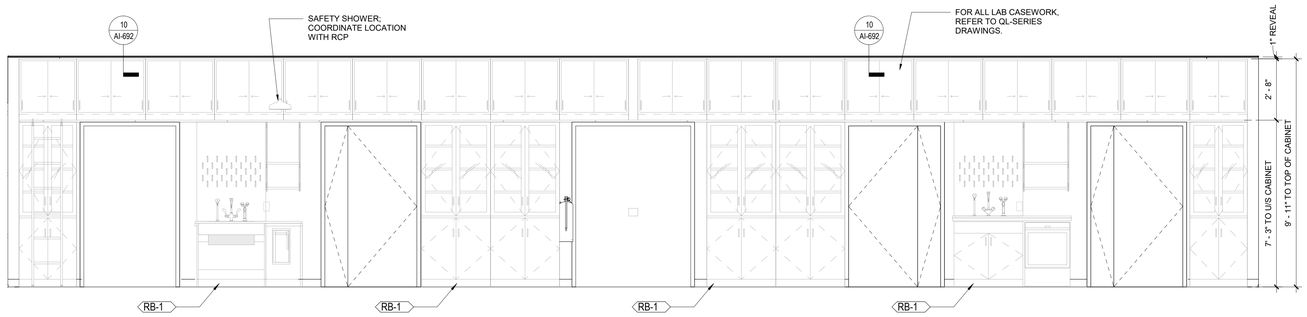
SHEET NO.

AI-681

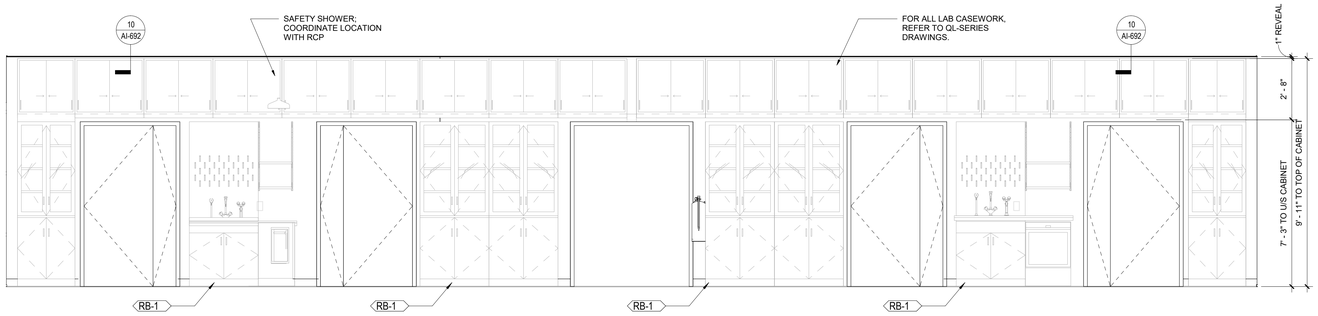
1/11/2021 5:02:42 PM



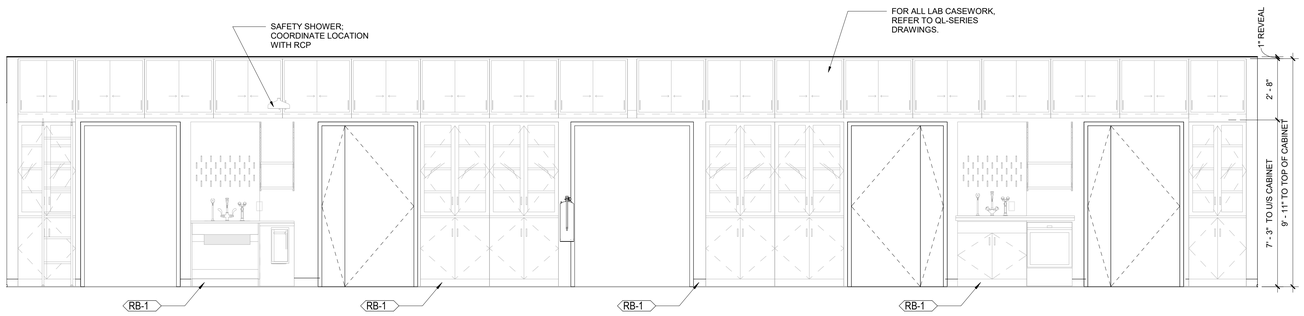
1 AI-682 **WET LAB 650 - SOUTH ELEVATION**
3/8" = 1'-0"



2 AI-682 **WET LAB 650 - NORTH ELEVATION**
3/8" = 1'-0"



3 AI-682 **WET LAB 651 - SOUTH ELEVATION**
3/8" = 1'-0"



4 AI-682 **WET LAB 651 - NORTH ELEVATION**
3/8" = 1'-0"

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Drawn By
Author
Checked By
Checker
Client Number
514
Project Number
P4-5350

MICHAEL J. BATTCOTTE
REGISTERED No. 6856
COMMONWEALTH OF KENTUCKY
ARCHITECT

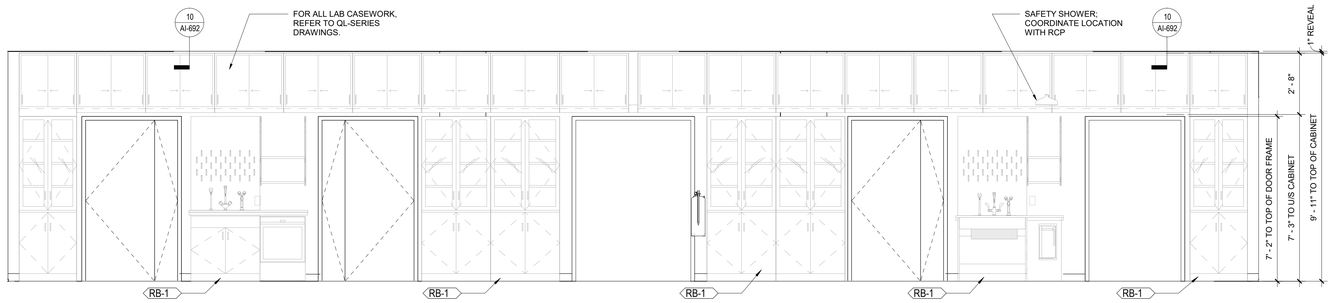
DRAWING TITLE

INTERIOR ELEVATIONS - WET LAB 650 & 651

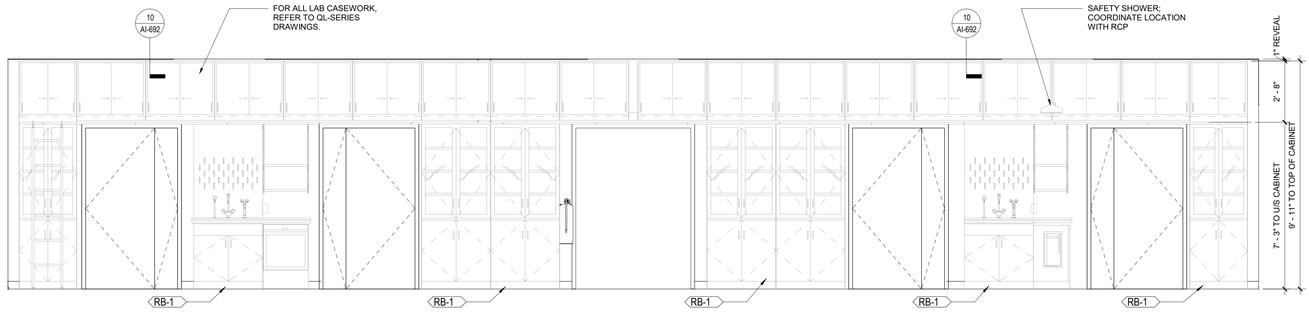
SHEET NO.

AI-682

1/11/2021 5:04:05 PM



1 AI-683 **WET LAB 652 - SOUTH ELEVATION**
3/8" = 1'-0"



2 AI-683 **WET LAB 652 - NORTH ELEVATION**
3/8" = 1'-0"

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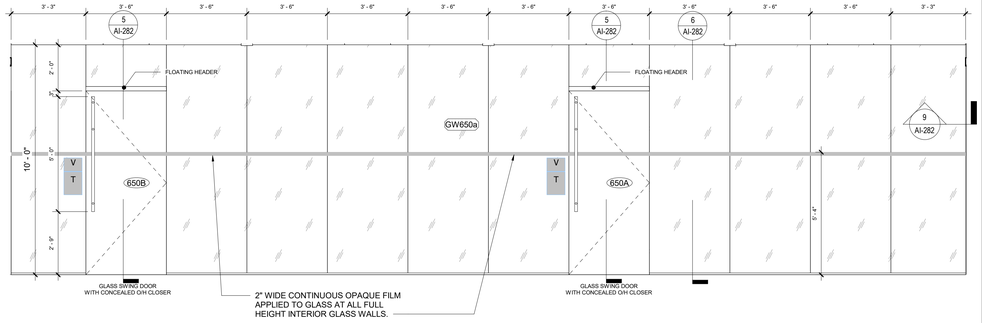
Drawn By Author
Checked By Checker
Client Number 514
Project Number P4-5350

MICHAEL J. BATTCOMBE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

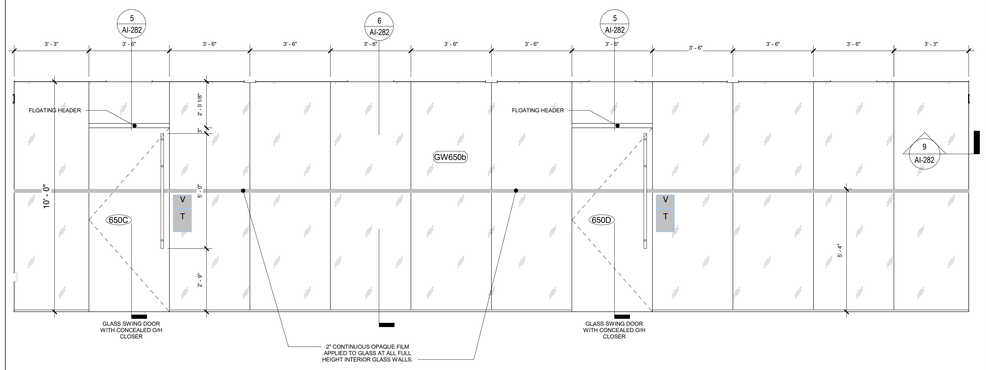
DRAWING TITLE
INTERIOR ELEVATIONS - WET LAB 652

SHEET NO.
AI-683

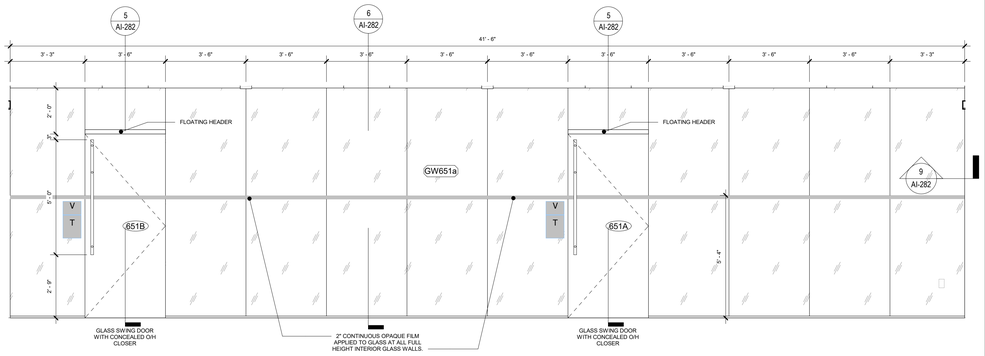
1/11/2021 5:04:33 PM



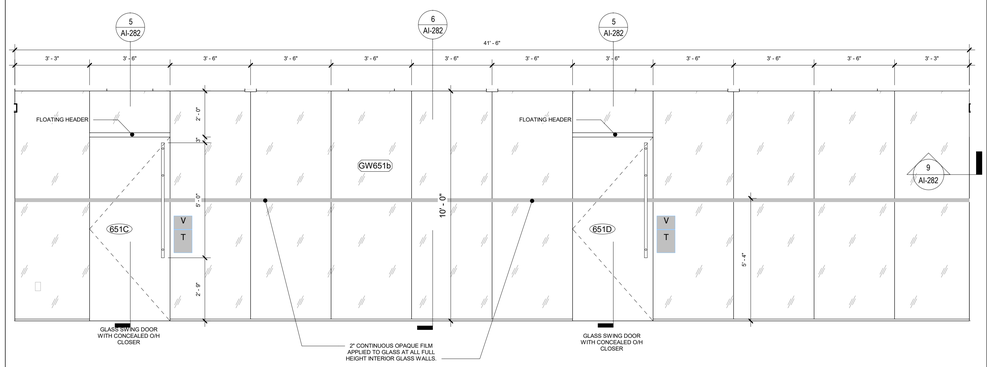
2 AI-684 **WETLAB 650 GLASS WALL EAST ELEVATION - GW650a**
3/8" = 1'-0"



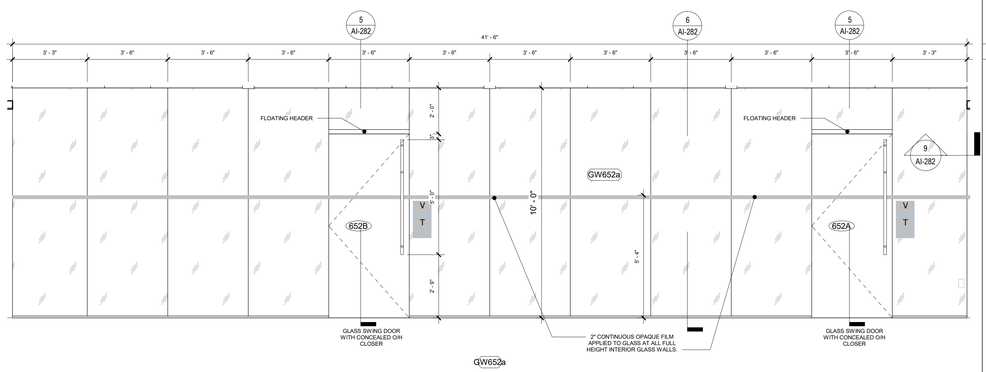
1 AI-684 **WETLAB 650 GLASS WALL WEST ELEVATION - GW650b**
3/8" = 1'-0"



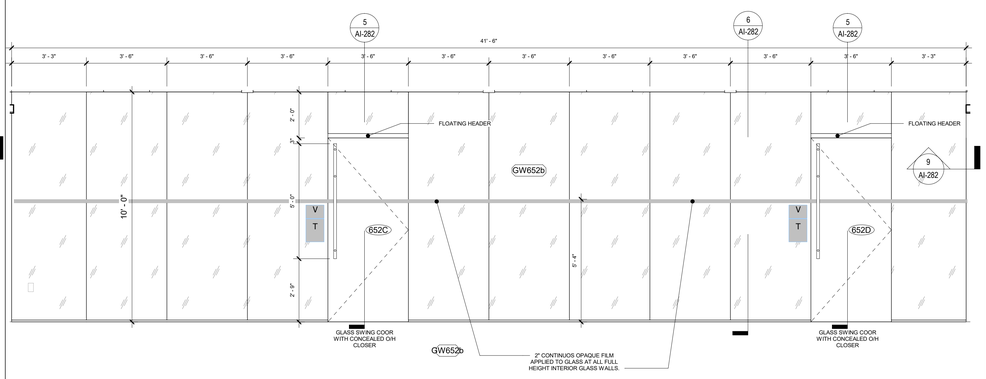
4 AI-684 **WETLAB 651 GLASS WALL EAST ELEVATION - GW651a**
3/8" = 1'-0"



3 AI-684 **WETLAB 651 GLASS WALL WEST ELEVATION - GW651b**
3/8" = 1'-0"



6 AI-684 **WETLAB 652 GLASS WALL EAST ELEVATION - GW652a**
3/8" = 1'-0"



5 AI-684 **WETLAB 652 GLASS WALL WEST ELEVATION - GW652b**
3/8" = 1'-0"

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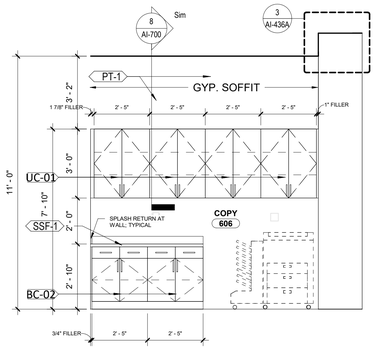
Checked By Checker
Client Number 514
Project Number P4-5350

MICHAEL J. BATTICOTTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

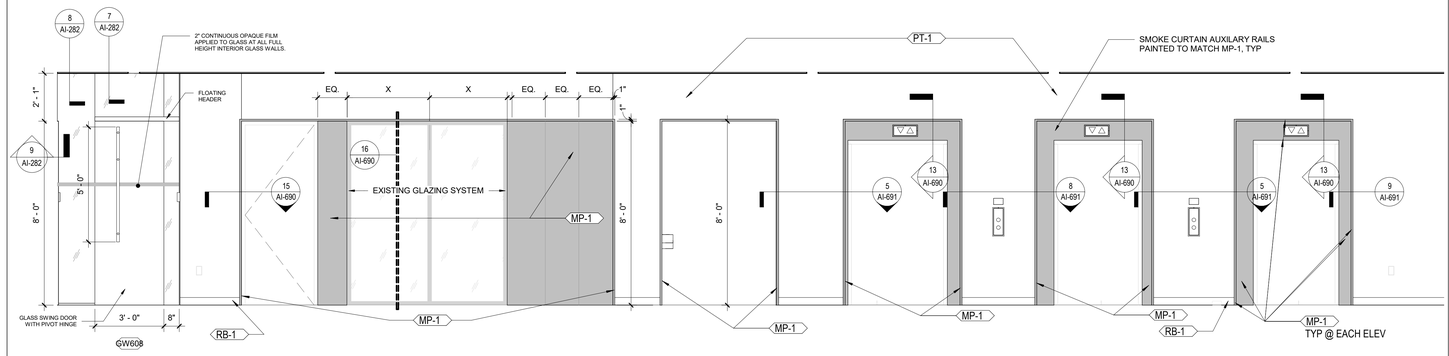
DRAWING TITLE
INTERIOR ELEVATIONS - GW 650 SERIES

SHEET NO.
AI-684

1/11/2021 5:05:08 PM



11 **COPY ROOM 606 - NORTH ELEVATION**
AI-685 3/8" = 1'-0"



1 **LOBBY 601 - SOUTH ELEVATION**
AI-685 3/8" = 1'-0"

ACCESSORIES LEGEND PHASE 4

BCS	BABY CHANGING STATION
CG	CORNER GUARD; REFER TO AI-697
CR	CARD READER
DF-1	ACCESSIBLE DRINKING FOUNTAIN
FBS	FRP BACKSPLASH
FEC-1	RECESSED FIRE EXTINGUISHER CABINET
FEC-2	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
FEC-3	BRACKET MOUNTED FIRE EXTINGUISHER
GB-1	REAR WALL GRAB BAR
GB-2	SIDE WALL GRAB BAR
GB-3	VERTICAL GRAB BAR
JG	JAMB GUARD; REFER TO AI-697
LAV	LAVATORY
MR-1	2'-0" x 3'-0" MIRROR
MR-2	5'-0" x 4'-0" MIRROR
MR-3	7'-6" x 4'-0" MIRROR
MR-4	9'-0" x 4'-0" MIRROR
MR-5	6'-0" x 4'-0" MIRROR
MS	MOP SINK AND MOP RACK
ND-1	RECESSED SANITARY NAPKIN DISPOSAL
ND-2	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL
PD	PAPER TOWEL DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED)
PS	PROJECTOR SCREEN
RR	RECYCLING RECEPTACLE, OWNER PROVIDED
RS	DIGITAL ROOM SCHEDULING SCREEN
SD	SURFACE MOUNTED SOAP DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED) W/ CUTOUT IN MIRROR. REFER TO AG-021 FOR CUTOUT DIMENSIONS.
SG	STORAGE ADJUSTABLE SHELVING
SH	SHELF
SR-3	60" x 36" SHOWER
TD	TOILET PAPER DISPENSER
TP	TOILET PARTITION
TV	WALL MOUNTED FLAT SCREEN MONITOR
UP	URINAL PARTITION
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UR-2	ACCESSIBLE URINAL
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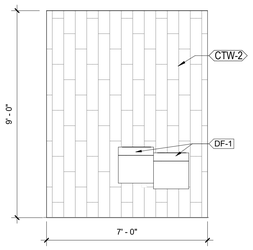
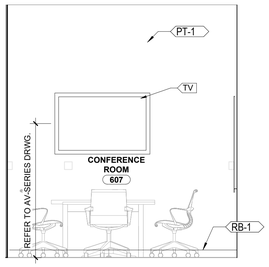
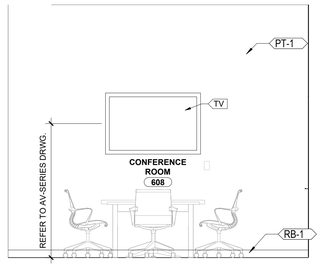
WC-1	WATER CLOSET
WC-2	ACCESSIBLE WATER CLOSET
WG	WALL PROTECTION SYSTEM
WR	WASTE RECEPTACLE



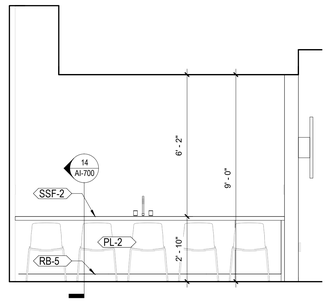
12 **CORRIDOR 601A - EAST ELEVATION**
AI-685 3/8" = 1'-0"



8 **CONFERENCE ROOM 607 - SOUTH ELEVATION**
AI-685 3/8" = 1'-0"



5 **CONFERENCE ROOM 608 - WEST ELEVATION**
AI-685 3/8" = 1'-0"



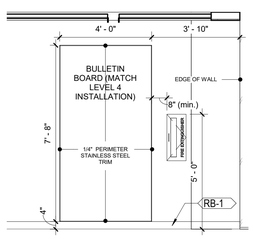
2 **COLLABORATION 605 - ISLAND SEATING**
AI-685 3/8" = 1'-0"

CABINET LEGEND

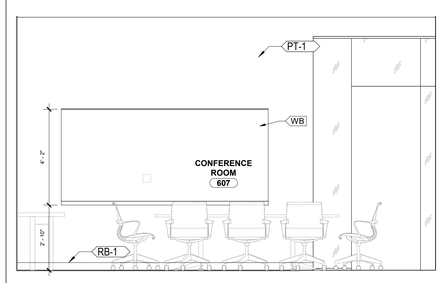
BC-01	BASE CABINET FULL HT DOOR
BC-02	BASE CABINET TYPICAL
BC-03	BASE CABINET 3 DRAWER
BC-04	BASE CABINET 4 DRAWER
BC-05	BASE CABINET OPEN
BC-06	BASE CABINET PULLOUT TRASH RECYCLE
BC-07	BASE COUNTERTOP WORKSURFACE
BC-08	ADA SINK WITH APRON
BC-09	BASE CABINET WITH SINK
UC-01	WALL CABINET TYPICAL
UC-02	WALL CABINET COPY SHELVES
UC-03	WALL CABINET 18" HIGH
UC-04	WALL CABINET MAILROOM SHELVES
TC-01	TALL CABINET 1 MICROWAVE
TC-02	TALL CABINET 3 MICROWAVES
TC-03	TALL CABINET 3 MICROWAVES
TC-04	TALL CABINET 1 MICROWAVE WITH CLOSURE PANEL
TC-05	TALL CABINET 3 MICROWAVES WITH CLOSURE PANEL

GENERAL NOTES - CASEWORK

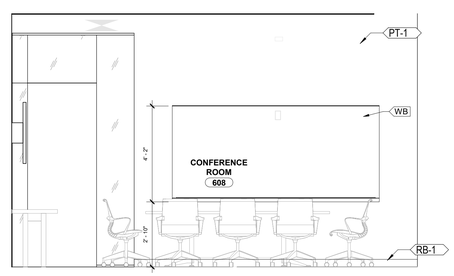
A. ALL BASE CABINETS TO BE PLAM-1, U.N.O.
B. ALL UPPER CABINETS TO BE PLAM-1, U.N.O.
C. ALL TALL CABINETS TO BE PLAM-1, U.N.O.
D. ALL CASEWORK DIMENSIONS TO BE FIELD VERIFIED.



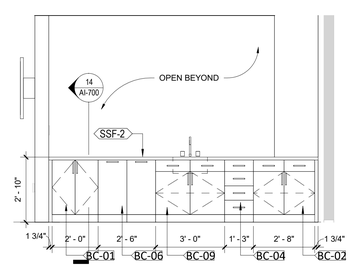
13 **BULLETIN BOARD ELEVATION - TYPICAL PHASE 4**
AI-685 3/8" = 1'-0"



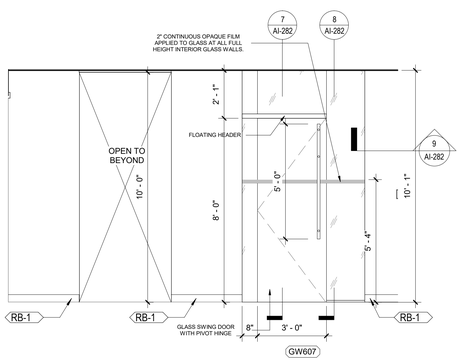
9 **CONFERENCE ROOM 607 - WEST ELEVATION**
AI-685 3/8" = 1'-0"



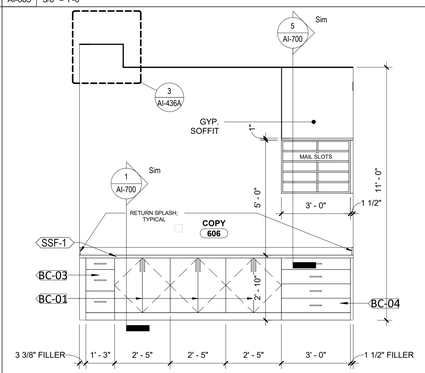
6 **CONFERENCE ROOM 608 - NORTH ELEVATION**
AI-685 3/8" = 1'-0"



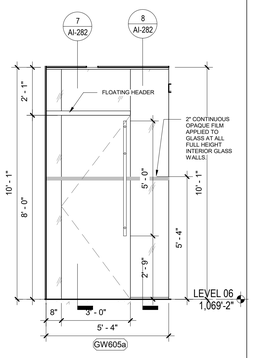
3 **COLLABORATION 605 - SOUTH ELEVATION**
AI-685 3/8" = 1'-0"



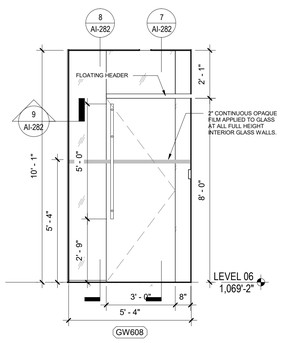
14 **LOBBY 601 - EAST ELEVATION**
AI-685 3/8" = 1'-0"



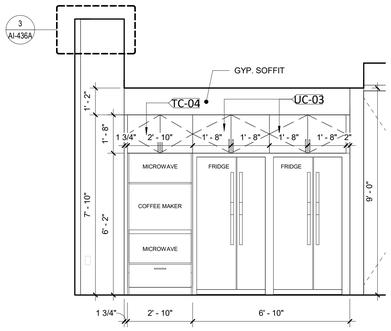
10 **COPY ROOM 606 - EAST ELEVATION**
AI-685 3/8" = 1'-0"



7a **GW605a**
AI-685 3/8" = 1'-0"



7 **GW608**
AI-685 3/8" = 1'-0"



4 **COLLABORATION 605 - NORTH ELEVATION**
AI-685 3/8" = 1'-0"

CHAMPLIN ARCHITECTURE
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HGA

JACOBS Consultancy

AEI Affiliated Engineers

CMTA

HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: P4-5350

MICHAEL J. BATTCOMBE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

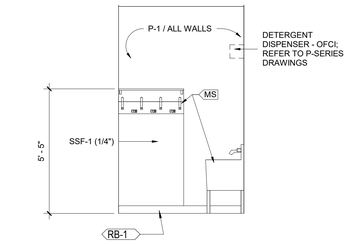
DRAWING TITLE

INTERIOR ELEVATIONS

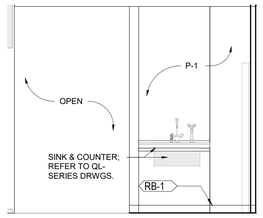
SHEET NO.

AI-685

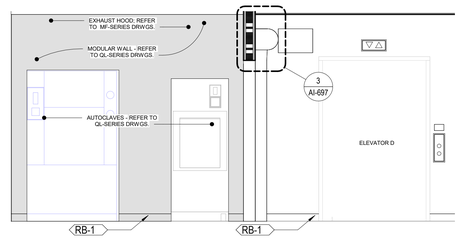
1/11/2021 5:06:00 PM



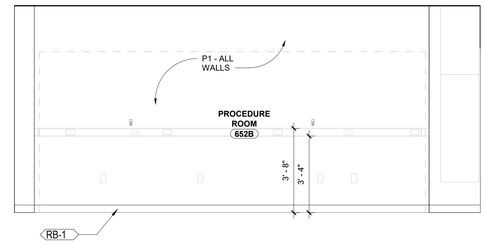
13 **CUSTODIAL 080A - NORTH ELEV.**
AI-686 3/8" = 1'-0"



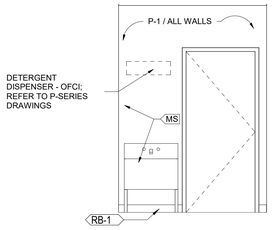
9 **STERILIZER ALCOVE - NORTH**
AI-686 3/8" = 1'-0"



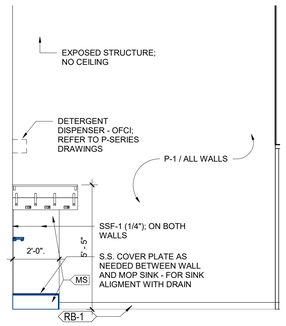
5 **STERILIZER ALCOVE 651H2 - EAST ELEVATION**
AI-686 3/8" = 1'-0"



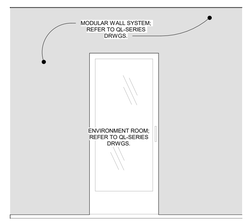
1 **652B PROCEDURE ROOM - EAST ELEVATION**
AI-686 3/8" = 1'-0"



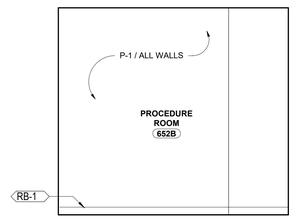
14 **CUSTODIAL 080A - EAST ELEV.**
AI-686 3/8" = 1'-0"



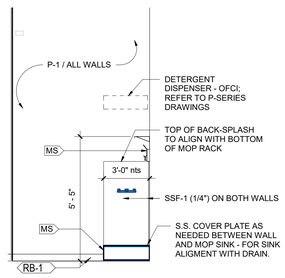
10 **CUSTODIAL 629 - EAST ELEV.**
AI-686 3/8" = 1'-0"



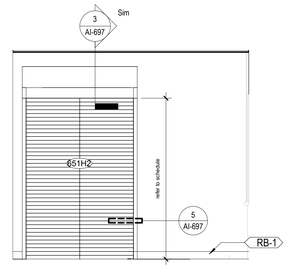
6 **STERILIZER ALCOVE 651H2 - WEST ELEVATION**
AI-686 3/8" = 1'-0"



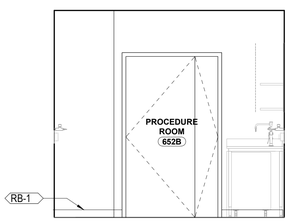
2 **652B PROCEDURE ROOM - NORTH ELEVATION**
AI-686 3/8" = 1'-0"



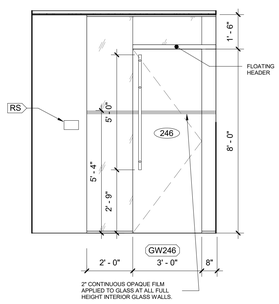
11 **CUSTODIAL 629 - NORTH ELEV.**
AI-686 3/8" = 1'-0"



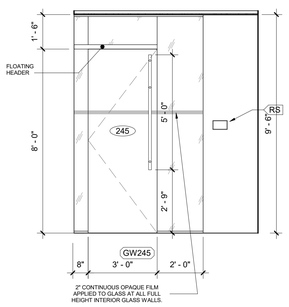
7 **OVERHEAD DOOR 651 ELEVATION**
AI-686 3/8" = 1'-0"



3 **652B PROCEDURE ROOM -SOUTH ELEVATION**
AI-686 3/8" = 1'-0"



16 **GW 246**
AI-686 3/8" = 1'-0"



12 **GW 245**
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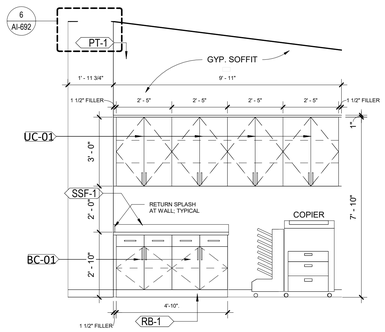
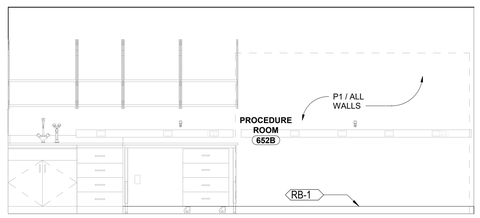


8 **COPY ROOM 631 - SOUTH ELEVATION**
AI-686 3/8" = 1'-0"



4 **652B PROCEDURE ROOM - WEST ELEVATION**
AI-686 3/8" = 1'-0"

ACCESSORIES LEGEND PHASE 4

BCS	BABY CHANGING STATION
CG	CORNER GUARD; REFER TO AI-697
CR	CARD READER
DF-1	ACCESSIBLE DRINKING FOUNTAIN
FBS	FRP BACKSPLASH
FEC-1	RECESSED FIRE EXTINGUISHER CABINET
FEC-2	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
FEC-3	BRACKET MOUNTED FIRE EXTINGUISHER
GB-1	REAR WALL GRAB BAR
GB-2	SIDE WALL GRAB BAR
GB-3	VERTICAL GRAB BAR
JG	JAMB GUARD; REFER TO AI-697
LAV	LAVATORY
MR-1	2'-0" x 3'-0" MIRROR
MR-2	5'-0" x 4'-0" MIRROR
MR-3	7'-6" x 4'-0" MIRROR
MR-4	9'-0" x 4'-0" MIRROR
MR-5	6'-0" x 4'-0" MIRROR
MS	MOP SINK AND MOP RACK
ND-1	RECESSED SANITARY NAPKIN DISPOSAL
ND-2	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL
PD	PAPER TOWEL DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED)
PS	PROJECTOR SCREEN
RR	RECYCLING RECEPTACLE, OWNER PROVIDED
RS	DIGITAL ROOM SCHEDULING SCREEN
SD	SURFACE MOUNTED SOAP DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED) W/ CUTOUT IN MIRROR. REFER TO AG-021 FOR CUTOUT DIMENSIONS.
SG	STORAGE ADJUSTABLE SHELVING
SH	SHELF
SR-3	60" x 36" SHOWER
TD	TOILET PAPER DISPENSER
TP	TOILET PARTITION
TV	WALL MOUNTED FLAT SCREEN MONITOR
UP	URINAL PARTITION
UR-1	URINAL
UR-2	ACCESSIBLE URINAL
WB	WHITE BOARD
WC-1	WATER CLOSET
WC-2	ACCESSIBLE WATER CLOSET
WG	WALL PROTECTION SYSTEM
WR	WASTE RECEPTACLE

CABINET LEGEND

BC-01	BASE CABINET FULL HT DOOR
BC-02	BASE CABINET TYPICAL
BC-03	BASE CABINET 3 DRAWER
BC-04	BASE CABINET 4 DRAWER
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BC-08	ADA SINK WITH APRON
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GENERAL NOTES - CASEWORK

A. ALL BASE CABINETS TO BE PLAM-1, U.N.O.
B. ALL UPPER CABINETS TO BE PLAM-1, U.N.O.
C. ALL TALL CABINETS TO BE PLAM-1, U.N.O.
D. ALL CASEWORK DIMENSIONS TO BE FIELD VERIFIED.

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CMTA

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UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: P4-5350

MICHAEL J. BATTY DOCETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY PROFESSIONAL ENGINEER

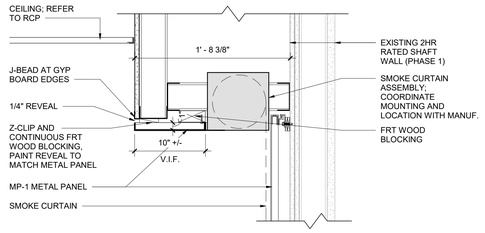
DRAWING TITLE

INTERIOR ELEVATIONS

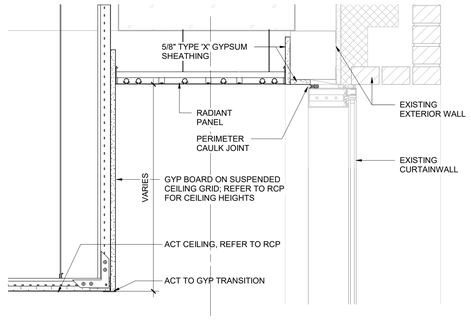
SHEET NO.

AI-686

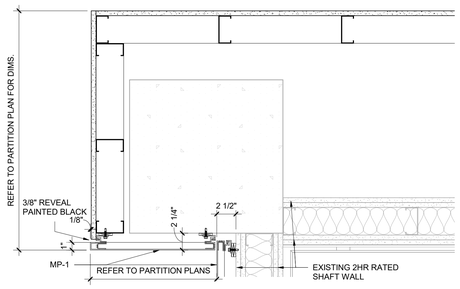
1/11/2021 5:07:11 PM



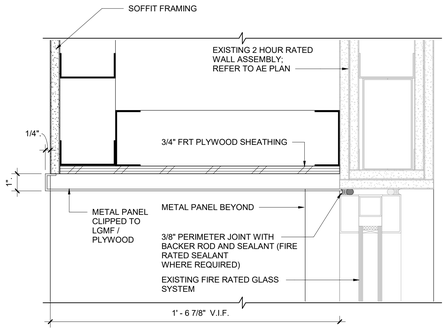
13 AI-690 **SECTION DETAIL - SMOKE CURTAIN**
1 1/2" = 1'-0"

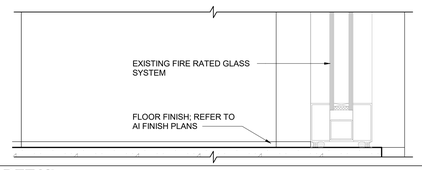


14 AI-690 **SECTION DETAIL**
1 1/2" = 1'-0"

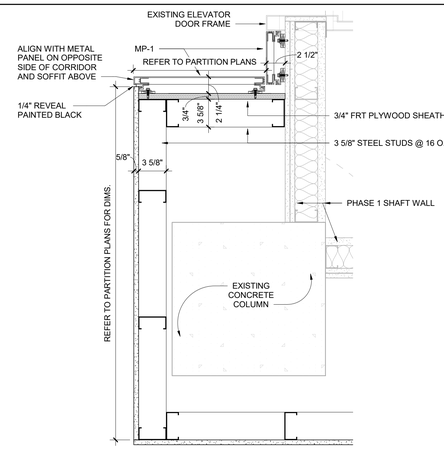


15 AI-690 **PLAN DETAIL**
1 1/2" = 1'-0"

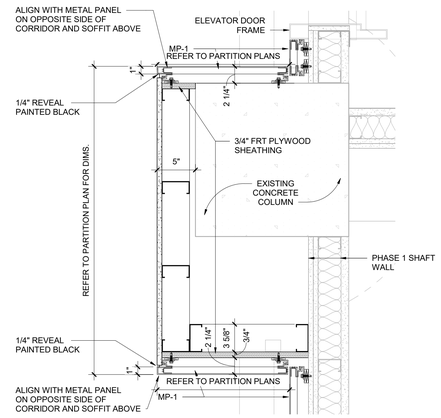




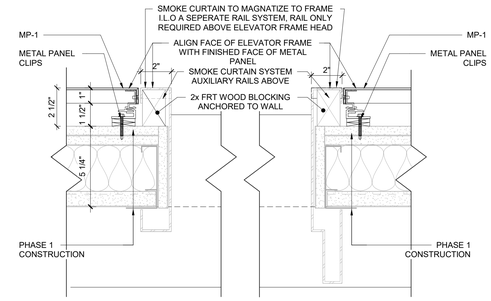
16 AI-690 **SECTION DETAIL**
3" = 1'-0"



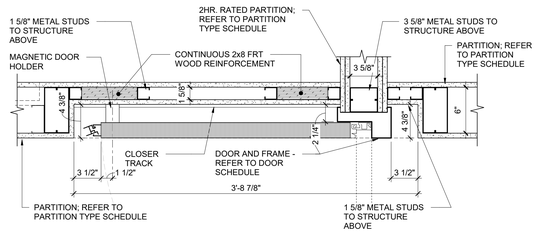
9 AI-690 **PLAN DETAIL**
1 1/2" = 1'-0"



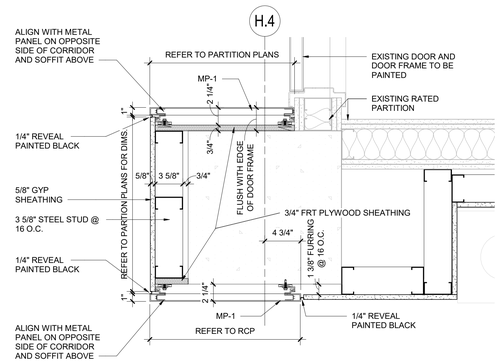
5 AI-690 **PLAN DETAIL**
1 1/2" = 1'-0"



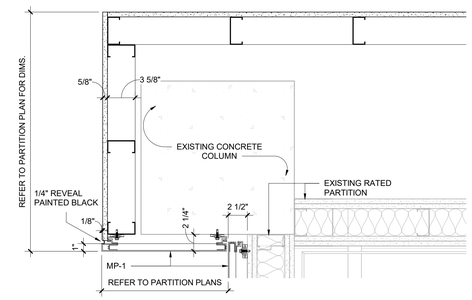
1 AI-690 **PLAN DETAIL - ELEVATOR DOOR JAMB**
3" = 1'-0"



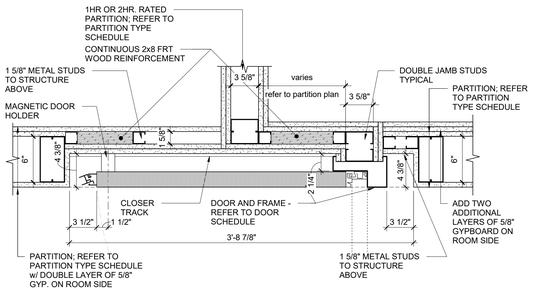
10 AI-690 **PLAN DETAIL**
1 1/2" = 1'-0"



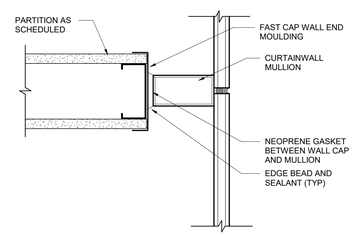
6 AI-690 **PLAN DETAIL**
1 1/2" = 1'-0"



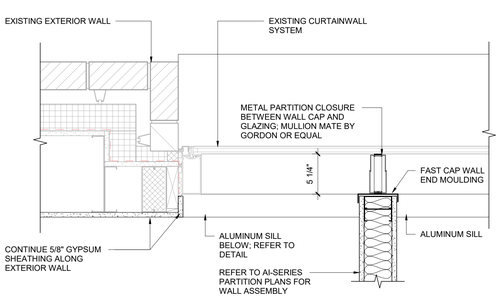
2 AI-690 **PLAN DETAIL**
1 1/2" = 1'-0"



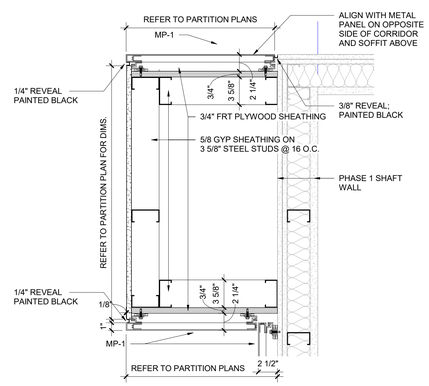
11 AI-690 **PLAN DETAIL**
1 1/2" = 1'-0"



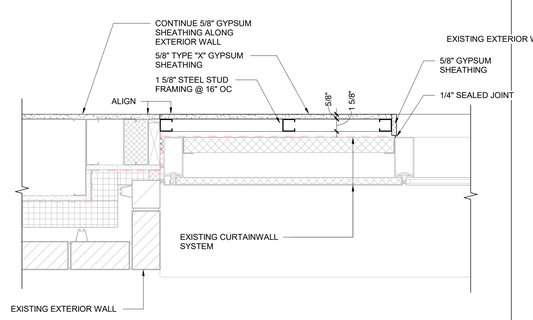
7 AI-690 **PLAN DETAIL - TYPICAL PARTITION AT MULLION**
3" = 1'-0"



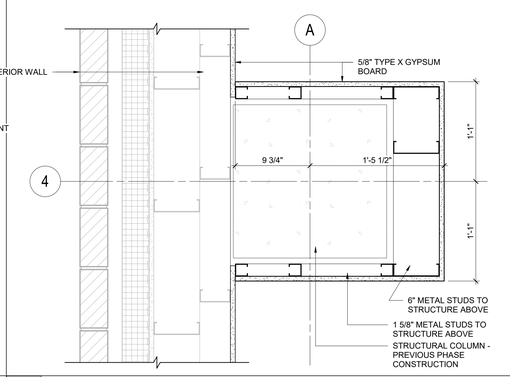
3 AI-690 **PLAN DETAIL**
1 1/2" = 1'-0"



12 AI-690 **PLAN DETAIL**
1 1/2" = 1'-0"



8 AI-690 **PLAN DETAIL**
1 1/2" = 1'-0"



4 AI-690 **PLAN DETAIL**
1 1/2" = 1'-0"

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AEI Affiliated Engineers

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760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By	
Author	
Checked By	
Checker	
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTCHELLE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

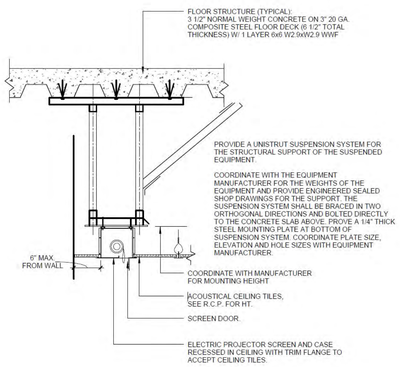
DRAWING TITLE

DETAILS - MISCELLANEOUS

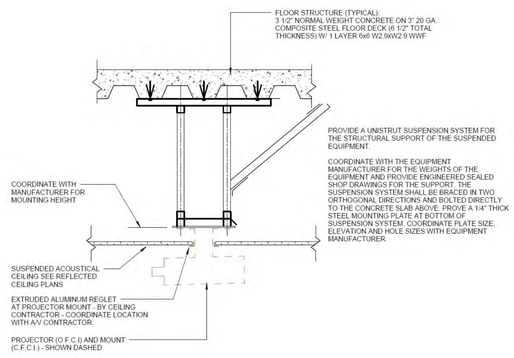
SHEET NO.

AI-690

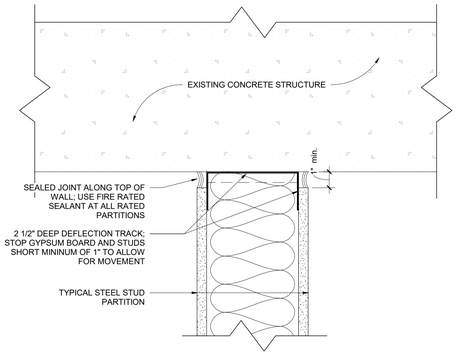
1/11/2021 5:07:53 PM



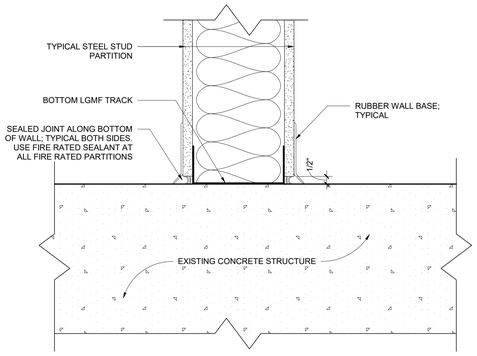
7 AI-691 **SECTION DETAIL - CEILING MOUNTED PROJECTION SCREEN**
1/2" = 1'-0"



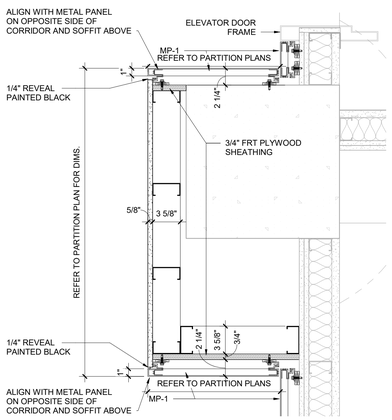
4 AI-691 **SECTION DETAIL - CEILING MOUNTED PROJECTOR**
1/2" = 1'-0"



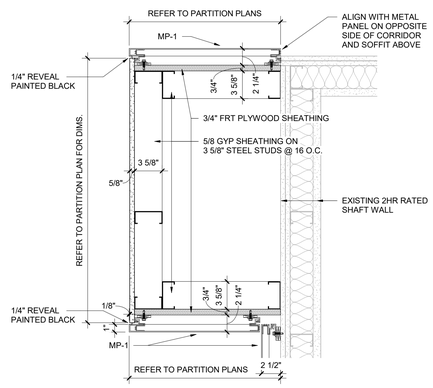
1 AI-691 **TYP. STEEL STUD PARTITION - TOP OF WALL**
3" = 1'-0"



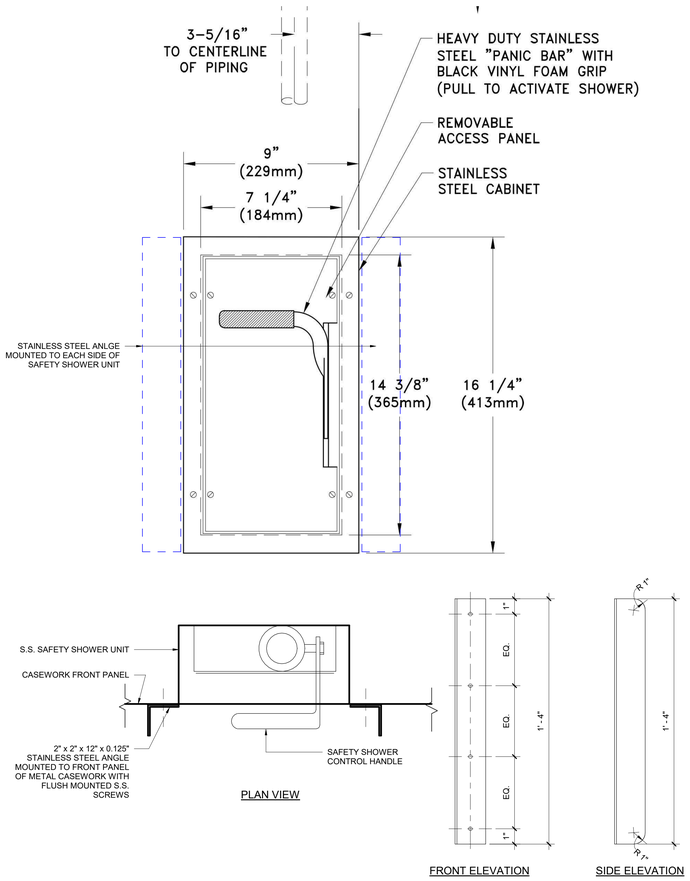
1A AI-691 **TYP. STEEL STUD PARTITION - TOP OF WALL**
3" = 1'-0"



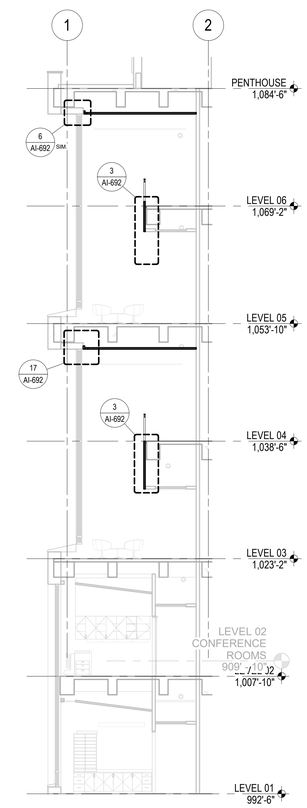
8 AI-691 **PLAN DETAIL**
1 1/2" = 1'-0"



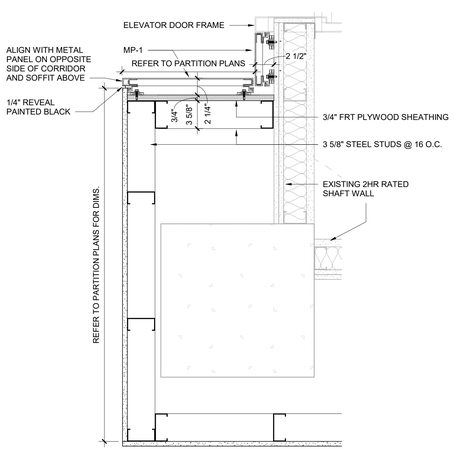
5 AI-691 **PLAN DETAIL**
1 1/2" = 1'-0"



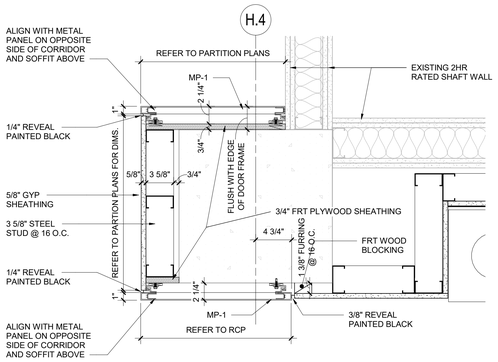
3 AI-691 **SAFETY SHOWER HANDLE / GUARD - PHASE 4**
3" = 1'-0"



2 AI-691 **SECTION - RAILING LEVEL 4 & 6**
1/8" = 1'-0"



9 AI-691 **PLAN DETAIL**
1 1/2" = 1'-0"



6 AI-691 **PLAN DETAIL**
1 1/2" = 1'-0"

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760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

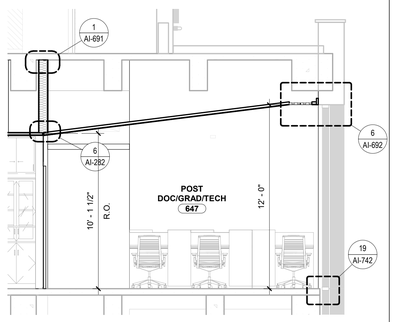
Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: P4-5350

MICHAEL J. BATTCOCKETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY PROFESSIONAL ARCHITECT

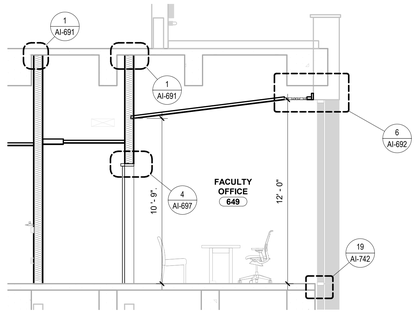
DRAWING TITLE
DETAILS - MISCELLANEOUS

SHEET NO.
AI-691

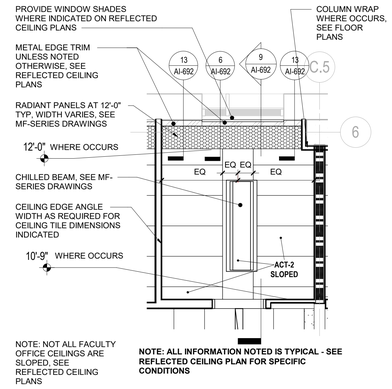
1/11/2021 5:08:27 PM



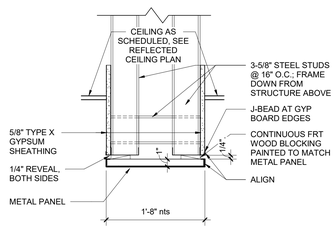
14 AI-692 **SECTION - POST-DOC-GRAD**
1/4" = 1'-0"



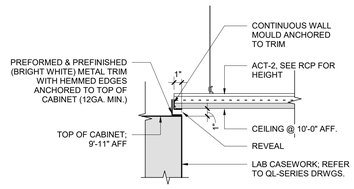
9 AI-692 **SECTION - FACULTY OFFICE**
1/4" = 1'-0"



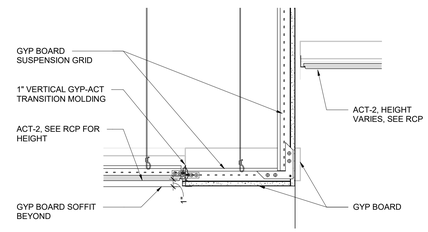
4 AI-692 **TYP. CEILING - FACULTY OFFICE**
1/4" = 1'-0"



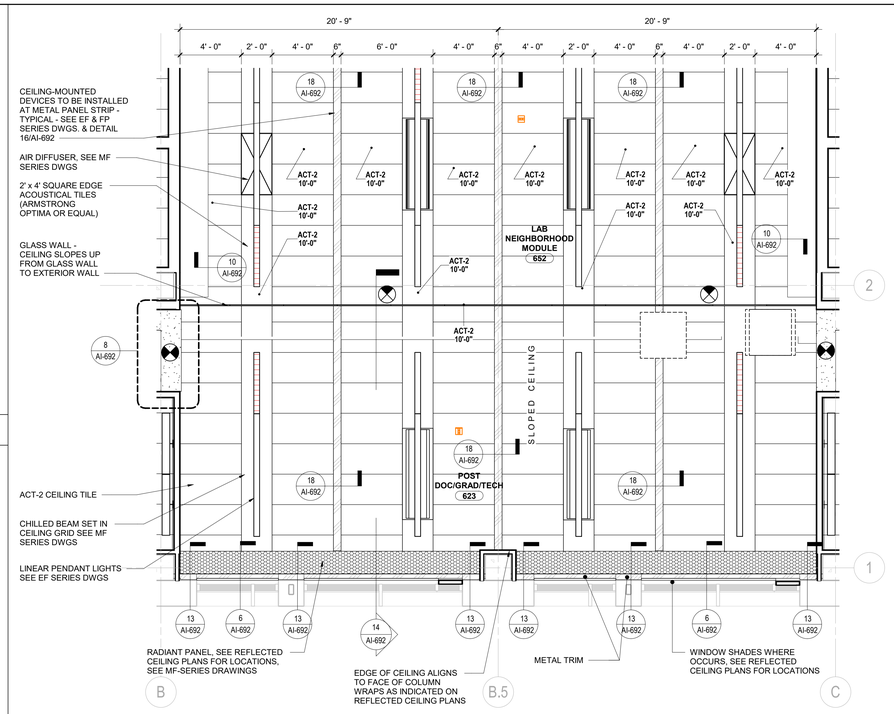
15 AI-692 **SECTION DETAIL - METAL PANEL SOFFIT**
1 1/2" = 1'-0"



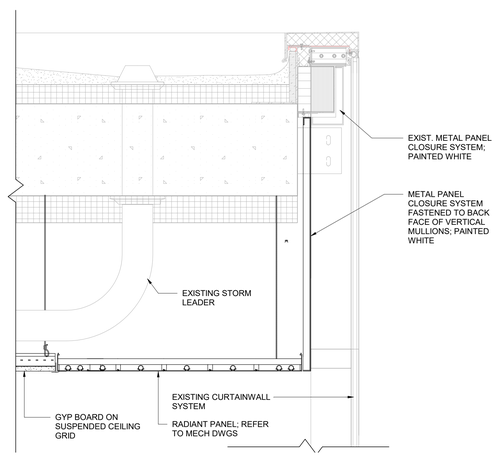
10 AI-692 **SECTION DETAIL - CASEWORK AT WETLAB CEILING**
1 1/2" = 1'-0"



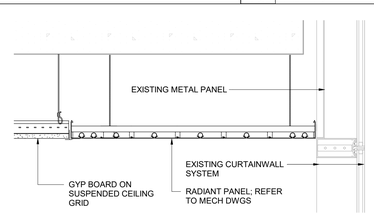
5 AI-692 **SECTION DETAIL - GYP. SOFFIT**
1 1/2" = 1'-0"



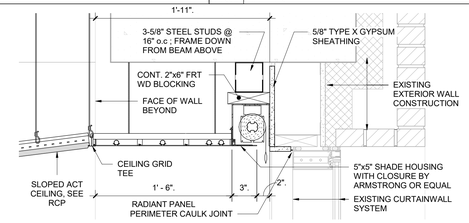
1 AI-692 **TYP. CEILING - WETLAB / POST-DOC-GRAD**
1/4" = 1'-0"



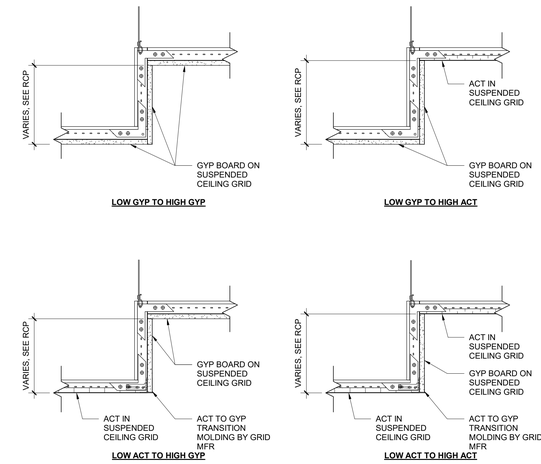
16 AI-692 **DETAIL SECTION - DROP AT STORM**
1 1/2" = 1'-0"



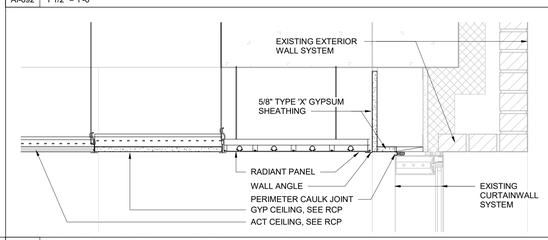
11 AI-692 **SECTION DETAIL**
1 1/2" = 1'-0"



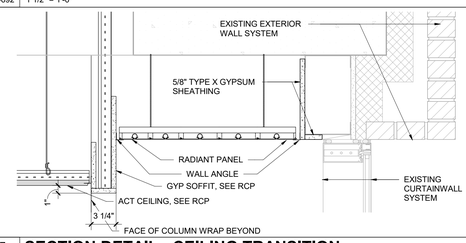
6 AI-692 **SECTION DETAIL**
1 1/2" = 1'-0"



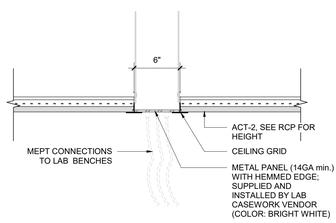
2 AI-692 **TYPICAL CEILING HEIGHT TRANSITIONS**
1 1/2" = 1'-0"



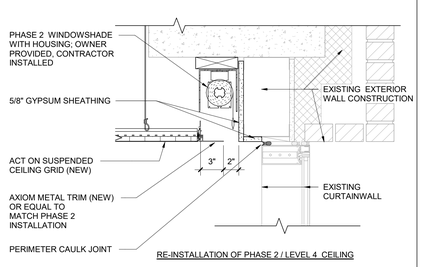
12 AI-692 **SECTION DETAIL - REWORK LEVEL 4**
1 1/2" = 1'-0"



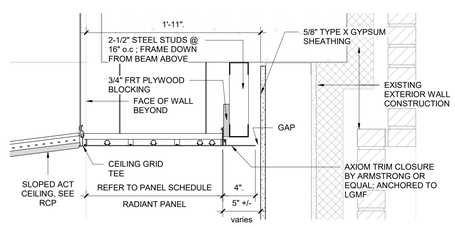
7 AI-692 **SECTION DETAIL - CEILING TRANSITION**
1 1/2" = 1'-0"



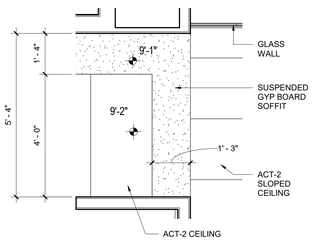
18 AI-692 **SECTION DETAIL - WETLAB / P4**
1 1/2" = 1'-0"



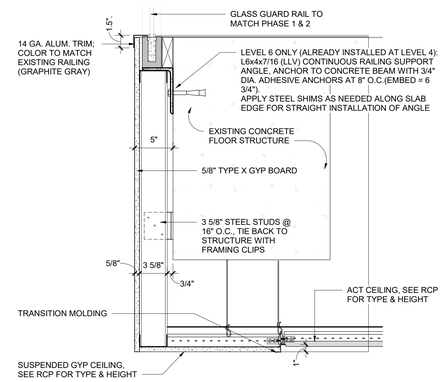
17 AI-692 **SECTION DETAIL - N/W CORNER - LEVEL 4**
1 1/2" = 1'-0"



13 AI-692 **SECTION DETAIL - RADIANT PANEL AT WALL**
1 1/2" = 1'-0"



8 AI-692 **CEILING - HALLWAY AT LAB**
1/2" = 1'-0"



3 AI-692 **SECTION DETAIL - RAILING**
1 1/2" = 1'-0"

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760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	DRP #3B - Addendum #1	07/26/16
2	P4 - DD REVIEW	10/23/20
3	P4 - CD REVIEW	12/04/20
4	P4 - BID & PERMIT	01/08/21

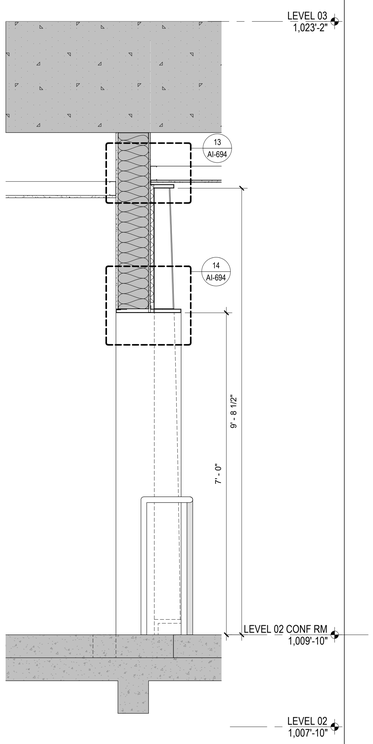
Drawn By
Author
Checked By
Checker
Client Number 514
Project Number P4-5350

MICHAEL J. BATTOCLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY PROFESSIONAL ENGINEER

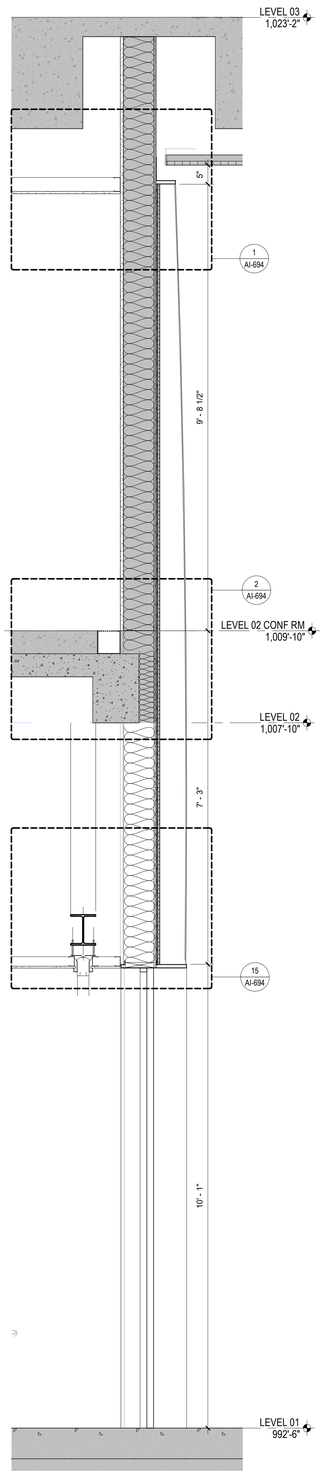
DRAWING TITLE
DETAILS - CEILING

SHEET NO.
AI-692

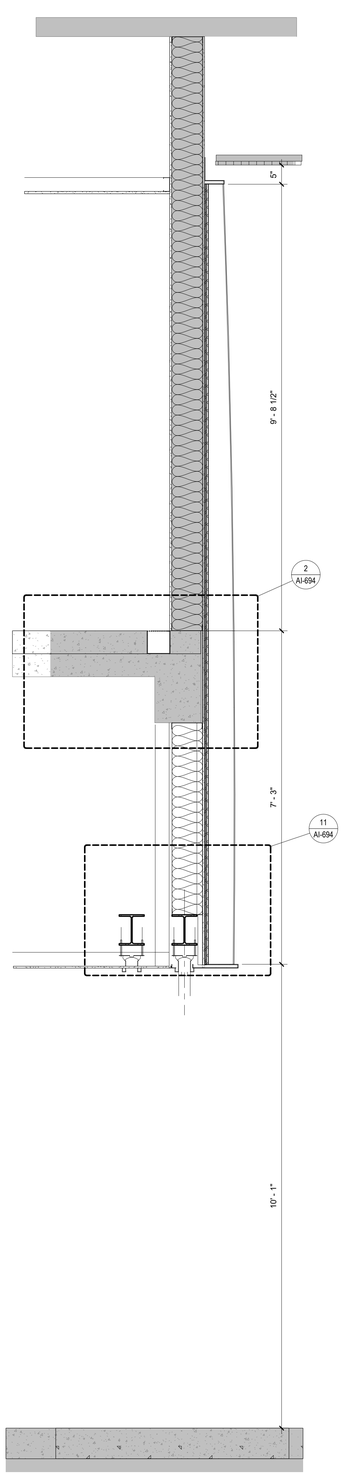
1/11/2021 5:09:24 PM



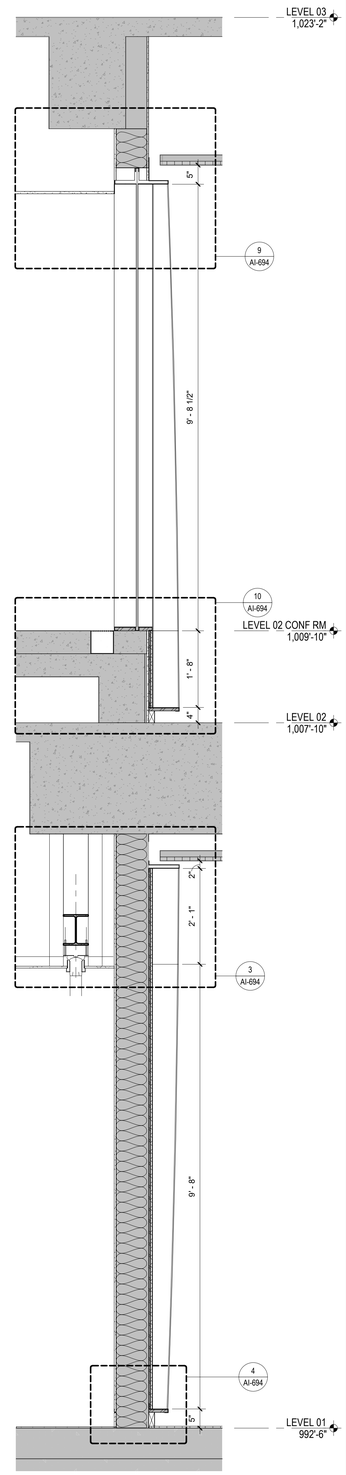
6 AI-693 **CONFRENCE ROOM ENTRY LEVEL 2**
3/4" = 1'-0"



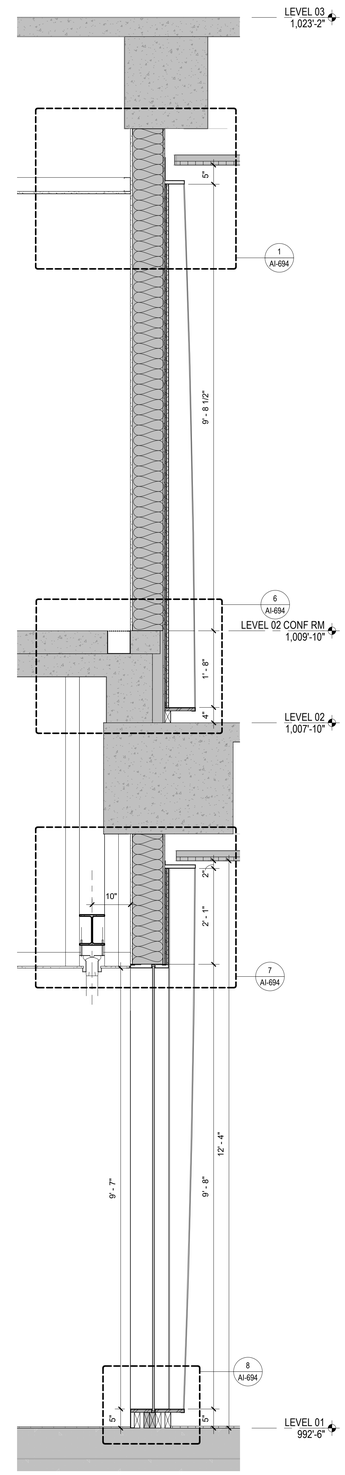
5 AI-693 **FINS AT L1 SWING DOOR**
3/4" = 1'-0"



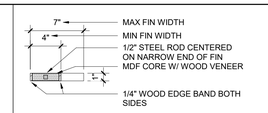
4 AI-693 **FINS AT OPERABLE PARTITION**
3/4" = 1'-0"



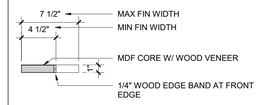
3 AI-693 **FINS AT L2 FLOOR WITH WDW AT L2**
3/4" = 1'-0"



2 AI-693 **FINS AT L2 FLOOR WITH WDW AT L1**
3/4" = 1'-0"

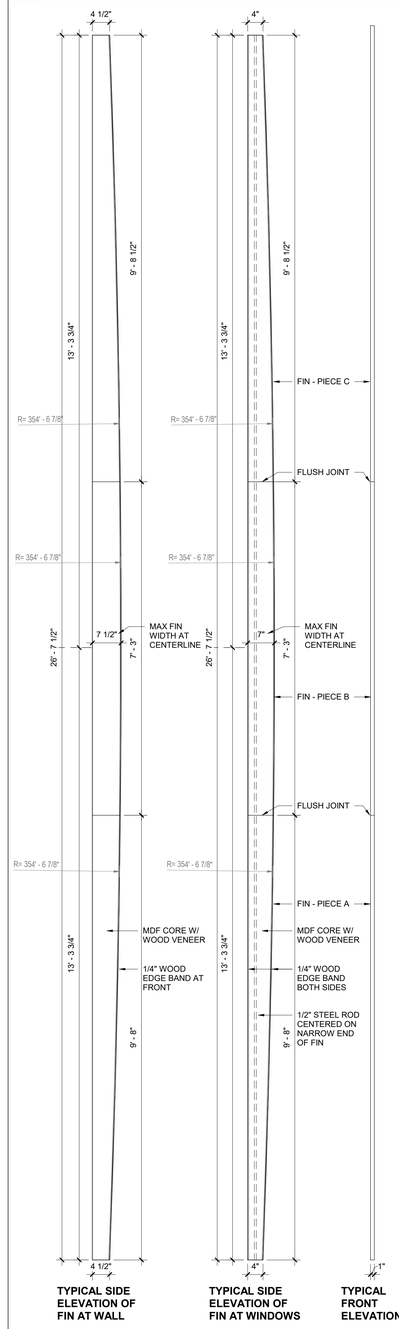


TYPICAL PLAN OF FIN AT WINDOWS



TYPICAL PLAN OF FIN AT WALL

7 AI-693 **TYPICAL FIN PLAN**
1 1/2" = 1'-0"



TYPICAL SIDE ELEVATION OF FIN AT WALL | **TYPICAL SIDE ELEVATION OF FIN AT WINDOWS** | **TYPICAL FRONT ELEVATION**

1 AI-693 **TYPICAL FIN PROFILE**
3/4" = 1'-0"

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UNIVERSITY OF KENTUCKY
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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTCOCHETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

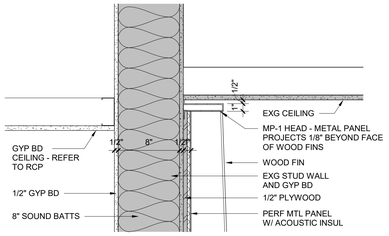
DRAWING TITLE

DETAILS - SECTIONS LEVEL ONE & TWO

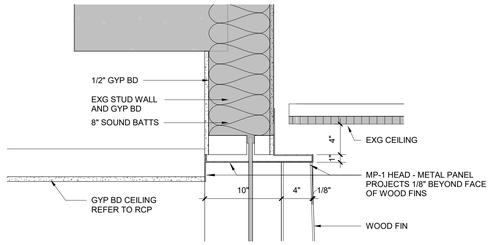
SHEET NO.

AI-693

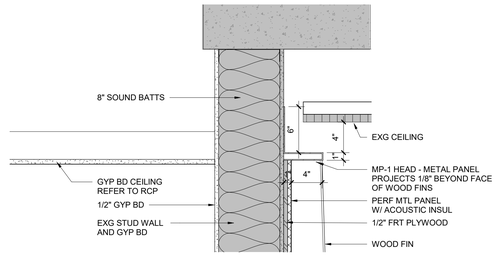
1/11/2021 5:09:53 PM



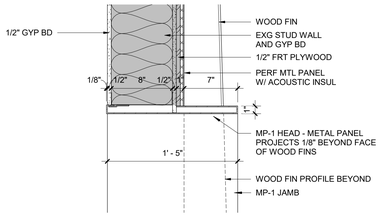
13 AI-694 **FIN WALL AT LVL 2 ENTRY CEILING**
1 1/2" = 1'-0"



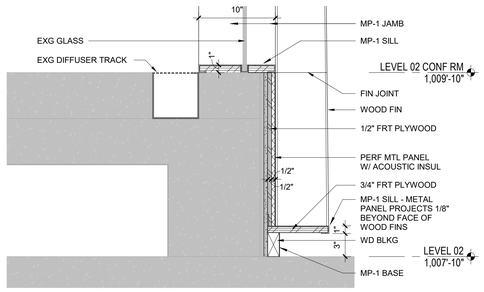
9 AI-694 **FIN WALL AT LEVEL 2 WINDOW HEAD**
1 1/2" = 1'-0"



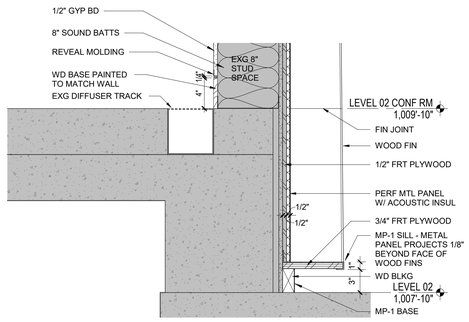
1 AI-694 **FIN WALL AT LEVEL 2 CEILING**
1 1/2" = 1'-0"



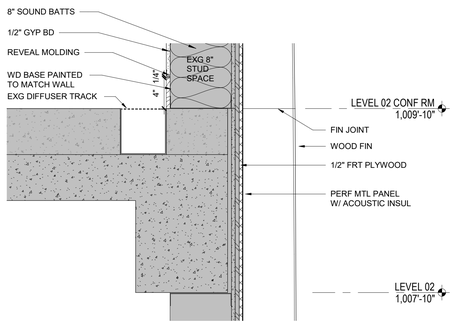
14 AI-694 **FIN WALL AT LVL 2 ENTRY**
1 1/2" = 1'-0"



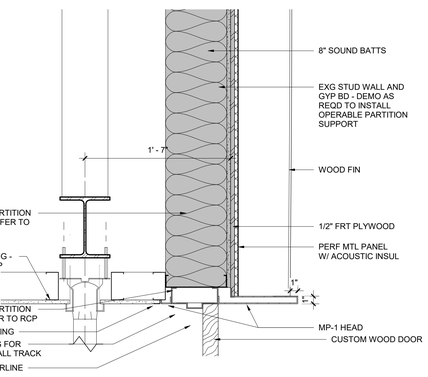
10 AI-694 **FIN WALL AT LEVEL 2 WINDOW SILL**
1 1/2" = 1'-0"



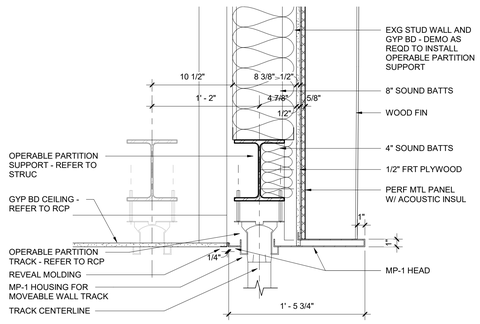
6 AI-694 **FIN WALL BASE AT LEVEL 2**
1 1/2" = 1'-0"



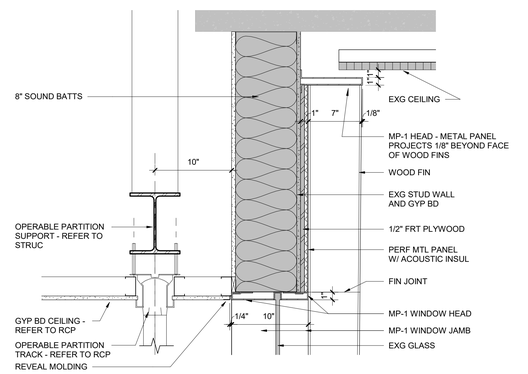
2 AI-694 **FIN WALL AT LEVEL 2 SLAB EDGE**
1 1/2" = 1'-0"



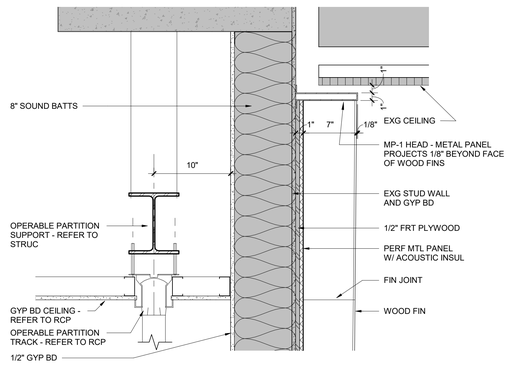
15 AI-694 **FIN WALL AT SWING DOOR HEAD**
1 1/2" = 1'-0"



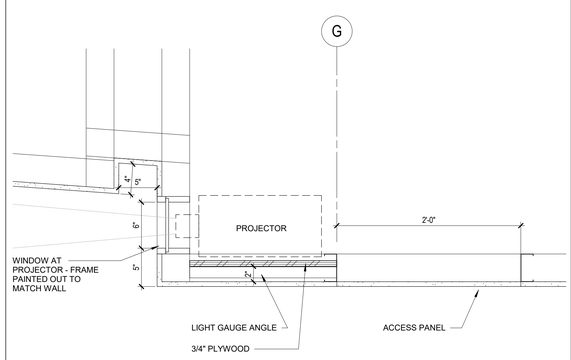
11 AI-694 **FIN WALL AT MOVEABLE WALL HEAD**
1 1/2" = 1'-0"



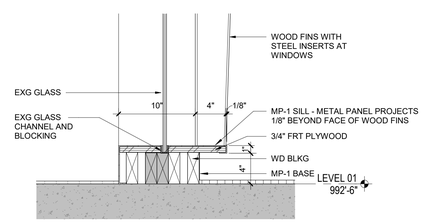
7 AI-694 **FIN WALL AT LEVEL 1 WINDOW HEAD**
1 1/2" = 1'-0"



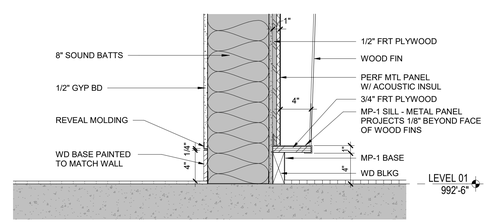
3 AI-694 **FIN WALL AT LEVEL 1 CEILING**
1 1/2" = 1'-0"



12 AI-694 **SECTION AT SEMINAR PROJECTOR**
1 1/2" = 1'-0"



8 AI-694 **FIN WALL AT LEVEL 1 WINDOW SILL**
1 1/2" = 1'-0"



4 AI-694 **FIN WALL BASE AT LEVEL 1**
1 1/2" = 1'-0"

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Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTCOMBE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

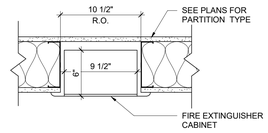
DRAWING TITLE

DETAILS - LEVEL ONE & TWO

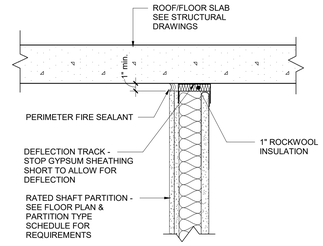
SHEET NO.

AI-694

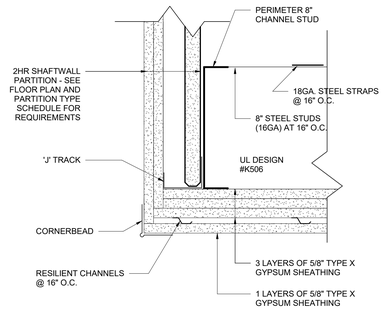
1/11/2021 5:10:39 PM



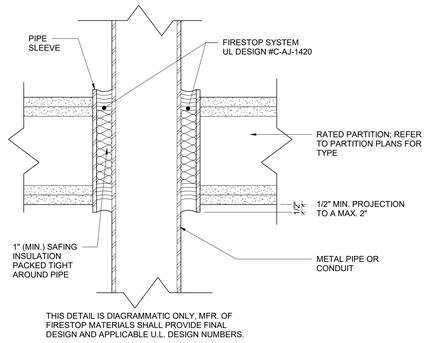
9 AI-695 **FIRE EXTINGUISHER CABINET - NON RATED**
1 1/2" = 1'-0"



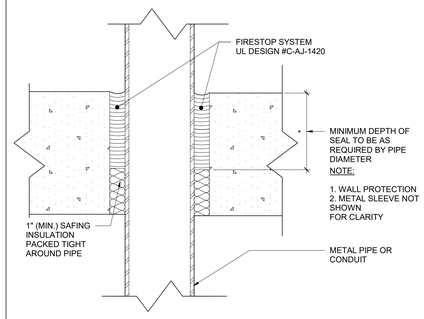
5 AI-695 **TYP. RATED PARTITION TO DECK**
1 1/2" = 1'-0"



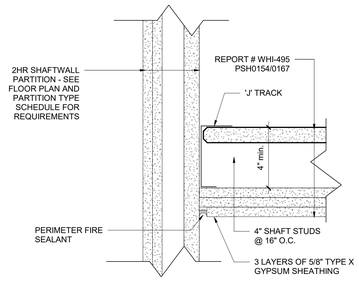
1 AI-695 **HORIZONTAL SHAFT ENCLOSURE - LONG SPAN**
3" = 1'-0"



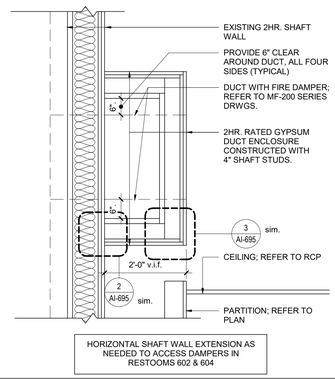
10 AI-695 **WALL PENETRATION - RATED PARTITION**
3" = 1'-0"



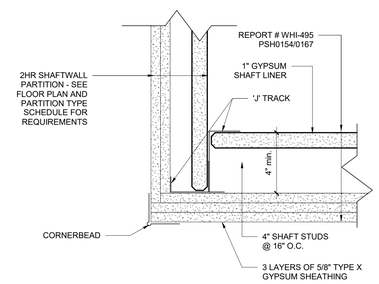
6 AI-695 **FLOOR PENETRATION-MTL. PIPE / CONDUIT-2HR**
3" = 1'-0"



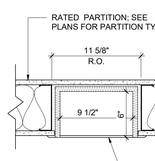
2 AI-695 **HORIZONTAL SHAFT ENCLOSURE**
3" = 1'-0"



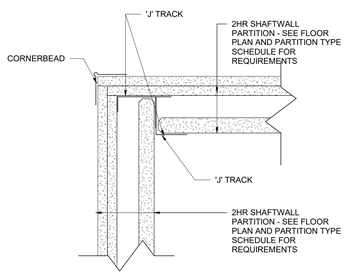
7 AI-695 **SHAFT WALL - HORIZ. EXTENSION**
1" = 1'-0"



3 AI-695 **HORIZONTAL SHAFT ENCLOSURE - SHORT SPAN**
3" = 1'-0"



8 AI-695 **FIRE EXTINGUISHER CABINET / RATED**
1 1/2" = 1'-0"



4 AI-695 **SHAFT WALL OUTSIDE CORNER**
3" = 1'-0"

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UK Project Number 2552.0

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Drawn By	
Author	
Checked By	
Checker	
Client Number 514	
Project Number P4-5350	

MICHAEL J. BATTCOCHETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE

FIRE CONTAINMENT

SHEET NO.

AI-695

1/11/2021 5:11:11 PM

DOOR AND FRAME SCHEDULE - PHASE 4 / LEVEL 6

DOOR NUMBER	TO ROOM NUMBER	TO ROOM NAME	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME FINISH	FRAME GLAZING	DETAILS HEAD	DETAILS JAMB	RATING	CARD READER	HARDWARE SET	REMARKS
600	600E1	BAS CLOSET	3'-0"	7'-0"	WD-F	TF	--	HM-001	PT	--	5/AI-696	4/AI-696	--	●	2.0	17
600EA	600ES	CORRIDOR	6'-0 1/2"	9'-0"							--	10/AI-690	90 Minute		10.0	9
600EB	600E	CORRIDOR	6'-0 1/2"	9'-0"							--	10/AI-690	90 Minute		10.0	9
600EC	600EN	CORRIDOR	6'-0 1/2"	9'-0"							--	10/AI-690	90 Minute		10.0	9
600WA	600WS	CORRIDOR	6'-0 1/2"	9'-0"							--	10/AI-690	90 Minute		10.0	9
600WB	600W	CORRIDOR	6'-0 1/2"	9'-0"							--	10/AI-690	90 Minute		10.0	9
600WC	600W	CORRIDOR	6'-0 1/2"	9'-0"					PT		--	10/AI-690	90 Minute		10.0	9
602	602	TOILET	3'-0"	7'-0"	WD-F	TF	--	HM-001	PT	--	5/AI-696	4/AI-696			11.0	
603	603	TOILET	3'-0"	7'-0"	WD-F	TF	--	HM-001	PT	--	5/AI-696	4/AI-696			12.0	
604	604	TOILET	3'-0"	7'-0"	WD-F	TF	--	HM-001	PT	--	5/AI-696	4/AI-696			11.0	
605A	605A	CONFERENCE RM	3'-0"	8'-0"	GL-F	--	--	--	--	--			--		21.0	FULL GLASS
607	607	CONFERENCE ROOM	3'-0"	8'-0"	GL-F	--	--	--	--	--			--		21.0	FULL GLASS
608	608	CONFERENCE ROOM	3'-0"	8'-0"	GL-F	--	--	--	--	--			--		21.0	FULL GLASS
610	610	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
611	611	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
613	613	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697	--		20.0	10
615	615	OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
616	616	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/ AI-697	1/AI-697			20.0	10
617	617	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/ AI-697	1/AI-697			20.0	10
619	619	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/ AI-697	1/AI-697			20.0	10
620	620	OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/ AI-697	1/AI-697			20.0	10
621	621	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
622	622	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
624	624	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
625	625	OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
629	629	CUSTODIAL	3'-0"	7'-0"	WD-F	TF	--	HM-001	PT	--	5/AI-696	8 / AI-697		●	2.0	17
632	632	OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
633	633	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
635	635	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/ AI-697	1/AI-697			20.0	10
636	636	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
637	637	OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
638	638	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
640	640	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
641	641	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
643	643	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
644	644	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
645	645	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
646	646	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
648	648	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/ AI-697	1/AI-697			20.0	10
649	649	FACULTY OFFICE	3'-6"	7'-8"	WD-N2	TF	GL-2	HM-003	PT	--	4/AI-697	1/AI-697			20.0	10
650A	650	LAB NEIGHBORHOOD MODULE	3'-6"	8'-0"	GL-F	--	GL-3	--	--	--	5/AI-282	--			22.0	FULL GLASS
650AA	650A	FUME HOOD ROOM	4'-0"	7'-0"	--	--	--	HM-003	PT-1	--	6/AI-696	1/AI-697				
650B	650	LAB NEIGHBORHOOD MODULE	3'-6"	8'-0"	GL-F	--	GL-3	--	--	--	5/AI-282	--			22.0	FULL GLASS
650BA	650B	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
650C	650	LAB NEIGHBORHOOD MODULE	3'-6"	8'-0"	GL-F	--	GL-3	--	--	--	5/AI-282	--			22.0	FULL GLASS
650C1	650C1	BAS CLOSET	3'-0"	7'-0"	WD-F	TF	--	HM-001	PT	--	5/AI-696	4/AI-696	--	●	3.0	17
650CA	650C	LINEAR EQUIP ROOM	5'-0"	7'-0"	--	--	--	HM-003	PT-1	--	6/AI-696	1/AI-697				
650D	650	LAB NEIGHBORHOOD MODULE	3'-6"	8'-0"	GL-F	--	GL-3	--	--	--	5/AI-282	--			22.0	FULL GLASS
650DA	650D	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
650EA	650E	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
650FA	650F	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
650GA	650G	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
650HA	650H	LINEAR EQUIP ROOM	5'-0"	7'-0"	--	--	--	HM-003	PT-1	--	6/AI-696	1/AI-697				
650JA	650J	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696	--		9.0	
650KA	650K	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696	--		9.0	
651A	651	LAB NEIGHBORHOOD MODULE	3'-6"	8'-0"	GL-F	--	GL-3	--	--	--	5/AI-282	4/AI-696			22.0	FULL GLASS
651AA	651A	FUME HOOD ROOM	4'-0"	7'-0"	--	--	--	HM-003	PT-1	--	6/AI-696	1/AI-697				
651B	651	LAB NEIGHBORHOOD MODULE	3'-6"	8'-0"	GL-F	--	GL-3	--	--	--	5/AI-282	--			22.0	FULL GLASS
651BA	651B	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
651C	651	LAB NEIGHBORHOOD MODULE	3'-6"	8'-0"	GL-F	--	GL-3	--	--	--	5/AI-282	--			22.0	FULL GLASS
651CA	651C	LINEAR EQUIP ROOM	5'-0"	7'-0"	--	--	--	HM-003	PT-1	--	6/AI-696	1/AI-697				
651CB	652H	LINEAR EQUIP ROOM	5'-0"	7'-0"	OC	PT-1	--	ST-001	PT-1	--	3/AI-697	5/AI-697	2HR			
651D	651	LAB NEIGHBORHOOD MODULE	3'-6"	8'-0"	GL-F	--	GL-3	--	--	--	5/AI-282	--			22.0	FULL GLASS
651DA	651D	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
651EA	651E	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
651FA	651F	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
651GA	651G	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
651GB	651G	PROCEDURE ROOM	2'-6"	7'-0"	HM-F	PT-1	--	HM-001	PT-1	--	5/AI-696	4/AI-696			15.0	
651H2	650C	LINEAR EQUIP ROOM	4'-8"	7'-0"	OC	PT-1	--	OVD-004	PT-1	--	3/AI-697	5/AI-697	2HR			
651HA	651H	LINEAR EQUIP ROOM	5'-0"	7'-0"	--	--	--	HM-003	PT-1	--	6/AI-696	1/AI-697				
651JA	651J	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
651KA	651K	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
652A	652	LAB NEIGHBORHOOD MODULE	3'-6"	8'-0"	GL-F	--	GL-3	--	--	--	5/AI-282	4/AI-696			22.0	FULL GLASS
652AA	652A	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
652B	652	LAB NEIGHBORHOOD MODULE	3'-6"	8'-0"	GL-F	--	GL-3	--	--	--	5/AI-282	--			22.0	FULL GLASS
652BA	652B	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
652C	652	LAB NEIGHBORHOOD MODULE	3'-6"	8'-0"	GL-F	--	GL-3	--	--	--	5/AI-282	--			22.0	FULL GLASS
652CA	652C	LINEAR EQUIP ROOM	5'-0"	7'-0"	--	--	--	HM-003	PT-1	--	6/AI-696	1/AI-697				
652D	652	LAB NEIGHBORHOOD MODULE	3'-6"	8'-0"	GL-F	--	GL-3	--	--	--	5/AI-282	--			22.0	FULL GLASS
652DA	652D	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
652EA	652E	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
652FA	652F	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
652GA	652G	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
652HA	652H	LINEAR EQUIP ROOM	5'-0"	7'-0"	--	--	--	HM-003	PT-1	--	6/AI-696	1/AI-697				
652JA	652J	PROCEDURE ROOM	4'-0"	7'-0"	WD-N	TF	GL-2	HM-002	PT-1	--	5/AI-696	4/AI-696			9.0	
652KA	652K	FUME HOOD ROOM	4'-0"	7'-0"	--	--	--	HM-003	PT-1	--	6/AI-696	1/AI-697				

DOOR AND FRAME SCHEDULE - PHASE 4 / LOWER LEVEL

DOOR NUMBER	TO ROOM NUMBER	TO ROOM NAME	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME FINISH	FRAME GLAZING	DETAILS HEAD	DETAILS JAMB	RATING	CARD READER	HARDWARE SET	REMARKS
00N2A	080	CORRIDOR	6'-0"	8'-0"	FRP-N	MFR	--	SS-002	SS	--	8/AI-696	7/AI-696	--	●	23.0	19
00N2D	088	CORRIDOR	6'-0"	8'-0"	FRP-N	MFR	--	SS-002	SS	--	8/AI-696	7/AI-696	--	●	23.0	19
057	057	STORAGE	6'-0"	7'-2"	FRP-N	MFR	GL-2	SS-002	SS	--	13/AI-697	14/AI-697	--	●	5.0	
057A	057	STORAGE	3'-6"	7'-2"	FRP-F	MFR	--	SS-001	SS	--	13/AI-697	14/AI-697	--	●	4.0	17
074	074	CORRIDOR	3'-6"	7'-0"	FRP-F	MFR	--	SS-001	SS	--	12/AI-697	11/AI-697	--	●	1.0	5
074A	074A	BEHAVIOR	3'-6"	7'-0"	FRP-F	MFR	--	SS-001	SS	--	10/AI-696	4A/AI-696		●	19.0	
074B	074B	BEHAVIOR	3'-6"	7'-0"	FRP-F	MFR	--	SS-001	SS	--	10/AI-696	4A/AI-696		●	19.0	
074C	074C	BEHAVIOR	3'-6"	7'-0"	FRP-F	MFR	--	SS-001	SS	--	10/AI-696	4A/AI-696		●	19.0	
074D	074D	BEHAVIOR	3'-6"	7'-0"	FRP-F	MFR	--	SS-001	SS	--	10/AI-696	4A/AI-696		●	19.0	
074E	074E	BEHAVIOR	3'-6"	7'-0"	FRP-F	MFR	--	SS-001	SS	--	10/AI-696	4A/AI-696		●	19.0	
076	076	FLOW - CYTOMETRY LAB	3'-6"	7'-0"	HM-F	PT	--	HM-001	PT	--	9/AI-697	10/AI-697	--	●	2.0	17
076A	076	FLOW - CYTOMETRY LAB	3'-6"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			26.0	
076B	076B	BIOCONTAIN.	3'-0"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			14.0	
076C	076	FLOW - CYTOMETRY LAB	3'-0"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			14.0	
080A	080A	CUSTODIAL	3'-0"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696		●	2.0	17
080B	080B	SUPPORT	3'-0"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			17.0	
080C	080C	ANIMAL RM.	3'-6"	7'-0"	FRP-F	MFR	--	SS-001	SS	--	5/AI-696	4/AI-696		●	2.0	17
080D	080D	ULTRASOUND	3'-6"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			18.0	
080E	080E	ULTRASOUND	3'-6"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			18.0	
080F	080F	ULTRASOUND	3'-6"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			18.0	
080G	080G	MICRO-CT	3'-6"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			18.0	
080H	080	CORRIDOR	6'-0"	7'-10"	HM-F	PT	--	HM-002	PT	--	9/AI-697	10/AI-697	--	●	7.0	7
082A	082A	IMAGING	3'-6"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			25.0	
082B	082B	IMAGING	3'-6"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			25.0	
082C	082C	IMAGING	3'-6"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			25.0	
082D	082D	IMAGING	3'-6"	7'-0"	HM-F	MFR	GL-2	HM-001	SS	--	8/A696	7/A696			24.0	
084A	084A	IMAGING	3'-6"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			24.0	
084B	084B	PREP / SCRUB	3'-6"	7'-0"	FRP-F	MFR	--	SS-001	SS	--	5/AI-696	4/AI-696			13.0	
084BB	084C	SURGERY	3'-6"	7'-0"	FRP-F	MFR	--	SS-001	SS	--	5/AI-696	4/AI-696			11.0	
084C	084C	SURGERY	3'-6"	7'-0"	FRP-F	MFR	--	SS-001	SS	--	5/AI-696	4/AI-696			16.0	
084D	084D	PREP/RECOV.	3'-6"	7'-0"	FRP-F	MFR	--	SS-001	SS	--	5/AI-696	4/AI-696			13.0	
084DD	084C	SURGERY	3'-6"	7'-0"	FRP-F	MFR	--	SS-001	SS	--	5/AI-696	4/AI-696			11.0	
084E	084E	IMAGING	3'-6"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			24.0	
088A	088	CORRIDOR	3'-0"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			14.0	
088B	088B	DATA PROCESSING	3'-0"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			14.0	
088D	088D	IMAGING	3'-6"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			24.0	
088E	088E	OFFICE	3'-0"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			14.0	
088F	088F	OFFICE	3'-0"	7'-0"	HM-F	PT	--	HM-001	PT	--	5/AI-696	4/AI-696			14.0	
088H	00S	CORRIDOR	6'-0"	7'-10"	HM-F	PT	--	HM-002	PT	--	9/AI-697	10/AI-697	--	●	7.0	7

DOOR AND FRAME SCHEDULE - PHASE 4 LEVEL 01 & 02

DOOR NUMBER	TO ROOM NUMBER	TO ROOM NAME	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME FINISH	FRAME GLAZING	DETAILS HEAD	DETAILS JAMB	RATING	CARD READER	HARDWARE SET	REMARKS
150A	150A	CONTROL ROOM	3'-6"	7'-0"	HM-F	PT-1	--	HM-001	PT	--	5/AI-696	4/AI-696		●	2.0	17
150B	150B	STORAGE	3'-6"	7'-0"	HM-F	PT-1	--	HM-001	PT	--	5/AI-696	4/AI-696		●	2.0	17
150C	150	SEMINAR	3'-0"	9'-10"	WD-F	--	--	AL	PT	--	--	--	--	●	3.0	17
150D	150	SEMINAR	3'-0"	9'-10"	WD-F	--	--	AL	PT	--	--	--	--	●	3.0	17
150E	150A	CONTROL ROOM	3'-0"	7'-0"	WD-F	PT-1	--	AL	PT	--	12/AI-696	12/AI-696	--	●	27.0	23
245	245	CONFERENCE ROOM	3'-0"	8'-0"	GL-F	--	GL-3	--	--	--	7/AI-282		--	●	21.0	FULL GLASS
246	246	CONFERENCE ROOM	3'-0"	8'-0"	GL-F	--	GL-3	--	--	--	7/AI-282		--	●	21.0	FULL GLASS

GENERAL NOTES

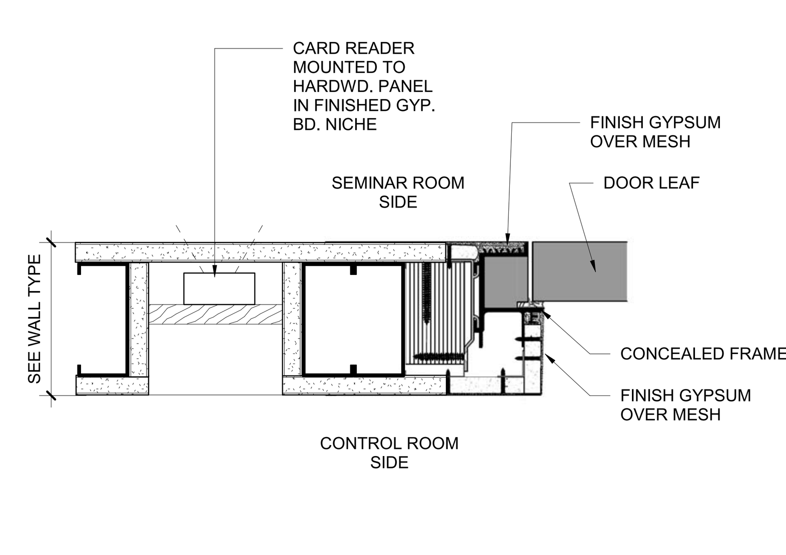
A. REFER TO DRAWING AI-741FINISH LEGEND FOR GLAZING TYPES
B. REFER TO DRAWING AI-741 FINISH LEGEND FOR DOOR AND FRAME FINISHES
C. REFER TO SPECIFICATIONS 087105 & 102215 FOR DOOR HARDWARE SETS
D. ALL FLUSH STAINLESS STEEL DOOR FRAME WIDTHS TO MATCH PARTITION DIMENSION + 1/4" TO ALLOW FOR CONSTRUCTION TOLERANCES. DRYWALL FINISH TO BE FLUSH WITH DOOR FRAME ON BOTH SIDES OF OPENING.
E. DOOR FRAME THROAT WIDTH TO BE DETERMINED BY CONTRACTOR; REFER TO PARTITION TYPES AND DOOR FRAME DETAILS.

DOOR SCHEDULE REMARKS LEGEND P4

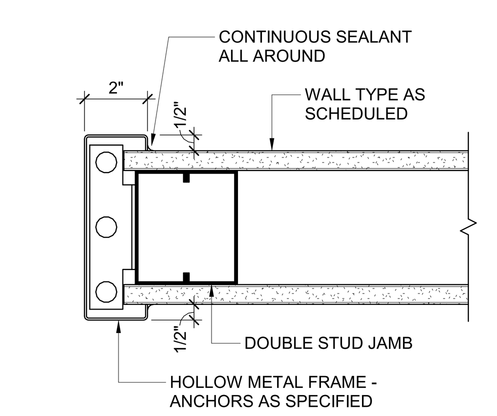
1. EXISTING DOOR
2. DOOR DIMENSIONS OVERLAP FRAMED OPENING, HM FRAME SIZE TO BE COORDINATED WITH DOOR HARDWARE
3. 5'-4" CLEAR CORRIDOR DIMENSION
4. VERIFY DOOR DIMENSIONS BASED ON EXISTING CURTAINWALL...
5. CARD READER BOTH SIDES OF DOOR
6. CARD READER BOTH SIDES OF DOOR, DELAYED EGRESS WITH LOCAL ALARM, BIOMETRIC EYE SCANNER
7. CARD READER BOTH SIDES OF DOOR, DELAYED EGRESS WITH LOCAL ALARM
8. PREPARE DOOR FOR FUTURE CARD READER
9. INTEGRATED TOTAL DOOR SYSTEM; DOORS TO BE ON HOLD OPENS - BOTH LEAFS HELD OPEN AT 90 DEGREES
10. SLIDING WOOD DOOR
11. OVERHEAD COILING SECURITY GRILLE WITH LOCK BY DOOR MANUFACTURER
12. PREPARE DOOR FOR FUTURE CARD READER AND FUTURE AUTOMATIC OPERATOR
13. FIRE RATED DOOR, FIRE RATED SIDE AND TRANSOM LITES
14. PAINT DOOR FRAME TO MATCH ADJACENT WALL COLOR, PT-6
15. OVERHEAD COILING FIRE RATED DOOR.
16. FIRE RATED GLASS DOOR AND SIDE-LITE SYSTEM - TGP OR EQUAL.
17. CARD READER INTEGRATED INTO DOOR HARDWARE
18. CARD READER, BIOMETRIC EYE SCANNER
19. REPLACE EXISTING DOOR WITH NEW DOOR & DOOR HARDWARE
20. CASED OPENING
21. EXISTING HM FRAME TO REMAIN; PAINT
22. CUSTOM DOOR IN CUSTOM FRAME
23. SOLID CORE FRAMELESS WOOD DOOR, PAINT GRADE FINISH. FIELD PREP DOOR TO ACCEPT CONCEALED HARDWARE AND FRAME, AND LOCKSET

ABBREVIATIONS

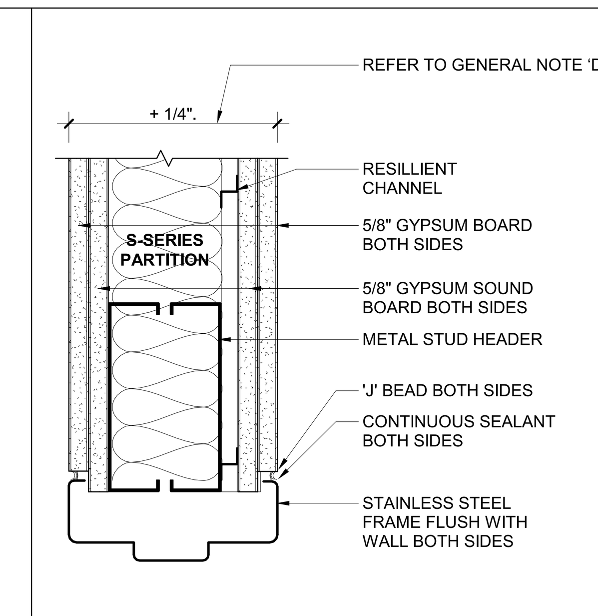
AL	ALUMINUM
CA	CLEAR ANODIZED
F	FLUSH
FG	FULL GLASS
FPR	FLUOROPOLYMER FINISH
FRP	FIBERGLASS REINFORCED POLYESTER
GL	GLAZING
HM	HOLLOW METAL
MFR	MANUFACTURER STANDARD
MTL	METAL
N	NARROW LITE
OC	OVERHEAD COILING DOOR
OG	OVERHEAD COILING GRILLE
PT	PAINT
SS	STAINLESS STEEL
ST	STEEL
TF	TRANSPARENT FINISH
WD	WOOD



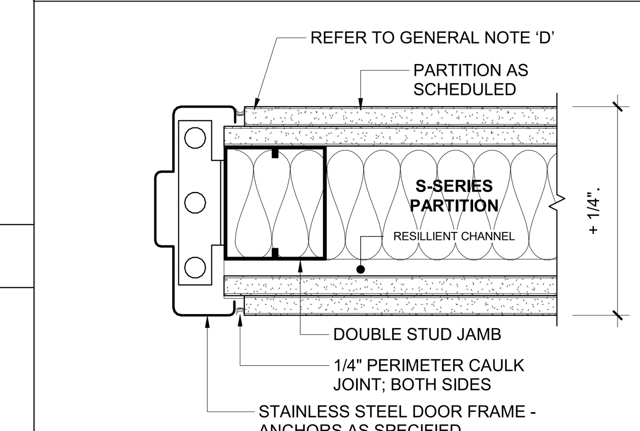
12 JAMB / HEAD DETAIL - CONCEALED FRAME
AI-696 3" = 1'-0"



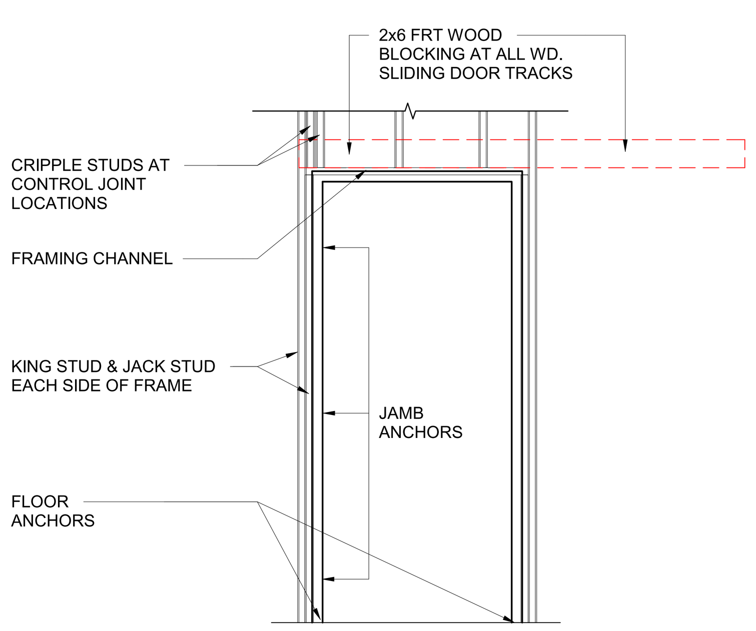
11 JAMB DETAIL - CASED OPENING
AI-696 3" = 1'-0"



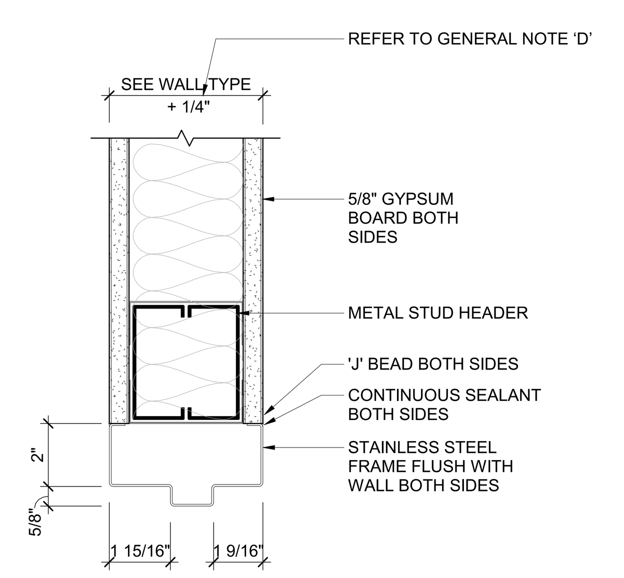
10 HEAD DETAIL - VIVARIUM
AI-696 3" = 1'-0"



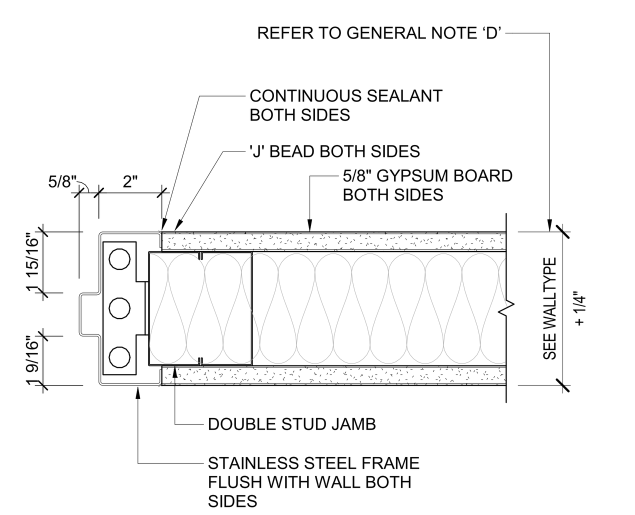
4A JAMB DETAIL - VIVARIUM
AI-696 3" = 1'-0"



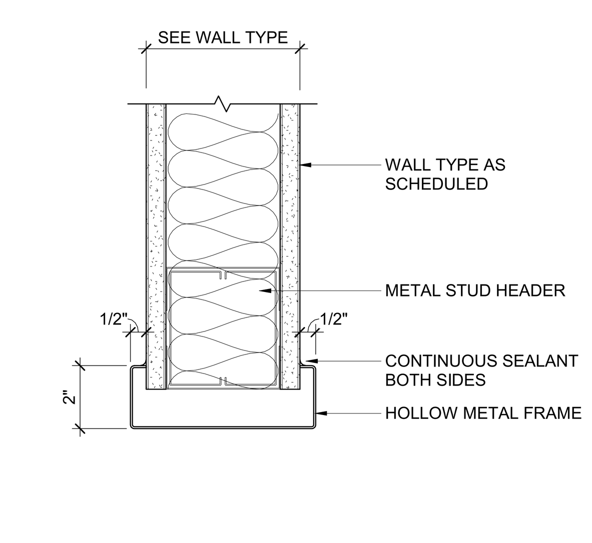
9 TYPICAL DOOR OPENING FRAMING
AI-696 1/2" = 1'-0"



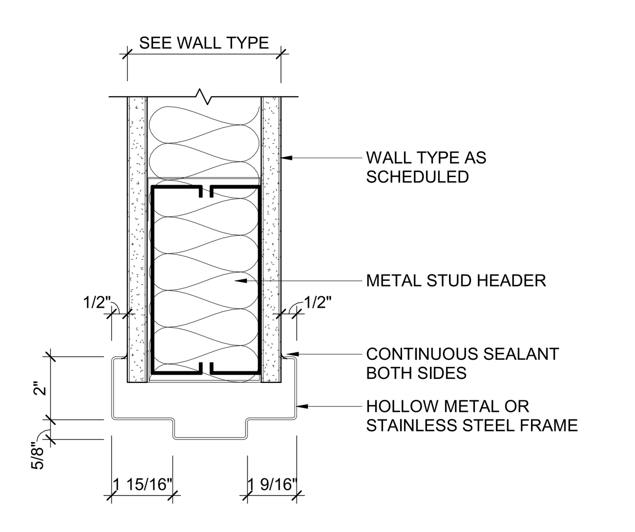
8 HEAD DETAIL - VIVARIUM
AI-696 3" = 1'-0"



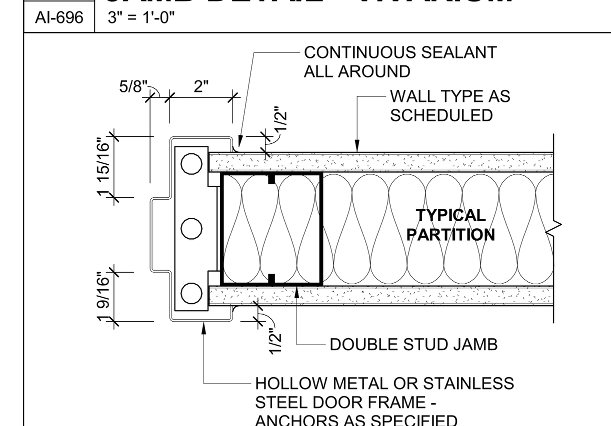
7 JAMB DETAIL - VIVARIUM
AI-696 3" = 1'-0"



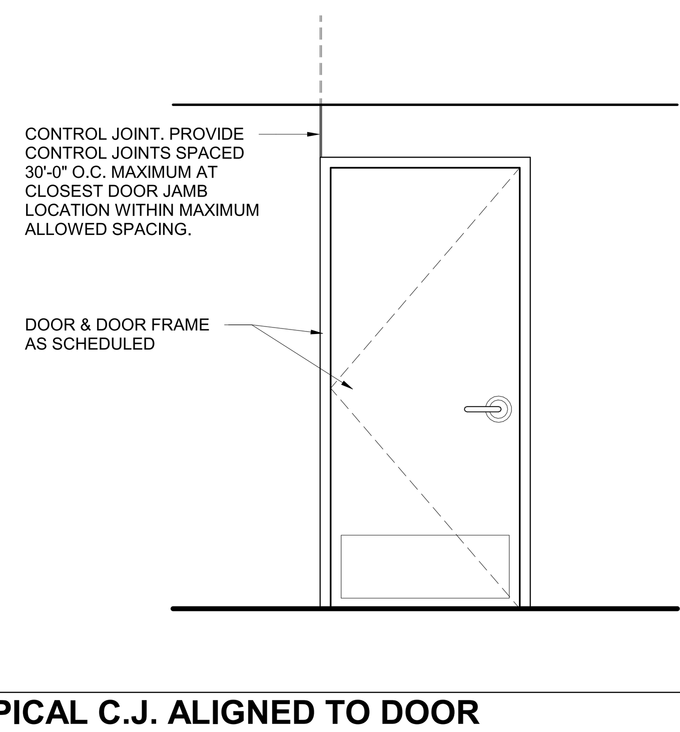
6 HEAD DETAIL - CASED OPENING
AI-696 3" = 1'-0"



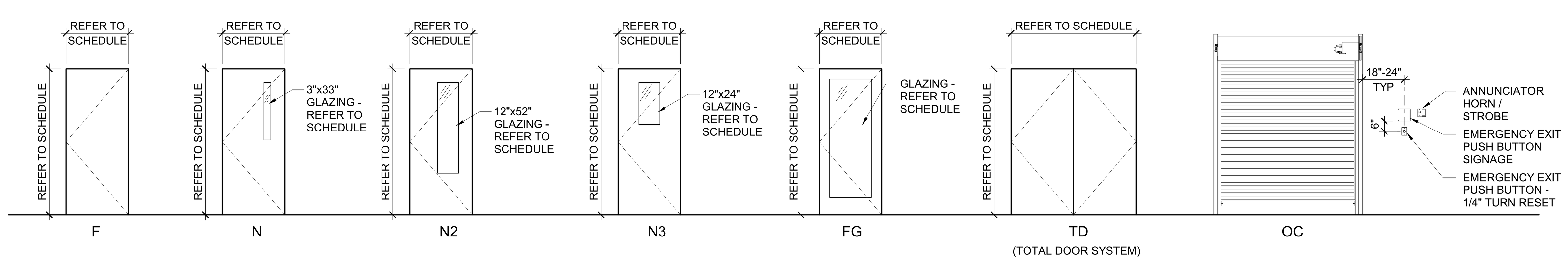
5 HEAD DETAIL
AI-696 3" = 1'-0"



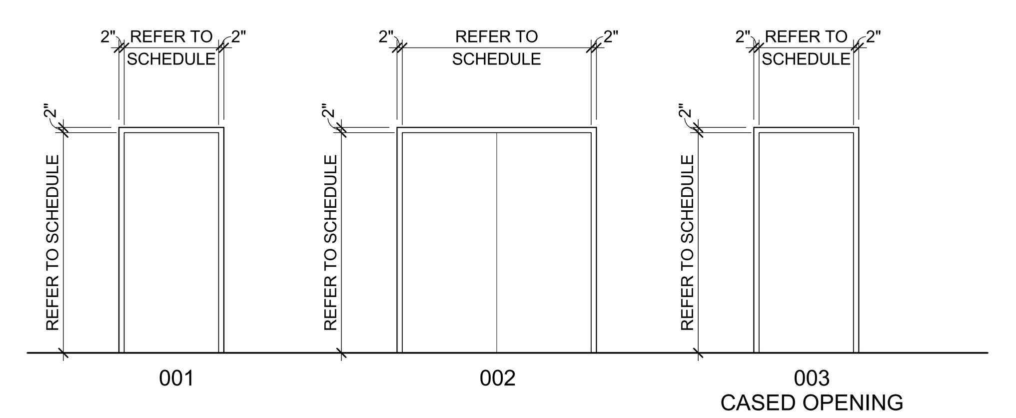
4 JAMB DETAIL
AI-696 3" = 1'-0"



3 TYPICAL C.J. ALIGNED TO DOOR
AI-696 1/2" = 1'-0"



2 DOOR ELEVATIONS
AI-696 1/4" = 1'-0"



1 DOOR FRAME ELEVATIONS
AI-696 1/4" = 1'-0"

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - SD REVIEW	09/18/20
2	P4 - DD REVIEW	10/23/20
3	P4 - CD REVIEW	12/04/20
4	P4 - BID & PERMIT	01/08/21

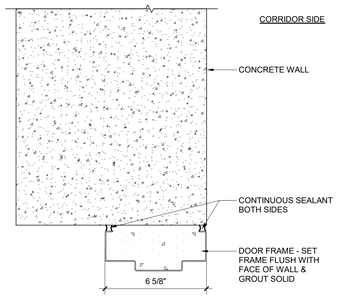
Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: P4-5350

MICHAEL J. BATTOCLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

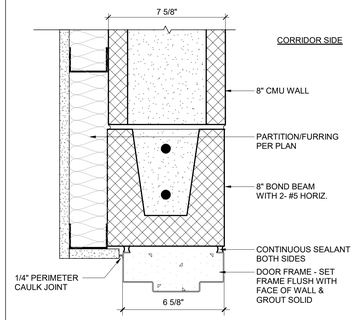
DRAWING TITLE
DOOR SCHEDULE & DETAILS

SHEET NO.
AI-696

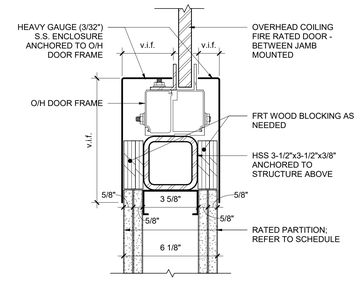
1/12/2021 11:52:23 AM



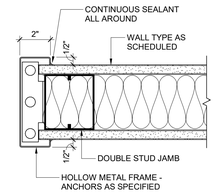
13 AI-697 **HEAD DETAIL - CONCRETE**
3" = 1'-0"



9 AI-697 **HEAD DETAIL - CMU**
3" = 1'-0"



5 AI-697 **DOOR JAMB - O/H COILING**
3" = 1'-0"



1 AI-697 **JAMB DETAIL - CASED OPENING**
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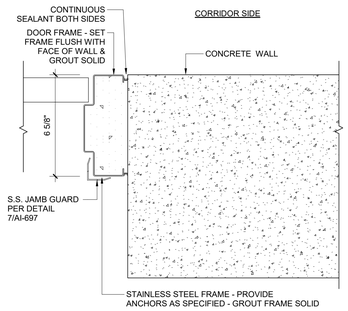
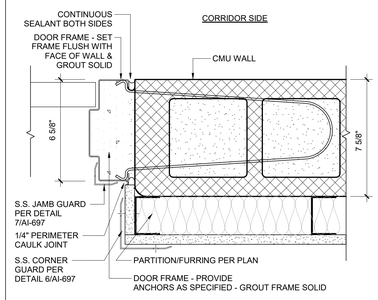
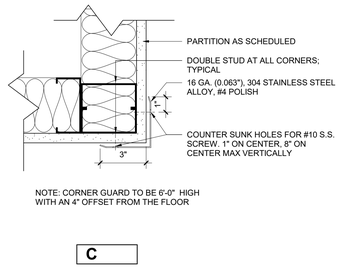


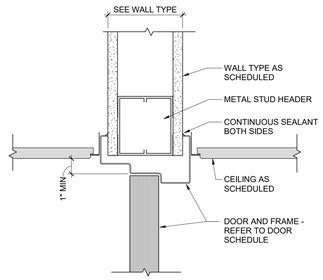
14 AI-697 **JAMB DETAIL - CONCRETE**
3" = 1'-0"



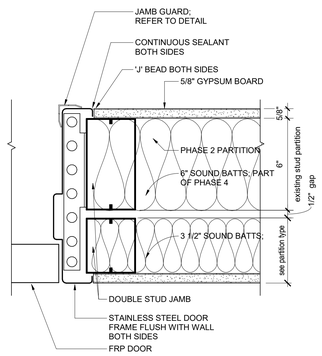
10 AI-697 **JAMB DETAIL - CMU**
3" = 1'-0"



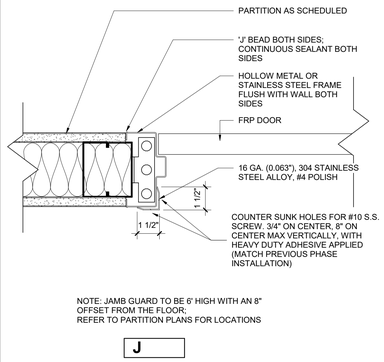
6 AI-697 **TYPICAL CORNER GUARD**
3" = 1'-0"



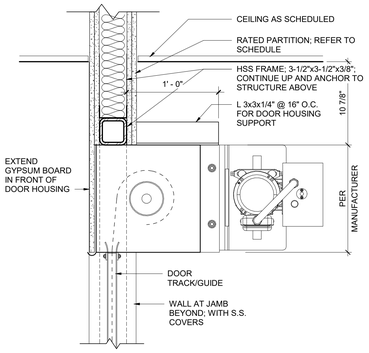
2 AI-697 **HEAD DETAIL**
3" = 1'-0"



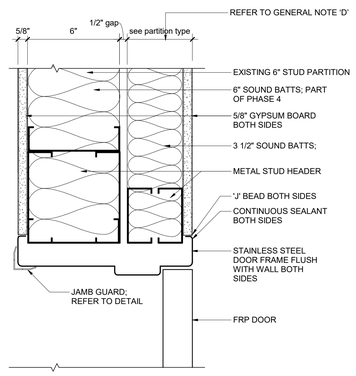
11 AI-697 **JAMB DETAIL - VIVARIUM**
3" = 1'-0"



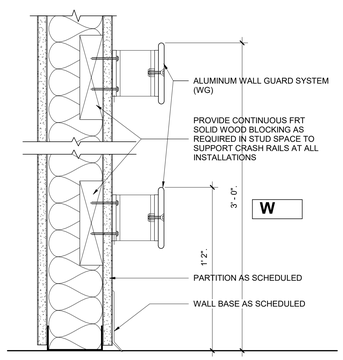
7 AI-697 **TYPICAL JAMB GUARD**
3" = 1'-0"



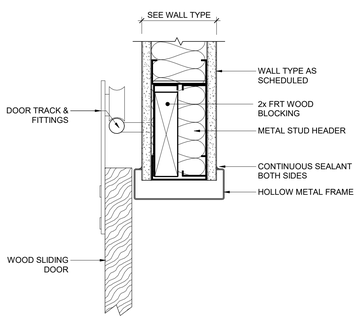
3 AI-697 **DOOR HEAD - O/H COILING; FIRE RATED**
1 1/2" = 1'-0"



12 AI-697 **HEAD DETAIL - VIVARIUM**
3" = 1'-0"



8 AI-697 **TYPICAL WALL GUARD**
3" = 1'-0"



4 AI-697 **HEAD DETAIL - WOOD SL. DOOR**
3" = 1'-0"

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UK Project Number 2552.0

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3	P4 - BID & PERMIT	01/08/21

Drawn By	
Author	
Checked By	
Checker	
Client Number 514	
Project Number P4-5350	

MICHAEL J. BATTCOMBE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

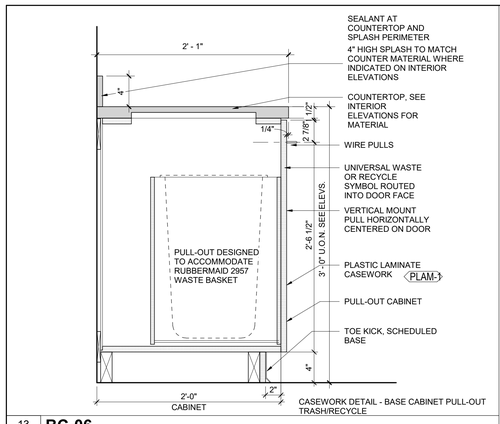
DRAWING TITLE

DOOR & WALL PROTECTION DETAILS

SHEET NO.

AI-697

1/11/2021 5:12:42 PM



13 **BC-06**
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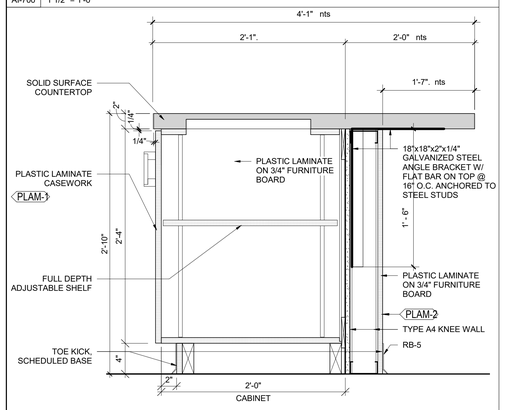
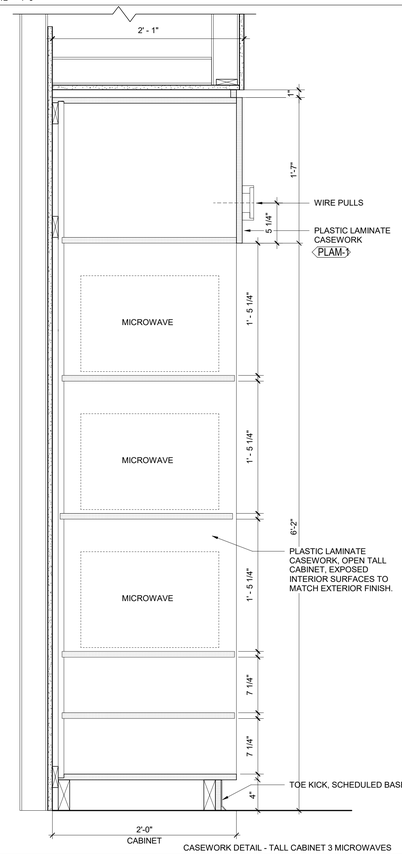
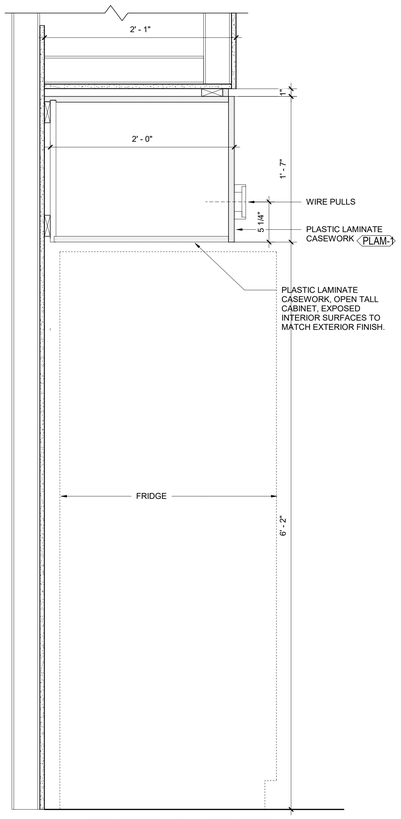


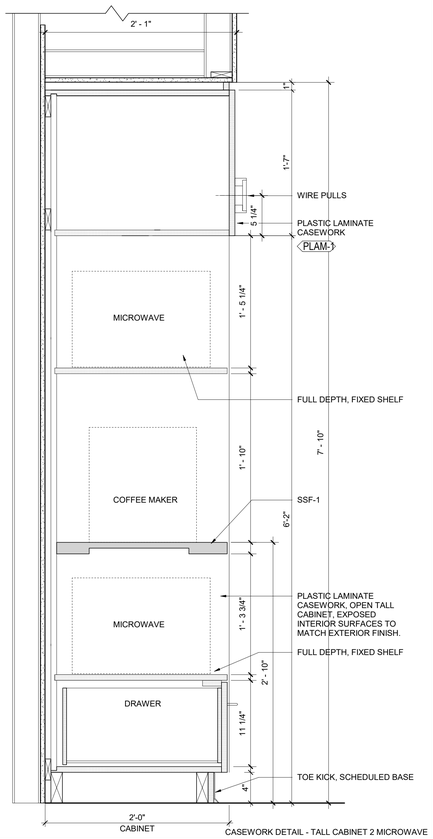
14 **COLLAB. 605 - ISLAND SECTION**
AI-700 1 1/2" = 1'-0"



15 **TC-02**
AI-700 1 1/2" = 1'-0"



11 **TC-03**
AI-700 1 1/2" = 1'-0"



12 **TC-04**
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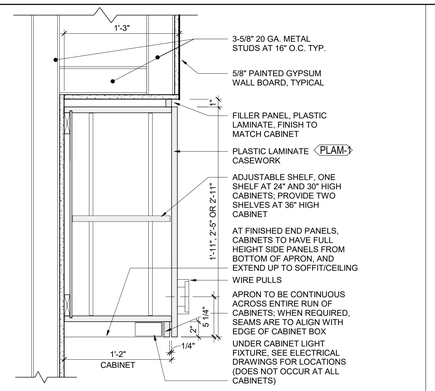
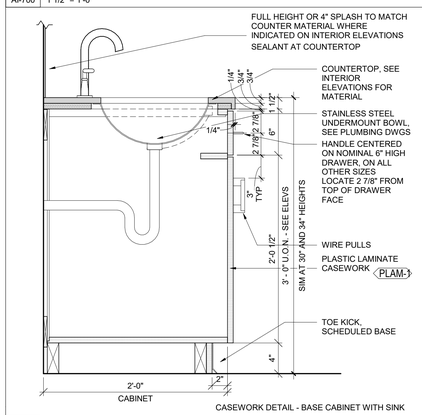
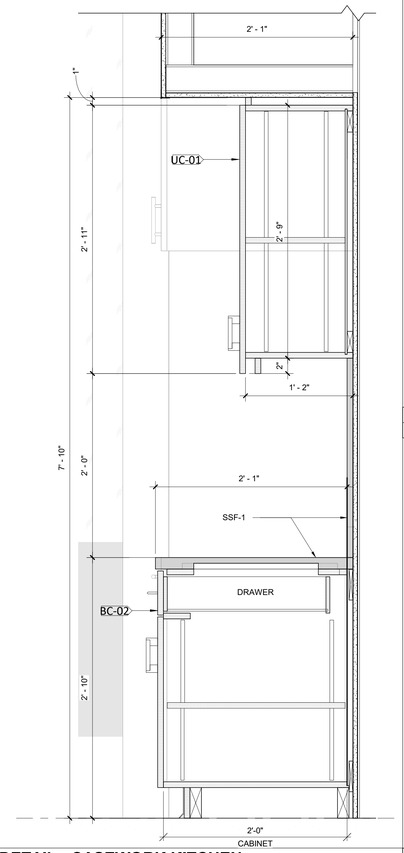


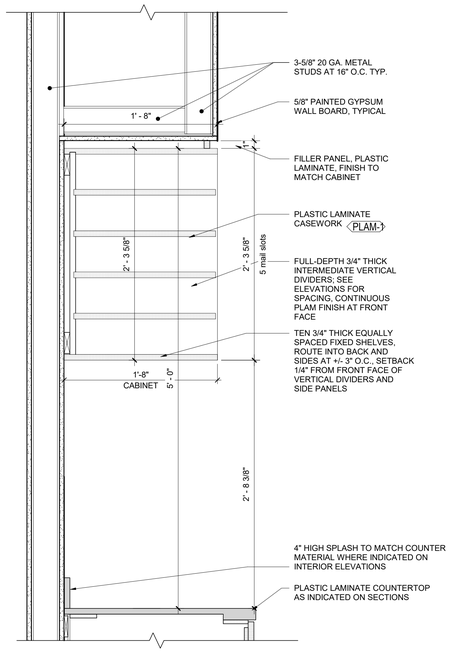
8 **UC-01**
AI-700 1 1/2" = 1'-0"



9 **BC-09**
AI-700 1 1/2" = 1'-0"



10 **DETAIL - CASEWORK KITCHEN**
AI-700 1 1/2" = 1'-0"



5 **UC-02**
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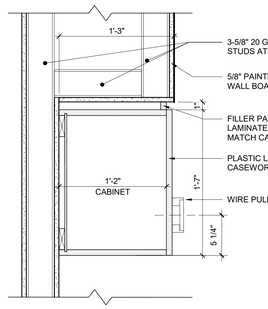
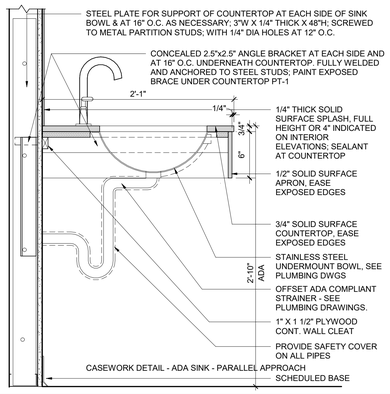


6 **UC-03**
AI-700 1 1/2" = 1'-0"



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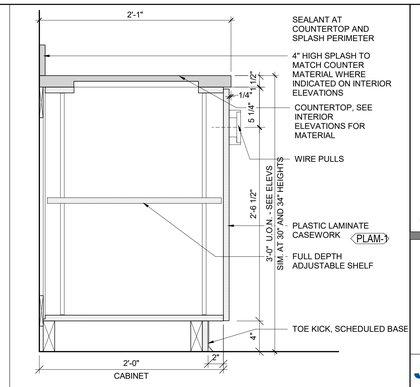

1 **BC-01**
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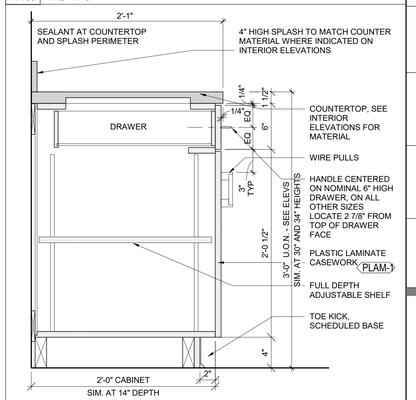

2 **BC-02**
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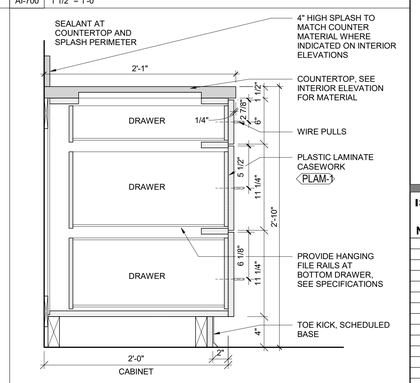
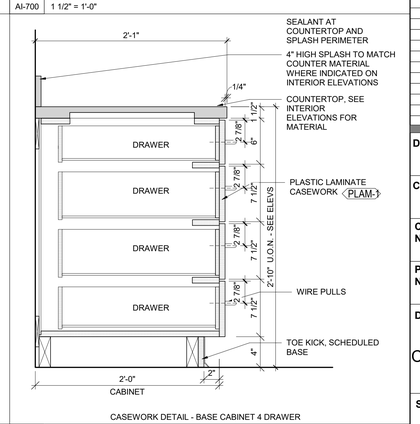


3 **BC-03**
AI-700 1 1/2" = 1'-0"



4 **BC-04**
AI-700 1 1/2" = 1'-0"

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Drawn By	
Author	
Checked By	
Checker	
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTCOTTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE

CASEWORK SECTIONS

SHEET NO.

AI-700

1/11/2021 5:13:17 PM

ROOM FINISH SCHEDULE LEVEL SIX - P4

NUMBER	NAME	FLOOR	BASE	WALLS	CEILING	NOTES
600E	CORRIDOR	RSF	RB-1	PT-1	ACT-2	
600E1	BAS CLOSET	CS-1	RB-1	PT-1	NO CEILING	
600EN	CORRIDOR	RES-2	RB-1	PT-1	ACT-2	
600ES	CORRIDOR	RSF-2	RB-1	PT-1	ACT-2	
600N	CORRIDOR	RSF	RB-1	PT-1	ACT-2	
600W	CORRIDOR	RSF	RB-1	PT-1	ACT-2	
600WN	CORRIDOR	RSF-2	RB-1	PT-1	ACT-2	
600WS	CORRIDOR	RSF-2	RB-1	PT-1	ACT-2	
601	LOBBY	RSF-1	RB-1	PT-1	ACT-2	
601	LOBBY	RSF-1	RB-1	PT-1	ACT-2	
601A	CORRIDOR	RSF-1	RB-1	PT-6	ACT-1	
602	TOILET	CTF-3	- -	CTW-1	ACT-1	
603	TOILET	CTF-3	- -	CTW-1	ACT-1	
604	TOILET	CTF-3	- -	CTW-1	ACT-1	
605	COLLABORATION	RSF-1	RB-1	PT-1	GYP-1	RB-5 ON ISLAND BASE
605A	CONFERENCE RM	CPT-52	RB-5	PT-1	GYP-1	
606	COPY	CPT	RB-1	PT-1	ACT-1	
607	CONFERENCE ROOM	CPT	RB-1	PT-1	ACT-1	
608	CONFERENCE ROOM	CPT	RB-1	PT-1	ACT-1	
609	COLLABORATION	RSF	RB-1	PT-1	GYP-1	
610	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
611	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
612	POST DOC/GRAD/TECH	RSF-2	RB-1	PT-1	ACT-2	
613	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
615	OFFICE	CPT	RB-1	PT-1	ACT-2	
616	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
617	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
618	POST DOC/GRAD/TECH	RSF-2	RB-1	PT-1	ACT-2	
619	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
620	OFFICE	CPT	RB-1	PT-1	ACT-2	FLEX OFFICE
621	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
622	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
623	POST DOC/GRAD/TECH	RSF-2	RB-1	PT-1	ACT-2	
624	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
625	OFFICE	CPT	RB-1	PT-1	ACT-2	FLEX OFFICE
628	ELECTRICAL	EXISTING	EXISTING	EXISTING	EXISTING	
629	CUSTODIAL	RSF-1	RB-1	PT-1	NO CEILING	
631	COPY	RSF-1	RB-1	PT-1	ACT-2	
632	OFFICE	CPT	RB-1	PT-1	ACT-2	FLEX OFFICE
633	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
634	POST DOC/GRAD/TECH	RSF-2	RB-1	PT-1	ACT-2	
635	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
636	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
637	OFFICE	CPT	RB-1	PT-1	ACT-2	FLEX OFFICE
638	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
639	POST DOC/GRAD/TECH	RSF-2	RB-1	PT-1	ACT-2	
640	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
641	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
643	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
644	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
645	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
646	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
647	POST DOC/GRAD/TECH	RSF-2	RB-1	PT-1	ACT-2	
648	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
649	FACULTY OFFICE	CPT	RB-1	PT-1	ACT-2	
650	LAB NEIGHBORHOOD MODULE	RSF-2	RB-1	PT-1	ACT-2	
650A	FUME HOOD ROOM	RSF-2	RB-1	PT-1	ACT-1	
650B	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
650C	LINEAR EQUIP ROOM	RSF-2	RB-1	PT-1	ACT-1	
650C1	BAS CLOSET	CS-1	RB-1	PT-1	NO CEILING	
650D	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
650E	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
650F	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
650G	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
650H	LINEAR EQUIP ROOM	RSF-2	RB-1	PT-1	ACT-1	
650J	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
650K	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
651	LAB NEIGHBORHOOD MODULE	RSF-2	RB-1	PT-1	ACT-2	
651A	FUME HOOD ROOM	RSF-2	RB-1	PT-1	ACT-1	
651B	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
651C	LINEAR EQUIP ROOM	RSF-2	RB-1	PT-1	ACT-1	
651D	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
651E	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
651F	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
651G	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
651H	LINEAR EQUIP ROOM	RSF-2	RB-1	PT-1	ACT-1	
651H1	ENVIRONMENTAL ROOM	NO FLOORING	NO BASE	NO FINISH	NO CEILING	
651H2	STERILIZER ALCOVE	RES-1	RB-1	PT-1	ACT-1	
651J	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
651K	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
652	LAB NEIGHBORHOOD MODULE	RSF-2	RB-1	PT-1	ACT-1	
652A	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
652B	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
652C	LINEAR EQUIP ROOM	RSF-2	RB-1	PT-1	ACT-1	
652D	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
652E	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
652F	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
652G	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
652H	LINEAR EQUIP ROOM	RSF-2	RB-1	PT-1	ACT-1	
652J	PROCEDURE ROOM	RSF-2	RB-1	PT-1	ACT-1	
652K	FUME HOOD ROOM	RSF-2	RB-1	PT-1	ACT-1	
657	ELECTRICAL	EXISTING	EXISTING	EXISTING	EXISTING	

ROOM FINISH SCHEDULE LEVEL 1 & 2 - P4

NUMBER	NAME	FLOOR	BASE	WALLS	CEILING	NOTES
150	SEMINAR	CPT-51	WB-1	PT-1; PT-6	PT-1; PT-6	PAINT WALL BASE TO MATCH WALL COLOR
150A	CONTROL ROOM	RSF-1	RB-1	PT-1	NO CEILING	PAINT EXPOSED STRUCTURE ABOVE
150B	STORAGE	RSF-1	RB-1	PT-1	NO CEILING	PAINT EXPOSED STRUCTURE ABOVE
245	CONFERENCE ROOM	CPT-52	WB-1	PT-1	PT-1	PAINT WALL BASE TO MATCH WALL COLOR
246	CONFERENCE ROOM	CPT-52	WB-1	PT-1	PT-1	PAINT WALL BASE TO MATCH WALL COLOR
247	VESTIBULE	CTF-1	WB-1	PT-1	PT-1	PAINT WALL BASE TO MATCH WALL COLOR

ROOM FINISH SCHEDULE LOWER LEVEL - P4

NUMBER	NAME	FLOOR	BASE	WALLS	CEILING	NOTES
002	LAUNDRY	VCT	RB-1	PT-1	NO CEILING	PAINT EXPOSED STRUCTURE ABOVE
013A	STORAGE	CS-1	RB-1	PT-1	NO CEILING	PAINT EXPOSED STRUCTURE ABOVE
057	STORAGE	CS-1	RB-1	PT-1	NO CEILING	PAINT EXPOSED STRUCTURE ABOVE
074	CORRIDOR	RES-1	RES-1	PT-4	GYP-1	CLG PT-4
074A	BEHAVIOR	RES-1	RES-1	PT-4	GYP-1	CLG PT-4; AP-1
074B	BEHAVIOR	RES-1	RES-1	PT-4	GYP-1	CLG PT-4; AP-1
074C	BEHAVIOR	RES-1	RES-1	PT-4	GYP-1	CLG PT-4; AP-1
074D	BEHAVIOR	RES-1	RES-1	PT-4	GYP-1	CLG PT-4; AP-1
074E	BEHAVIOR	RES-1	RES-1	PT-4	GYP-1	CLG PT-4; AP-1
076	FLOW - CYTOMETRY LAB	RSF-2	RB-1	PT-1	ACT-1	
076A	FLOW - IM LAB	RSF-2	RB-1	PT-1	ACT-1	
076B	BIOCONTAIN.	RSF-2	RB-1	PT-1	ACT-1	
076C	OFFICE	CPT-52	RB-1	PT-1	ACT-1	
080	CORRIDOR	RSF-1	RB-1	PT-1	ACT-1	
080A	CUSTODIAL	RSF-1	RB-1	PT-1	ACT-1	
080B	SUPPORT	RSF-1	RB-1	PT-1	ACT-1	
080C	ANIMAL RM.	RES-1	RES-1	PT-4	GYP-1	CLG PT-4
080D	ULTRASOUND	RSF-2	RB-1	PT-1	ACT-1	
080E	ULTRASOUND	RSF-2	RB-1	PT-1	ACT-1	
080F	ULTRASOUND	RSF-2	RB-1	PT-1	ACT-1	
080G	MICRO-CT	RSF-2	RB-1	PT-1	ACT-1	
082	CORRIDOR	RSF-1	RB-1	PT-1	ACT-1	
082A	IMAGING	RSF-2	RB-1	PT-1	ACT-1	
082B	IMAGING	RSF-2	RB-1	PT-1	ACT-1	
082C	IMAGING	RSF-2	RB-1	PT-1	ACT-1	
082D	IMAGING	RSF-2	RB-1	PT-1	ACT-1	
084	CORRIDOR	RSF-1	RB-1	PT-1	ACT-1	
084A	IMAGING	RSF-2	RB-1	PT-1	ACT-1	
084B	PREP / SCRUB	RES-1	RES-1	PT-4	ACT-5	
084C	SURGERY	RES-1	RES-1	PT-4	ACT-5	
084D	PREP/RECOV.	RES-1	RES-1	PT-4	ACT-5	
084E	IMAGING	RSF-2	RB-1	PT-1	ACT-1	
086	CORRIDOR	RSF-1	RB-1	PT-1	ACT-1	
086A	WET LAB	RSF-1	RB-1	PT-1	ACT-1	
088	CORRIDOR	RSF-1	RB-1	PT-1	ACT-1	
088A	OFFICE	CPT-52	RB-1	PT-1	ACT-1	
088B	DATA PROCESSING	CPT-52	RB-1	PT-1	ACT-1	
088C	STAFF	CPT-52	RB-1	PT-1	ACT-1	
088D	IMAGING	RSF-2	RB-1	PT-1	ACT-1	
088E	OFFICE	CPT-52	RB-1	PT-1	ACT-1	
088F	OFFICE	CPT-52	RB-1	PT-1	ACT-1	

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760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By Author
Checked By Checker
Client Number 514
Project Number P4-5350

MICHAEL J. BATTY JOLLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY PROFESSIONAL ENGINEER

DRAWING TITLE

ROOM FINISH SCHEDULE

SHEET NO.

AI-740

1/11/2021 5:13:24 PM

FLOOR FINISHES

KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA
CPT-52	CARPET TILE	INTERFACE SILVER LININGS COLOR: CUSTOM; 264276-008 SIZE: 25CM x 1M	Susan Margraf 513-200-4734 susan.margraf@interface.com
CS-1	SEALED CONCRETE	V.O.C. COMPLIANT, WATER-BASED, NON-YELLOWING ACRYLIC SEALER	
CS-2	POLISHED CONCRETE	NOT USED	
CTF-1	CERAMIC TILE (LOBBY)	ANATOLIA TILE AND STONE NOTION PORCELEIN TILE COLOR: CARBON 68-314 SIZE: TILE 6" X 24" AND 12" X 24" MATCH EXISTING PATTERN GROUT: TEC: 941 RAVEN	Marsha McCauley 513-759-9325 marsha.mccauley@daltile.com
CTF-2	CERAMIC TILE	NOT USED	Elke Bangerter 763-559-5531 ebangerter@rbctile.com
CTF-3	CERAMIC TILE (RESTROOMS)	SHADES BY CROSSVILLE SEMI-POLISH TILE COLOR: INK AV249 SIZE: TILE 12" X 24" STAGGERED PATTERN GROUT: TEC: 941 RAVEN	www.crossvilleinc.com
CTF-4	CERAMIC TILE	NOT USED	
RES-1	RESINOUS FLOORING	SIKAFLOOR DEKOFLAKE UEF MEDIUM DUTY SELF-LEVELING CEMENTITIOUS URETHANE SLURRY WITH BROADCAS FLAKE SYSTEM COLOR: GRANITE SEAMLESS COVE TRANSITION AT ALL WALLS AND FLOOR PENETRATIONS.	Jim Hendley 513-638-0519 Sika Corporation
RES-2	RESINOUS FLOORING	NOT USED	
RSF-1	RESILIENT SHEET FLOORING	NORA SYSTEMS, INC NORAPLAN DEGREE COLOR: 6328 ST PAUL	Brandon Lyons 502-780-1356 brandon.lyons@nora.com
RSF-2	RESILIENT SHEET FLOORING	NORA SYSTEMS, INC NORAPLAN DEGREE COLOR: 6329 DENVER	Brandon Lyons 502-780-1356 brandon.lyons@nora.com
RSF-3	RESILIENT SHEET FLOORING	NORA SYSTEMS, INC NORAPLAN DEGREE COLOR: 6330 JUNEAU	Brandon Lyons 502-780-1356 brandon.lyons@nora.com
VCT	VINYL COMPOSITION TILE FLOORING	ARMSTRONG MIGRATIONS BBT COLOR: PLATINUM GRAY T3501	
TZO-1	TERRAZZO	NOT USED	T&M Supply Terrazzo Division 847-947-7300

BASE FINISHES

KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA
RB-1	RUBBER BASE	MANNINGTON BURKE BASE 660 ROCKY	Ivan Stoler 718-526-7890 WWW.ALLSTATERUBBER.COM
RB-4	RUBBER BASE W/ LUMINOUS STRIP	NOT USED	
RB-5	RUBBER BASE	ROPPE COLOR: 620 PLUM	
RB-6	RUBBER BASE	NOT USED	
RB-7	RUBBER BASE	NOT USED	
CTB	CERAMIC TILE BASE	RBC TILE REFER TO AI-742 FOR DETAIL	
WB-1	WOOD BASE MOULDING	4" x 3/4" PRE-PRIMED POPLAR REFER TO 4/AI-694 & 16/AI-742 FOR DETAILS	

STAIR TREADS

KEY		SPECIFICATION	SALES & TESTING DATA
STAIR-C OWNER FURNISHED CONTRACTOR INSTALLED	RUBBER LUMINOUS NOSING	TARKETT JOHNSONITE SAFE-T-FIRST PVITSSNN-XX COLOR: 40 BLACK	Scott Stertmeyer 440-708-5759 scott.stertmeyer@tarkett.com
STAIR-C OWNER FURNISHED CONTRACTOR INSTALLED	RUBBER LUMINOUS HAND RAIL COVER	TARKETT JOHNSONITE SAFE-T-FIRST PHCN-XX COLOR: 40 BLACK	Scott Stertmeyer 440-708-5759 scott.stertmeyer@tarkett.com
STAIR-C OWNER FURNISHED CONTRACTOR INSTALLED	PLAIN AND WARNING LUMINOUS TAPE	TARKETT JOHNSONITE SAFE-T-FIRST PLAIN: P40708 WARNING: P44151	Scott Stertmeyer 440-708-5759 scott.stertmeyer@tarkett.com
STAIR-C OWNER FURNISHED CONTRACTOR INSTALLED	LUMINOUS SIGNAGE	TARKETT JOHNSONITE SAFE-T-FIRST EXIT RIGHT: P43867F EXIT LEFT: P42945F HANDLE BACKING STICKER: P60204	Scott Stertmeyer 440-708-5759 scott.stertmeyer@tarkett.com

WALL FINISHES

KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA
MP-1	1/8" ALUMINUM PLATE	1/8" ALUMINUM PLATE PANELS, PPG UC106708LB, DURANAR XLBC GRAPHITE GRAY	
PT-1	INTERIOR PAINT	BEHR COLOR: FROST 57U	Jeffrey Madigan 857-201-9402 JMADIGAN@BEHRBPAINT.COM
PT-4	EPOXY PAINT	SHERWIN WILLIAMS PRO INDUSTRIAL WATER BASED CATALYZED EPOXY COLOR TO BE SELECTED FROM MANUFACTURER STANDARD COLORS SEAMLESS COVE TRANSITION WHERE INSTALLED WITH RES-1 FLOORING	Sherwin-Williams Company
PT-5	INTERIOR PAINT	COLOR TO MATCH MP-1 BENJAMIN MOORE COLOR: TROUT GRAY 2124-20	
PT-6	INTERIOR PAINT	BENJAMIN MOORE COLOR: TROUT GRAY 2124-20	Chris Drigans 751-410-0176 chris.drigans@benjaminmoore.com
PT-9	INTERIOR PAINT	NOT USED	
PT-10	INTERIOR PAINT	NOT USED	
PT-11	INTERIOR PAINT	NOT USED	
CTW-1	CERAMIC WALL TILE (RESTROOMS)	TILE x DESIGN SELF EVOLVE COLOR: MATTE WHITE; SIZE: 2" X 16" GROUT: LATICRETE; #18 SAUTERNE	info@tilexdesign.com 763-551-5900
CTW-2	CERAMIC WALL TILE (WATER FOUNTAIN)	RBC TILE & STONE BACK BAY AV249 COLOR: 249 SIZE: TILE 6" X 24" RECTIFIED; RUNNING BOND - VERTICAL GROUT: LATICRETE; #22 MIDNIGHT BLACK	Elke Bangerter 763-559-5531 ebangerter@rbctile.com
SSW-1	SOLID SURFACE WALL PANELING	SWAN SS-60-3 SWANSTONE BATH WALL KIT COLOR: WHITE (010)	Joe Grote 731-438-0535 jgrote@praxiscompanies.com
WD-1	WOOD WALL PANELING	DOOGE VENEERS QTD HICKORY CW QUARTER CUT	doogeveneers.com 616-698-6450

CEILINGS

KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA
GYP-1	5/8" GYPSUM BOARD	5/8" GYPSUM BOARD ON SUSPENSION SYSTEM	
GYP-6	5/8" GYPSUM BOARD	5/8" GYPSUM BOARD ON LGMF SUPPORT SYSTEM	
ACT-1	SUSPENDED ACOUSTICAL CEILING TILE NRC: 0.95	2x2 ARMSTRONG OPTIMA SQUARE TEGULAR ON 15/16" GRID, WHITE	VL Monty Gillespie 513-309-1495 vlgillespie@armstrongceilings.com
ACT-2	SUSPENDED ACOUSTICAL CEILING TILE NRC: 0.95	2x4 ARMSTRONG OPTIMA SQUARE TEGULAR ON 15/16" GRID, WHITE SOME ROOMS TO RECEIVE 6" x 48" METALWORKS UNPERFORATED PANELS. SEE REFLECTED CEILING PLANS FOR LOCATIONS	VL Monty Gillespie 513-309-1495 vlgillespie@armstrongceilings.com
ACT-4	SUSPENDED ACOUSTICAL CEILING TILE NRC: 0.95	2x4 ARMSTRONG OPTIMA SQUARE LAY-IN ON 15/16" GRID, WHITE ACT-4 TO BE USED IN AS ACCENT TILE IN ACT-2 CEILINGS. SEE REFLECTED CEILING PLANS.	VL Monty Gillespie 513-309-1495 vlgillespie@armstrongceilings.com
ACT-5	VIVARIUM CEILING SYSTEM	CEILING TILE: 2X2 POLYMER CORE 2 PANEL BY LSP CEILING GRID: LSP 'GRIDLOCK' CEILING SUSPENSION SYSTEM BY LSP PROVIDE HOLD DOWN CLIPS	Life Science Products, Inc. 1-800-638-9874 www.lspinc.com
MP-1	1/8" ALUMINUM PLATE	1/8" ALUMINUM PLATE PANELS, FINISH TO MATCH EXTERIOR ALUMINUM PLATE PANELS	
PT-4	EPOXY PAINT	SHERWIN WILLIAMS PRO INDUSTRIAL WATER BASED CATALYZED EPOXY COLOR TO BE SELECTED FROM MANUFACTURER STANDARD COLORS	Sherwin-Williams Company

GLAZING TYPES

KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA
GL-2	SAFETY GLAZING	1/4" TEMPERED GLAZING	
GL-3	SAFETY GLAZING	1/2" TEMPERED GLAZING	
GL-4	SAFETY GLAZING	1/4" RED LAMINATED GLAZING (RC-3 / ROSE CHOCOLATE / VIVARIUM RED GLASS)	
GL-5	SAFETY GLAZING	1/4" CLEAR LAMINATED GLAZING (WITH PRIVACY FILM - OPAQUE)	
GL-7	SAFETY GLAZING	1/4" LAMINATED GLAZING	

CASEWORK FINISHES

KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA
PLAM-1	PLASTIC LAMINATE	WILSONART COLOR: 4880-38 CARBON MESH	Donna Ariapad 800-736-3524 donnaariapad@flagginc.com
PLAM-2	PLASTIC LAMINATE	PIONITE COLOR: SR525 SWEET 16	
PLAM-3	PLASTIC LAMINATE	NOT USED	
PLAM-4	PLASTIC LAMINATE	NOT USED	
PLAM-5	PLASTIC LAMINATE	NOT USED	
SSF-1 & SSF-2	SOLID SURFACE COUNTERTOP	DUPONT CORIAN QUARTZ COLOR: CLOUD WHITE	www.dupont.com
SSF-3	SOLID SURFACE COUNTERTOP WITH INTEGRAL SINK	NOT USED	www.dupont.com
SSF-4	SOLID SURFACE WINDOW SILL	NOT USED	www.dupont.com

WALL PROTECTION

KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA
BPR-1	ALUMINUM RAIL WALL GUARD	ALUMINUM SANI-RAIL ASR-2	Frank McDonald frankmcdonald@chartermi.net
SSF-1	SOLID SURFACE BACK SPLASH (O.25" THICKNESS)	DUPONT CORIAN QUARTZ COLOR: CLOUD WHITE APPLY IN ALL CUSTODIAL ROOMS AT MOP SINK (ROOMS 080A & 629)	www.dupont.com
CG-1	STAINLESS STEEL CORNER GUARD	LIFE SCIENCE PRODUCTS, INC.	Frank McDonald frankmcdonald@chartermi.net
CG-2	RUBBER CORNER GUARD	TARKETT JOHNSONITE SAFE-T-FIRST PVBGN-XX-4' COLOR: 50 WHITE	Scott Stertmeyer 440-708-5759 scott.stertmeyer@tarkett.com

WINDOW TREATMENTS

KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA
SH-1 (MANUAL SHADE)	ROLLER SHADES	MECHO SHADE, MECHO/5 EXTENDED BRACKET WITH CLOSURE PANEL AT SHADE & ADJACENT AREAS WITHOUT SHADE SHADECLOTH: SOHO COLLECTION,1600 (3% OPEN) 1612 THOMPSON (CHARCOAL)	Jeannine Land 216-221-9755 jland@kma.bz
SH-1A (AUTOMATED SHADE)	ROLLER SHADES	MECHO SHADE ELECTRO/1 EXTENDED BRACKET WITH CLOSURE PANEL AT SHADE & ADJACENT AREAS WITHOUT SHADE SHADECLOTH: SOHO COLLECTION, 1600 (3% OPEN) 1612 THOMPSON (CHARCOAL)	Jeannine Land 216-221-9755 jland@kma.bz
CUR-1	BLACKOUT CURTAIN	NOT USED	

MISCELLANEOUS

KEY	MATERIAL	SPECIFICATION	SALES & TESTING DATA
SL-1	SHOWER CURTAIN	NOT USED	
BD-1	WHITEBOARD	POLYVISION CORPORATION SERIES 110	John Crowther 770-833-1495 jcrowther@polyvision.com
BD-4	TACKBOARD	FORBO L910, 6MM THICKNESS, CUSTOM COLOR TO MATCH KENTUCKY BLUE PANTONE. INSTALL FLOOR TO CEILING IN 4' WIDTH WITH ALUMINUM EDGE TRIM, CLEAR ANODIZED AT THE LONG EDGES, NO VISIBLE SCREWS	Mike Bell Atlas Companies
FILM-1	DECORATIVE FILM	**NOT USED**	1-866-499-8857
FILM-2	OPAQUE FILM	**NOT USED**	1-866-499-8857
FILM-3 (TO BE APPLIED TO ALL GLASS WALL AND DOOR SYSTEMS)	2" OPAQUE FILM BAND	3M FASARA COLOR: OPAQUE WHITE PROVIDE MOCKUP	1-866-499-8857
-	TOILET COMPARTMENTS	WILSONART 4879-38 STEEL MESH OVER PHENOLIC CORE	Leslie Reed 800-433-3222 humphrl@wilsonart.com
FAB-3	ALCOVE SEAT FABRIC	NOT USED	
FAB-4	ALCOVE SEAT FABRIC	NOT USED	
FWC-3	ALCOVE WALL FABRIC	NOT USED	
FWC-4	ALCOVE WALL FABRIC	NOT USED	
AP-1	ACOUSTIC PANEL	ARMSTRONG 1" TECTUM FINALE, white, direct applied	VL Monty Gillespie 513-309-1495 vlgillespie@armstrongceilings.com
CTA-1	TRANSITION	Schluter DILEX-EHK, satin anodized aluminum	
CTA-2	TRANSITION	Schluter QUADEC, satin anodized aluminum	
CTA-3	TRANSITION	Schluter RENO-RAMP-K, satin anodized aluminum REFER TO AI-742 FOR DETAIL	

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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - SD REVIEW	09/18/20
2	P4 - DD REVIEW	10/23/20
3	P4 - CD REVIEW	12/04/20
4	P4 - BID & PERMIT	01/08/21

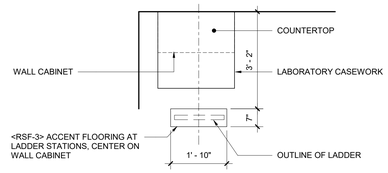
Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: P4-5350

MICHAEL J. BATTICUOTTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE: FINISH LEGEND

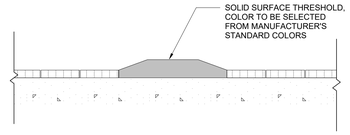
SHEET NO. AI-741

1/11/2021 5:13:30 PM

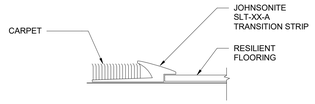


NOTE: ACCENT FLOORING TO BE INLAYED INTO SURROUNDING FLOORING FOR A RESULTING SMOOTH AND SEAMLESS FLOORING SURFACE

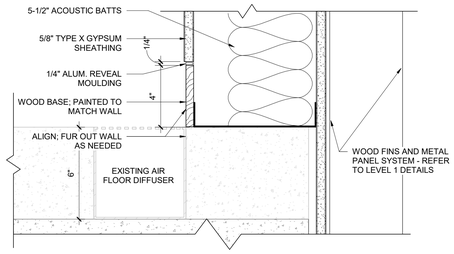
15 / AI-742 **ACCENT FLOORING AT LADDER STATIONS** 1/2" = 1'-0"



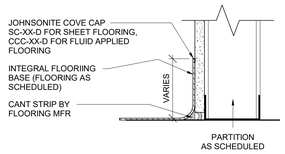
8 / AI-742 **CERAMIC TO CERAMIC** 3/4" = 1'-0"



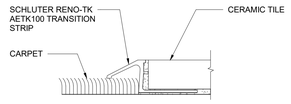
1 / AI-742 **CARPET TO RESILIENT** 12" = 1'-0"



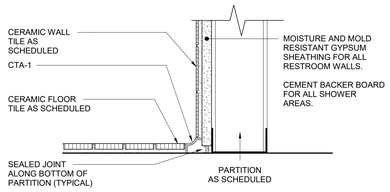
16 / AI-742 **GW - WALL BASE CONF. ROOM 245-246 - P4** 3" = 1'-0"



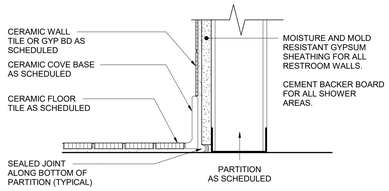
9 / AI-742 **INTEGRAL COVE BASE** 3" = 1'-0"



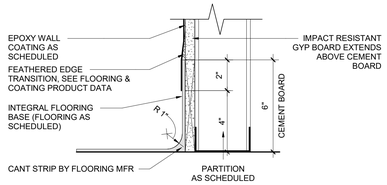
2 / AI-742 **CARPET TO CERAMIC** 12" = 1'-0"



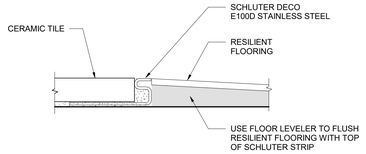
10 / AI-742 **TOILET ROOM BASE DETAIL** 3" = 1'-0"



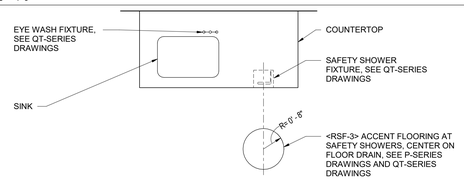
3 / AI-742 **CERAMIC TILE BASE DETAIL** 3" = 1'-0"



11 / AI-742 **INTEGRAL COVE BASE AT EPOXY COATED WALL** 3" = 1'-0"

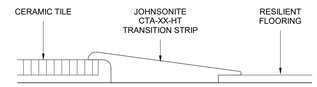


4 / AI-742 **CERAMIC TO RESILIENT** 12" = 1'-0"

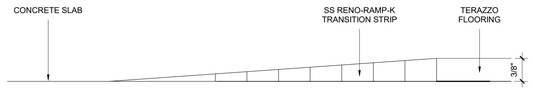


NOTE: ACCENT FLOORING TO BE INLAYED INTO SURROUNDING FLOORING FOR A RESULTING SMOOTH AND SEAMLESS FLOORING SURFACE

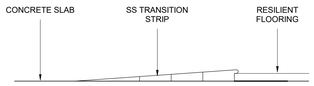
12 / AI-742 **ACCENT FLOORING AT EYE WASH STATIONS** 1/2" = 1'-0"



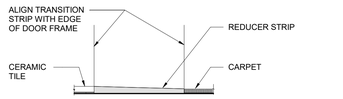
5 / AI-742 **CERAMIC TILE TO RESILIENT FLOORING** 12" = 1'-0"



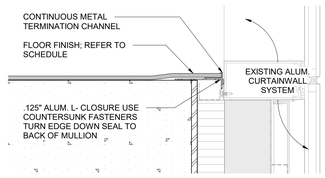
18 / AI-742 **CONCRETE SLAB TO TERRAZZO FLOORING** 12" = 1'-0"



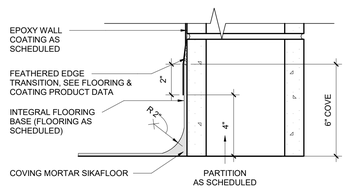
13 / AI-742 **CONCRETE SLAB TO RESILIENT FLOORING** 12" = 1'-0"



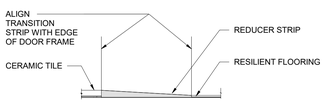
6 / AI-742 **CARPET TO CERAMIC @ DOOR FRAME** 3" = 1'-0"



19 / AI-742 **FLOORING AT CW MULLION** 3" = 1'-0"



14 / AI-742 **INTEGRAL COVE BASE AT EPOXY COATED CMU WALL** 3" = 1'-0"



7 / AI-742 **RESILIENT TO CERAMIC @ DOOR FRAME** 3" = 1'-0"

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTOCLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY PROFESSIONAL ENGINEER

DRAWING TITLE

FLOOR TRANSITION DETAILS

SHEET NO.

AI-742

1/11/2021 5:14:05 PM

SIGNAGE PLAN GENERAL NOTES

A. ALL EXISTING ROOM SIGNAGE IS TO BE REMOVED AND RETURNED TO THE OWNER.
B. SIGN TYPES DESIGNATIONS COORDINATE WITH SIGN TYPES AS IDENTIFIED IN THE UNIVERSITY OF KENTUCKY DESIGN AND CONSTRUCTION STANDARDS AVAILABLE ONLINE.
C. THE FONT TO BE COORDINATED WITH THE UNIVERSITY OF KENTUCKY SIGNAGE STANDARDS.
D. FONT HEIGHTS ARE TO BE AS SHOWN IN THE UNIVERSITY OF KENTUCKY SIGNAGE STANDARDS.
E. USE BRAILLE GRADE SPECIFIED IN THE UNIVERSITY OF KENTUCKY SIGNAGE STANDARDS.
F. DIRECTIONAL ARROWS, WHERE SHOWN, ARE TO CONFORM TO THE DIMENSIONS AND PROPORTIONS AS IDENTIFIED IN UNIVERSITY OF KENTUCKY SIGNAGE STANDARDS.
G. TYPICAL MOUNTING HEIGHT IS TO BE 61" TO TOP OF SIGN FOR ALL SIGNS U.N.O.
H. ROOM SIGNS ARE TO BE MOUNTED ON THE LATCH SIDE OF THE DOOR, U.N.O.
I. PROVIDE A BACK PLATE AT ALL LOCATIONS WHERE ROOM SIGNAGE MOUNTING LOCATION AT THE LATCH SIDE OF THE DOOR IS ON GLASS.
J. ROOM SIGNS SHOULD BE CENTER ALIGNED VERTICALLY WITH ROOM SCHEDULING DEVICES, U.N.O.
K. ROOM SIGNS SHOULD BE CENTER ALIGNED VERTICALLY WITH CARD READER DEVICES, U.N.O.
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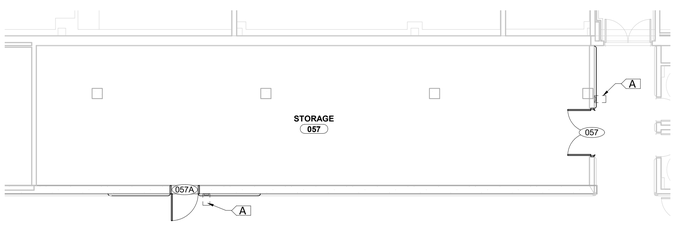
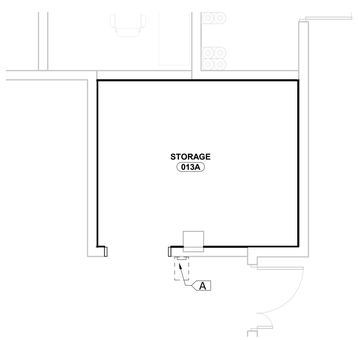
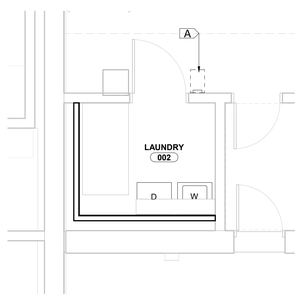
M. ALL OPERATING ELEVATORS RECEIVE TYPE K AND Q SIGNS. REFER TO SIGNAGE SERIES PLANS FOR LOCATIONS WITHIN THE ELEVATOR OPENINGS.
N. COORDINATE REMOVAL OR RELOCATION OF PREVIOUS PHASE SIGNS AS NEEDED (I.E. DOOR TAGS TO PREVIOUS SHELL SPACE).
O. NEW SIGNAGE TO MATCH EXISTING SIGNAGE TYPES IN MATERIAL, FONT AND COLORS.
P. SUBMIT SIGNAGE SHOP DRAWINGS AND SIGNAGE SAMPLES FOR APPROVAL.



4 AI-750 **LEVEL 00 - AREA 'B' SIGNAGE PLAN Copy 1 Copy 1 Copy 1**
1/8" = 1'-0"



3 AI-750 **LEVEL 00 - AREA 'B' SIGNAGE PLAN Copy 1 Copy 1**
1/4" = 1'-0"



2 AI-750 **LEVEL 00 - AREA 'B' SIGNAGE PLAN Copy 1**
1/4" = 1'-0"

1 AI-750 **LEVEL 00 - AREA 'B' SIGNAGE PLAN**
1/8" = 1'-0"

KEYNOTE - SIGNAGE PLAN

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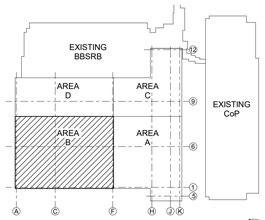
B	ROOM SIGN - CUSTOM INSERT
C1	RESTROOM SIGN - MEN
C2	RESTROOM SIGN - WOMEN
C3	RESTROOM SIGN - UNISEX
D	DOOR TAG
E	LAB BENCH SIGN - CEILING MOUNTED
F	LARGE DIRECTORY
J	DIRECTIONAL
K	EVACUATION PLAN
L	FLAG MOUNT - DOUBLE SIDED
M	RESTROOM SIGN - WALL MOUNTED
N	FLAG MOUNTED - ONE SIDED
O	FLAG MOUNTED - ONE SIDED
P	ROOM NUMBER SIGN - WALL MOUNTED
Q	IN CASE OF FIRE SIGN
T1	LAB SIGN WITH INSERT
W	"DOOR MUST REMAIN CLOSED" SIGN



KEY PLAN
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760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

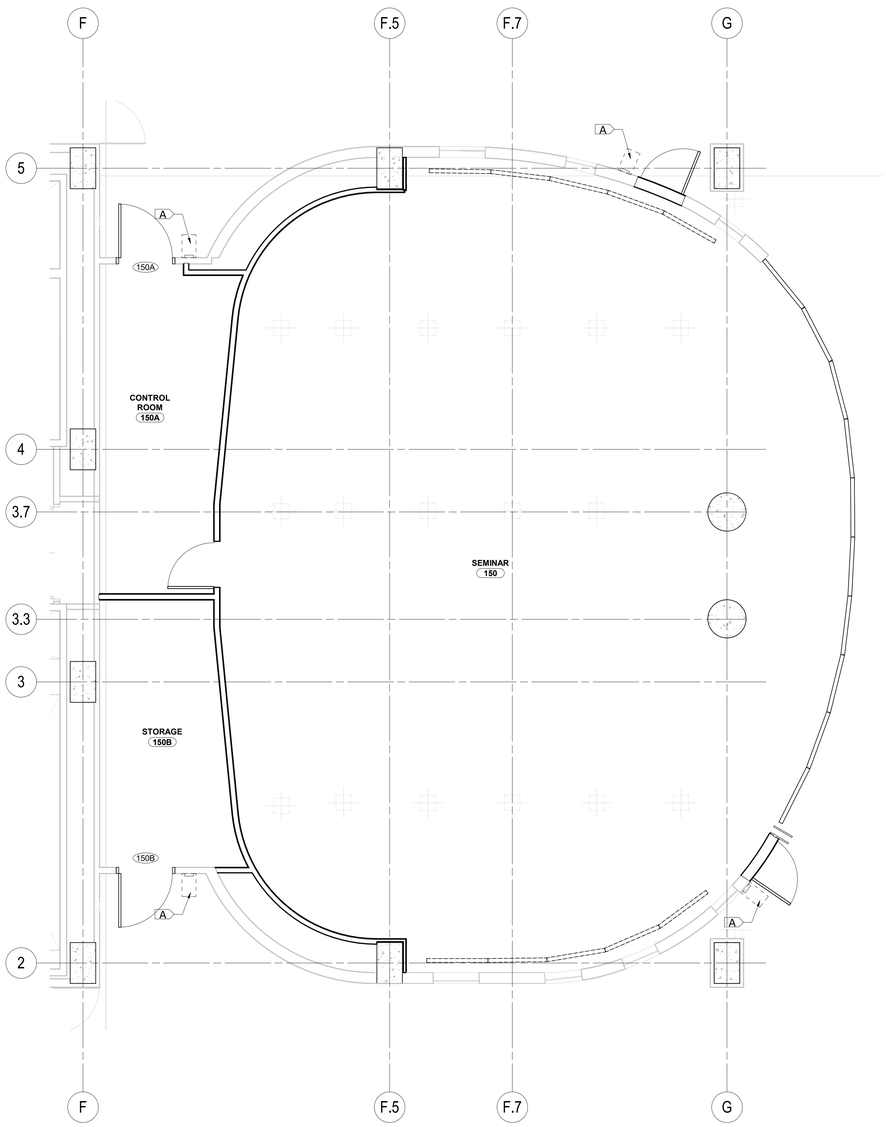
Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: P4-5350

MICHAEL J. BATTOCLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY PROFESSIONAL ARCHITECT

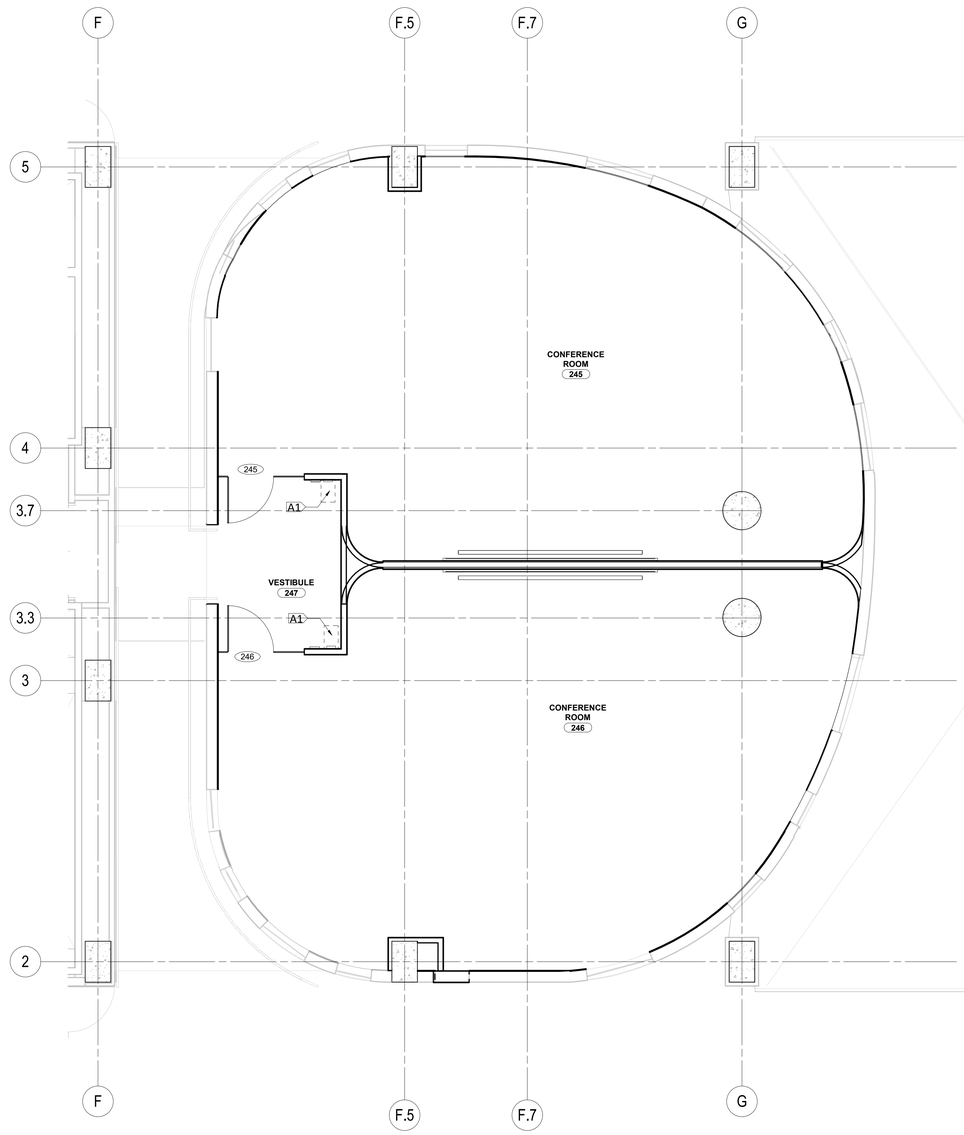
DRAWING TITLE
SIGNAGE PLAN - LOWER LEVEL - IMAGING SUITE

SHEET NO.
AI-750

1/11/2021 5:14:38 PM



1 AI-751 **SIGNAGE PLAN - LEVEL 01 - AREA 'A' SEMINAR ROOM**
1/4" = 1'-0"



2 AI-751 **SIGNAGE PLAN - LEVEL 02 - AREA 'A' CONFERENCE ROOMS**
1/4" = 1'-0"

SIGNAGE PLAN GENERAL NOTES

A. ALL EXISTING ROOM SIGNAGE IS TO BE REMOVED AND RETURNED TO THE OWNER.
B. SIGN TYPES DESIGNATIONS COORDINATE WITH SIGN TYPES AS IDENTIFIED IN THE UNIVERSITY OF KENTUCKY DESIGN AND CONSTRUCTION STANDARDS AVAILABLE ONLINE.
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P. SUBMIT SIGNAGE SHOP DRAWINGS AND SIGNAGE SAMPLES FOR APPROVAL.

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J	DIRECTIONAL
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L	FLAG MOUNT - DOUBLE SIDED
M	RESTROOM SIGN - WALL MOUNTED
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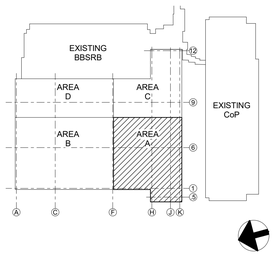

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2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By Author
Checked By Checker
Client Number 514
Project Number P4-5350

MICHAEL J. BATTOCLETTE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE
SIGNAGE PLAN - SEMINAR AND CONFERENCE ROOMS

SHEET NO.
AI-751

1/11/2021 5:15:11 PM

1 AI-756A **SIGNAGE PLAN - LEVEL 06 FIT OUT - AREA 'A'**
1/8" = 1'-0"

SIGNAGE PLAN GENERAL NOTES

A. ALL EXISTING ROOM SIGNAGE IS TO BE REMOVED AND RETURNED TO THE OWNER.
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P. SUBMIT SIGNAGE SHOP DRAWINGS AND SIGNAGE SAMPLES FOR APPROVAL.

KEYNOTE - SIGNAGE PLAN

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2	SIGN GROUP 2
3	SIGN GROUP 3
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C2	RESTROOM SIGN - WOMEN
C3	RESTROOM SIGN - UNISEX
D	DOOR TAG
E	LAB BENCH SIGN - CEILING MOUNTED
F	LARGE DIRECTORY
J	DIRECTIONAL
K	EVACUATION PLAN
L	FLAG MOUNT - DOUBLE SIDED
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N	FLAG MOUNTED - ONE SIDED
O	FLAG MOUNTED - ONE SIDED
P	ROOM NUMBER SIGN - WALL MOUNTED
Q	IN CASE OF FIRE SIGN
T1	LAB SIGN WITH INSERT
W	"DOOR MUST REMAIN CLOSED" SIGN

MATERIAL TYPE, FONT AND COLORS

FONT: AvenirNExtLTPro-Regular

TEXT COLOR: BLACK UNESS OTHERWISE NOTED

TYPE A ROOM SIGN - #902 CHEMETAL ON ¼" BLACK ACRYLIC, 1/8" X 3/8" ANODIZED BAR STOCK

TYPE B ROOM SIGN CUSTOM - 902 CHEMETAL ON ¼" BLACK ACRYLIC, 1/16" NONGLARE ACRYLIC WINDOW 1/8" X 3/8" ANODIZED BAR STOCK

TYPE C RESTROOM - #902 CHEMETAL ON ¼" BLACK ACRYLIC, 1/8" X 3/8" ANODIZED BAR STOCK

TYPE D DOOR TAGS – 1/16" ROWMARK #LM922-402 (BLACK/WHITE), FRONT ENGRAVED WHITE TEXT

TYPE E LAB BENCH TAGS - 1/16" ROWMARK #LM922-402 (BLACK/WHITE), FRONT ENGRAVED WHITE TEXT

TYPE J DIRECTIONAL - #902 CHEMETAL ON ¼" PVC (PAINTED BLACK), DIGITALLY PRINTED TEXT

TYPE K EVAC PLAN (INSERT TYPE WITH CUSTOM EVAC PLAN PRINTED ON MYLAR TYPE MATERIAL) - #902 CHEMTAL ON ¼" BLACK ACRYLIC, 1/8"X3/8" ANODIZED BAR STOCK, 1/16" NONGLARE ACRYLIC WINDOW WITH #902 CHEMETAL VENEERS, 1/8" BLACK ACRYLIC BACK PLATE

TYPE L FLAG MOUNT DOUBLE SIDED - #902 CHEMETAL ON 1/8" BLACK ACRYLIC, DIGITALLY PRINTED, 1/8" ACRYLIC CORE, CUSTOM BRACKET

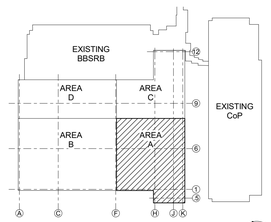
TYPE Q IN CASE OF FIRE -#902 CHEMETAL ON ¼" BLACK ACRYLIC, 1/8" X 3/8" ANODIZED BAR STOCK

TYPE T LAB SIGN PLAQUE – 1/16" NONGLARE ACRYLIC WINDOW SCREEN PRINTED SILVER, 1/8" ACRYLIC BACK PLATE PAINTED SILVER

TYPE V LAB ROOM SIGN - #902 CHEMETAL ON ¼" BLACK ACRYLIC, 1/8" X 3/8" ANODIZED BAR STOCK

TYPE W LAB DOOR STICKER – WHITE OPAQUE VINYL WITH ADHESIVE TO ATTACH TO GLASS LAB DOORS

TYPE 1, 2 &3 - SIGN GROUPS AS INDICATED ON THIS SHEET



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1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By	
Author	
Checked By	
Checker	
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTCOMBE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

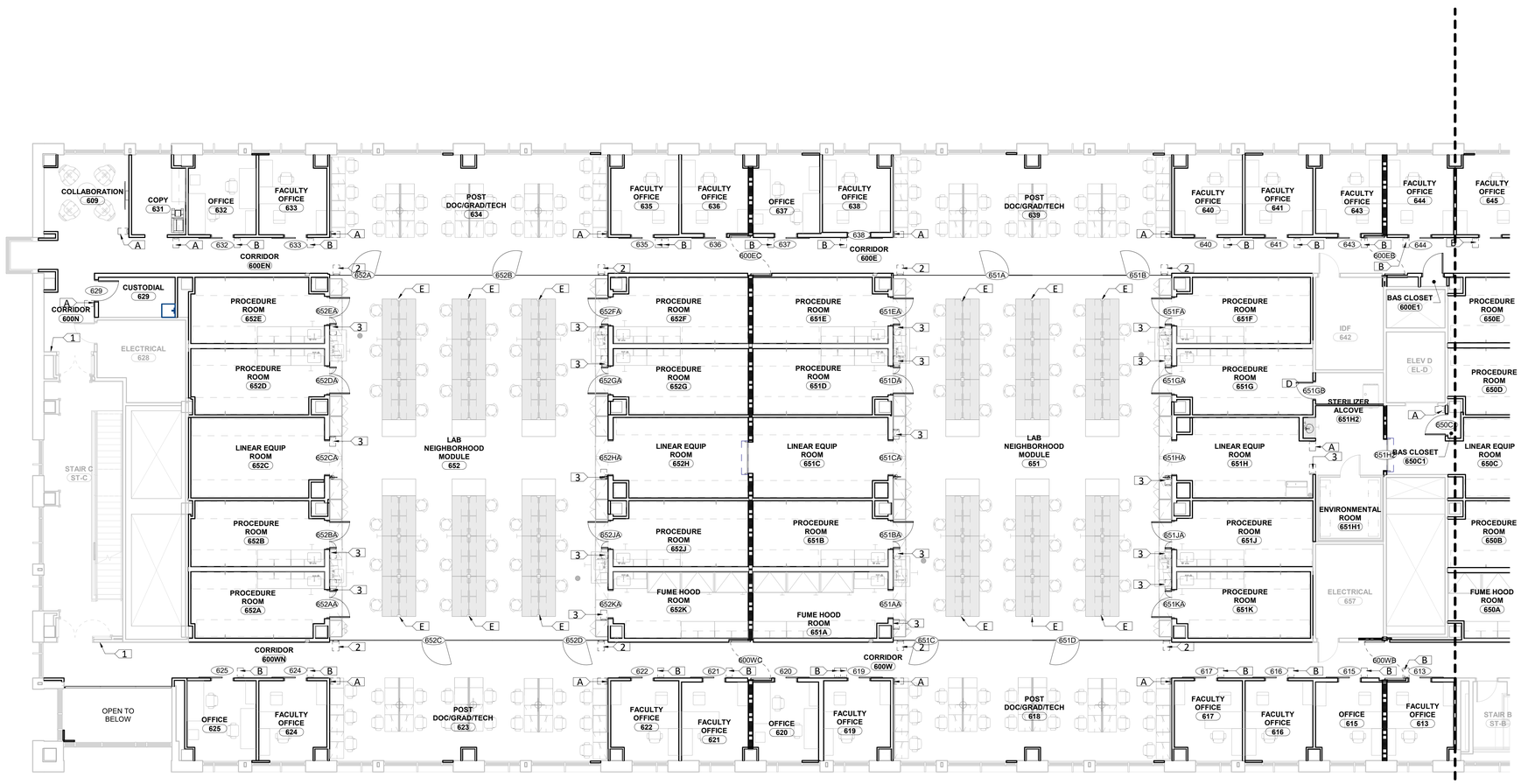
DRAWING TITLE

SIGNAGE PLAN - LEVEL SIX - AREA A

SHEET NO.

AI-756A

1/11/2021 5:15:22 PM



1 **SIGNAGE PLAN - LEVEL 06 - AREA 'B'**
AI-756B 1/8" = 1'-0"

SIGNAGE PLAN GENERAL NOTES

A. ALL EXISTING ROOM SIGNAGE IS TO BE REMOVED AND RETURNED TO THE OWNER.
B. SIGN TYPES DESIGNATIONS COORDINATE WITH SIGN TYPES AS IDENTIFIED IN THE UNIVERSITY OF KENTUCKY DESIGN AND CONSTRUCTION STANDARDS AVAILABLE ONLINE.
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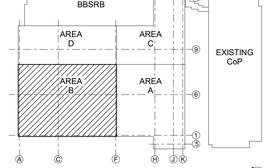
G. TYPICAL MOUNTING HEIGHT IS TO BE 61" TO TOP OF SIGN FOR ALL SIGNS U.N.O.
H. ROOM SIGNS ARE TO BE MOUNTED ON THE LATCH SIDE OF THE DOOR, U.N.O.
I. PROVIDE A BACK PLATE AT ALL LOCATIONS WHERE ROOM SIGNAGE MOUNTING LOCATION AT THE LATCH SIDE OF THE DOOR IS ON GLASS.
J. ROOM SIGNS SHOULD BE CENTER ALIGNED VERTICALLY WITH ROOM SCHEDULING DEVICES, U.N.O.
K. ROOM SIGNS SHOULD BE CENTER ALIGNED VERTICALLY WITH CARD READER DEVICES, U.N.O.
L. REFER TO SIGNAGE SERIES PLANS FOR LOCATIONS OF DIRECTORIES IN LOBBIES AND CORRIDORS.
M. ALL OPERATING ELEVATORS RECEIVE TYPE K AND Q SIGNS. REFER TO SIGNAGE SERIES PLANS FOR LOCATIONS WITHIN THE ELEVATOR OPENINGS.
N. COORDINATE REMOVAL OR RELOCATION OF PREVIOUS PHASE SIGNS AS NEEDED (I.E. DOOR TAGS TO PREVIOUS SHELL SPACE).
O. NEW SIGNAGE TO MATCH EXISTING SIGNAGE TYPES IN MATERIAL, FONT AND COLORS.
P. SUBMIT SIGNAGE SHOP DRAWINGS AND SIGNAGE SAMPLES FOR APPROVAL.

KEYNOTE - SIGNAGE PLAN

1	SIGN GROUP 1
2	SIGN GROUP 2
3	SIGN GROUP 3
A	ROOM SIGN
A1	ROOM SIGN - ALIGN WITH ROOM SCHEDULING DEVICE
B	ROOM SIGN - CUSTOM INSERT
C1	RESTROOM SIGN - MEN
C2	RESTROOM SIGN - WOMEN
C3	RESTROOM SIGN - UNISEX
D	DOOR TAG
E	LAB BENCH SIGN - CEILING MOUNTED
F	LARGE DIRECTORY
J	DIRECTIONAL
K	EVACUATION PLAN
L	FLAG MOUNT - DOUBLE SIDED
M	RESTROOM SIGN - WALL MOUNTED
N	FLAG MOUNTED - ONE SIDED
O	FLAG MOUNTED - ONE SIDED
P	ROOM NUMBER SIGN - WALL MOUNTED
Q	IN CASE OF FIRE SIGN
T1	LAB SIGN WITH INSERT
W	"DOOR MUST REMAIN CLOSED" SIGN



KEY PLAN
NTS

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JACOBS Consultancy
AEI Affiliated Engineers
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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: P4-5350

MICHAEL J. BATTY, REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY PROFESSIONAL ENGINEER

DRAWING TITLE
SIGNAGE PLAN - LEVEL SIX - AREA B

SHEET NO.
AI-756B

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SIGNAGE SCHEDULE - PHASE 4 LOWER LEVEL

Number	Name	SIGN TYPE	SIGN NAME	SIGN COMMENTS
002	LAUNDRY	A	LAUNDRY	
013A	STORAGE	A	STORAGE	
057	STORAGE	A	STORAGE	(1) EACH ENTRY DOOR
074	CORRIDOR	A	BEHAVIOR	
074A	BEHAVIOR	T1	COORD. INSERT WITH OWNER	
074B	BEHAVIOR	T1	COORD. INSERT WITH OWNER	
074C	BEHAVIOR	T1	COORD. INSERT WITH OWNER	
074D	BEHAVIOR	T1	COORD. INSERT WITH OWNER	
074E	BEHAVIOR	T1	COORD. INSERT WITH OWNER	
076	FLOW - CYTOMETRY LAB	T1	COORD. INSERT WITH OWNER	
076A	FLOW - IM LAB	T1	COORD. INSERT WITH OWNER	
076B	BIOCONTAIN.	T1	COORD. INSERT WITH OWNER	
076C	OFFICE	A		
080	CORRIDOR	A	COORD. WITH OWNER	(1) EACH ENTRY DOOR
080A	CUSTODIAL	A	CUSTODIAL CLOSET	
080B	SUPPORT	A	STORAGE	
080C	ANIMAL RM.	T1	COORD. INSERT WITH OWNER	
080D	ULTRASOUND	T1	COORD. INSERT WITH OWNER	
080E	ULTRASOUND	T1	COORD. INSERT WITH OWNER	
080F	ULTRASOUND	T1	COORD. INSERT WITH OWNER	
080G	MICRO-CT	T1	COORD. INSERT WITH OWNER	
082	CORRIDOR	T1	COORD. INSERT WITH OWNER	
082A	IMAGING	T1	COORD. INSERT WITH OWNER	
082B	IMAGING	T1	COORD. INSERT WITH OWNER	
082C	IMAGING	T1	COORD. INSERT WITH OWNER	
082D	IMAGING	T1	COORD. INSERT WITH OWNER	
084A	IMAGING	T1	COORD. INSERT WITH OWNER	
084B	PREP / SCRUB	A	COORD. WITH OWNER	
084C	SURGERY	A	COORD. WITH OWNER	
084D	PREP/RECOV.	A	COORD. WITH OWNER	
084E	IMAGING	T1	COORD. INSERT WITH OWNER	
086A	WET LAB	T1	COORD. INSERT WITH OWNER	(1) EACH ENTRY DOOR
088	CORRIDOR	A	COORD. WITH OWNER	(1) EACH ENTRY DOOR
088A	OFFICE	A		
088B	DATA PROCESSING	A		
088C	STAFF	A	COORD. WITH OWNER	
088D	IMAGING	T1	COORD. INSERT WITH OWNER	
088E	OFFICE	A		
088F	OFFICE	A		

SIGNAGE SCHEDULE - PHASE 4 LEVEL 01

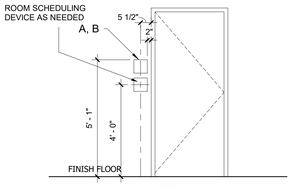
Number	Name	SIGN TYPE	SIGN NAME	SIGN COMMENTS
150	SEMINAR	A	COORD. WITH OWNER	(1) EACH ENTRY DOOR
150A	CONTROL ROOM	A	COORD. WITH OWNER	
150B	STORAGE	A	COORD. WITH OWNER	

SIGNAGE SCHEDULE - PHASE 4 LEVEL 02

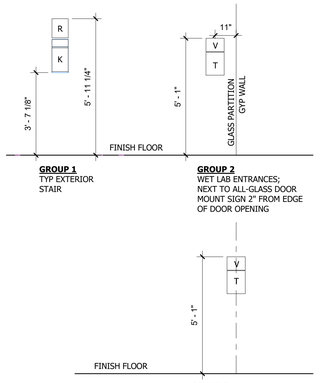
Number	Name	SIGN TYPE	SIGN NAME	SIGN COMMENTS
245	CONFERENCE ROOM	A1	COORD. WITH OWNER	
246	CONFERENCE ROOM	A1	COORD. WITH OWNER	

SIGNAGE SCHEDULE - PHASE 4 LEVEL 06

Number	Name	SIGN TYPE	SIGN NAME	SIGN COMMENTS
600E1	BAS CLOSET	A	COORD. WITH OWNER	
601	LOBBY			
601	LOBBY			
602	TOILET	C1	MEN	
603	TOILET	C3	RESTROOM	
604	TOILET	C2	WOMEN	
605	COLLABORATION	T1	COORD. INSERT WITH OWNER	
605A	CONFERENCE RM	A	TBD	
606	COPY	A	TBD	
607	CONFERENCE ROOM	A1	TBD	
608	CONFERENCE ROOM	A1	TBD	
610	FACULTY OFFICE	B		
611	FACULTY OFFICE	B		
612	POST DOC/GRAD/TECH	A		
613	FACULTY OFFICE	B		
615	OFFICE	B		
616	FACULTY OFFICE	B		
617	FACULTY OFFICE	B		
618	POST DOC/GRAD/TECH	A		
619	FACULTY OFFICE	B		
620	OFFICE	B		
621	FACULTY OFFICE	B		
622	FACULTY OFFICE	B		
623	POST DOC/GRAD/TECH	A		
624	FACULTY OFFICE	B		
625	OFFICE	B		
628	ELECTRICAL	A		
629	CUSTODIAL	A	CUSTODIAL CLOSET	
631	COPY	A		
632	OFFICE	B		
633	FACULTY OFFICE	B		
634	POST DOC/GRAD/TECH	A		
635	FACULTY OFFICE	B		
636	FACULTY OFFICE	B		
637	OFFICE	B		
638	FACULTY OFFICE	B		
639	POST DOC/GRAD/TECH	A		
640	FACULTY OFFICE	B		
641	FACULTY OFFICE	B		
642	IDF	A	COMM	
643	FACULTY OFFICE	B		
644	FACULTY OFFICE	B		
645	FACULTY OFFICE	B		
646	FACULTY OFFICE	B		
647	POST DOC/GRAD/TECH	A		
648	FACULTY OFFICE	B		
649	FACULTY OFFICE	B		
650	LAB NEIGHBORHOOD MODULE	-		GROUP 2 AT ENTRANCES MOUNTED ON GLASS; TYPE E ABOVE BENCHES
650A	FUME HOOD ROOM	3		
650B	PROCEDURE ROOM	3		
650C	LINEAR EQUIP ROOM	3	LINEAR EQUIPMENT ROOM	
650C1	BAS CLOSET	A		
650D	PROCEDURE ROOM	3		
650E	PROCEDURE ROOM	3		
650F	PROCEDURE ROOM	3		
650G	PROCEDURE ROOM	3		
650H	LINEAR EQUIP ROOM	3	LINEAR EQUIPMENT ROOM	
650J	PROCEDURE ROOM	3		
650K	PROCEDURE ROOM	3		
651	LAB NEIGHBORHOOD MODULE	-		GROUP 2 AT ENTRANCES MOUNTED ON GLASS; TYPE E ABOVE BENCHES
651A	FUME HOOD ROOM	3		
651B	PROCEDURE ROOM	3		
651C	LINEAR EQUIP ROOM	3	LINEAR EQUIPMENT ROOM	
651D	PROCEDURE ROOM	3		
651E	PROCEDURE ROOM	3		
651F	PROCEDURE ROOM	3		
651G	PROCEDURE ROOM	3		
651H	LINEAR EQUIP ROOM	3	LINEAR EQUIPMENT ROOM	
651H1	ENVIRONMENTAL ROOM	3		
651J	PROCEDURE ROOM	3		
651K	PROCEDURE ROOM	3		
652	LAB NEIGHBORHOOD MODULE	-		
652A	PROCEDURE ROOM	3		
652B	PROCEDURE ROOM	3		
652C	LINEAR EQUIP ROOM	3	LINEAR EQUIPMENT ROOM	
652D	PROCEDURE ROOM	3		
652E	PROCEDURE ROOM	3		
652F	PROCEDURE ROOM	3		
652G	PROCEDURE ROOM	3		
652H	LINEAR EQUIP ROOM	3	LINEAR EQUIPMENT ROOM	
652J	PROCEDURE ROOM	3		
652K	FUME HOOD ROOM	3		
657	ELECTRICAL	A	ELECTRICAL ROOM	



TYPICAL ROOM DOOR
SIM. FOR SLIDING DOOR, U.N.O.



GROUP 1
TYP EXTERIOR STAIR

GROUP 2
WET LAB ENTRANCES;
NEXT TO ALL-GLASS DOOR
MOUNT SIGN 2" FROM EDGE OF DOOR OPENING

GROUP 3
LAB SIGNS MOUNTED ON CASEWORK OR INACTIVE LEAF

SIGNAGE MOUNTING & SIGN GROUP

MATERIAL TYPE, FONT AND COLORS

FONT: AvenirNExtLTPro-Regular

TEXT COLOR: BLACK UNESS OTHERWISE NOTED

TYPE A ROOM SIGN - #902 CHEMETAL ON ¼" BLACK ACRYLIC, 1/8" X 3/8" ANODIZED BAR STOCK

TYPE B ROOM SIGN CUSTOM - 902 CHEMETAL ON ¼" BLACK ACRYLIC, 1/16" NONGLARE ACRYLIC WINDOW 1/8" X 3/8" ANODIZED BAR STOCK

TYPE C RESTROOM - #902 CHEMETAL ON ¼" BLACK ACRYLIC, 1/8" X 3/8" ANODIZED BAR STOCK

TYPE D DOOR TAGS – 1/16" ROWMARK #LM922-402 (BLACK/WHITE), FRONT ENGRAVED WHITE TEXT

TYPE E LAB BENCH TAGS - 1/16" ROWMARK #LM922-402 (BLACK/WHITE), FRONT ENGRAVED WHITE TEXT

TYPE J DIRECTIONAL - #902 CHEMETAL ON ¼" PVC (PAINTED BLACK), DIGITALLY PRINTED TEXT

TYPE K EVAC PLAN (INSERT TYPE WITH CUSTOM EVAC PLAN PRINTED ON MYLAR TYPE MATERIAL) - #902 CHEMTAL ON ¼" BLACK ACRYLIC, 1/8"X3/8" ANODIZED BAR STOCK, 1/16" NONGLARE ACRYLIC WINDOW WITH #902 CHEMETAL VENEERS, 1/8" BLACK ACRYLIC BACK PLATE

TYPE L FLAG MOUNT DOUBLE SIDED - #902 CHEMETAL ON 1/8" BLACK ACRYLIC, DIGITALLY PRINTED, 1/8" ACRYLIC CORE, CUSTOM BRACKET

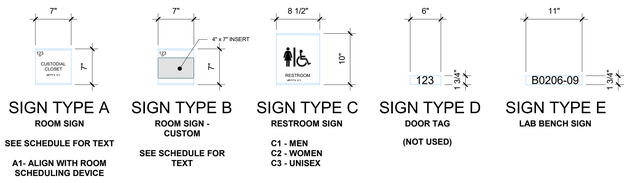
TYPE Q IN CASE OF FIRE -#902 CHEMETAL ON ¼" BLACK ACRYLIC, 1/8" X 3/8" ANODIZED BAR STOCK

TYPE T LAB SIGN PLAQUE – 1/16" NONGLARE ACRYLIC WINDOW SCREEN PRINTED SILVER, 1/8" ACRYLIC BACK PLATE PAINTED SILVER

TYPE V LAB ROOM SIGN - #902 CHEMETAL ON ¼" BLACK ACRYLIC, 1/8" X 3/8" ANODIZED BAR STOCK

TYPE W LAB DOOR STICKER – WHITE OPAQUE VINYL WITH ADHESIVE TO ATTACH TO GLASS LAB DOORS

TYPE 1, 2 &3 - SIGN GROUPS AS INDICATED ON THIS SHEET



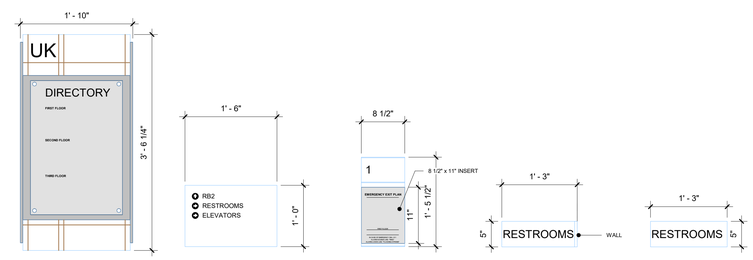
SIGN TYPE A
ROOM SIGN
SEE SCHEDULE FOR TEXT
A1- ALIGN WITH ROOM SCHEDULING DEVICE

SIGN TYPE B
ROOM SIGN - CUSTOM
SEE SCHEDULE FOR TEXT

SIGN TYPE C
RESTROOM SIGN
C1 - MEN
C2 - WOMEN
C3 - UNISEX

SIGN TYPE D
DOOR TAG
(NOT USED)

SIGN TYPE E
LAB BENCH SIGN



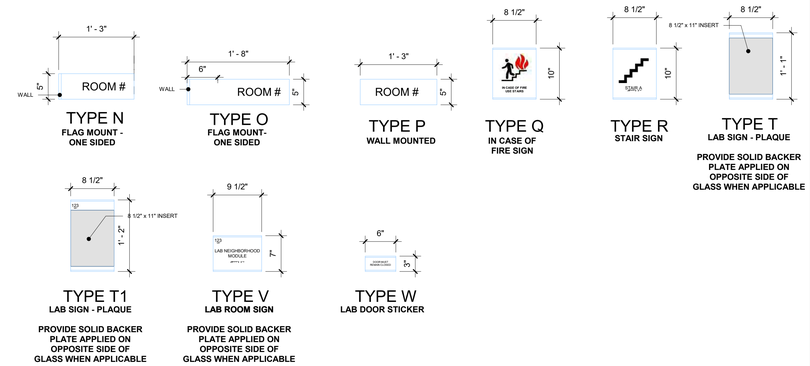
SIGN TYPE F
LARGE DIRECTORY

SIGN TYPE J
DIRECTIONAL

SIGN TYPE K
EVACUATION PLAN

TYPE L
FLAG MOUNT - DOUBLE SIDED

TYPE M
WALL MOUNTED



TYPE N
FLAG MOUNT - ONE SIDED

TYPE O
FLAG MOUNT- ONE SIDED

TYPE P
WALL MOUNTED

TYPE Q
IN CASE OF FIRE SIGN

TYPE R
STAIR SIGN

TYPE T
LAB SIGN - PLAQUE
PROVIDE SOLID BACKER PLATE APPLIED ON OPPOSITE SIDE OF GLASS WHEN APPLICABLE

TYPE T1
LAB SIGN - PLAQUE
PROVIDE SOLID BACKER PLATE APPLIED ON OPPOSITE SIDE OF GLASS WHEN APPLICABLE

TYPE V
LAB ROOM SIGN
PROVIDE SOLID BACKER PLATE APPLIED ON OPPOSITE SIDE OF GLASS WHEN APPLICABLE

TYPE W
LAB DOOR STICKER

SIGNAGE LEGEND

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HGA

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HEALTHY KENTUCKY RESEARCH BUILDING

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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

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Drawn By	
Author	
Checked By	
Checker	
Client Number	514
Project Number	P4-5350

MICHAEL J. BATTCHELLE REGISTERED No. 6856 COMMONWEALTH OF KENTUCKY ARCHITECT

DRAWING TITLE

SIGNAGE SCHEDULE, LEGEND & DETAILS

SHEET NO.

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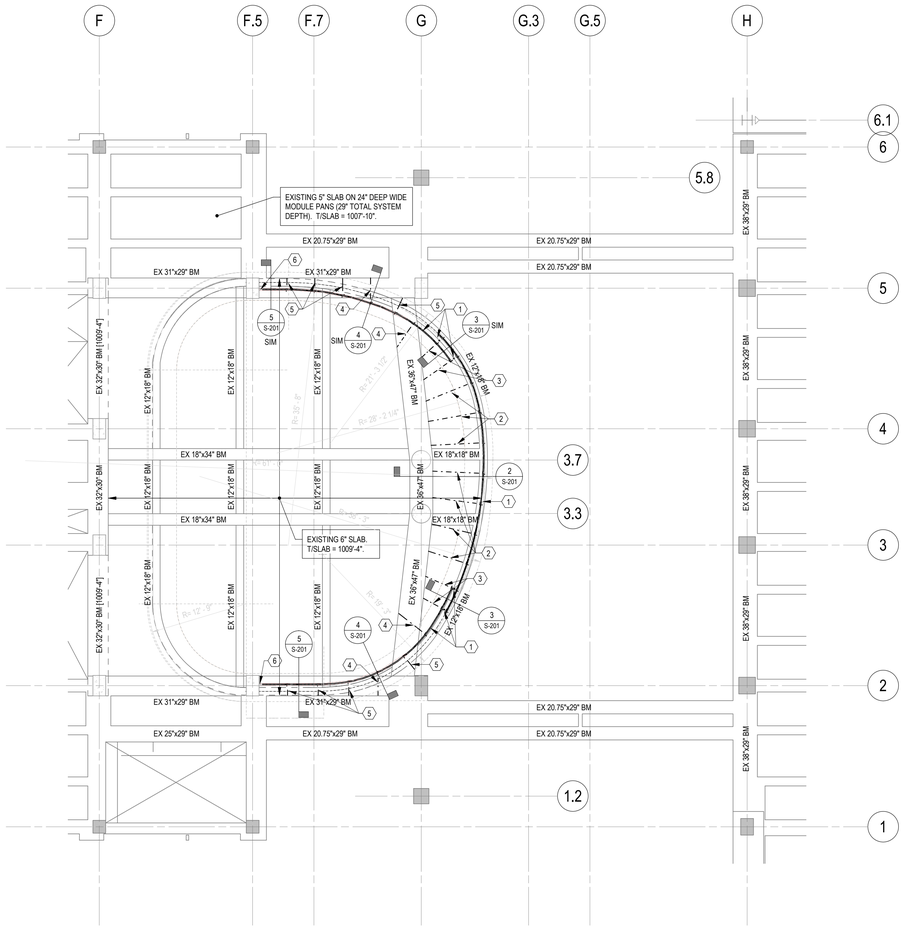
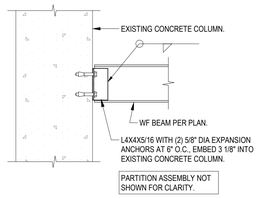


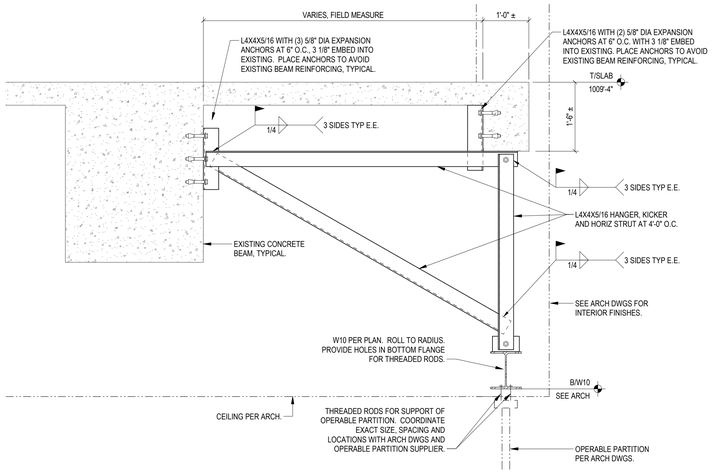
A S-201 **LEVEL 02 PARTIAL FRAMING PLAN**
1/8" = 1'-0"

KEY NOTES:

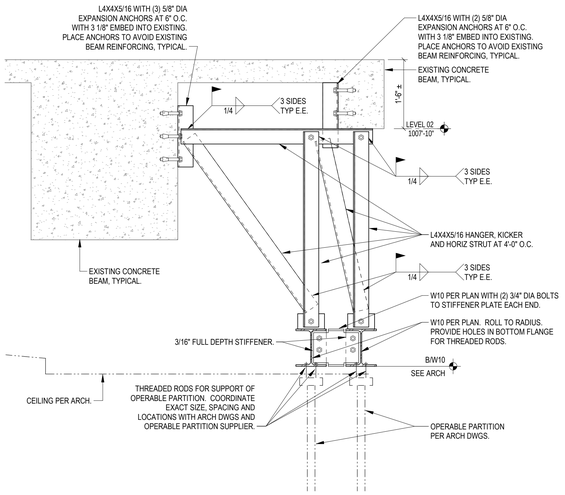
1. W10X33 FOR SUPPORT OF OPERABLE PARTITION. ROLL TO RADIUS WHERE APPLICABLE.
2. STEEL KICKER AND FRAME, ATTACH TO CONCRETE BEAM PER DETAIL 2/S-201.
3. STEEL KICKER AND FRAME, ATTACH TO CONCRETE BEAM PER DETAIL 3/S-201.
4. STEEL KICKER AND FRAME, ATTACH TO CONCRETE BEAM PER DETAIL 4/S-201.
5. STEEL KICKER AND FRAME, ATTACH TO CONCRETE BEAM PER DETAIL 5/S-201.
6. ATTACH WIDE FLANGE BEAM TO CONCRETE COLUMN PER DETAIL 1/S-201.



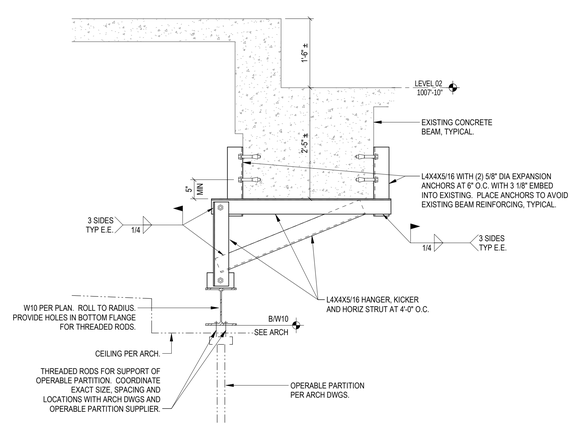
1 S-201 **SECTION**
3/4" = 1'-0"



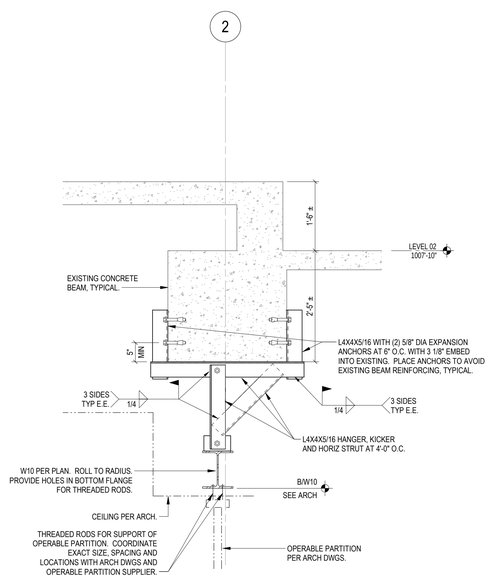
2 S-201 **SECTION**
3/4" = 1'-0"



3 S-201 **SECTION**
3/4" = 1'-0"



4 S-201 **SECTION**
3/4" = 1'-0"



5 S-201 **SECTION**
3/4" = 1'-0"

GENERAL STRUCTURAL NOTES:

A. CODES AND SPECIFICATIONS

1. 2018 KENTUCKY BUILDING CODE.
2. ASCE/SEI 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
3. ANSI/AISC 303-16, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
4. ANSI/AWS D1.1, STRUCTURAL WELDING CODE - STEEL.

B. DESIGN LOADS

1. WIND LOAD:
   RISK CATEGORY: II
   10 PSF UNFACTORED INTERIOR WIND LOAD PER KBC.

C. STRUCTURAL STEEL

1. MATERIAL:
   a. WIDE FLANGE SHAPES: ASTM A992 (Fy 50 KSI).
   b. OTHER ROLLED SHAPES, PLATES AND BARS: ASTM A36 (Fy 36 KSI).
   c. BOLTS: ASTM A325, 3/4" MIN. DIA., U.N.O.
   d. WELDING ELECTRODES: E70XX, LOW HYDROGEN.
2. PROVIDE TENSION CONTROL A325-TC BOLTS OR F1852 ASSEMBLIES, OR F959 SELF INDICATING LOAD INDICATOR WASHERS AND PRETENSION ALL BOLTS.
3. ALL WELDING MATERIALS, WELDING PROCEDURES AND OPERATORS PERFORMING WELDING TO BE QUALIFIED PER AWS D1.1.
4. FABRICATOR TO DESIGN CONNECTIONS NOT DETAILED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, THE AISC MANUAL, AND THE STRUCTURAL STEEL FRAMING PLANS, NOTES AND DETAILS OF THESE DRAWINGS. DESIGN CONNECTIONS FOR REACTIONS DUE TO MAXIMUM UNIFORM LOAD WHICH BEAM CAN SUPPORT AT ITS SPAN SHOWN IN THE AISC MANUAL FOR SPECIFIED YIELD STRENGTH.
5. SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION INCLUDING COMPLETE DETAILS FOR FABRICATION AND SHOP ASSEMBLY OF MEMBERS.

D. POST-INSTALLED ANCHORS AND ADHESIVE ANCHORING TO CONCRETE

1. POST-INSTALLED ANCHORS AND ADHESIVE ANCHORING SYSTEMS MUST BE TESTED AND APPROVED USING ICC EVALUATION SERVICE ACCEPTANCE CRITERIA, INCLUDING ICC-ES AC193: "MECHANICAL ANCHORS IN CONCRETE ELEMENTS" OR ICC-ES AC308: "POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE ELEMENTS". CONCRETE SHALL BE CONSIDERED CRACKED. SUBMIT MANUFACTURER'S DATA AND EVALUATION REPORT (ESR) FOR PROPOSED ANCHORS, ADHESIVES, AND ANCHORING SYSTEMS. INDICATE SPECIFIC PROJECT LOCATIONS AND CONDITIONS WHERE PROPOSED FOR USE.
2. MECHANICAL ANCHORS TO CONCRETE SHALL BE AS SHOWN IN THE STRUCTURAL DETAILS. UNLESS NOTED OTHERWISE, USE ONE OF THE FOLLOWING:
   a. HILTI KWIK BOLT TZ EXPANSION ANCHORS.
   b. POWERS POWER-STUD+ SD2 WEDGE EXPANSION ANCHORS.
   c. SIMPSON STRONG-BOLT 2 WEDGE ANCHORS.
3. ADHESIVE ANCHORING OF RODS AND REBAR TO CONCRETE SHALL BE AS SHOWN IN THE STRUCTURAL DETAILS. UNLESS NOTED OTHERWISE, PROVIDE STANDARD HAS-E RODS AND USE ONE OF THE FOLLOWING:
   a. HILTI HIT-HY 200 HYBRID ADHESIVE ANCHORING SYSTEM.
   b. HILTI HIT-RE 500-V3 EPOXY ADHESIVE ANCHORING SYSTEM.
   c. POWERS PE1000+ EPOXY ADHESIVE ANCHORING SYSTEM.
   d. SIMPSON SET-XP EPOXY ANCHORING ADHESIVE.
   e. OTHER PRODUCTS MAY BE REQUIRED FOR TEMPERATURE AND SPECIAL CONDITIONS.
4. ADHESIVE ANCHORING SHALL NOT BE USED IN OVERHEAD OR UPWARD CONDITIONS. USE HYBRID ADHESIVE FOR HORIZONTAL CONDITIONS.
5. POST-INSTALLED ANCHORS SHALL ONLY BE USED AS SHOWN AND APPROVED.
6. EMBEDMENT DEPTH, EDGE DISTANCES, AND SPACING ARE CRUCIAL. LOCATE AS SHOWN ON THE DRAWINGS. WHERE NOT SHOWN, EMBED REBAR 24 DIAMETERS AND EMBED ANCHORS AT LEAST 8 DIAMETERS, WITH EDGE DISTANCES AT LEAST 8 DIAMETERS, AND SPACING AT LEAST 12 DIAMETERS. USE MANUFACTURER'S DATA TO CALCULATE REDUCED CAPACITY FOR ACTUAL CONDITIONS AND CONFIRM AN ULTIMATE SAFETY FACTOR OF AT LEAST 4.0.
7. HOLES INTO CONCRETE MUST NOT INTERFERE WITH REINFORCING BARS. THE CONTRACTOR SHALL REVIEW THE STRUCTURAL DRAWINGS AND USE FERRO-SCAN, CHIPPING OR OTHER MEANS TO LOCATE REINFORCING BARS IN THE AREA. SPACE HOLES TO FIT AROUND REBAR AND FABRICATE FIXTURE TO MATCH.
8. HOLES IN CONCRETE SHALL BE THE PROPER SIZE AND THOROUGHLY CLEANED WITH ALL DUST REMOVED. DRILL HOLES USING A HOLLOW BIT AND FUNCTIONING VACUUM SYSTEM, THEN BRUSH AND BLOW OUT WITH COMPRESSED AIR.
9. INSTALL INTO DRY CONCRETE IN CLEAN, DUST FREE HOLES USING METHOD AND PROCEDURE THAT MEETS MANUFACTURER'S RECOMMENDATIONS INCLUDING TEMPERATURE RANGE, HUMIDITY, INSTALLATION TIME AND CURE TIME. FOLLOW THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. INSTRUCTIONS MUST BE INCLUDED IN THE ANCHOR PACKAGING.
10. PROVIDE STANDARD SIZE HOLES IN THE FASTENED STEEL ELEMENT (1/16" LARGER THAN THE BOLT DIAMETER). MARK AND DRILL ALL HOLES IN THE CONCRETE BEFORE SETTING STEEL. SOME ANCHORS MAY BE SET AFTER STEEL IS IN PLACE TO ALLOW SOME ALIGNMENT. DO NOT OVERSIZE HOLES.
11. THE CONTRACTOR SHALL ARRANGE FOR A REPRESENTATIVE OF THE MANUFACTURER TO PROVIDE ONSITE INSTALLATION TRAINING FOR THEIR PRODUCTS. ADHESIVE ANCHOR INSTALLERS SHALL ALSO BE CERTIFIED BY A RECOGNIZED PROGRAM, SUCH AS BY ACI AND CRSI. SUBMIT DOCUMENTATION OF TRAINING AND CERTIFICATION OF PERSONNEL PRIOR TO PERFORMING SUCH WORK. PROVIDE COPY TO THE OWNER'S INSPECTION AGENCY.
12. THE CONTRACTOR SHALL PROOF TEST ANCHORS AS PART OF THE CONTRACTOR'S QUALITY CONTROL PROGRAM. PROOF TEST 5% OF ALL ANCHORS AND REBAR IN EACH CONDITION, DISTRIBUTED THROUGHOUT THE PROJECT, AND AT LEAST (1) ANCHOR IN EACH STEEL FRAMING CONNECTION. AMOUNT OF TESTING SHALL BE INCREASED IF FAILURES OCCUR. OWNER'S INSPECTION AGENCY WILL OBSERVE INSTALLATION FOR CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS AND WILL WITNESS CONTRACTOR'S PROOF TESTING.

E. COORDINATION AND CONSTRUCTION

1. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL ITEMS. COORDINATE SHOP INSTALLATION OF BOLT HOLES, ETC. REQUIRED IN STRUCTURAL STEEL FRAMING TO SECURE PARTITION WITH PARTITION MANUFACTURER.
2. SHOP DRAWINGS PREPARED BY SUPPLIERS AND SUB CONTRACTORS SHALL BE REVIEWED BY THE TRADE CONTRACTOR AND GENERAL CONTRACTOR OR CONSTRUCTION MANAGER PRIOR TO SUBMITTING TO ENGINEER.
   a. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS WHICH AFFECT FABRICATION AND SHOW ON SHOP DRAWINGS.
   b. SUBMIT COMPLETE SHOP DRAWINGS WITH MANUFACTURERS' DATA, ETC. SHOW ALL CONNECTIONS AND DETAILS NECESSARY TO FULLY DESCRIBE AND PROPERLY INSTALL THE WORK.
   c. STRUCTURAL ENGINEER'S REVIEW SHALL BE FOR GENERAL ARRANGEMENT AND CONFORMANCE WITH THE STRUCTURAL INTENT ONLY.
3. THE STRUCTURAL DRAWINGS TYPICALLY REFER TO THE FINISHED STRUCTURE. UNLESS NOTED OTHERWISE, THEY DO NOT PRESCRIBE THE METHOD OF CONSTRUCTION.
4. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS.
5. THE ENGINEER'S OBSERVATION AND REVIEW OF CONTRACTORS' PERFORMANCE DOES NOT INCLUDE REVIEW OF ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

F. ITEMS SUPPORTED FROM STRUCTURE

1. ALL TRADE CONTRACTORS ARE TO DESIGN THEIR SYSTEMS, INCLUDING ATTACHMENTS TO THE STRUCTURE WITHIN THE FOLLOWING LIMITATIONS.
   a. LOADS ARE TO BE DISTRIBUTED TO THE STRUCTURE IN A MANNER THAT DOES NOT EXCEED THE LOAD ALLOWANCES NOTED UNDER DESIGN LOADS. ANCHORS ARE TO HAVE AN ULTIMATE SAFETY FACTOR OF AT LEAST 4.0.
   b. LOADS SUPPORTED BY WIDE FLANGE BEAMS ARE TO BE APPLIED IN A MANNER WHICH DOES NOT CAUSE TORSION ABOUT THE LONGITUDINAL AXIS OF THE BEAM.
2. THE SIZE AND LOCATION OF NON-STRUCTURAL ITEMS MUST BE COORDINATED WITH SUPPORTING STRUCTURAL STEEL. TRADE CONTRACTOR(S), GENERAL CONTRACTOR AND CONSTRUCTION MANAGER MUST ENSURE ACCURATE DIMENSIONAL INFORMATION IS PROVIDED TO STEEL FABRICATOR PRIOR TO FABRICATION.

G. QUALITY CONTROL AND ASSURANCE

1. THE CONTRACTOR SHALL PERFORM QUALITY CONTROL, TESTING AND INSPECTION OF ALL WORK AS REQUIRED BY THE CONTRACT DOCUMENTS, INCLUDING REFERENCED CODES, SPECIFICATIONS AND STANDARDS.
2. THE OWNER WILL ALSO EMPLOY QUALIFIED SPECIAL INSPECTORS TO PERFORM INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING ALL INSPECTIONS AND TESTS. ITEMS REQUIRING SPECIAL INSPECTION ON THIS PROJECT INCLUDE:
   a. STRUCTURAL STEEL: ALL WELDING AND HIGH STRENGTH BOLTING.
3. THE STRUCTURAL ENGINEER MAY GENERALLY OBSERVE THE PROGRESS OF THE WORK, BUT HIS/HER OBSERVATION SHALL NOT BE CONSTRUED AS INSPECTION.

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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - CD REVIEW	12/04/20
2	P4 - BID & PERMIT	01/08/21

Drawn By	SET
Checked By	TLS
Client Number	
Project Number	15133.07

STATE OF KENTUCKY THOMAS L. SHUMATE E-24086 LICENSED PROFESSIONAL ENGINEER 01/08/2021

DRAWING TITLE
GENERAL STRUCTURAL NOTES, FRAMING PLAN AND DETAILS

SHEET NO.
S-201

1/8/2021 2:14:32 PM

GENERAL NOTES

1. GENERAL NOTES HEREIN SHALL BE APPLICABLE TO ALL LABORATORY CASEWORK AND FIXED EQUIPMENT DRAWINGS.
2. DRAWINGS INDICATE DESIGN INTENT AND GENERAL SCOPE OF WORK, REFER TO DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. HEREIN IS THE LEGENDS OF SYMBOLS AND ABBREVATIONS WHICH SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS; NOT ALL SYMBOLS OR ABBREVIATIONS DEFINED ARE NECESSARILY USED.
4. CASEWORK NOMENCLATURE HEREIN DOES NOT REFER TO ANY SPECIFIC CASEWORK MANUFACTURER OR PRODUCT. (U.O.N.)
5. CASEWORK & FIXED EQUIPMENT MANUFACTURER SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS PRIOR TO FABRICATION.
6. COORDINATE WITH ARCHITECTURAL FLOOR PLANS FOR ROOM DIMENSIONS, CONSTRUCTION AND FINISHES.
7. ALL DIMENSIONS ARE NOMINAL. COORDINATE VARIATIONS BASED ON APPROVED MANUFACTURER. ANY CHANGES SUBJECT TO ARCHITECT'S AND/OR LABORATORY CONSULTANT'S APPROVAL.
8. MANUFACTURER MODEL NUMBER NOTED HEREIN SHALL BE FOR THE PURPOSE OF "BASIS OF DESIGN" AND SHALL NOT IMPLY SOLE SOURCE OF A SINGLE MANUFACTURER. REFER TO RESPECTIVE SPECIFICATIONS FOR ADDITIONAL ACCEPTABLE MANUFACTURERS.
9. REVIEW DRAWINGS OF OTHER DISCIPLINES AS PART OF THIS SCOPE FOR RELATED WORK REQUIRED AND COORDINATION FOR OPERATION AND CONNECTION TO ASSOCIATED SYSTEMS / ASSEMBLIES AND CODE AND STANDARD REQUIREMENTS.
10. WHERE DEVICES ARE INDICATED WITHIN CASEWORK, TO BE PROVIDED BY OTHERS, THE CASEWORK MANUFACTURER SHALL BE RESPONSIBLE FOR COORDINATING REQUIRED CUT OUTS FOR PROPER FIT.
11. ALL LABORATORY SERVICE FIXTURES LOCATED IN PLAN AND ELEVATION ARE FOR GRAPHIC PURPOSES ONLY; REFER TO SINK AND FIXTURE SCHEDULE FOR TYPE AND FINISH. FOR ADDITIONAL INFORMATION REFER TO SPEC. SECTION 12 53 53.
12. ELECTRICAL RECEPTACLES AND TELE/DATA OUTLETS ARE SHOWN ON LABORATORY CASEWORK/EQUIPMENT DRAWINGS FOR LOCATION AND COORDINATION WITH OTHERS ONLY. REFER TO DIVISION 26 & 27 DRAWINGS FOR ADDITIONAL INFORMATION. (IE. DENSITY, CIRCUITRY, ETC.)
13. COORDINATE "GROUPING" OF DEVICES PRIOR TO ROUGH-IN W/FURNITURE AND CASEWORK ARRANGEMENTS. REVIEW DIV.22 & 26 FOR OFF-SETTING OF PLUMBING AND ELECTRICAL OUTLET REQUIRMENTS.
14. ALL WALL CABINET AND ADJUSTABLE SHELVING SHALL BE ANCHORED IN ACCORDANCE WITH MOUNTING INTRUCTIONS TO IN-WALL BACKING/GROUNDS AS REQUIRED BY CASEWORK MANUFACTURER.
15. CABINETS 24" OR LESS AS SHOWN SHALL BE CONSTRUCTED W/SINGLE LEAF DOOR (TYP.).
16. WHERE CLOSURE PANEL IS REQUIRED ABOVE AND WALL CABINET DOES NOT ABUT TO ANY ADJACENT ALL CABINET, PROVIDE FRONT AND SIDE CLOSURE PANEL (U.O.N.)
17. MAXIMUM FILLER PANEL FOR CASEWORK SHALL BE 1".
18. VIVARIUM BASE CABINETS: ALL BASE CABINETS SHALL BE SEALED/CAULKED TO ADJACENT SURFACES (WALLS, CABINETS, ETC.). WHERE KNEE SPACES IS PROVIDED WITH ADJACENT CABINET, PROVIDE FILLER/CLOSURE PANEL(S) FROM REAR OF CABINET, SIDE AND BOTTOM TO ADJACENT WALL AVOIDING OPEN AREAS BEHIND CABINET. SEALANT TYPE SHALL BE IN ACCORDANCE W/ NIH GUIDELINE - SEALANT TABLE EXHIBIT X4-2-A 01 2012 (APPLIES TO VIVARIUM AND LABORATORY).
19. ALL FUME HOOD BASE CABINET CONSTRUCTION MATERIAL SHALL MATCH ADJACENT CASEWORK (U.O.N.).
20. ALL ADJUSTABLE SHELVES SHALL BE MIN 12" DEEP (U.O.N.)
21. PEGBOARD MATERIAL & COLOR SHALL MATCH ASSOCIATED COUNTERTOP (U.O.N.)
22. ALL LABORATORY BENCH COUNTER TOPS SHALL BE INSTALLED AT 37" A.F.F. (U.O.N.)
23. ALL COUNTERTOPS SHALL BE EPOXY RESIN (U.O.N.)
24. PRE-DRILL ALL COUNTERTOP AND BACKSPLASH HOLES (APPLIES TO DECK AND PANEL MOUNTED FIXTURES).
25. ALL SINK COUNTERTOPS TO BE DISHED MARINE EDGE (U.O.N.)
26. SERVICE CLEARANCE INSIDE AUTOCLAVE ALCOVE VERY LIMITED. VERIFY FIELD CONDITION AND COORDINATE INSTALLATION & PIPING WITH ARCHITECT & ENGINEERS. SERVICE ACCESS PANEL/DOOR TO BE PROVIDED FROM ADJACENT ROOM #415G & 551G

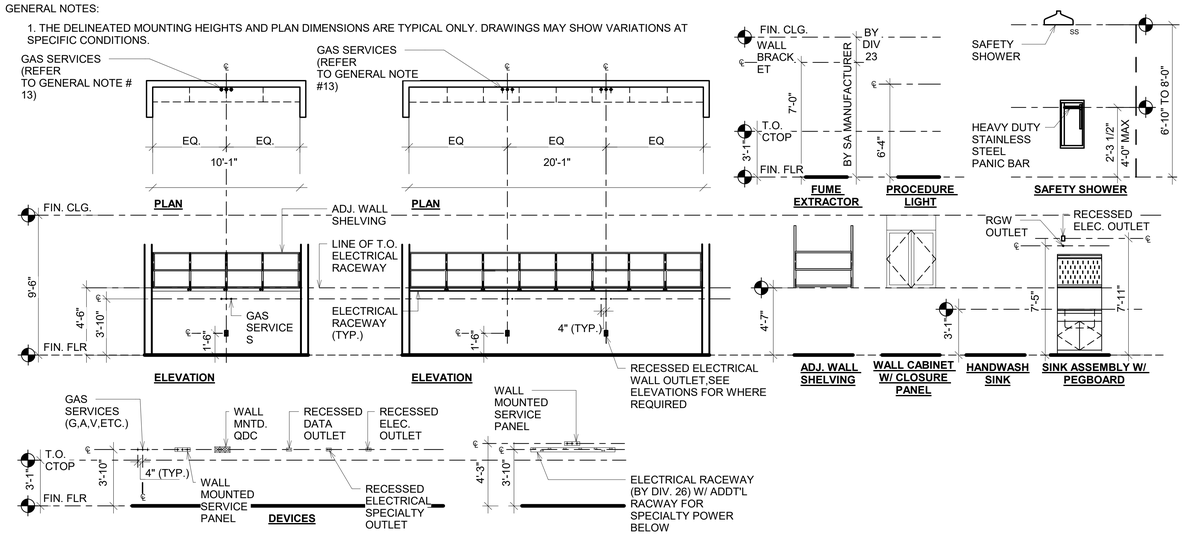
ABBREVIATIONS

A	AIR
ADD	ADDENDUM
ADD'L	ADDITIONAL
ADJ	ADJACENT, ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APPROX	APPROXMATE
AP	ACCESS PANEL
AR	ARGON
ARCH	ARCHITECT(URAL)
AS	ADJUSTABLE SHELVING
BD	BEDDING DISPENSER
BDS	BEDDING DUMP STATION
BET	BETWEEN
BEV	BEVELLED
BF	BOTTLE FILLER
BL	BASE CABINET (LOW)
BLDG	BUILDING
BLKG	BLOCKING
BOT,BTM	BOTTOM
BOS	BOTTOM OF SHELF
CA	COMPRESSED AIR
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CHAM	CHAMFER
CHEM.	CHEMICAL BASE CABINET
CHW	CHILLED WATER
CIRC	CIRCUMFERENCE
CK	CAULK(ING)
C/L	CENTERLINE
CLG	CEILING
CO2	CARBON DIOXIDE
COL	COLUMN
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CRW	CAGE AND RACK WASHER
CTOP	COUNTERTOP
CLYD	CYLINDER / RESTRAINTS
CW	COLD WATER
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOSTRATION
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DTL,DET	DETAIL
DWG	DRAWING
DWR	DRAWER
E	ELECTRIC OUTLET
EA	EACH
ELEC	ELECTRIC
ELEV	ELEVATOR,ELEVATION
EM	EMERGENCY POWER
ENCL	ENCLOSE(URE)
EP	ELECTRICAL PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
ESS	EMERGENCY SAFETY STATION
EXIST	EXISTING
EW	EYEWASH
EXP	EXPANSION, EXPOSED
EXT	EXTERIOR
EXH	EXHAUST
EVAC	GAS EVACUATION
F	FILLER PANEL
FBO	FURNISHED BY OTHERS
FD	FLOOR DRAIN, FIRE DAMPER
FEC	FIRE EXTINGUISHER
FIN	CABINET
FIX	FIXTURE
FLAM	FLAMMABLE
FPM	FEET PER MINUTE
FS	FREE STANDING SHELVING
FSC	FLAMMABLE STORAGE CABINET(T)
FT	
FTS	FLAMMABLE TALL STORAGE
FUM_	FUME HOOD
FURN	FURNISH , FURNISHED
G	GAS
GL	GLASS
GPM	GALLONS PER MINUTE
GWC	GLASSWARE CABINET
H	HUNG
HB	HOSE BIB
HDWR	HARDWARE
HL	HOOK LADDER
HND	HAND
HORIZ	HORIZONTAL
HR	HOSE REEL
HT	HEIGHT
HW	HOT WATER
ID	INSIDE DIAMETER
IN	INCHES
INCL	INCLUDE(D)
INT	INTERIOR
INTMED	INTERMEDIATE
JT	JOINT
KS	KNEE SPACE
L	LENGTH
LAM	LAMINATE
LC	LOCKABLE
LDR	LEADER
LH	LEFT HAND
LIN	LINEAR
LT	LIGHT
MA	MOVEABLE TABLE ASSEMBLY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MT	MOVEABLE TABLE
MTD	MOUNTED
MTL,MET	METAL
MW	MODULAR WALL
N2	NITROGEN
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
02	OXYGEN
OC	ON CENTER(S)
OFOI	OWNER FURNISHED OWNER INSTALLED
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OH	OPPOSITE HAND
OPN'G	OPENING
OPP	OPPOSITE
P,PR	PHENOLIC RESIN
PAR	PARALLEL
PART	PARTICLE
PB	PEGBOARD
PE	POINT EXHAUST
PEN	PENETRATION
PERF	PERFORATE(D)
PH_	PR BASE CAB (HIGH)
PL_	PR BASE CAB (LOW)
PLAM	PLASTE LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNEU	PNEUMATIC
POL	POLISHED
PREFIN	PREFINISHED
PRIM	PRIMARY
PS	PR SHELVING
PTD	PAINTED
PW	PURE WATER
R	REVERSE (SIDE)
RAD	RADIOSTOPE
RE:	REFERENCE
RECPT	RECEPTACLE
REM	REMOVE
REQ'D	REQUIRED
REV	REVISION(S)
RH	RIGHT HAND
RM	ROOM
RO	REAGENT GRADE WATER
S	SPARE
SC	SERVICE COLUMN
SD	SHARPS DISPOSAL
SEC	SECTION, SECOND
SHT	SHEET
SIM	SIMILAR
SL	SLIDER
SNT	SEALANT
SP	SPRAY HOSE
SPECS	SPECIFICATIONS
SQ	SQUARE
SST	STAINLESS STEEL MOVEABLE TABLE
ST.STL	STAINLESS STEEL
;TD	STANDARD
STL	STEEL
STM	STEAM
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
THK	THICK
TO	TOP OF
TS	STEEL TUBING
TW	TUNNEL WASHER
TYP	TYPICAL
UCF	UNDERCOUNTER FREEZER
UCR	UNDERCOUNTER REFRIGERATOR
UCGW	UNDERCOUNTER GLASSWARE WASHER
UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED
V	VACUUM
VERT	VERTICAL
VPC	VACUUM PUMP CABINET
W/	WITH
WC	WALL CABINET
WD	WOOD
WK	WORKSTATION
W/O	WITHOUT
WT	WEIGHT
WS	WIRE SHELVING
WSC	WASTE STORAGE CABINET

TYPICAL MOUNTING HEIGHTS / DIMENSIONAL PLAN LOCATIONS

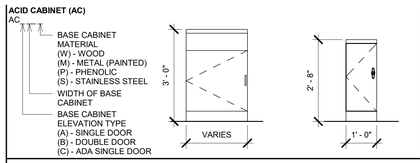
GENERAL NOTES:

1. THE DELINEATED MOUNTING HEIGHTS AND PLAN DIMENSIONS ARE TYPICAL ONLY. DRAWINGS MAY SHOW VARIATIONS AT SPECIFIC CONDITIONS.



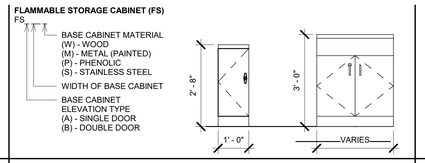
CASEWORK SCHEDULE

ACID CABINET (AC)



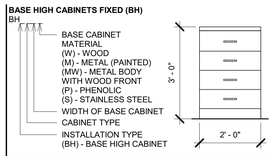
LEGEND ACB__ ACC12

FLAMMABLE STORAGE CABINET (FS)



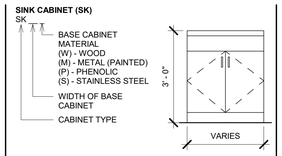
LEGEND FSA12 FSB__

BASE HIGH CABINETS FIXED (BH)



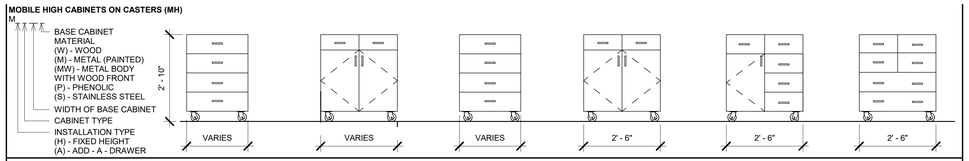
LEGEND BHC24

SINK CABINET (SK)



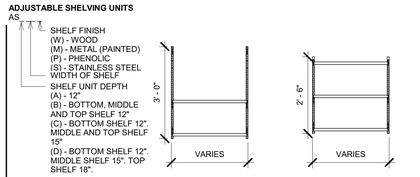
LEGEND SKA__

MOBILE HIGH CABINETS ON CASTERS (MH)



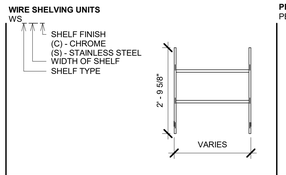
LEGEND MAC__ MAF__ MHC__ MHF30 MHI30 MHK30

ADJUSTABLE SHELVING UNITS



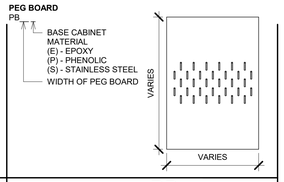
LEGEND ASA__ ASB__

WIRE SHELVING UNITS



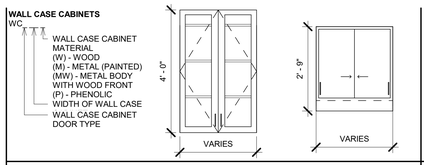
LEGEND WSA__

PEG BOARD



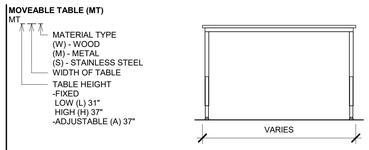
LEGEND PB__

WALL CASE CABINETS



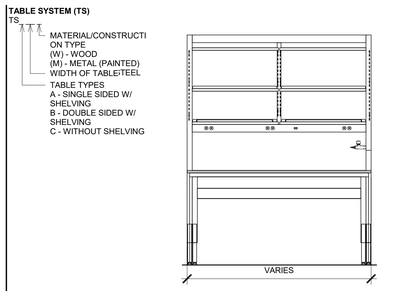
LEGEND WC__ WCC__M

MOVEABLE TABLE (MT)



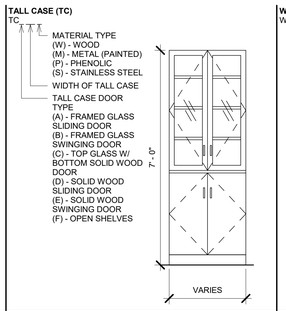
LEGEND MT____

TABLE SYSTEM (TS)



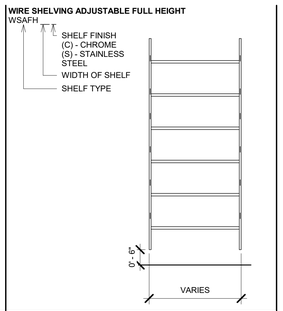
LEGEND TS___

TALL CASE (TC)



LEGEND TCC__

WIRE SHELVING ADJUSTABLE FULL HEIGHT



LEGEND WSAFH__

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	5350

DRAWING

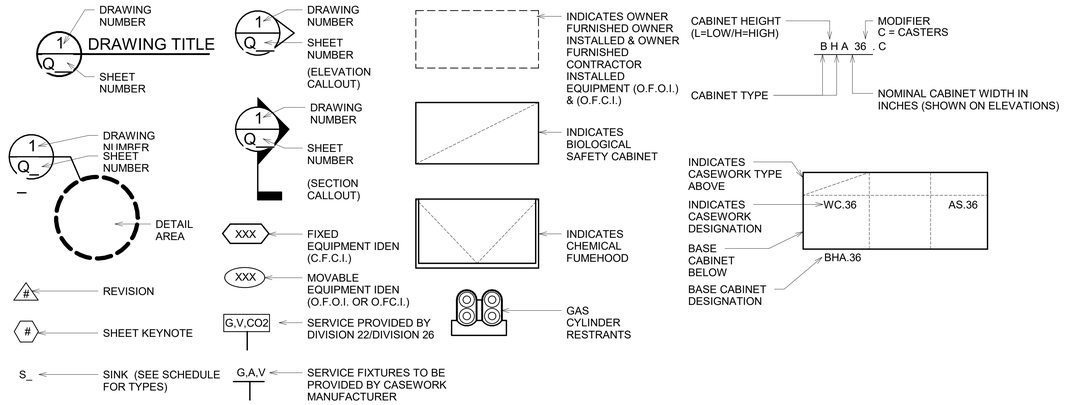
LAB EQUIPMENT COVER SHEET

SHEET NO.

QL-100

12/29/2020 11:23:07 AM

SYMBOL LEGEND



SINK SCHEDULE

SINK SCHEDULE

TAG	MATERIAL	SINK MOUNT	DIMENSIONS			SERVICES					FIXTURE MOUNT	REMARKS
			LENGTH	WIDTH	DEPTH	HW/CW	CW	RGW	EW	SP		
S1	EPOXY	UNDER MOUNT	24"	16"		X		X	X		DECK	
S2	EPOXY	UNDER MOUNT	21.5"	15.5"	12"	X			X		DECK	
S3	ST. STL.	INTEGRAL	18"	15"	12"		X				DECK	
S4	ST. STL.	INTEGRAL	12"	12"	8"	X			X		DECK	
S5	ST. STL.	INTEGRAL	24"	16"	12"	X			X		DECK	

FIXTURE SCHEDULE

FIXTURE SHCEDULE

DESIGNATION	DESCRIPTION	WATERSAVER MODEL No. (ALT-BROEN-LAB)	MOUNT	FINISH	DISC COLOR	HANDLE COLOR	REMARKS
CW-1	FACUET	CT611-10VB55	DECK	POWDER COAT	GREEN	GREY	10" SWING GOOSENECK; NYLON HANDLE; VACUUM BREAKER & AERATOR
EW-1	EYE WASH FIXTURE	CTEW1022BP	DECK	POWDER COAT	N/A	GREY	EYE WASH/DRENCH HOSE WITH BACKFLOW PREVENTER
EW-2	EYE WASH FIXTURE	EW805	DECK	POWDER COAT	N/A	GREY	EYE WASH, AUTOFLOW, 90 DEGREE SWIVEL, RIGHT HAND MOUNTING
HW/CW-1	MIXING FAUCET	CTA414-10VB55	DECK	POWDER COAT	RED/GREEN	GREY	10" SWING GOOSENECK; NYLON HANDLES; VACUUM BREAKER & AERATOR
HW/CW-2	MIXING FAUCET	CT424-10VB	DECK	POWDER COAT	RED/GREEN	GREY	10" SWING GOOSENECK; NYLON HANDLES; VACUUM BREAKER & AERATOR & WRIST BLADE HANDLES
RGW-1	PURE WATER FAUCET	CT7833-10	DECK	POWDER COAT	WHITE	GREY	NYLON HANDLE; SERRATED HOSE END
RGW-2	PURE WATER FAUCET	CT7838SC-10	DECK	POWDER COAT	WHITE	GREY	POLYPROPYENE-LINED, SELF CLOSING CONTROL, 10" SPREAD
SS	EMERGENCY SHOWER	ESBF672	PANEL	ST. STL			RECESSED EMERGENCY SHOWER, WALL MOUNTED SHOWER HEAD
V-1	NEEDLE VALVE	CT4880-225WSA	WALL	POWDER COAT	YELLOW	GREY	STRAIGHT PATTERN NEEDLE VALVE WITH BRASS ESCUTCHEON AND MOUNTING SHANK
V-2	NEEDLE VALVE	CT4200-231WSA	DECK	POWDER COAT	YELLOW	GREY	TURRET BASE WITH MOUNTING SINK
V-3	NEEDLE VALVE	CT740N-CR	FUME HOOD	POWDER COAT	YELLOW	GREY	STRAIGHT FRONT W/90 Deg ANGLE OUTLET FITTING W/SERRATED HOSE END & MOUNTING SHANK
V-4	NEEDLE VALVE	INV010-16-14BV-141EDI	LAB BENCH ASSEMBLY	POWDER COAT	YELLOW	GREY	SPECIAL WYE FITTING W/TWO INSTRUMENTAL NEEDLE VALVES W/90 Deg. INLET ELBOW

EQUIPMENT SCHEDULE (C.F.C.I.)

EQUIPMENT SCHEDULE (C.F.C.I.)

TAG	DESCRIPTION	BASIS OF DESIGN	DIMENSIONS			REMARKS
			DEPTH	WIDTH	HEIGHT	
APT	ANIMAL PREP TABLE	TBJ MODEL 24-60	60"	24"	36"	
BD	BEDDING DISPENSER	BETTER BUILT D236 MODEL	96"	81.5"	60"	
BF	BOTTLE FILLER	BETTER BUILT				
BSC6-B2	BIOLOGICAL SAFETY CABINET	BAKER MODEL MCG601	33 5/8"	77 7/8"	86" - 94 1/2"	
BWS	BACKDRAFT WORKSTATION	TBJ MODEL 30-60 BD	34"	60"	36"	
CRW	CAGE AND RACK WASHER	BETTER BUILT R730 MODEL	97.5	92"	108"	
FEA	FUME EXTRACTOR ARM	MOVEX TERU4, 4"D EXTRACTOR ARM				EXHAUST: 105 CFM
FH60	FUME HOOD	KEWAUNEE	36 3/4"	60"	89 3/4"	
FH60-ADA	ADA FUME HOOD	KEWAUNEE	36"	60"	84"	
HAST	HOT AIR STERILIZER	PCS	100"	96"	114"	
ICE	ICE FLAKER	HOSHIZAKI F-1001M_J	22"	26"	27.5"	WATER COOLED
LST-1	LARGE STEAM STERILIZER	STERIS MODEL LSS92121	85"	37"	85"	
MW	MOULAR WALL	STERIS				
NT	NECROPSY TABLE	BETTER BUILT DDT3060 MODEL	60"	30"	57"	
OL	LED SURGICAL LIGHTING SYSTEM	STERIS TWO HARMONY vLED LIGHTHEADS				CENTER MOUNTED ON ONE 39-3/8" HORIZONTAL ARM, AND ONE 33-12" HORIZTONAL ARM.
PL	PROCEDURE LIGHT	STERIS EXAMINER 10				E: 1/60/115V
SC	SERVICE COLUMN	ALLIED	12"	14"	36" - 54"	CELING-MOUNTED SERVICE COLUMN - MANUAL RETRACTABLE
SSS	SURGICAL SCRUB SINK	STERIS	27 9/32"	32"	51.5"	
ST-1	STEAM STERILIZER	STERIS CENTRY PREVACUUM STERILIZER	45"	30"	74"	CHAMBER DIMENSIONS: 20" X 20" X 30"
ST-2	STEAM STERILIZER	STERIS CENTRY PREVACUUM STERILIZER	46"	47"	48"	CHAMBER DIMENSIONS: 26" X 26" X 39"
TW	TUNNEL WASHER	BETTER BUILT T236 MODEL	240"	64"	99"	
UCW	UNDER COUNTER GLASSWARE WASHER	STERIS RELIANCE 100LS	27"	24"	34"	208V, 16 AMP
VGC1	VENTED CYLINDER CABINETS	SPECTRA GASES PRODUCT NUMBER F4001	18"	18"	75 75"	ONE CYLINDER CABINET WITH A 6" Dia. DUCT.
WFH120	WALK-IN FUME HOOD	LABCONCO		10'		

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UNIVERSITY OF KENTUCKY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By Author

Checked By Checker

Client Number 514

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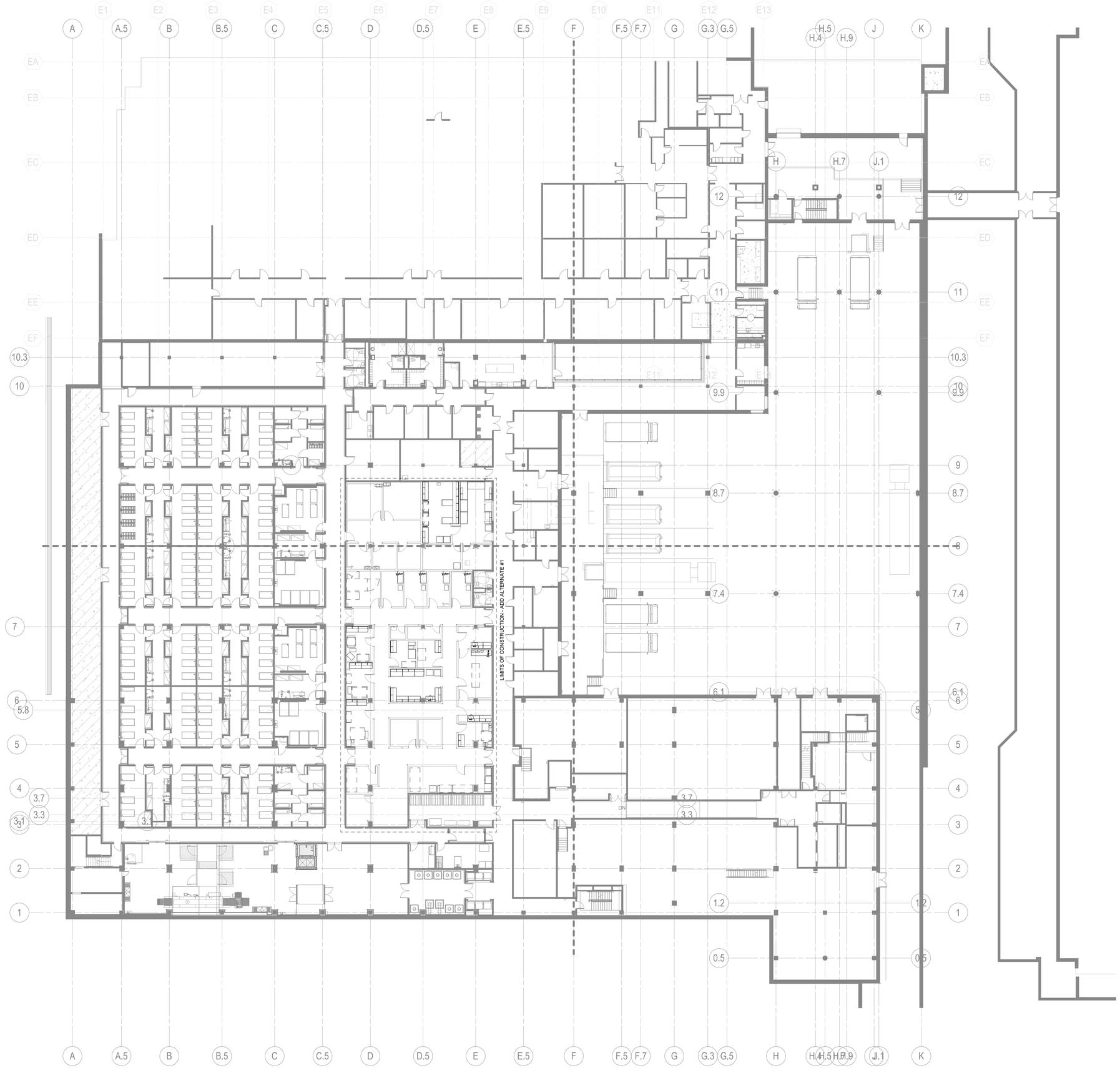
DRAWING

LAB EQUIPMENT COVER SHEET

SHEET NO.

QL-101

12/29/2020 11:24:43 AM



1 OVERALL PLAN - LOWER LEVEL
1/16" = 1'-0"

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UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By Author

Checked By Checker

Client Number 514

Project Number 5350

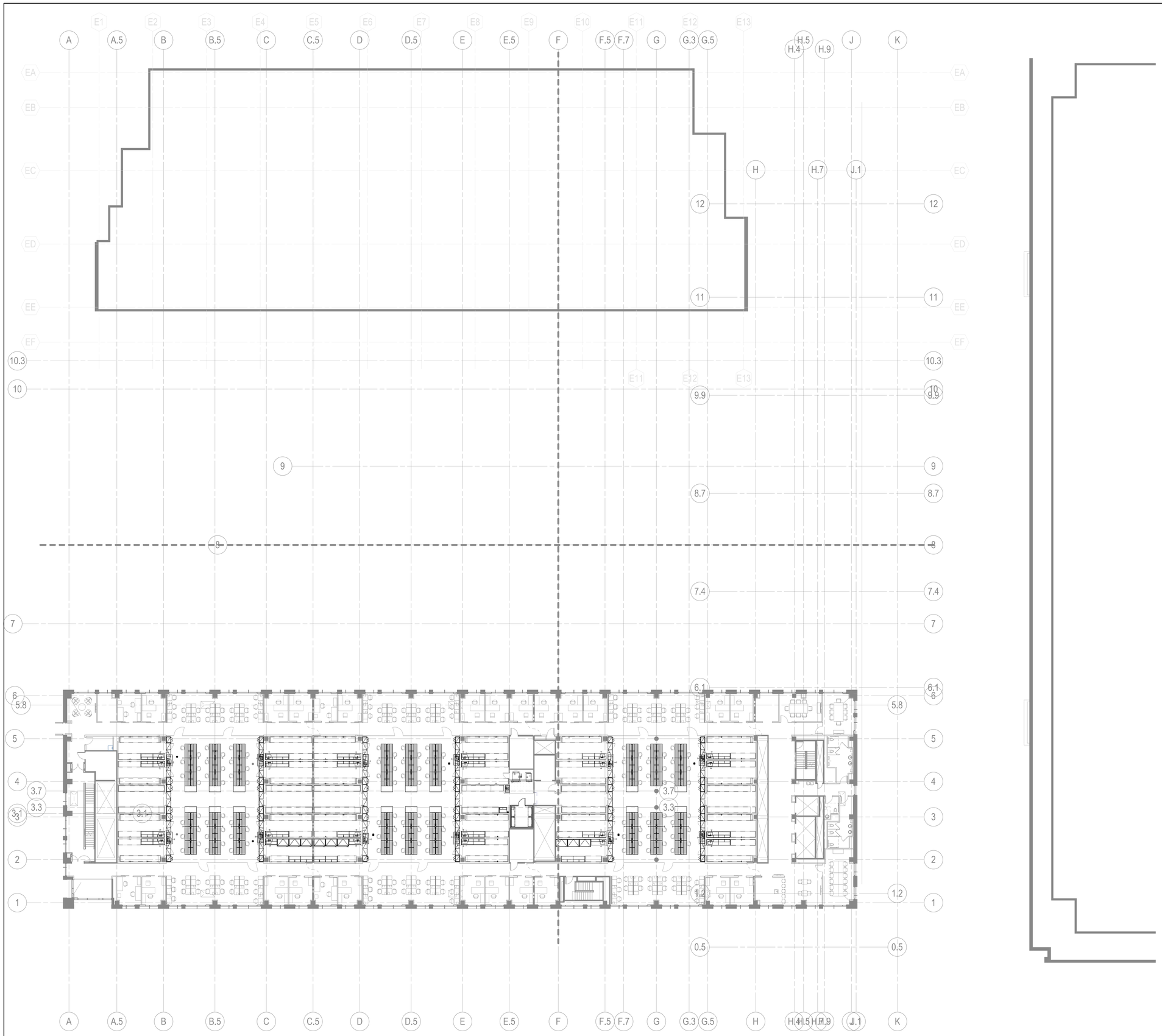
DRAWING

FLOOR PLAN LOWER LEVEL OVERALL

SHEET NO.

QL-200

1/11/2021 12:29:35 PM



1 OVERALL PLAN - LEVEL 06
1/16" = 1'-0"

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ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By Author

Checked By Checker

Client Number 514

Project Number 5350

DRAWING

FLOOR PLAN LEVEL 06 OVERALL

SHEET NO.

QL-206

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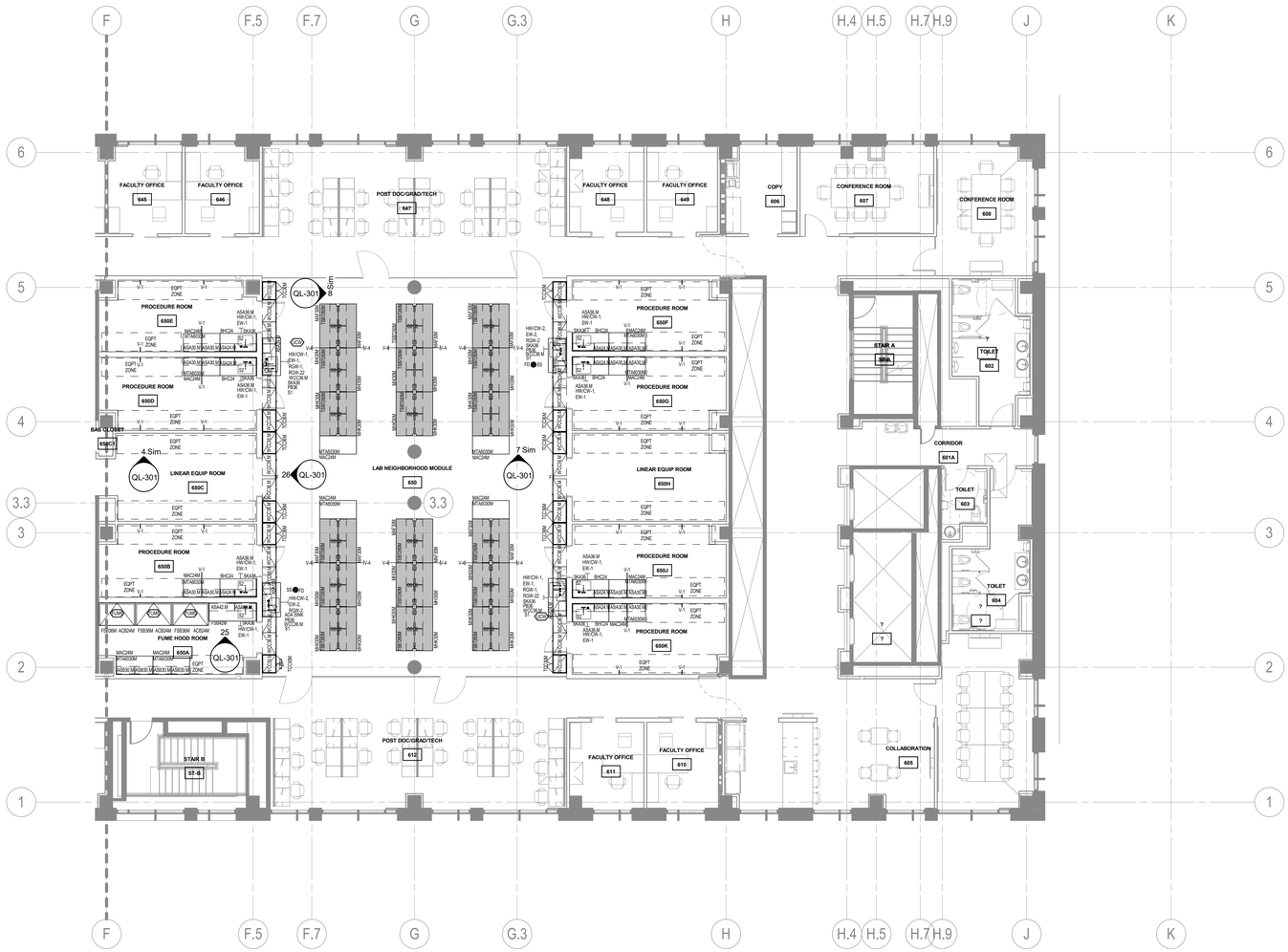

1 FLOOR PLAN - LEVEL 06 - AREA "A"

1/8" = 1'-0"

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ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By Author

Checked By Checker

Client Number 514

Project Number 5350

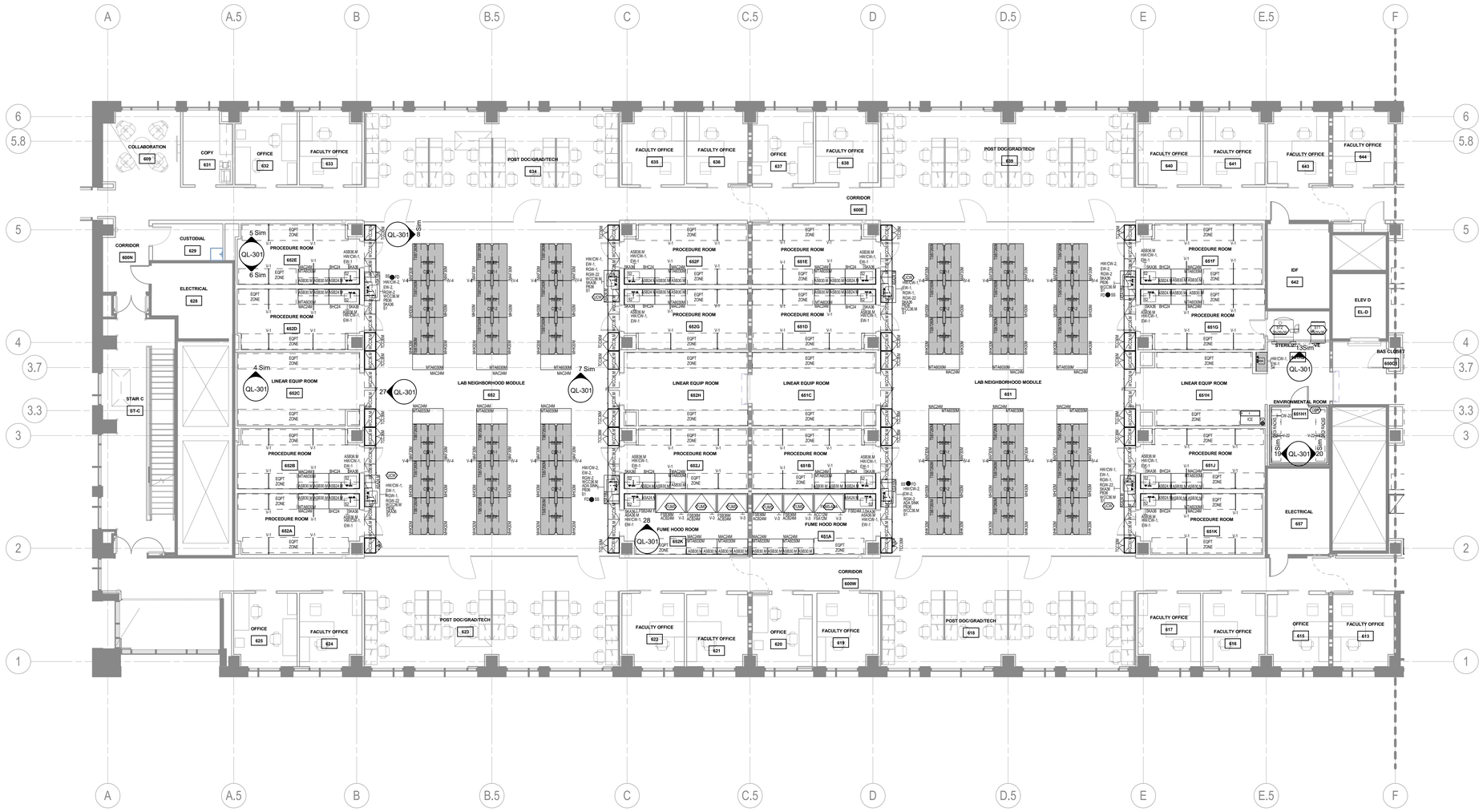
DRAWING

FLOOR PLAN LEVEL 06 AREA "A"

SHEET NO.

QL-206A

1/11/2021 1:12:01 PM



1 FLOOR PLAN - LEVEL 06 - AREA "B"

1/8" = 1'-0"

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ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By Author

Checked By Checker

Client Number 514

Project Number 5350

DRAWING

FLOOR PLAN LEVEL 06 AREA "B"

SHEET NO.

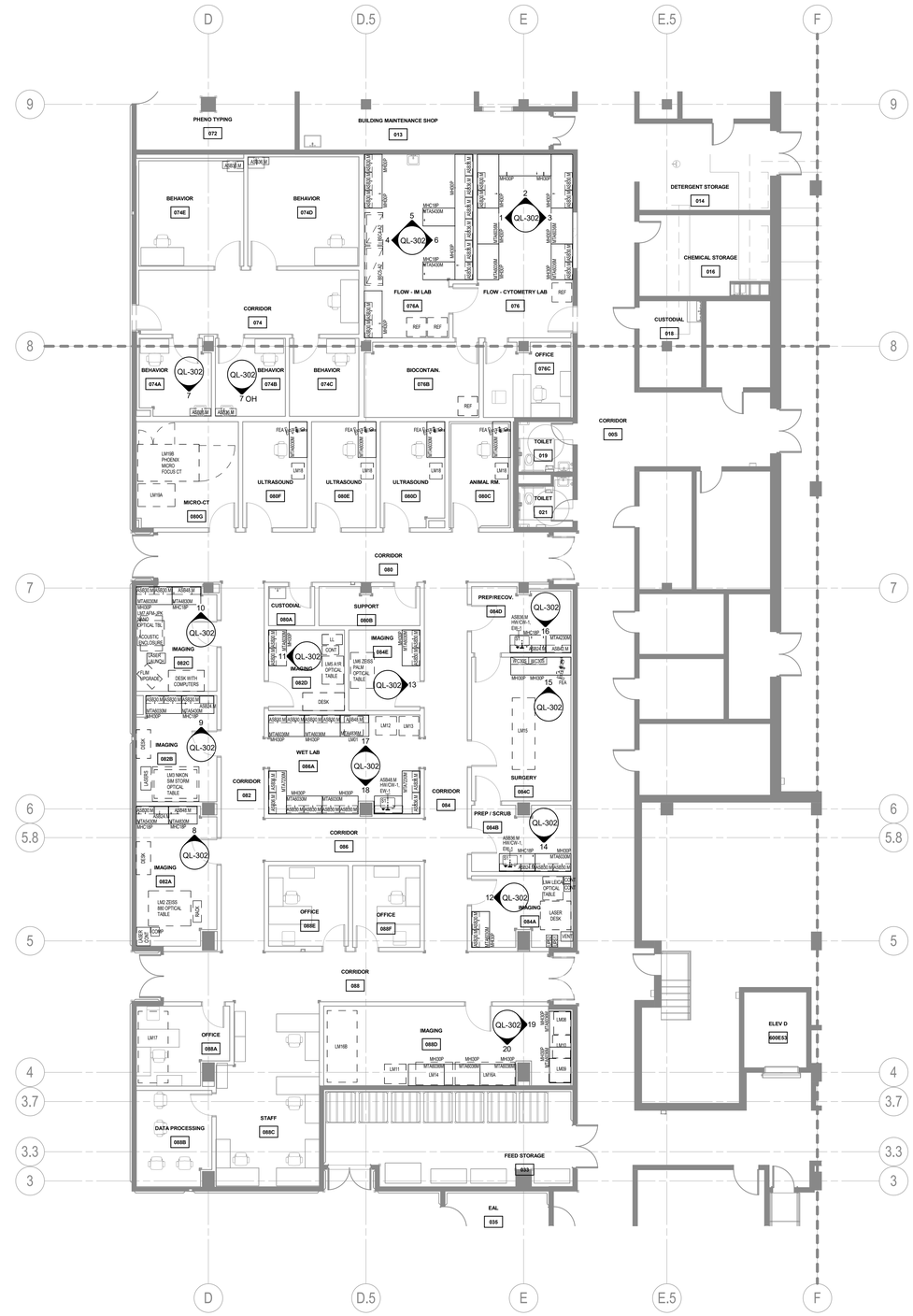
QL-206B

1/11/2021 1:12:33 PM

OWNER PROVIDED LABORATORY EQUIPMENT IDENTIFICATION SHEET

LIGHT MICROSCOPY

	EQUIPMENT DESIGNATION	EXISTING (E) OR FUTURE (F)	DESIRED LOCATION (RM NAME OR NO)	MOUNT	QUANTITY	ITEM DESCRIPTION	MANUFACTURER	MODEL NO.	DIMENSIONS (INCHES) L	D	H
LM	1	E			1	CO2 Incubator	Queue	QWJ300DABA	32	32	36
LM	2	E			1	Zeiss 880 NLO Microscope	Zeiss	880	136	80	72
LM									68	28	58
LM	3	E			1	NikonSIM/STORM Microscope (part 1)	Nikon		100	66	86
LM						NikonSIM/STORM Microscope (part 2)			48	28	56
LM	4	E			1	Leica SP5 Microscope	Leica	SP5	132	53	58
LM	5	E			1	Nikon A1R microscope	Nikon	A1R	116	86	65
LM	6	E			1	ZEISS PALM Microscope	Zeiss	PALM	79	52	66
LM	7	E			1	JPK Nanowizard 4/Nikon A1 Microscope	JPK+Nikon	A1 /Nanowizard 4	108	116	76
LM	8	E			1	Olympus SZ41 Microscope	Olympus	SZ41	28	38	24
LM	9	E			1	Zeiss Axiovert A1 Microscope	Zeiss	A1	40	36	64
LM	10	E			1	Vibratome	Leica	VT1000 S	30	38	20
LM	11	E			1	Cryotome	Thermo	FSE	36	33	51
LM	12	E			1	Tall Fridge	Frididaire		35	31	68
LM	13	E			1	Tall Freezer	Kenmore		32	32	66
LM	14	E			1	Tissue clearing system	Logos	X-CLARITY	62	38	25
LM	15	E			1	Craniotomy robot	Homebuild	Homebuild	120	38	30
LM	16a	E			1	Axioscan slide scanner	Zeiss	Z1	100	38	78
LM	16b	F			1	Live cell imager	Zeiss	Cellidiscover CD7	120	50	78
LM	17	F			1	Spectral analysis/ FLIM microscope	Zeiss	LSM 800	120	50	78
LM	18	?			3	Ultrasound	Fujifilm	Vevo 3100	21	27	62
LM	19a	E			1	Micro CT	Bruker	SkyScan 1276	62	38	38
LM	19b	F			1	Micro CT	Phoenix	Vtome xM	104	86	82



1 FLOOR PLAN - LEVEL 00 - IMAGING AREA
1/8" = 1'-0"

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UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - SD REVIEW	09/18/20
2	P4 - DD REVIEW	10/23/20
3	P4 - CD REVIEW	12/04/20
4	P4 - BID & PERMIT	01/08/21

Drawn By: Author

Checked By: Checker

Client Number: 514

Project Number: 5350

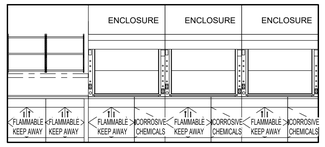
DRAWING

FLOOR PLAN LOWER LEVEL IMAGING AREA

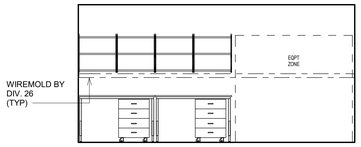
SHEET NO.

QL-220

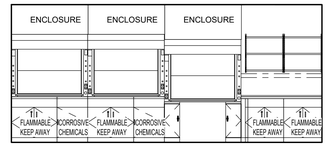
12/29/2020 11:32:11 AM



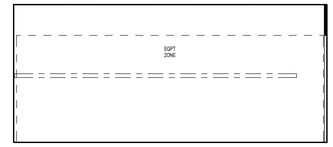
1 FUME HOOD
1/4" = 1'-0"



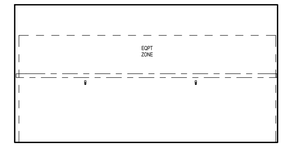
2 FUME HOOD
1/4" = 1'-0"



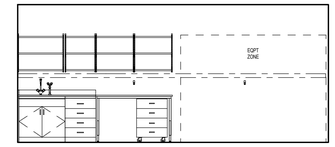
3 FUME HOOD
1/4" = 1'-0"



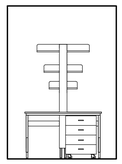
4 LINEAR EQUIPMENT
1/4" = 1'-0"



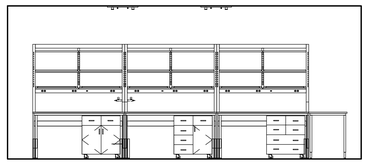
5 PROCEDURE ROOM
1/4" = 1'-0"



6 PROCEDURE ROOM
1/4" = 1'-0"



7 LAB NEIGHBORHOOD
1/4" = 1'-0"



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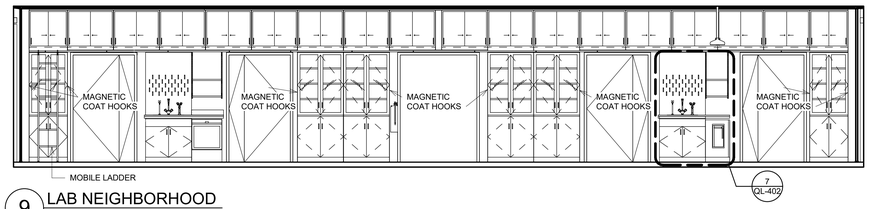
1/4" = 1'-0"



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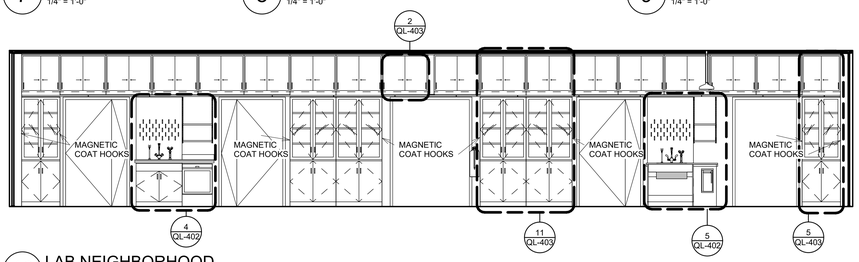
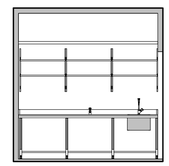
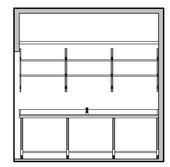
1/4" = 1'-0"



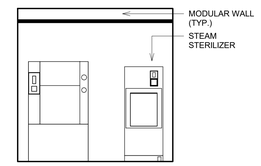
10 LAB NEIGHBORHOOD
1/4" = 1'-0"



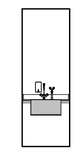
11 ENVIRONMENTAL ROOM
1/4" = 1'-0"



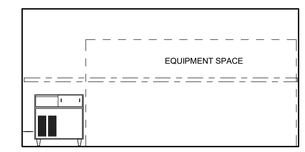
12 ENVIRONMENTAL ROOM
1/4" = 1'-0"



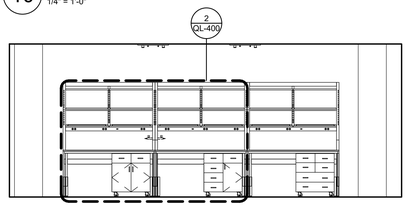
13 STERILIZER ALCOVE
1/4" = 1'-0"



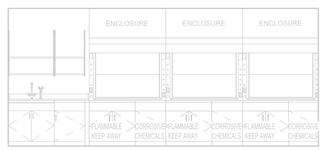
14 STERILIZER ALCOVE
1/4" = 1'-0"



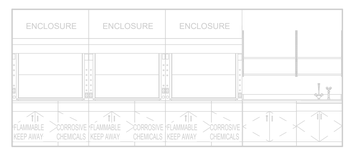
15 LINEAR EQUIPMENT
1/4" = 1'-0"



16 LAB NEIGHBORHOOD
1/4" = 1'-0"



17 FUME HOOD 452K
1/4" = 1'-0"



18 FUME HOOD 450A
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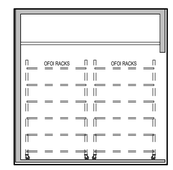
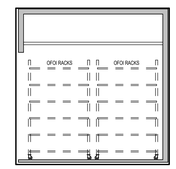
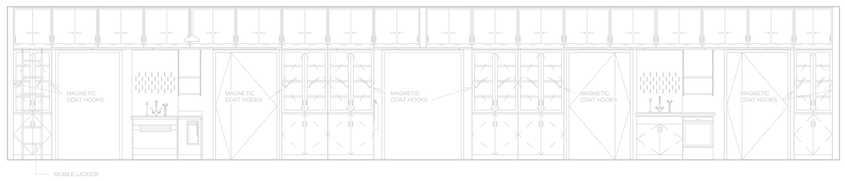


19 ENVIRONMENTAL ROOM TYPE 2
1/4" = 1'-0"

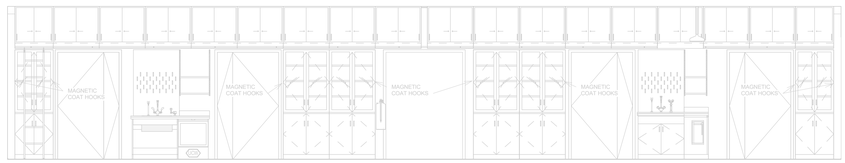


20 ENVIRONMENTAL ROOM TYPE 2
1/4" = 1'-0"



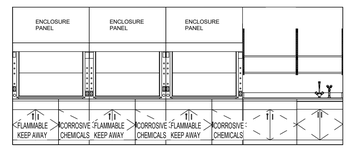
21 LAB NEIGHBORHOOD MODULE 450
1/4" = 1'-0"

22 LAB NEIGHBORHOOD MODULE 450
1/4" = 1'-0"

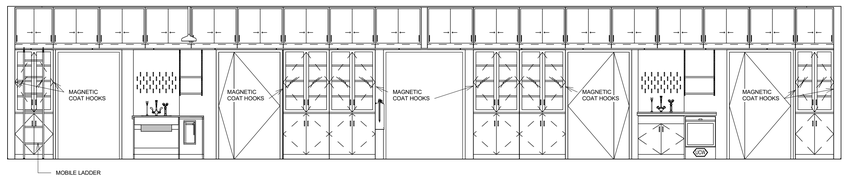


23 LAB NEIGHBORHOOD 152
1/4" = 1'-0"

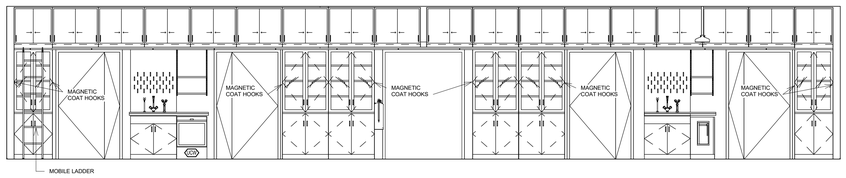
24 LAB NEIGHBORHOOD 152
1/4" = 1'-0"



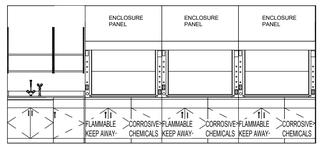
25 FUME HOOD ROOM 650A
1/4" = 1'-0"



26 LAB NEIGHBORHOOD MODULE 650
1/4" = 1'-0"



27 LAB NEIGHBORHOOD MODULE 652
1/4" = 1'-0"



28 FUME HOOD ROOM 625K
1/4" = 1'-0"

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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
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3	P4 - BID & PERMIT	01/08/21

Drawn By Author

Checked By Checker

Client Number 514

Project Number 5350

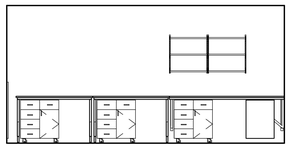
DRAWING

LABORATORY ELEVATIONS

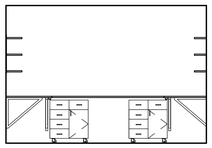
SHEET NO.

QL-301

1/11/2021 1:19:22 PM



1 FLOW - CYTOMETRY LAB 076
1/4" = 1'-0"



2 FLOW - CYTOMETRY LAB 076
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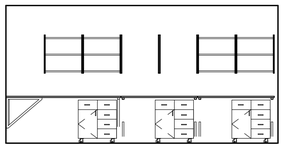
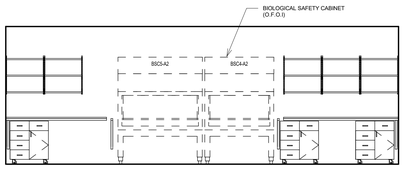
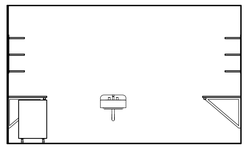


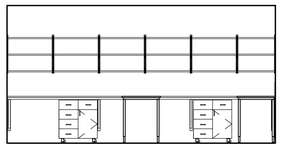
3 FLOW - CYTOMETRY LAB 076
1/4" = 1'-0"



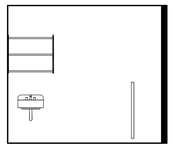
4 FLOW - IM LAB 076A
1/4" = 1'-0"



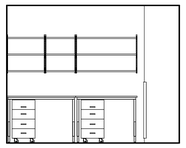
5 FLOW - IM LAB 076A
1/4" = 1'-0"



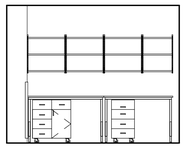
6 FLOW - IM LAB 076A
1/4" = 1'-0"



7 BEHAVIOR 074A
1/4" = 1'-0"



8 IMAGING 082A
1/4" = 1'-0"



9 IMAGING 082B
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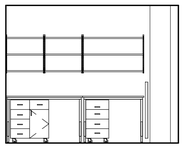
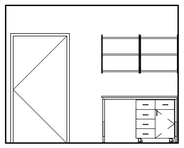
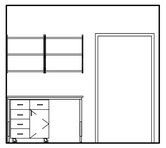


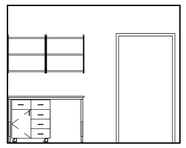
10 IMAGING 082C
1/4" = 1'-0"



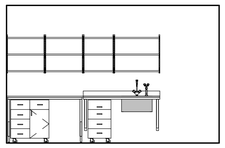
11 IMAGING 082D
1/4" = 1'-0"



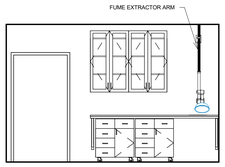
12 IMAGING 084A
1/4" = 1'-0"



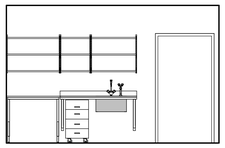
13 IMAGING 084E
1/4" = 1'-0"



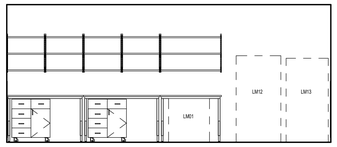
14 PREP/SCRUB 084B
1/4" = 1'-0"



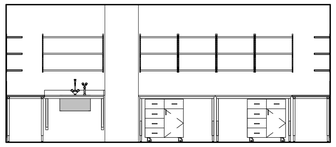
15 SURGERY 084C
1/4" = 1'-0"



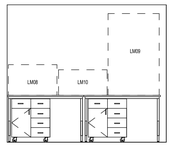
16 PREP/RECOVERY 084D
1/4" = 1'-0"



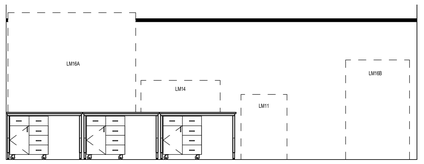
17 WET LAB 086A
1/4" = 1'-0"



18 WET LAB 086A
1/4" = 1'-0"



19 IMAGING 088D
1/4" = 1'-0"



20 IMAGING 088D
1/4" = 1'-0"

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UK Project Number 2552.0

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1	P4 - CD REVIEW	12/04/20
2	P4 - BID & PERMIT	01/08/21

Drawn By
Author

Checked By
Checker

Client Number
514

Project Number
5350

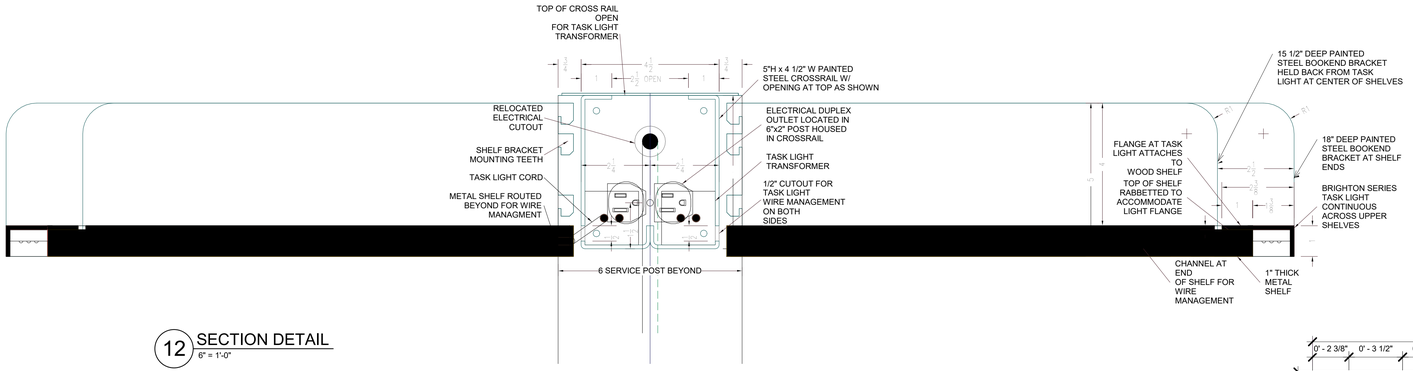
DRAWING

LOWER LEVEL ELEVATIONS

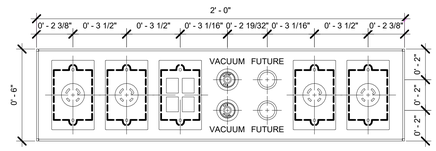
SHEET NO.

QL-302

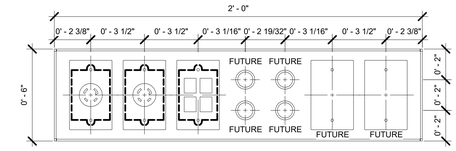
1/11/2021 12:33:28 PM



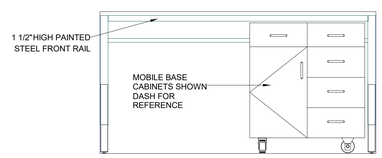
12 SECTION DETAIL
6" = 1'-0"



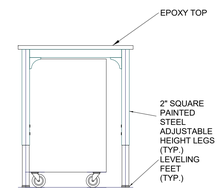
10 CEILING SERVICE PANEL CSP-1
3" = 1'-0"



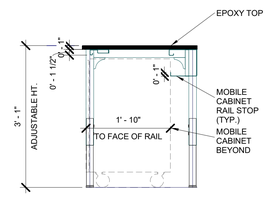
11 CEILING SERVICE PANEL CSP-2
3" = 1'-0"



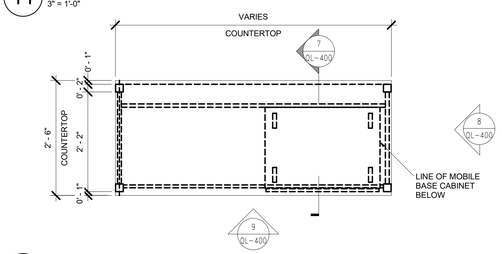
9 MOVEABLE TABLE (MT) FRONT ELEV.
3/4" = 1'-0"



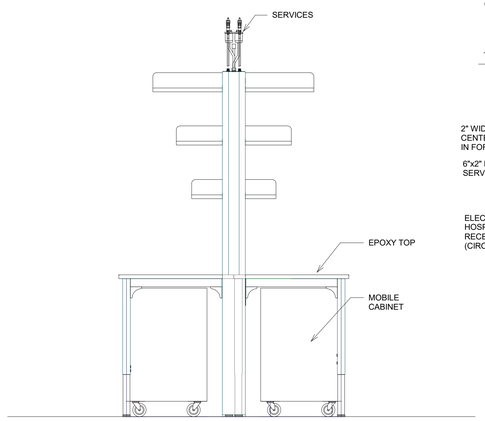
8 MOVEABLE TABLE (MT) SIDE ELEV.
3/4" = 1'-0"



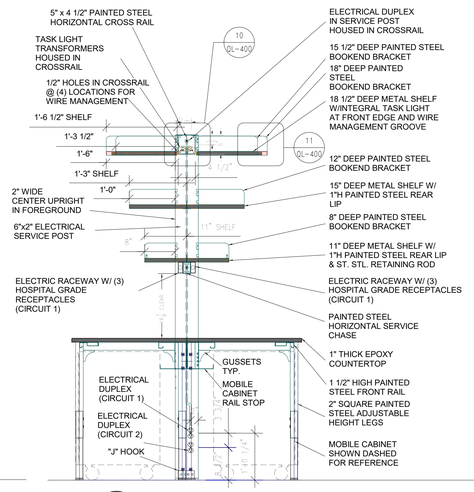
7 MOVEABLE TABLE (MT) SECTION
3/4" = 1'-0"



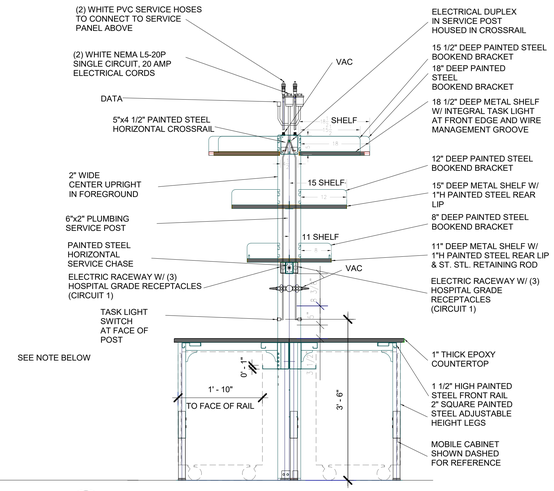
6 MOVEABLE TABLE (MT) PLAN
3/4" = 1'-0"



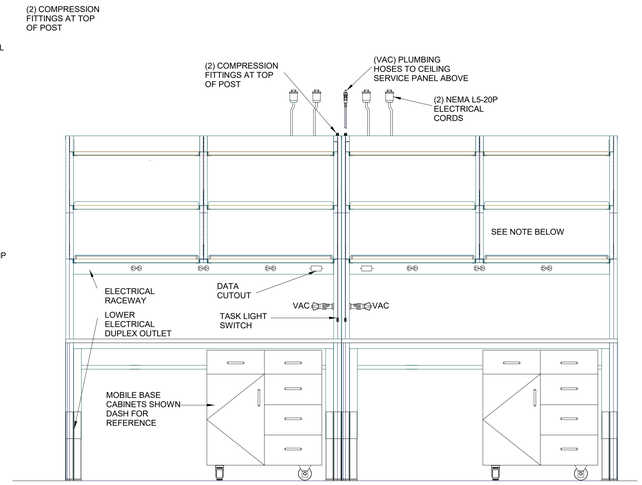
5 TABLE SYSTEM (TS) ELEV.
3/4" = 1'-0"



4 TABLE SYSTEM (TS)
3/4" = 1'-0"

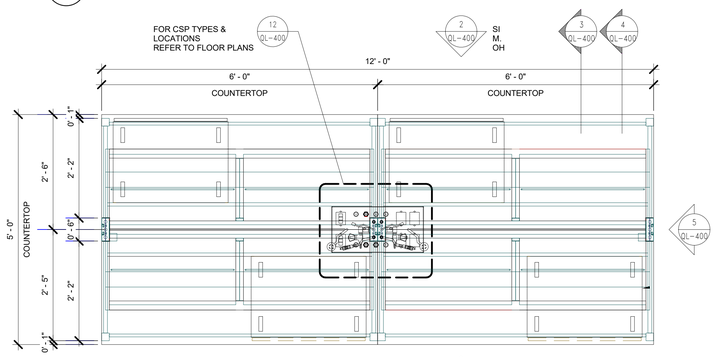


3 TABLE SYSTEM (TS) SECTION
3/4" = 1'-0"



2 TABLE SYSTEM (TS) FRONT ELEVATION
3/4" = 1'-0"

NOTE: FOR TABLES CONNECTED TO CSP-6, PROVIDE (1) 208V ELEC. OUTLET & CORD ON ONE SIDE OF THE TABLE.



1 TABLE SYSTEM (TS) PLAN
3/4" = 1'-0"

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Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	5350

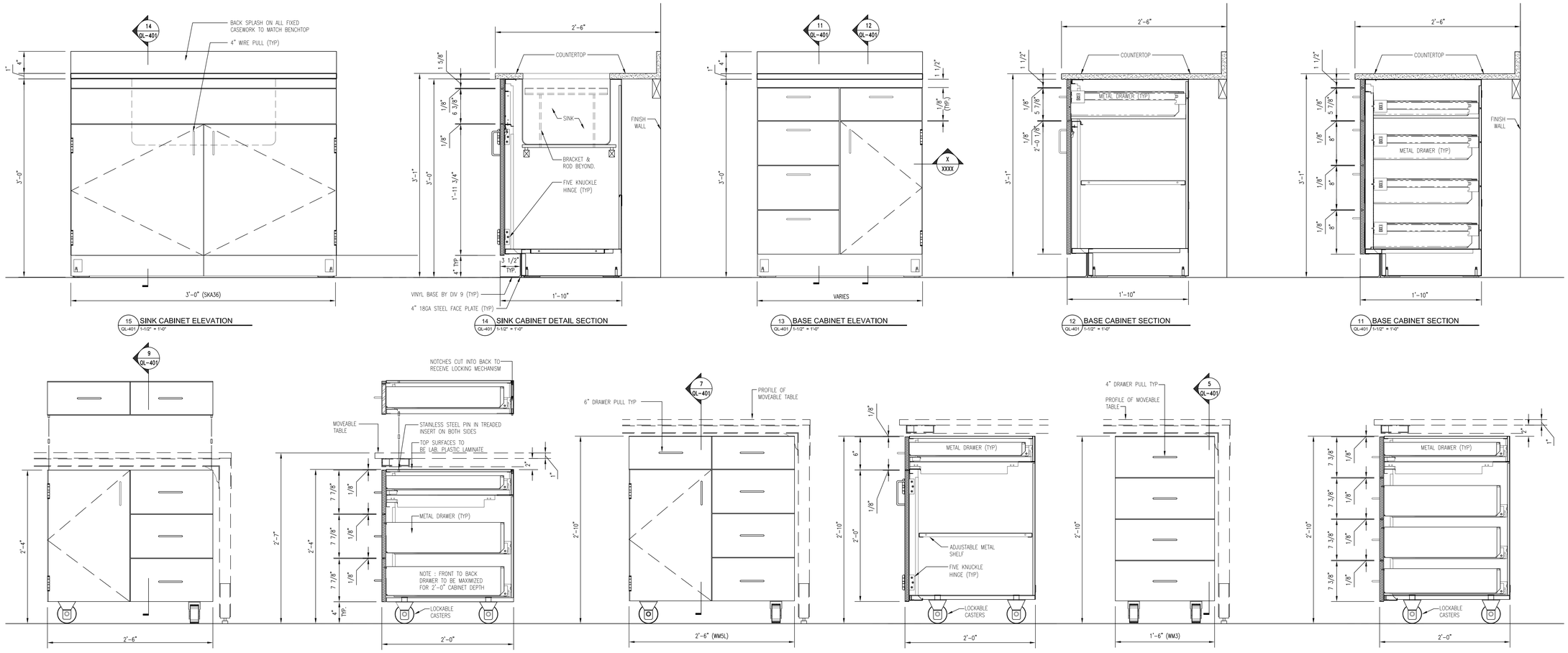
DRAWING

TABLE SYSTEMS AND CEILING SERVICE PANEL DETAILS

SHEET NO.

QL-400

12/29/2020 11:34:40 AM



15 SINK CABINET ELEVATION
QL-401 1-1/2" = 1'-0"

14 SINK CABINET DETAIL SECTION
QL-401 1-1/2" = 1'-0"

13 BASE CABINET ELEVATION
QL-401 1-1/2" = 1'-0"

12 BASE CABINET SECTION
QL-401 1-1/2" = 1'-0"

11 BASE CABINET SECTION
QL-401 1-1/2" = 1'-0"

10 MOVABLE BASE CABINET ELEVATION
QL-401 1-1/2" = 1'-0"

9 MOVABLE BASE CABINET SECTION
QL-401 1-1/2" = 1'-0"

8 MOVABLE BASE CABINET ELEVATION
QL-401 1-1/2" = 1'-0"

7 MOVABLE BASE CABINET SECTION
QL-401 1-1/2" = 1'-0"

6 MOVABLE BASE CABINET ELEVATION
QL-401 1-1/2" = 1'-0"

5 MOVABLE BASE CABINET SECTION
QL-401 1-1/2" = 1'-0"

4 MOVABLE BASE CABINET ELEVATION
QL-401 1-1/2" = 1'-0"

3 MOVABLE BASE CABINET SECTION
QL-401 1-1/2" = 1'-0"

2 FLAMMABLE BASE CABINET ELEVATION
QL-401 1-1/2" = 1'-0"

1 FLAMMABLE BASE CABINET SECTION
QL-401 1-1/2" = 1'-0"

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Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	5350

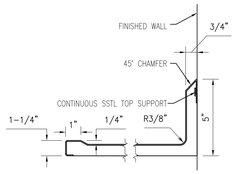
DRAWING

LAB CASEWORK DETAILS

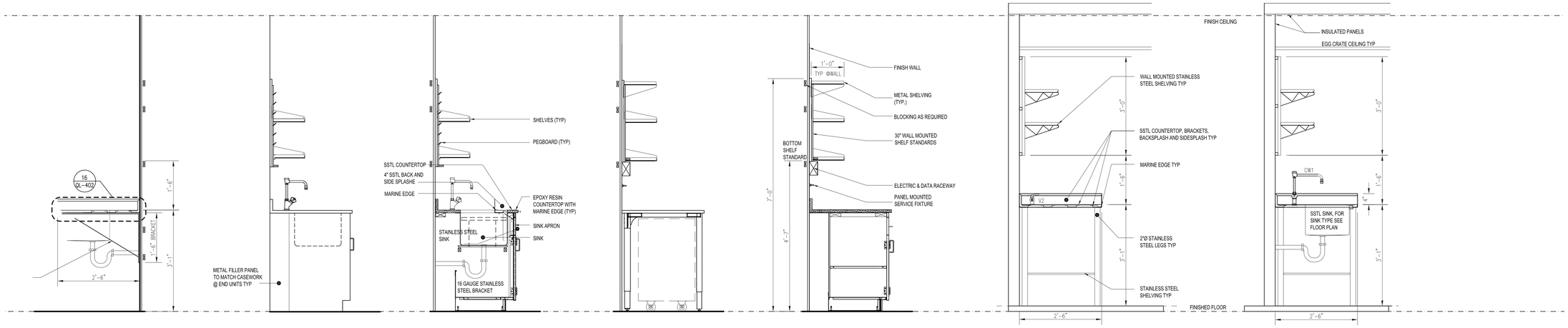
SHEET NO.

QL-401

12/29/2020 11:35:17 AM



16 QL-402 SSTL COUNTERTOP SECTION 3"=1'-0"



15 QL-402 SINK UNIT SECTION 3"=1'-0"

14 QL-402 SINK UNIT ELEVATION 3/4"=1'-0"

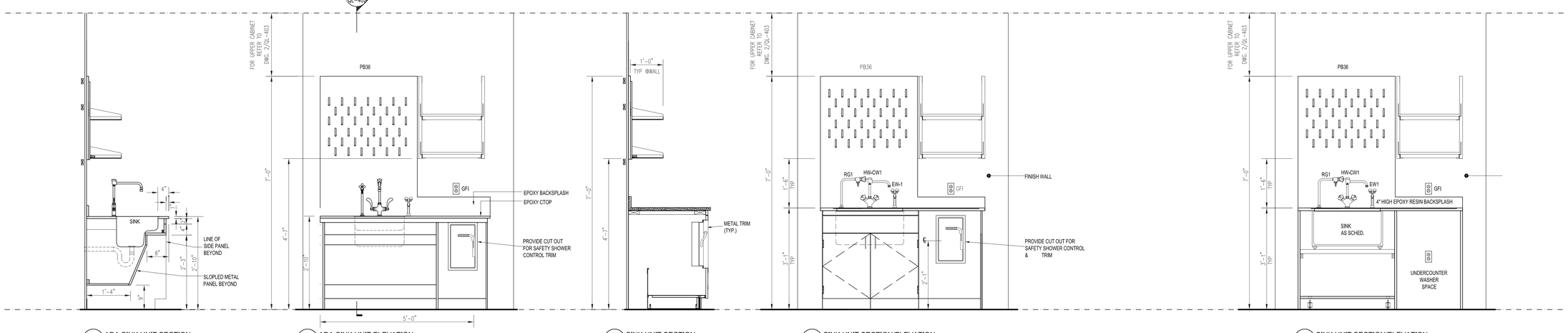
13 QL-402 SINK UNIT SECTION 3/4"=1'-0"

12 QL-402 WALL MOUNTED SHELVING UNIT SECTION 3/4"=1'-0" WITH MOVABLE TABLE UNDER

11 QL-402 WALL MOUNTED SHELVING UNIT SECTION 3/4"=1'-0" WITH BASE CABINET UNDER

10 QL-402 ENVIRONMENTAL ROOM SECTION 3/4"=1'-0"

9 QL-402 ENVIRONMENTAL ROOM SECTION 3/4"=1'-0"



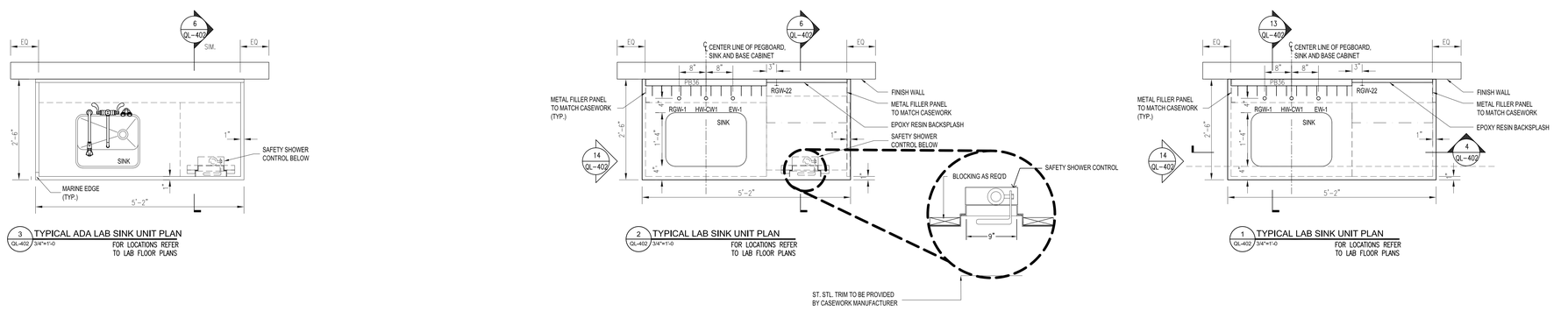
8 QL-402 ADA SINK UNIT SECTION 3/4"=1'-0"

7 QL-402 ADA SINK UNIT ELEVATION 3/4"=1'-0" @ SAFETY SHOWER LOCATIONS

6 QL-402 SINK UNIT SECTION 3/4"=1'-0" @SS LOCATIONS

5 QL-402 SINK UNIT SECTION/ELEVATION 3/4"=1'-0" @ SAFETY SHOWER LOCATIONS

4 QL-402 SINK UNIT SECTION/ELEVATION 3/4"=1'-0" @ UNDERCOUNTER WASHER LOCATIONS



3 QL-402 TYPICAL ADA LAB SINK UNIT PLAN 3/4"=1'-0 FOR LOCATIONS REFER TO LAB FLOOR PLANS

2 QL-402 TYPICAL LAB SINK UNIT PLAN 3/4"=1'-0 FOR LOCATIONS REFER TO LAB FLOOR PLANS

1 QL-402 TYPICAL LAB SINK UNIT PLAN 3/4"=1'-0 FOR LOCATIONS REFER TO LAB FLOOR PLANS

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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By	
Author	
Checked By	
Checker	
Client Number 514	
Project Number 5350	

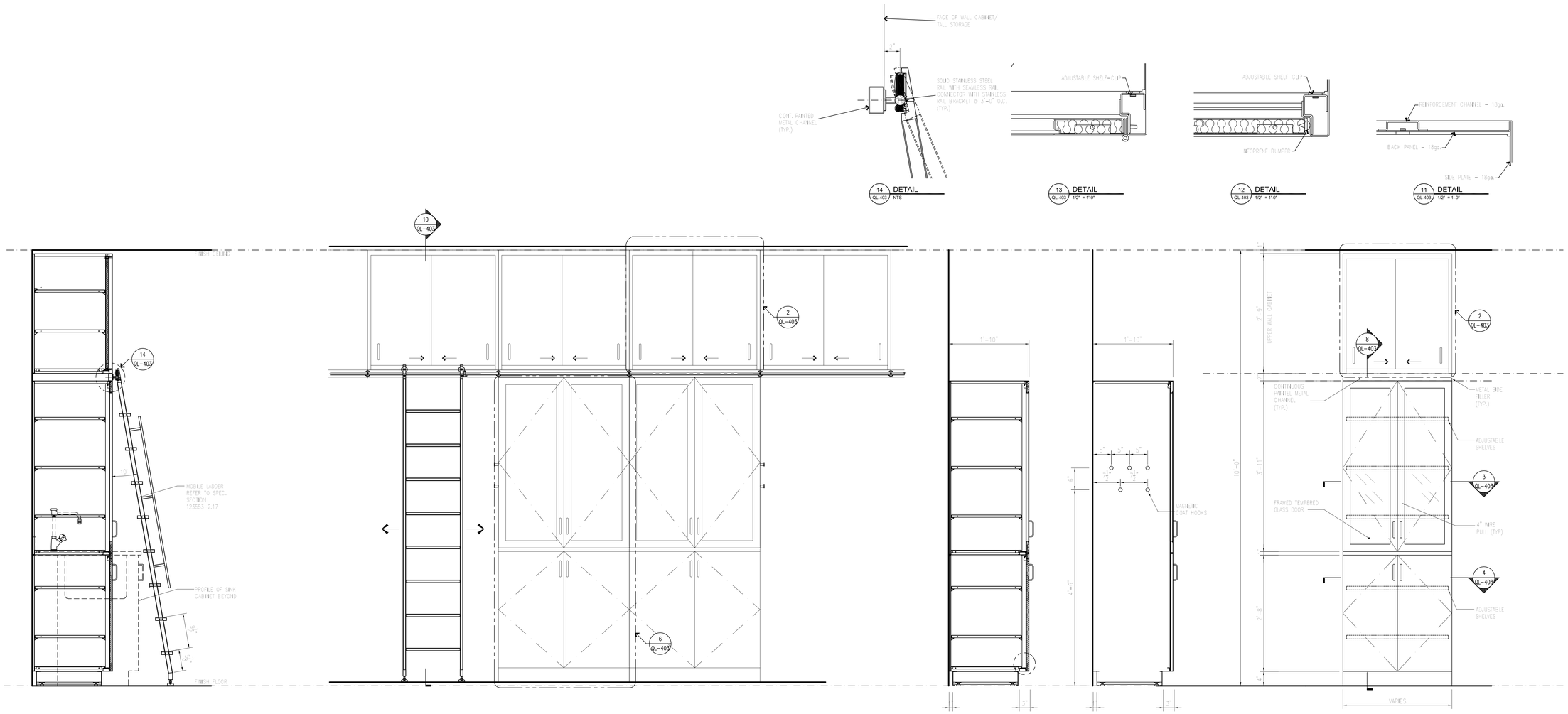
DRAWING

LAB CASEWORK DETAILS

SHEET NO.

QL-402

12/29/2020 11:35:46 AM



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Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	5350

DRAWING

LAB CASEWORK DETAILS

SHEET NO.

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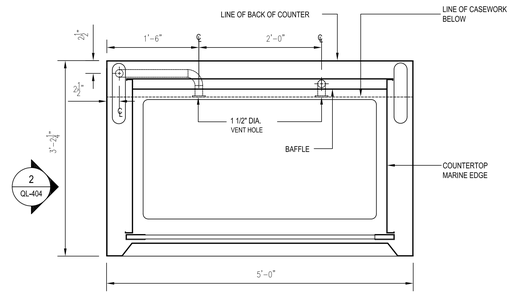
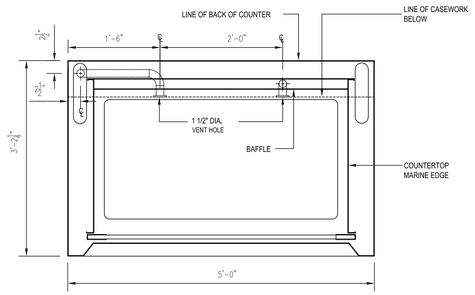
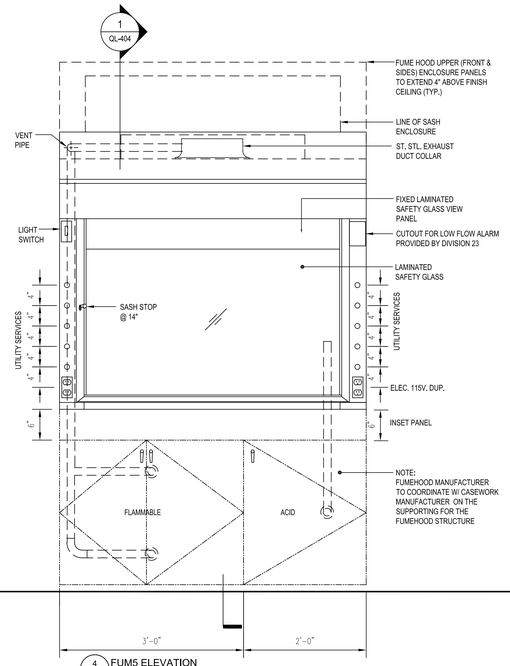


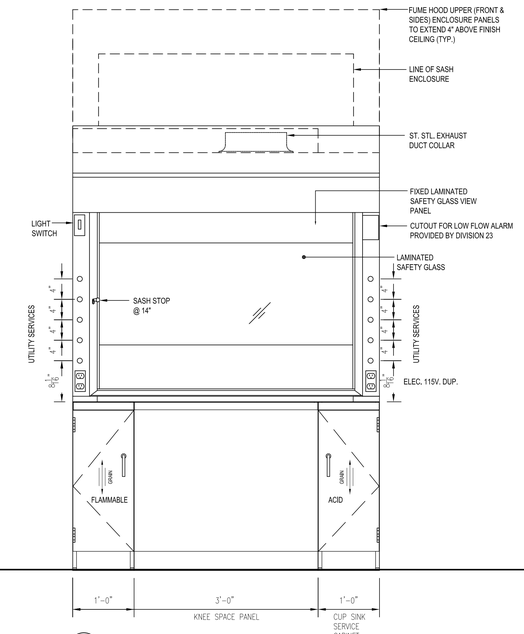
6 QL-404 FUM5 PLAN
1" = 1'-0"



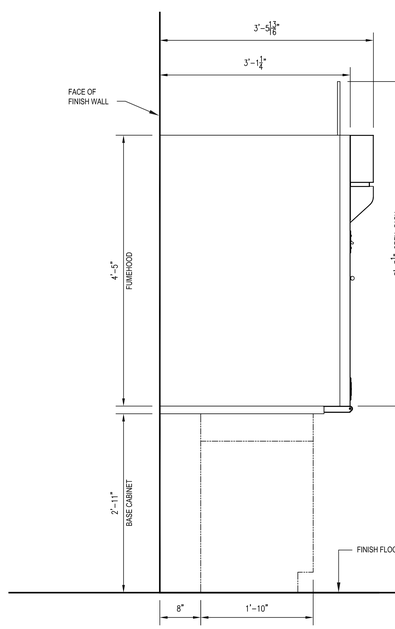
5 QL-404 FUM5-ADA PLAN
1" = 1'-0"



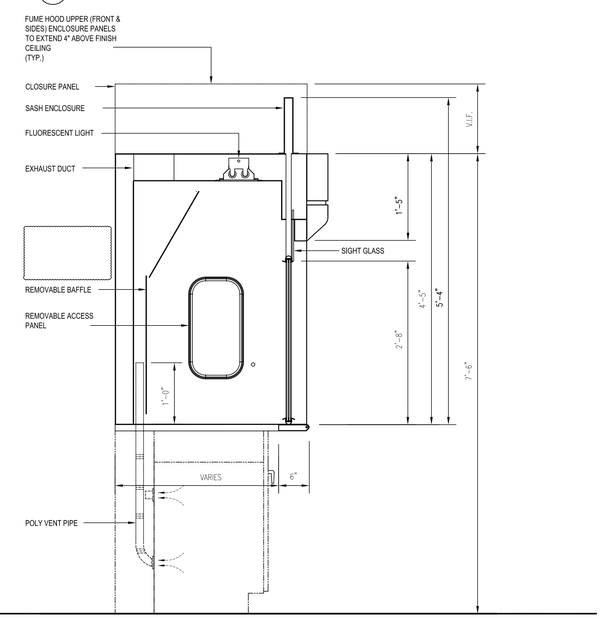
4 QL-404 FUM5 ELEVATION
1" = 1'-0"



3 QL-404 FUM5-ADA ELEVATION
1" = 1'-0"



2 QL-404 FUME HOOD SIDE ELEVATION
1" = 1'-0"



1 QL-404 FUME HOOD SECTION
1" = 1'-0"

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Checked By Checker

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Project Number 5350

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FUME HOOD DETAILS

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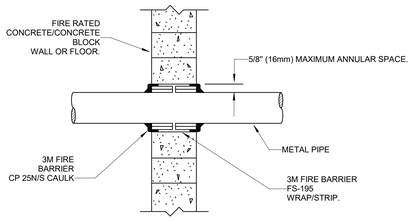


NOTES:

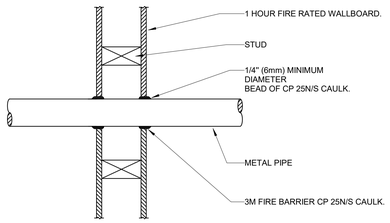
1. THE MAXIMUM ANNULAR SPACE AROUND THE METAL PIPE OR CONDUIT IS 5/8" (16mm). (IF THE ANNULAR SPACE EXCEEDS 5/8" PATCH THE WALL AND PENETRATE WALL AT ANOTHER LOCATION).
2. WRAP THE 3M MODEL# FS-195 WRAP/STRIP AROUND THE PIPE/CONDUIT, FOIL SIDE OUT, TO FILL THE SPACE BETWEEN THE PIPE/CONDUIT AND THE WALL OPENING. THE 3M MODEL# FS-195 WRAP/STRIP SHOULD BE TIGHTLY SECURED WITH ALUMINUM FOIL TAPE OR STEEL TIE WIRE AND PUSHED INTO THE OPENING UNTIL THE TOP EDGE OF THE WRAP IS FLUSH WITH THE WALL SURFACE. THE IDENTICAL INSTALLATION SHOULD BE INSTALLED ON THE OTHER SIDE OF THE WALL.
3. USE 3M MODEL# CP 25N/S(NO SAG) CAULK TO FILL THE AREA BETWEEN THE FS-195 WRAP/STRIP AND THE EDGES OF THE OPENING AND ANY VOIDS IN THE 3M MODEL# FS-195 WRAP/STRIP. A FILL OF CP 25 CAULK SHOULD COAT ALL EXPOSED EDGES OF THE FS-195 WRAP/STRIP AND COMPLETELY SEAL THE AREA BETWEEN THE FS-195 WRAP/STRIP, THE PIPE/CONDUIT AND THE WALL SURFACE.

PENETRATION FIRESTOP FOR METAL PIPE/CONDUIT THROUGH A CONCRETE WALL

NOT TO SCALE

FIRE STOPPING NOTES:

1. FIRE STOPPING IS CRITICAL AND MUST BE ACCOMPLISHED. ALL PIPES MUST BE FIRESTOPPED WHERE THEY PENETRATE FIRE RESISTIVE, FIRE RATED, AND SMOKE RESISTIVE WALLS OR FLOORS. ALL FLOORS CORRIDOR WALLS, STAIR WALLS, MECHANICAL ROOM WALLS, STORAGE ROOM WALLS AND OTHER HAZARDOUS ROOM WALLS ARE ONE HOUR RATED.
2. A FOUR-HOUR TRAINING SESSION SHALL BE CONDUCTED BY MANUFACTURER OF THE FIRESTOPPING MATERIAL. THIS SHALL BE DONE PRIOR TO THE INSTALLATION OF THE MATERIAL. CONTACT HOSPITAL ENGINEER AND CMTA TO ADVISE OF DATE AND TIME OF THIS MEETING.
3. ALL PENETRATIONS WILL BE REVIEWED BY THE HOSPITAL ENGINEER OR CMTA, PRIOR TO INSPECTION. ALL CEILING TILES BENEATH THE PENETRATIONS SHALL BE REMOVED BY THE CONTRACTOR.



NOTES:

1. FORCE THE 3M MODEL# CP 25N/S CAULK INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE, FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm). (IF IT DOES PATCH WALL AND PENETRATE WALL AT ANOTHER LOCATION).
4. INSTALL THE 3M FIRESTOP ON BOTH SIDES OF THE WALL.

PENETRATION FIRESTOP FOR METAL PIPE/CONDUIT THROUGH ONE HOUR WALL

NOT TO SCALE

FIRE PROTECTION DESIGN NOTES:

1. ALL AREAS SHALL BE 100% COVERED WITH A FIRE PROTECTION SYSTEM DESIGNED IN ACCORDANCE WITH NFPA 13. THE OUTLINED AREA SHALL BE PROTECTED WITH A WET TYPE SYSTEM UNLESS NOTED OTHERWISE.
2. THE SUCCESSFUL FIRE PROTECTION CONTRACTOR SHALL OBTAIN AND UTILIZE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR LAYING OUT THE SPRINKLER HEADS. THE REFLECTED CEILING PLANS SHOWN ARE TO COORDINATE CEILING TYPES AND LOCATIONS. REFER TO THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR COORDINATION OF TRADES, STRUCTURE, EQUIPMENT AND CEILING DEVICE LOCATIONS. REFER TO SPECIFICATIONS COORDINATION DRAWINGS REQUIREMENTS.
3. ALL OUTLINED AREAS SHALL HAVE "SEMI-RECESSED" QUICK RESPONSE TYPE SPRINKLER HEADS (UNLESS OTHERWISE NOTED ON THE PLANS). HEADS SHALL BE FED FROM A RETURN BEND ARRANGEMENT.
4. UTILIZE UPRIGHT AND/OR WALL MOUNTED TYPE SPRINKLER HEADS IN AREAS WITHOUT CEILINGS.
5. ALL SPRINKLER HEADS TO BE CENTERED IN BOTH DIRECTIONS OF A 2' x 4' OR 2' x 2' CEILING TILE. REFER TO CEILING GRID DETAILS BELOW.
6. HVAC DUCTWORK MAINS SHALL BE INSTALLED PRIOR TO FIRE PROTECTION PIPING. PROVIDE DRAIN VALVES IN THE FIRE PROTECTION SYSTEM WHERE NECESSARY TO COMPLETELY DRAIN THE SYSTEM.
7. REFER TO THE SPECIFICATIONS FOR THE DIFFERENT SPRINKLER HEAD TYPES.
8. PROVIDE ALL REQUIRED DRAIN PIPING TO TEST FLOW SWITCHES. DISCHARGE DRAIN PIPING TO OUTDOORS OR A FLOOR DRAIN.
9. SIZE ALL FIRE PROTECTION PIPING IN ACCORDANCE WITH NFPA 13. PIPE SIZING SHALL BE ACCOMPLISHED USING HYDRAULIC CALCULATIONS.
10. SUBMIT HYDRAULIC CALCULATIONS AND SYSTEMS DESIGN FOR REVIEW TO: THE M/E ENGINEER.
11. THE SUCCESSFUL CONTRACTOR SHALL PERFORM A NEW FLOW TEST BEFORE STARTING ANY DESIGN WORK OR CALCULATIONS.
12. WHERE CEILINGS ARE INDICATED ALL SPRINKLER PIPING MUST BE INSTALLED ABOVE CEILINGS. SPRINKLER PIPING MUST BE COORDINATED WITH OTHER TRADES PIPING MUST BE OFFSET TO AVOID CONFLICTS WITH DUCTWORK, CONDUIT, ALL EQUIPMENT, ETC.
13. APPLICABLE CODES THAT SHALL PROVIDE TO DESIGN AND INSTALLATION OF THE FIRE PROTECTION SYSTEM ARE NFPA 13, 20, 25, 45 AND 101.
14. FLEXIBLE HOSE SPRINKLER HEADS ARE NOT ALLOWED.

FLOW DATA

STATIC PSI: 158

RESIDUAL PSI: 145

FLOW: 504 GPM

DURATION: CONTINUOUS

DATE & TIME: 09/11/2020

SOURCE OF WATER: FIRE PUMP FROM CITY SUPPLY

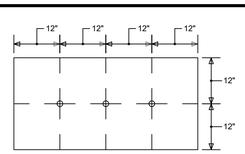
SOURCE OF DATA: UK FIRE SAFETY

HAZARD: LIGHT & ORDINARY

OCCUPANCY OF BUILDING: RESEARCH & HIGHER EDUCATION

FIRE PROTECTION LEGEND

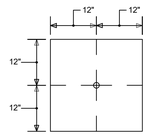
"SEMI-RECESSED" SPRINKLER HEAD WITH REMOVABLE ESCUTCHEON PLATE	
UPRIGHT TYPE SPRINKLER HEAD	
SIDEWALL TYPE SPRINKLER HEAD	
FIRE PROTECTION PIPING	FP
DRY SYSTEM FIRE PROTECTION PIPING	FP - DRY
PREACTION FIRE PROTECTION PIPING	FP - PRE
FIRE VALVE CABINET	FVC
DOUBLE CHECK VALVE	
NEW O.S.&Y VALVE	
TAMPER SWITCH	TS
FLOW SWITCH	FS
PIPING RISE UP	
PIPING DOWN	
CONNECT TO EXISTING	



SPRINKLER HEADS MAY BE INSTALLED IN 2x4 CEILING TILES IN ANY OF THE THREE LOCATIONS INDICATED ABOVE. NO EXCEPTIONS!

2x4 CEILING TILE DETAIL

SCALE: NONE



SPRINKLER HEADS TO BE INSTALLED IN CENTER OF 2x2 CEILING TILES.

2x2 CEILING TILE DETAIL

SCALE: NONE

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Drawn By RLB

Checked By CMR

Client Number

Project Number UKR15

STATE OF KENTUCKY CHRISTOPHER M. REEVES 25045 LICENSED PROFESSIONAL ENGINEER

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FIRE PROTECTION LEGEND/SCHEDULES

SHEET NO.

FP-160

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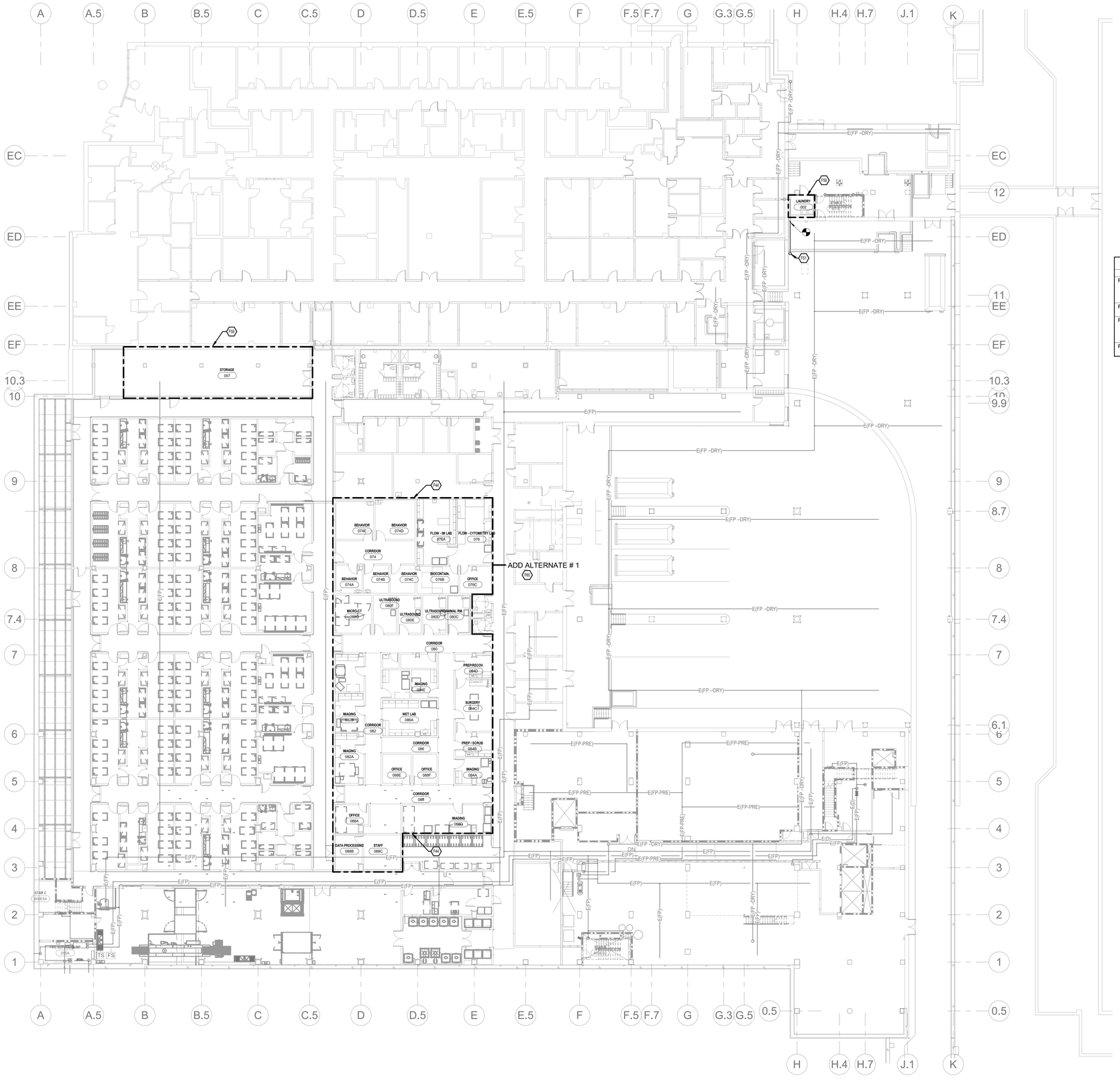
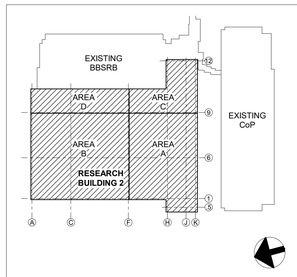


1 FIRE PROTECTION PHASE 4 FITOUT - BASEMENT LEVEL
1/16" = 1'-0"

FIRE PROTECTION TAGGED NOTES	
F44	EXISTING AREA IS CURRENTLY COVERED BY A 100% SPRINKLER SYSTEM. REMOVE EXISTING UP-RIGHT SPRINKLER HEADS, PROVIDE NEW EXTENDED COVERAGE CONCEALED SPRINKLER HEADS IN NEW CEILINGS. COORDINATE LOCATIONS WITH LIGHT FIXTURES AND CEILING MOUNTED MECHANICAL EQUIPMENT. REFER TO ARCITECTURAL REFLECTED CEILING PLANS OF NEW CEILING.
F51	CONNECT TO EXISTING SPRINKLER DRAIN PIPE AND EXTEND PIPE TO THE EDGE OF THE DOCK STAGING AND LET PIPE DISCHARGE TO LOADING DOCK FLOOR.
F59	EXISTING AREA IS CURRENTLY COVERED BY A 100% SPRINKLER SYSTEM; ROOM WILL BE EXPOSED PAINTED STRUCTURE. COORDINATE WITH NEW LIGHT FIXTURES, DIFFUSERS AND DUCTWORK; REMOVE EXISTING UP-RIGHT SPRINKLER HEADS AND RELOCATE AS REQUIRED FOR NEW ROOM DESIGN; REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
F60	ALL FIRE PROTECTION WORK IN THE OUTLINED LOWER LEVEL IMAGING SUITE SHALL BE PROVIDED AS PART OF ADD ALTERNATE #1. REFER TO SPECIFICATION SECTION 012300 FOR ALTERNATE DESCRIPTION.



KEY PLAN
NTS

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Drawn By RLB

Checked By CMR

Client Number

Project Number UKR15

STATE OF KENTUCKY
CHRISTOPHER M. REEVES
25045
LICENSED PROFESSIONAL ENGINEER

DRAWING

BASEMENT PHASE 4 FIT-OUT - FIRE PROTECTION

SHEET NO.

FP-260

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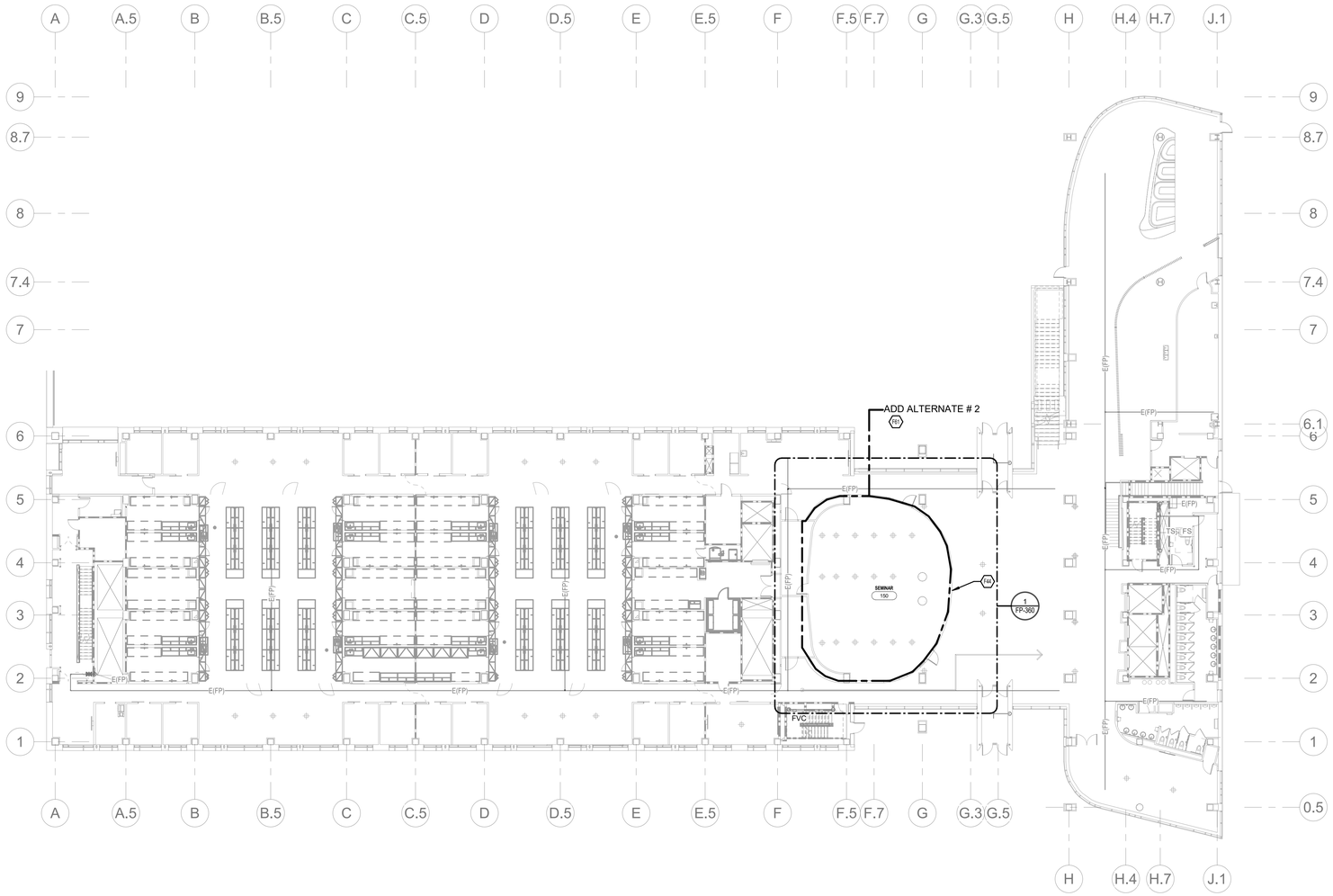
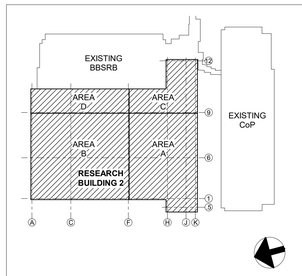
FIRE PROTECTION TAGGED NOTES

F4	STAND PIPE UP AND DOWN.
F44	EXISTING AREA IS CURRENTLY COVERED BY A 100% SPRINKLER SYSTEM. REMOVE EXISTING UP-RIGHT SPRINKLER HEADS, PROVIDE NEW EXTENDED COVERAGE CONCEALED SPRINKLER HEADS IN NEW CEILINGS. COORDINATE LOCATIONS WITH LIGHT FIXTURES AND CEILING MOUNTED MECHANICAL EQUIPMENT. REFER TO ARCITECTURAL REFLECTED CEILING PLANS OF NEW CEILING.
F61	ALL FIRE PROTECTION WORK IN THE OUTLINED LEVEL 1 SEMINAR SPACE AND LEVEL 2 CONFERENCE ROOMS SHALL BE PROVIDED AS PART OF ADD ALTERNATE #2. REFER TO SPECIFICATION SECTION 012300 FOR ALTERNATE DESCRIPTION.



1 FIRE PROTECTION PHASE 4 FITOUT - LEVEL 01
1/16" = 1'-0"



KEY PLAN
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Drawn By RLB

Checked By CMR

Client Number

STATE OF KENTUCKY
CHRISTOPHER M. REEVES
25045
LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

DRAWING
LEVEL 1 PHASE 4 FIT-OUT - FIRE PROTECTION

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FP-261

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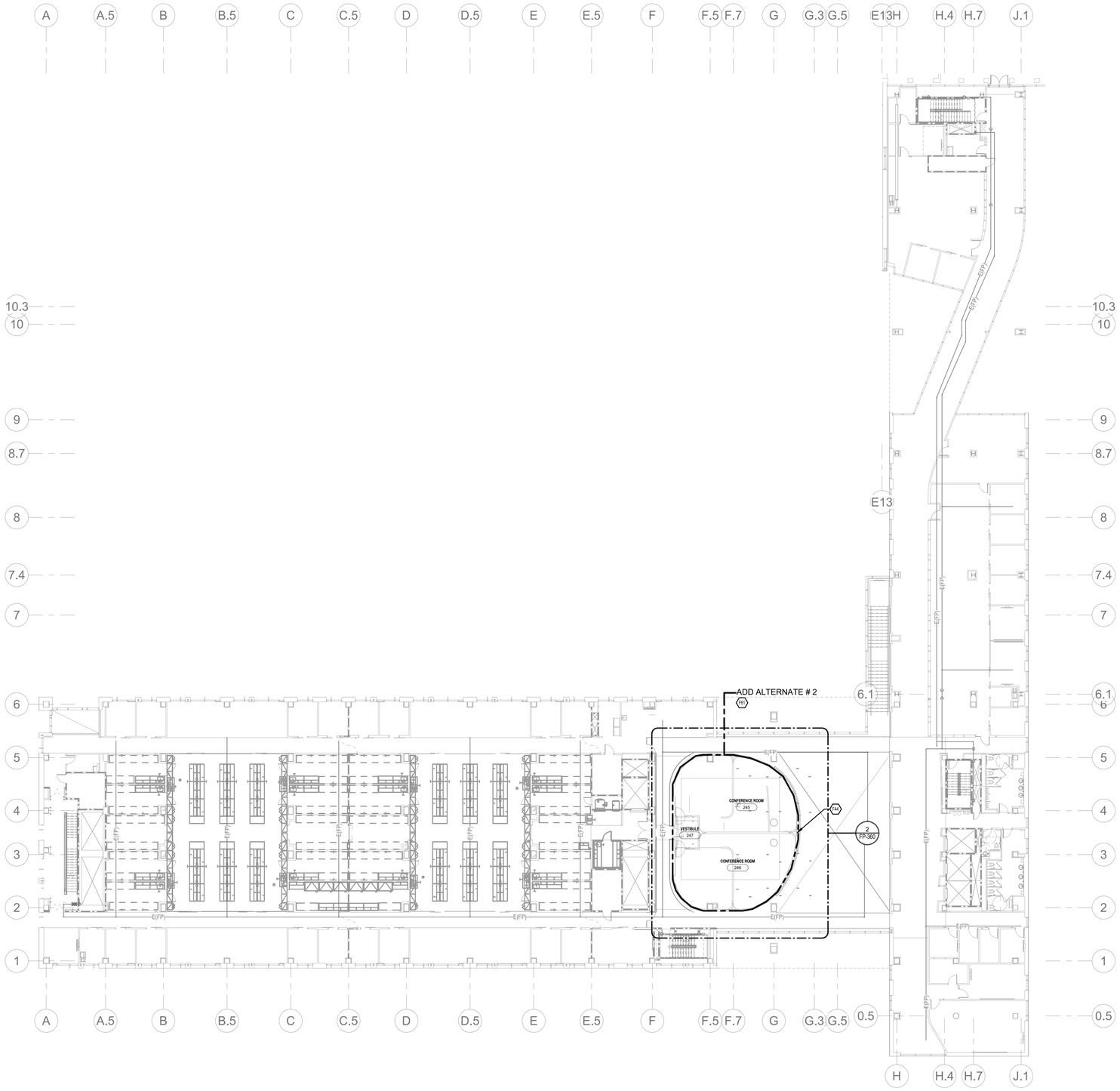
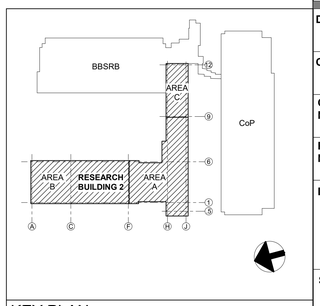


1 FIRE PROTECTION PHASE 4 FITOUT - LEVEL 02
1/16" = 1'-0"

FIRE PROTECTION TAGGED NOTES

F44	EXISTING AREA IS CURRENTLY COVERED BY A 100% SPRINKLER SYSTEM. REMOVE EXISTING UP-RIGHT SPRINKLER HEADS, PROVIDE NEW EXTENDED COVERAGE CONCEALED SPRINKLER HEADS IN NEW CEILINGS. COORDINATE LOCATIONS WITH LIGHT FIXTURES AND CEILING MOUNTED MECHANICAL EQUIPMENT. REFER TO ARCITECTURAL REFLECTED CEILING PLANS OF NEW CEILING.
F61	ALL FIRE PROTECTION WORK IN THE OUTLINED LEVEL 1 SEMINAR SPACE AND LEVEL 2 CONFERENCE ROOMS SHALL BE PROVIDED AS PART OF ADD ALTERNATE #2. REFER TO SPECIFICATION SECTION 012300 FOR ALTERNATE DESCRIPTION.



KEY PLAN
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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 DD ISSUANCE	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

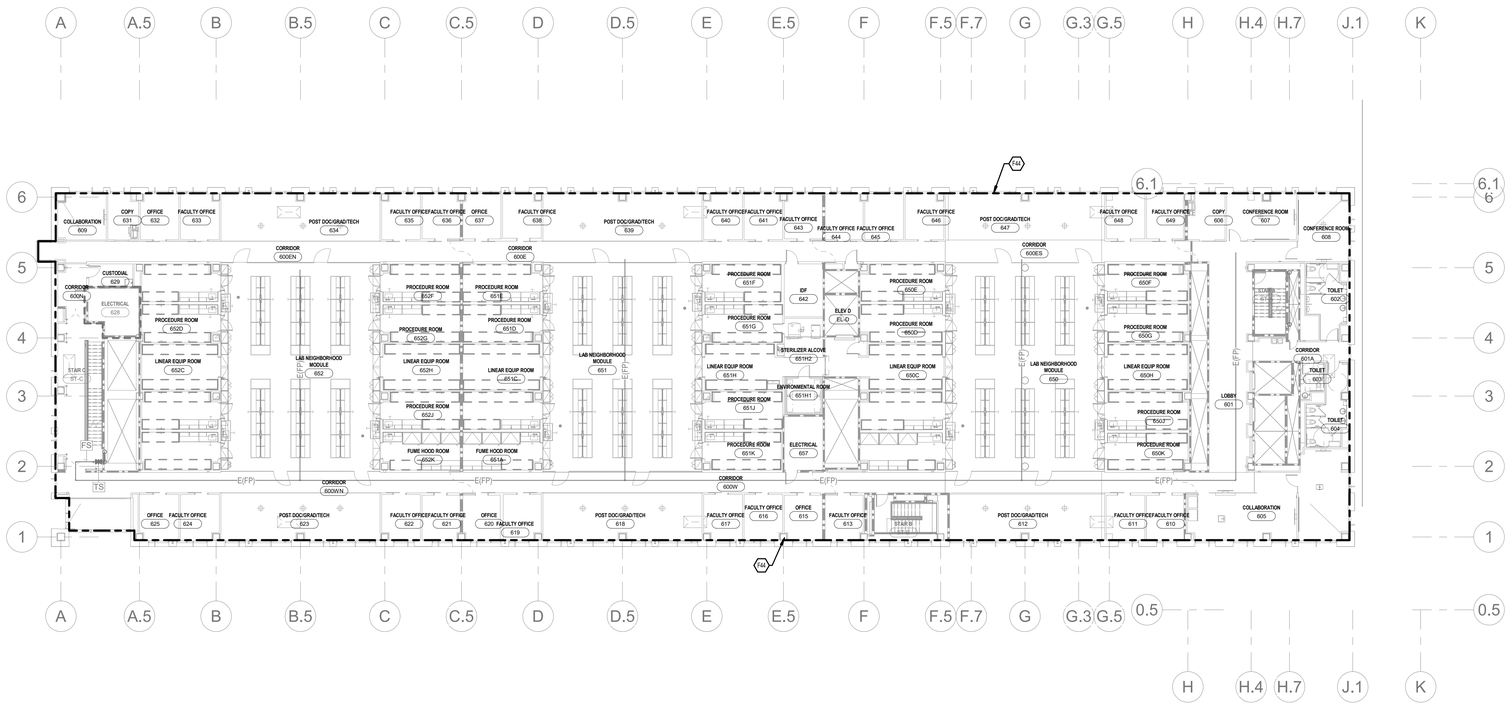
Drawn By RLB
Checked By CMR
Client Number
Project Number UKR15

STATE OF KENTUCKY CHRISTOPHER M. REEVES 25045 LICENSED PROFESSIONAL ENGINEER

DRAWING
LEVEL 2 PHASE 4 FIT-OUT - FIRE PROTECTION

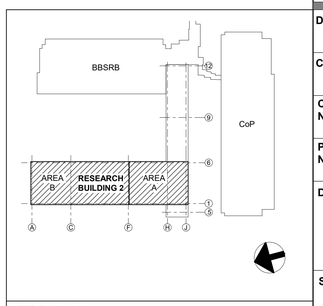
SHEET NO.
FP-262

1/6/2021 7:36:52 PM



1 FIRE PROTECTION PHASE 4 FITOUT - LEVEL 06
1/16" = 1'-0"

FIRE PROTECTION TAGGED NOTES	
F4	STAND PIPE UP AND DOWN.
F44	EXISTING AREA IS CURRENTLY COVERED BY A 100% SPRINKLER SYSTEM. REMOVE EXISTING UP-RIGHT SPRINKLER HEADS. PROVIDE NEW EXTENDED COVERAGE CONCEALED SPRINKLER HEADS IN NEW CEILINGS. COORDINATE LOCATIONS WITH LIGHT FIXTURES AND CEILING MOUNTED MECHANICAL EQUIPMENT. REFER TO ARCITECTURAL REFLECTED CEILING PLANS OF NEW CEILING.



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No.	Description	Date
1	P4 DD ISSUANCE	10/23/20
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Drawn By RLB

Checked By CMR

Client Number

Project Number UKR15

STATE OF KENTUCKY CHRISTOPHER M. REEVES 25045 LICENSED PROFESSIONAL ENGINEER

DRAWING

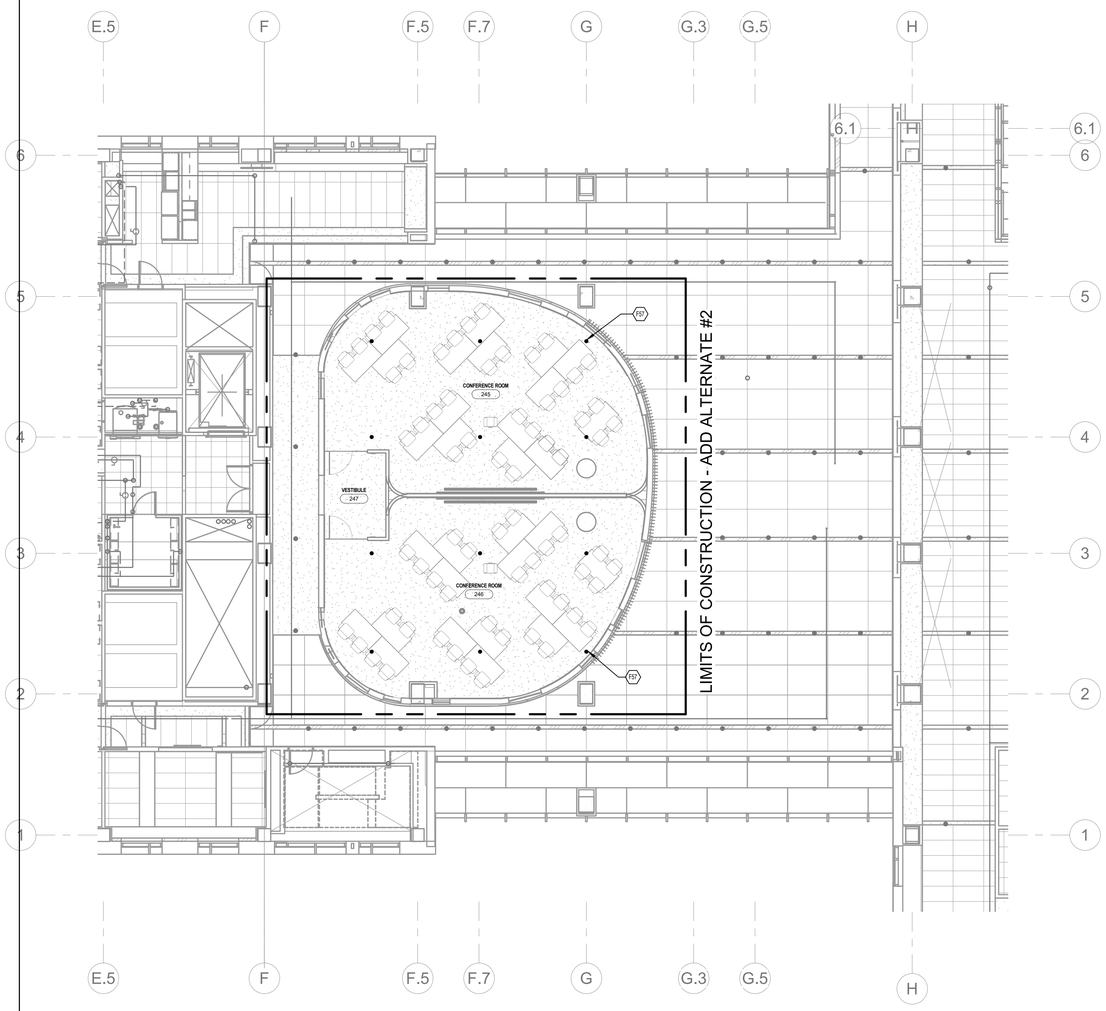
LEVEL 6 PHASE 4 FIT-OUT - FIRE PROTECTION

SHEET NO.

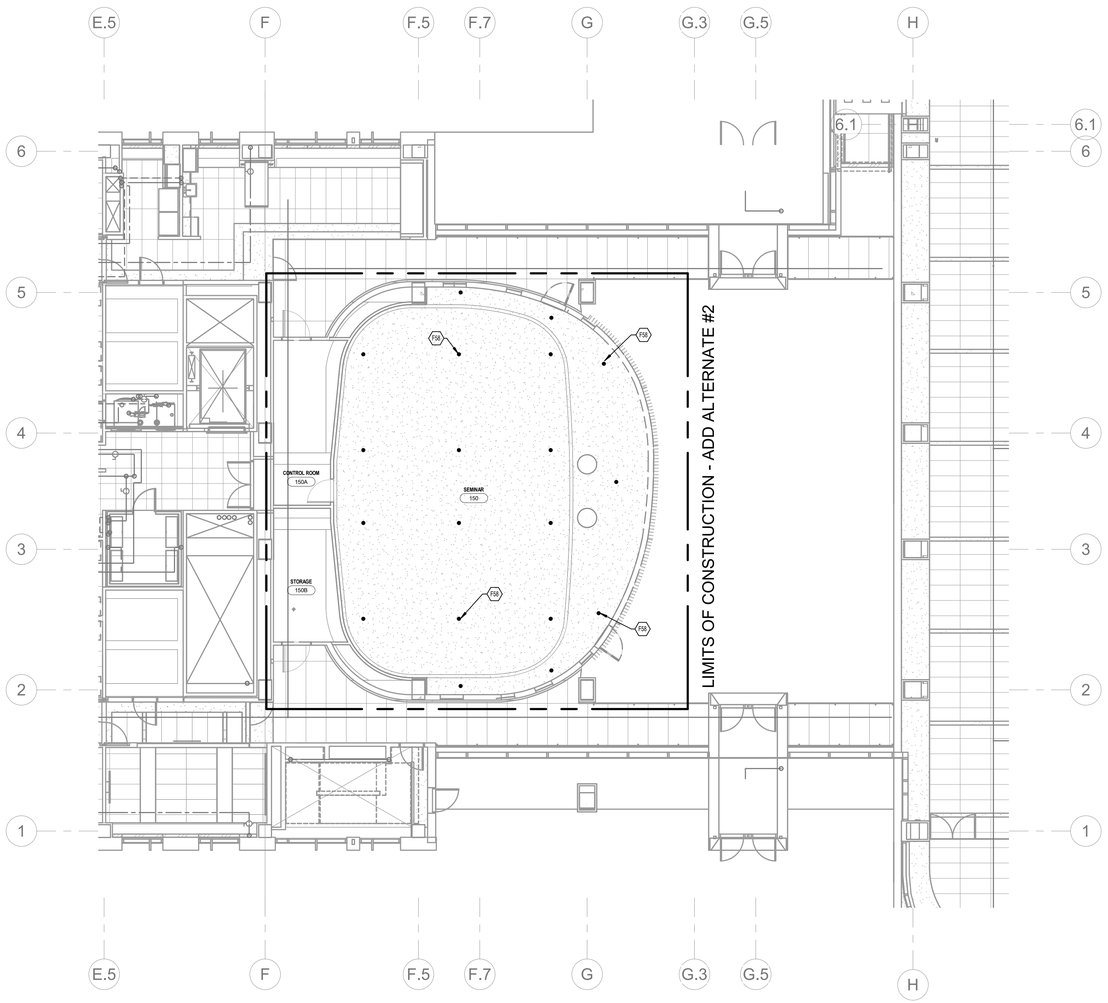
FP-266

1/8/2021 7:36:57 PM

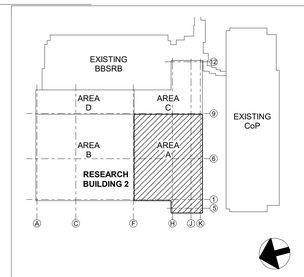
FIRE PROTECTION TAGGED NOTES	
F57	TYPICAL SPRINKLER HEAD. LOCATE AND SPACE AS SHOWN IN CONFERENCE ROOM. COORDINATE LOCATION WITH LIGHTING FIXTURES, HVAC DIFFUSERS AND REFLECTED CEILING PLAN.
F58	TYPICAL SPRINKLER HEAD, LOCATE AND SPACE AS SHOWN IN SEMINAR ROOM. COORDINATE LOCATION WITH LIGHTING FIXTURES, HVAC DIFFUSERS AND REFLECTED CEILING PLAN.



2 LEVEL 02 - FIRE PROTECTION CEILING PLAN
1/8" = 1'-0"



1 LEVEL 01 - FIRE PROTECTION CEILING PLAN
1/8" = 1'-0"



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UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - CD REVIEW	12/04/20

Drawn By RLB

Checked By CMR

Client Number

Project Number UKR15

STATE OF KENTUCKY
CHRISTOPHER M. REEVES
25045
LICENSED PROFESSIONAL ENGINEER

DRAWING

ENLARGED FIRE PROTECTION CEILING PLANS

SHEET NO.

FP-360

1/6/2021 7:37:04 PM

PLUMBING FIXTURE SCHEDULE - PHASE 4

MARK	DESCRIPTION	CW	HW	WASTE	VENT
FD-1	FLOOR DRAIN . : ZURN, ZN-415-U OR EQUAL FLOOR DRAIN WITH 6" DIAMETER TOP, TYPE "B" NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION. FLOOR DRAINS WITH NO TRAP PRIMER SUPPLY SHALL BE PROVIDED WITH ZURN ZSHEILD OR EQUAL FLOOR DRAIN TRAP SEAL.	-	-	-	-
HB	HOSE BIBB : ZURN MODEL Z1350 OR EQUAL ENCASED MODERATE CLIMATE WALL HYDRANT FOR NARROW WALL INSTALLATION. WITH ALL BRONZE BODY, ALL BRONZE INTERIOR PARTS, REPLACEABLE SEAT WASHER, LOOSE KEY OPERATED CONTROL VALVE, VACUUM BREAKER AND 3/4" MALE HOSE CONNECTION. ADJUSTABLE STAINLESS STEEL BOX FURNISHED WITH HINGED COVER CYLINDER LOCK AND "WATER" STAMPED ON THE COVER. MOUNTED WITH HOSE CONNECTION AT 18" ABOVE FINISHED FLOOR ELEVATION OF AREA SERVED.	1/2"	-	-	-
P-1	WATER CLOSET . WALL HUNG - SENSOR FLUSH VALVE : VITREOUS CHINA, WALL HUNG ELONGATED BOWL, SIPHON JET, 1-1/2" BACK SPUD INLET, CHINA BOLT CAPS AND WHITE OPEN FRONT PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. PROVIDE WITH ZURN MODEL ZR600AV-WS1-DF BATTERY POWERED AUTOMATIC DUAL FLUSH SENSOR VALVE FOR 1.1/1.6 GPF WATER CLOSETS WITH OVERRIDE BUTTON. PROVIDE WALL CARRIER. MOUNT WITH RIM OF BOWL AT 15" AFF.	1-1/2"	-	4"	2"
P-1A	WATER CLOSET - WALL HUNG - ADA COMPLIANT, DUAL FLUSH SENSOR FLUSH VALVE: VITREOUS CHINA, WALL MOUNTED, ELONGATED BOWL, SIPHON JET, 1-1/2" BACK SPUD INLET, CHINA BOLT CAPS AND WHITE OPEN FRONT PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. PROVIDE WITH ZURN MODEL ZR600AV-WS1-DF BATTERY POWERED DUAL FLUSH SENSOR VALVE FOR 1.1/1.6 GPF WATER CLOSETS WITH OVERRIDE BUTTON. PROVIDE WALL CARRIER. MOUNT WITH RIM OF BOWL AT 18" AFF.	1-1/2"	-	4"	2"
P-2	URINAL : VITREOUS CHINA URINAL WITH 3/4" TOP SPUD INLET, 2" I.P.S. OUTLET WITH TRAP STRAINER. PROVIDE WITH ZURN MODEL ZER6003AV-ULF-CPM 0.125 GPF BATTERY POWERED SENSOR FLUSH VALVE WITH PUSH BUTTON OVERRIDE. MOUNT WITH LIP OF URINAL AT 24" ABOVE FINISHED FLOOR. PROVIDE FLOOR MOUNTED WALL CARRIER.	3/4"	-	2"	2"
P-2A	URINAL - ADA COMPLIANT : VITREOUS CHINA URINAL WITH 3/4" TOP SPUD INLET, 2" I.P.S. OUTLET WITH TRAP STRAINER. PROVIDE WITH ZURN MODEL ZER6003AV-ULF-CPM 0.125 GPF BATTERY POWERED SENSOR FLUSH VALVE WITH PUSH BUTTON OVERRIDE. MOUNT WITH LIP OF URINAL AT 16" ABOVE FINISHED FLOOR. CONTROLS SHALL BE A MAXIMUM OF 39" ABOVE FINISHED FLOOR. PROVIDE FLOOR MOUNTED WALL CARRIER.	3/4"	-	2"	2"
P-3	LAVATORY - WALL HUNG W/SENSOR FAUCET: VITREOUS CHINA, 20" X 18", WALL HUNG LAVATORY WITH 4" FAUCET CENTER CENTERS, CONCEALED ARMS AND A 4" HIGH BACKSLASH. PROVIDE WITH ZURN MODEL Z6950-XL-IM-S BATTERY POWERED SENSOR OPERATED FAUCET WITH ABOVE DECK MIXER AND A .5 GPM AERATOR. PROVIDE WITH GRID DRAIN, 3/8" ANGLE SUPPLIES WITH STOPS, KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS. MOUNT WITH LAVATORY AT A HEIGHT LEAVING A CLEARANCE OF 29-1/2" FROM THE FLOOR TO THE BOTTOM OF THE APRON AND THE RIM AT 33-7/8" AFF. PROVIDE INDEPENDENT CHECK VALVES IN HOT AND COLD WATER SUPPLIES.	1/2"	1/2"	2"	2"
P-3A	LAVATORY - UNDERCOUNTER W/SENSOR FAUCET - ADA COMPLIANT : STAINLESS STEEL, 15"X12" OVAL UNDER COUNTER MOUNT LAVATORY WITH FRONT OVERFLOW. PROVIDE WITH CHROME PLATED GRID DRAIN, 3/8" ANGLE SUPPLIES WITH STOPS, KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS. INSTALL ON THE SUPPLY LINES AND P-TRAP AN INSULATION KIT WITH A VINYL PLASTIC COVERING. PROVIDE WITH ZURN MODEL Z6950-XL-IM-S BATTERY POWERED SENSOR OPERATED FAUCET WITH ABOVE DECK MIXER AND A .5 GPM AERATOR. PROVIDE WITH INDEPENDENT CHECK VALVES IN HOT AND COLD WATER SUPPLIES.	1/2"	1/2"	2"	2"
P-3B	STAINLESS STEEL LAVATORY - JUST MFG. MODEL A-544-912-T STAINLESS STEEL WALL HUNG LAVATORY WITH 6" HIGH BACKSLASH. PROVIDE WITH PROVIDE WITH BACKSPLASH MOUNTED GOOSENECK FAUCET WITH VACUUM BREAKER, SERRATED TIP AND CROSS HANDLES. PROVIDE WITH GRID DRAIN, 3/8" ANGLE SUPPLIES WITH STOPS, KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS. MOUNT WITH LAVATORY AT A HEIGHT LEAVING A CLEARANCE OF 29-1/2" FROM THE FLOOR TO THE BOTTOM OF THE APRON AND THE RIM AT 33-7/8" AFF.	1/2"	1/2"	2"	2"
P-4	SINGLE COMPARTMENT LAB SINK: SINGLE COMPARTMENT LAB SINK AND FAUCET BY CASEWORK SUPPLIER AND INSTALLED BY PLUMBING CONTRACTOR. PROVIDE 3/8" SUPPLIES WITH ANGLE STOPS, ACID WASTE P-TRAP, TAILPIECE AND ESCUTCHEONS.	1/2"	1/2"	2"	2"
P-4A	SINGLE COMPARTMENT LAB SINK: SINGLE COMPARTMENT LAB SINK AND FAUCET BY CASEWORK SUPPLIER AND INSTALLED BY PLUMBING CONTRACTOR. PROVIDE 3/8" SUPPLIES WITH ANGLE STOPS, ACID WASTE DRAIN AND TAILPIECE AND ESCUTCHEONS. PROVIDE WITH ACID WASTE BOTTLE TRAP; TRAP SHALL BE EQUAL TO IPEX W511 UNIVERSAL TRAP WITH TRANSPARENT BASE.	1/2"	1/2"	2"	2"
P-6A	SINGLE COMPARTMENT SINK : SINGLE COMPARTMENT STAINLESS STEEL SINK, UNDERMOUNTED, 19"X21" O.D., 14"X18" I.D., 61/2" DEEP, 18 GAUGE, WITH 8" CENTERS. PROVIDE WITH 5" REACH SWING SPOUT GOOSENECK FAUCET WITH 4" WRIST BLADE CONTROL HANDLES, REAR CENTERED CRUMB CUP STRAINER DRAIN, 3/8" ANGLE SUPPLIES WITH STOPS, KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS.	1/2	1/2"	2"	2"
P-7	STAINLESS STEEL LAVATORY - JUST MFG. MODEL A-18665 STAINLESS STEEL WALL HUNG SERVICE SINK, 23"x18.5"x12" DEEP WITH ROLL RIM FRONT AND SIDE AND 12" HIGH BACKSPLASH . PROVIDE WITH PROVIDE WITH BACKSPLASH MOUNTED SERVICE FAUCET WITH VACUUM BREAKER, LEVER HANDLES AND THREADED OUTLET. PROVIDE WITH GRID DRAIN, 3/8" ANGLE SUPPLIES WITH STOPS, KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS. MOUNT WITH LAVATORY AT A HEIGHT LEAVING A CLEARANCE OF 29-1/2" FROM THE FLOOR TO THE BOTTOM OF THE APRON AND THE RIM AT 33-7/8" AFF.	1/2"	1/2"	2"	2"
P-9	MOP BASIN : 24"X36"X10" HIGH MOLDED STONE MOP SERVICE BASIN, IN WHITE DRIFT COLOR, 3" DRAIN, SERVICE FAUCET WITH THREADED HOSE CONNECTION SPOUT; PROVIDE WITH STAINLESS STEEL WALL GUARD, HOSE AND HOSE BRACKET AND VINYL BUMPERGUARD. THE DRAIN SHALL BE LOCATED 12" TO THE CENTER. PROVIDE INDEPENDENT CHECK VALVES IN THE HOT AND COLD WATER SUPPLIES.	3/4"	3/4"	3"	2"
P-10	VACUUM OUTLET: SUPPLIED BY LAB EQUIPMENT SUPPLIER, INSTALLATION AND CONNECTION TO VACUUM PIPING SYSTEM REQUIRED.			-	
P-11	REVERSE OSMOSIS FAUCET: SUPPLIED BY LAB EQUIPMENT SUPPLIER, INSTALLATION AND CONNECTION TO REVERSE OSMOSIS PIPING SYSTEM REQUIRED.	1"	1"	-	-
P-12	EMERGENCY SHOWER: SUPPLIED BY LAB EQUIPMENT SUPPLIER, INSTALLATION AND CONNECTION TO TEMPERED WATER PIPING SYSTEM REQUIRED.	1"	1"	-	-
P-13A	ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION - BI LEVEL ADA ACCESSIBLE - WALL HUNG DUAL UNIT : ELKAY LZSTLG8WS OR EQUAL BI-LEVEL BARRIER FREE WATER COOLER WITH SENSOR ACTIVATED BOTTLE FILLING STATION, WALL HUNG WITH STAINLESS STEEL BASIN AND STAINLESS STEEL CABINET PANEL WITH SINGLE COMPRESSOR, WATER SUPPLY, DRAIN AND ELECTRICAL CONNECTION. 7.5 GPH OF 50°F WATER AT 90°F AMBIENT AND 80° F INLET WATER, 18.8 GAUGE STAINLESS STEEL CONSTRUCTION, 1/5 HP COMPRESSOR, 120V/1PH, CHILLER BELOW WALL HUNG BASIN AND PUSH BAR OPERATORS. MOUNT SO THE BOTTOM OF THE LOWER COOLER IS AT 9" MINIMUM AFF WITH A CLEARANCE OF 27" MINIMUM FROM THE BOTTOM OF THE APRON OF THE BOWL TO THE FINISHED FLOOR. THE DIMENSION TO THE CENTERLINE OF THE LOWER COOLER BUBBLER SHALL BE A MAXIMUM OF 35" AFF.	1/2"	-	2"	2"
P-14	SERVICE SINK; FIAT'S P-1 OR EQUAL SINGLE COMPARTMENT WHITE POLYPROPYLENE SERVICE SINK, FLOOR MOUNTED, 25"X22"X12" DEEP WITH FAUCET LEDGE, WHITE ENAMEL LEGS, LEVELING FEET AND DECK TYPE SWING SPOUT FAUCET WITH 4" WRIST BLADE HANDLES. PROVIDE WITH CHROME SUPPLIES, STOPS, TAILPIECE, KENTUCKY CODE P-TRAP, CRUMB CUP STRAINER DRAIN AND ESCUTCHEONS.	1/2	1/2"	2"	2"
P-15	WATER SUPPLY WALL BOX: IPS FR12M SERIES METAL ICE MAKER BOX, 5-1/4"X5-1/4" RECESSED FIRE RATED METAL VALVE BOX, WITH A SINGLE LEAD FREE QUARTER TURN VALVE WITH 1/2" SWEAT CONNECTION INLET AND 1/4" COMPRESSION OUTLET.	1/2	-	-	-
P-16	WASHER BOX: RECESSED 20 GAUGE METAL WASHER BOXY WITH 1/2" HW AND CW QUARTER TURN VALVES AND 2" DRAIN. PROVIDE WITH WATER HAMMER ARRESTORS IN SUPPLIE LINES.	1/2"	1/2"	2"	2"
P-19	WASHDOWN STATION; T&S BRASS MODEL MV-0771-12CW CHROME PLATED WASHDOWN STATION 3/4" MIXING VALVE WITH COLOR CODED GLOBE VALVES, CHECK VALVES, THERMOMETER AND T&S MODEL 004989 25' HOSE WITH REAR TRIGGER STAINLESS STEEL WATER GUN AND HOSE RACK.	3/4"	3/4"	-	-
P-23	LAB AIR OUTLET: SUPPLIED BY LAB EQUIPMENT SUPPLIER, INSTALLATION AND CONNECTION TO AIR PIPING SYSTEM REQUIRED.			-	
TP-1	TRAP PRIMER TYPE-1 : PRECISIONS PLUMBING PRODUCTS PRIME-TIME OR EQUAL ELECTRONIC TRAP PRIMING MANIFOLD, WITH ATMOSPHERIC VACUUM BREAKER, PRE-SET 24 HOUR CLOCK, MANUAL OVERRIDE SWITCH, 120 VOLT SOLENOID VALVE WITH 120V/3WIRE CONNECTION. PROVIDE IN 12" X 12"X4" SURFACE MOUNTED METAL CABINET. PROVIDE WITH DISTRIBUTION UNIT. INSTALL UNIT AS REQUIRED BY MANUFACTURER.	3/4"	-	-	-

GENERAL NOTES

- COORDINATE THE LOCATION OF DRAINS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
- ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
- COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
- PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- IN ACCORDANCE WITH K.R.S. ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KENTUCKY DIVISION OF PLUMBING AND, OR THE DIVISION OF WATER. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.
- OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
- THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.).
- CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
- IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB. CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.
- WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
- ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
- ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
- LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- INSTALL ALL PIPING AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
- SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.
- THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.
- WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
- DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC, FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- VALVES OR ANY PLUMBING ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
- ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMITITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOES, VAULTS, AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.
- ALL PLUMBING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE KENTUCKY PLUMBING CODE 2017 EDITION.

SYMBOLS AND ABBREVIATIONS

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS NECESSARILY USED ON THIS PROJECT.

V	VACUUM BREAKER
	PIPE ELBOW TURNING UP/TURNING DOWN
	CONNECT TO EXISTING (VERIFY EXACT LOCATION)
	BALANCING VALVE
	UNION
	PETE'S PLUG
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY
	STRAINER
	O S & Y VALVE (GATE)
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
	BALL VALVE
S OR D	SAFETY RELIEF VALVE
	THERMOMETER
PS	PRESSURE SWITCH
TS	TAMPER SWITCH
FS	FLOW SWITCH
SAN	SANITARY WASTE PIPING
GW	SANITARY WASTE PIPING TO GREASE TRAP
FM	FORCED MAIN
VT	VENT PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC SOFT HOT WATER SUPPLY
	DOMESTIC RECIRCULATING HOT WATER
RL	ROOF LEADER PIPING
ORL	OVERFLOW ROOF LEADER PIPING
SS	STORM SEWER PIPING
FP	FIRE PROTECTION PIPING
FPD	FIRE PROTECTION DRY PIPING
AWS	ANIMAL WATER SUPPLY PIPING
FW	FILTER DOMESTIC COLD WATER
ROS	REVERSE OSMOSIS WATER SUPPLY PIPING
ROR	REVERSE OSMOSES WATER RETURN PIPING
SCW	SOFT COLD WATER PIPING
HE	HELIUM GAS PIPING
HY	HYDROGEN GAS PIPING
N	NITROGEN GAS PIPING
CA	COMPRESSED AIR PIPING
VAC	VACUUM PIPING
VACEX	VACUUM EXHAUST PIPING
OX	OXYGEN PIPING
CO2	CARBON DIOXIDE PIPING
LW	LAB WASTE PIPING
LVT	LAB WASTE VENT PIPING
TPW	TEPID WATER PIPING
G	GAS PIPING
E(NAME)	EXISTING PIPING OR DUCTWORK (THIN LINE)
XXX-XX	MECHANICAL EQUIPMENT DESIGNATOR
	PIPING TEE (TURNED UP/DOWN)
CO	CLEANOUT IN CEILING SPACE
CO	FLOOR CLEANOUT
ECO	EXTERIOR CLEANOUT
FD-#	FLOOR DRAIN DESIGNATOR
RD-#	ROOF DRAIN DESIGNATOR
P-#	PLUMBING FIXTURE DESIGNATOR
T S	TEMPERATURE SENSOR

A	COMPRESSED AIR
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AWS	ANIMAL WATER SUPPLY
C.I.	CAST IRON
CO2	CARBON DIOXIDE
CO2 VT	CARBON DIOXIDE MANIFOLD RELIEF VENT PIPE
DCW	DOMESTIC COLD WATER
DCW-M	METERED DOMESTIC COLD WATER FOR IRRIGATION SUPPLY
DHW	DOMESTIC HOT WATER
DN	DOWN
FHV	FIRE HOSE VALVE WITH CABINET
FPWH	FREEZE PROOF WALL HYDRANT
FM	FORCE MAIN
FW	FILTERED DOMESTIC COLD WATER
HB	HOSE BIBB
IAW	IN ACCORDANCE WITH
ID	INSIDE DIMENSION
IE	INVERT ELEVATION
MH	MANHOLE
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
O, OX	OXYGEN
OX	OXYGEN MANIFOLD RELIEF VENT PIPE
OD	OUTSIDE DIMENSION
OR	OPEN RECEPTACLE
ORL	OVERFLOW ROOF LEADER
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, OR GAS)
PSI	POUNDS PER SQUARE INCH
DHWR	DOMESTIC RECIRCULATING HOT WATER
RL	ROOF LEADER
SCW	SOFT DOMESTIC COLD WATER
SVB	SHUT-OFF ZONE VALVE BOX
SR	SANITARY RISER
TB	THRUST BLOCK
TE	TOP ELEVATION
TP	TRAP PRIMER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V, VAC	VACUUM
VTR	VENT THRU ROOF
WH	WATER HEATER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED

NOTE:

ALL PLUMBING PIPING INSTALLED IN THIS PACKAGE SHALL BE SUPPORTED FROM THE STRUCTURAL SLAB AS DETAILED ON DRAWINGS AND AS CALLED OUT IN THE PLUMBING SPECIFICATIONS.

NOTE:

WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

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UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 DD ISSUANCE	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: RLB
Checked By: CMR
Client Number:
Project Number: UKR15

STATE OF KENTUCKY CHRISTOPHER M. REEVES 25045 LICENSED PROFESSIONAL ENGINEER

DRAWING

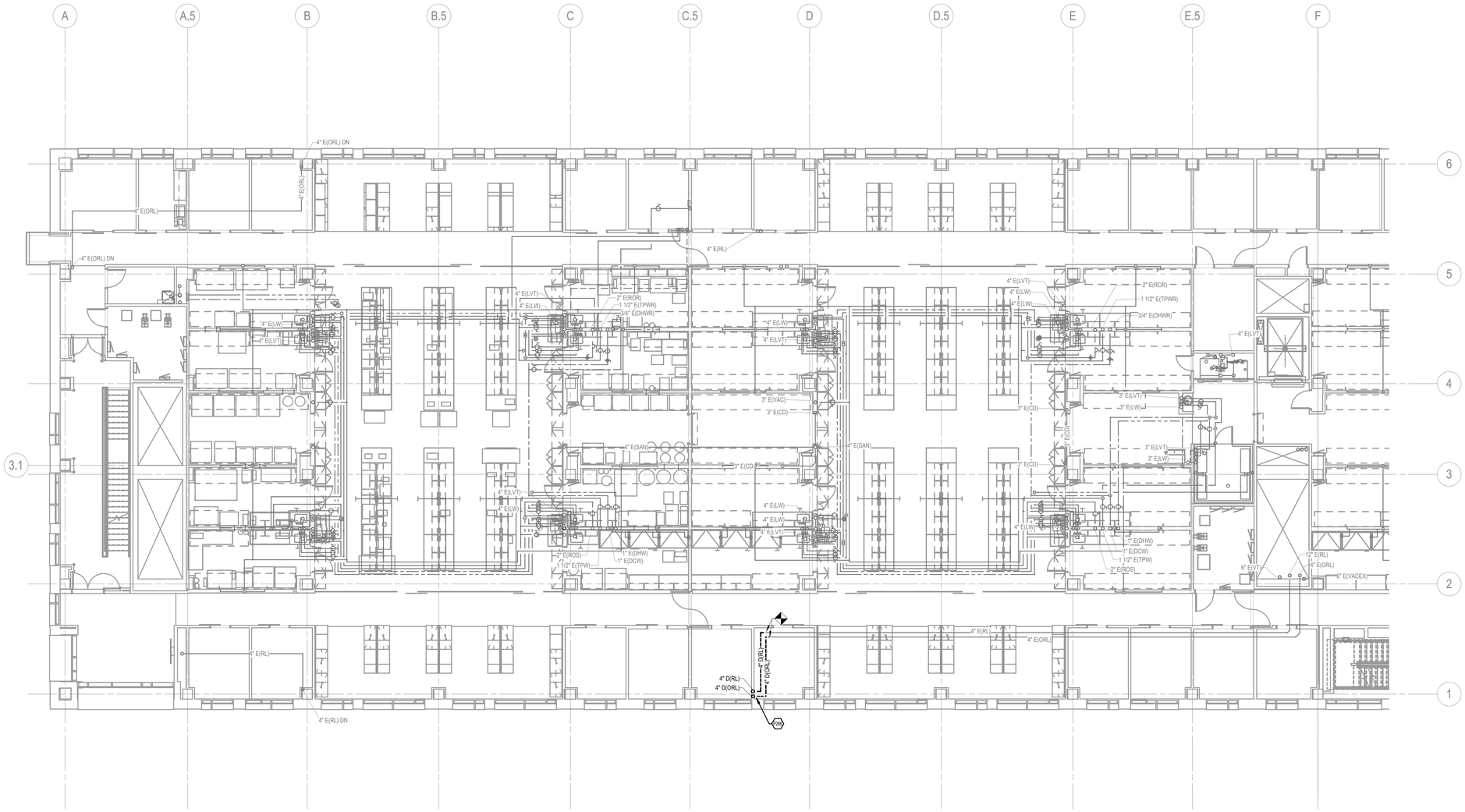
PLUMBING LEGEND

SHEET NO.

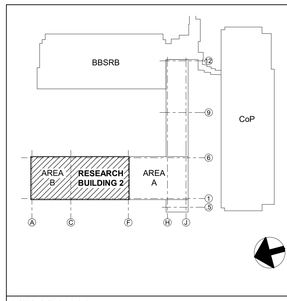
P-061

1/11/2021 4:41:57 PM

PLUMBING TAGGED NOTES	
P266	REMOVE THE EXISTING ROOF LEADER PIPE(S) AND REROUTE AS SHOWN ON THE NEW WORK PLUMBING PLANS. PATCH AND REPAIR THEHOLE LEFT IN THE FLOOR SLAB TO MATCH THE EXISTING.



1 PLUMBING DEMOLITION - LEVEL 05 PHASE 4 FITOUT - AREA B
1/8" = 1'-0"



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Drawn By RLB

Checked By CMR

Client Number

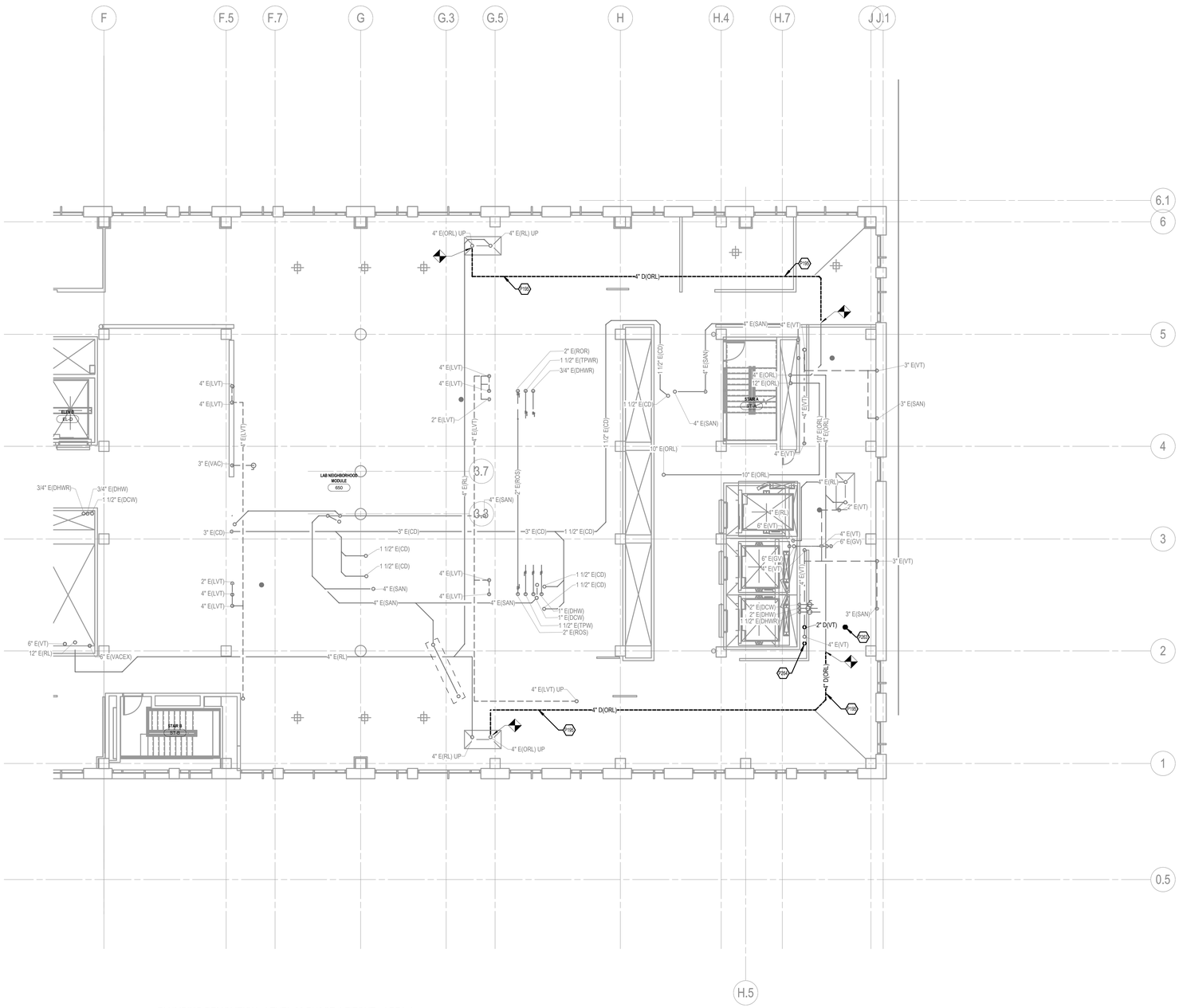
STATE OF KENTUCKY CHRISTOPHER M. REEVES 25045 LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

DRAWING
LEVEL 05 PHASE 4 FITOUT AREA 'B' - PLUMBING DEMOLITION PLAN

SHEET NO.
P-165B

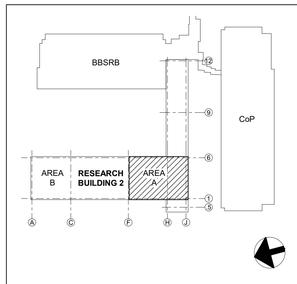
1/11/2021 4:42:19 PM



1 PLUMBING DEMOLITION - LEVEL 06 PHASE 4 FITOUT - AREA A
1/8" = 1'-0"

PLUMBING TAGGED NOTES

P195	REMOVE THE EXISTING ROOF LEADER PIPING AND REROUTE WITH NEW PIPING AS SHOWN.
P263	REMOVE THE EXISTING FLOOR DRAINS AND WASTE AND VENT PIPE. PATCH AND REPAIR HOLES LEFT IN THE FLOOR SLAB TO MATCH THE EXISTING FLOOR SLAB.
P264	REMOVE THE EXISTING PIPE SLEEVE AND PATCH AND REPAIR HOLE LEFT IN THE FLOOR SLAB TO MATCH THE EXISTING FLOOR SLAB.



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UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - BID & PERMIT	01/08/21

Drawn By RLB

Checked By CMR

Client Number

STATE OF KENTUCKY CHRISTOPHER M. REEVES 25045 LICENSED PROFESSIONAL ENGINEER

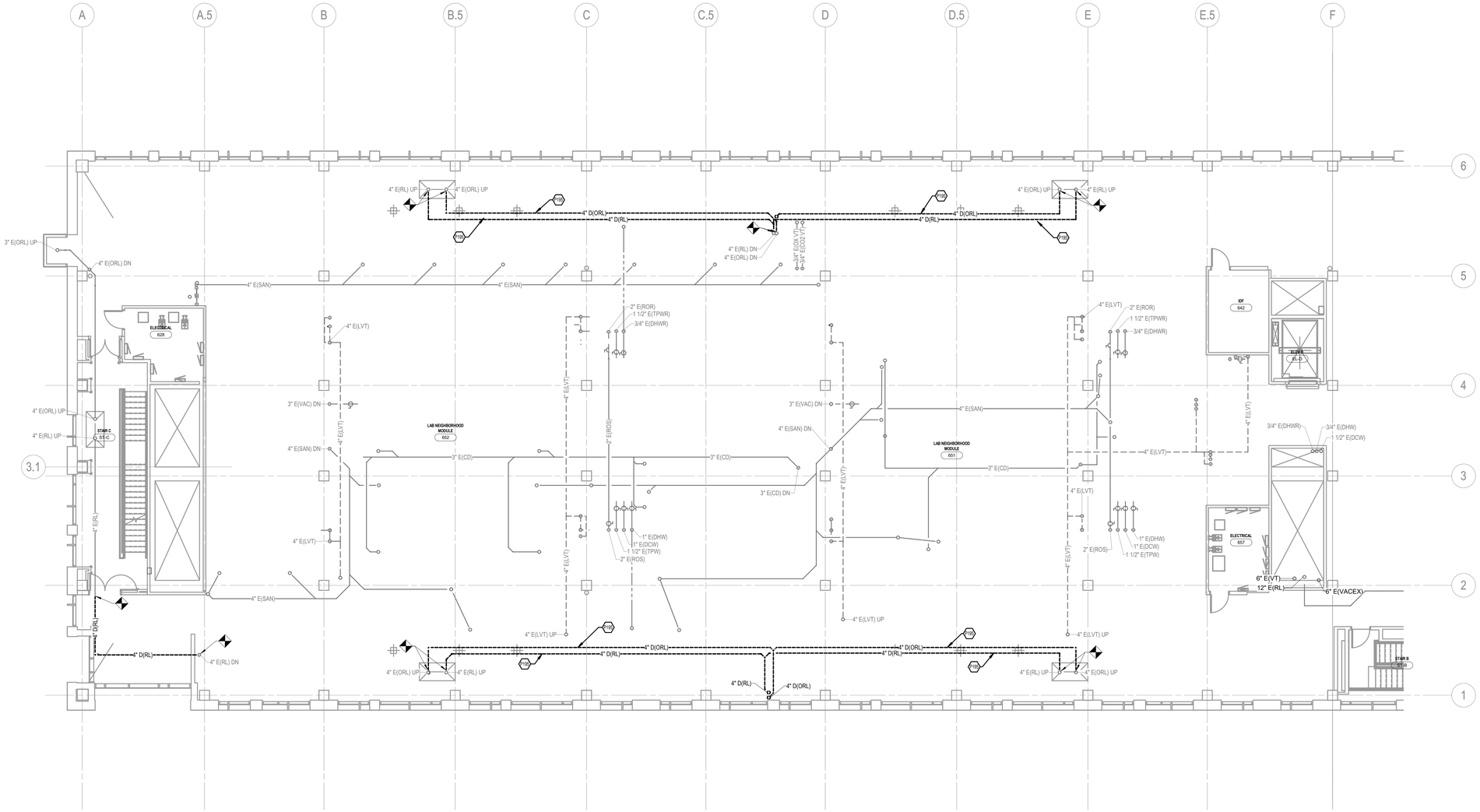
Project Number UKR15

DRAWING
LEVEL 06 PHASE 4 FITOUT AREA 'A' - PLUMBING DEMOLITION PLAN

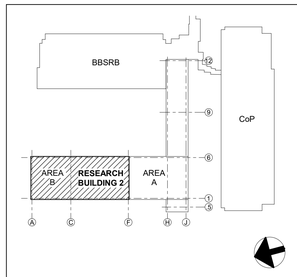
SHEET NO.
P-166A

1/11/2021 4:42:20 PM

PLUMBING TAGGED NOTES	
P195	REMOVE THE EXISTING ROOF LEADER PIPING AND REROUTE WITH NEW PIPING AS SHOWN.



1 PLUMBING DEMOLITION - LEVEL 06 PHASE 4 FITOUT - AREA B
1/8" = 1'-0"



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UK Project Number 2552.0

ISSUANCES

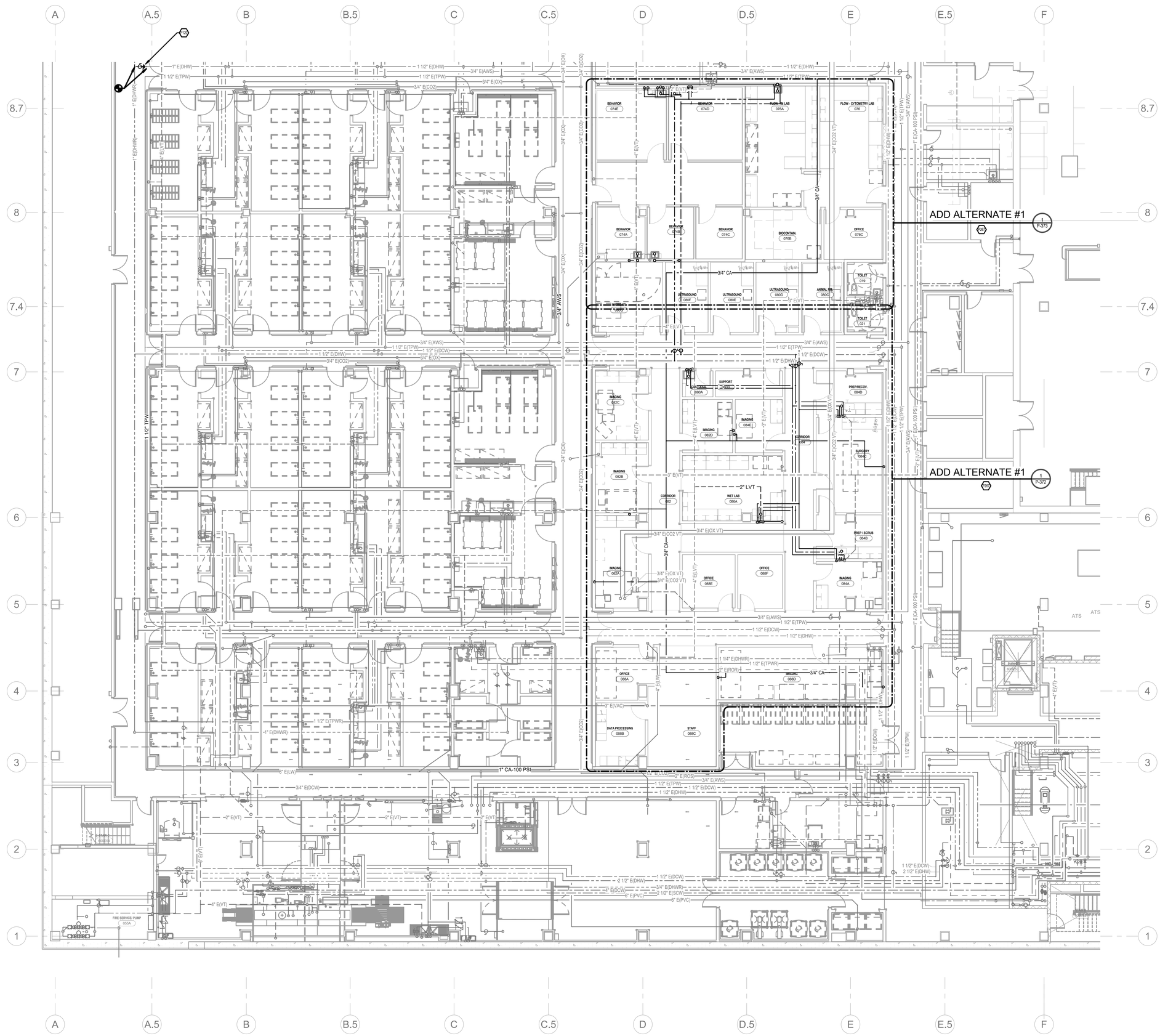
No.	Description	Date
1	P4 - BID & PERMIT	01/08/21

Drawn By RLB	STATE OF KENTUCKY CHRISTOPHER M. REEVES 25045 LICENSED PROFESSIONAL ENGINEER
Checked By CMR	
Client Number	
Project Number UKR15	

DRAWING
LEVEL 06 PHASE 4 FITOUT AREA 'B' - PLUMBING DEMOLITION PLAN

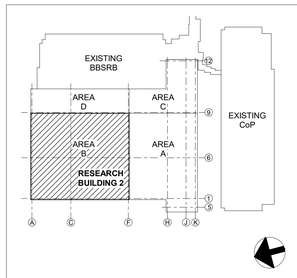
SHEET NO.
P-166B

1/11/2021 4:42:37 PM



1 BASEMENT PHASE 4 FITOUT AREA B - PLUMBING PLAN
1/8" = 1'-0"

PLUMBING TAGGED NOTES	
P120	PROVIDE BALANCING VALVE; TYPICAL. VALVE SHALL BE SET TO MATCH EXISTING FLOW PREVIOUSLY FIT-OUT FLOORS.
P267	ALL NEW PLUMBING WORK IN THE LOWER LEVEL IMAGING SUITE SHALL BE PROVIDED AS PART OF ADD ALTERNATE #1. REFER TO SPECIFICATION SECTION 012300 FOR ALTERNATE DESCRIPTION.



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3	P4 - BID & PERMIT	01/08/21

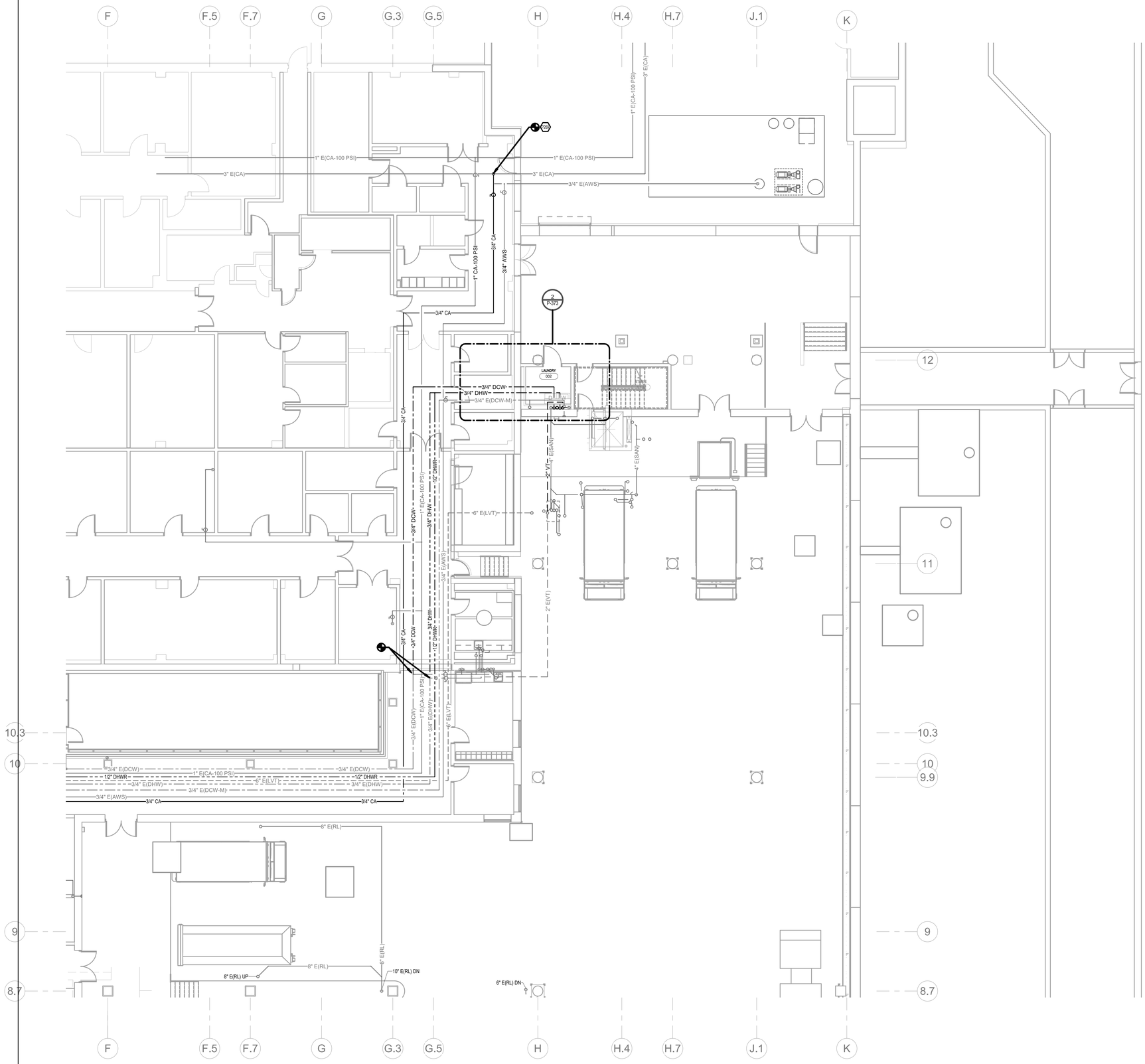
Drawn By: RLB
Checked By: CMR
Client Number:
Project Number: UKR15

STATE OF KENTUCKY · CHRISTOPHER M. REEVES · 25045 · LICENSED PROFESSIONAL ENGINEER

DRAWING
BASEMENT PHASE 4 FIT-OUT AREA 'B' - PLUMBING PLAN

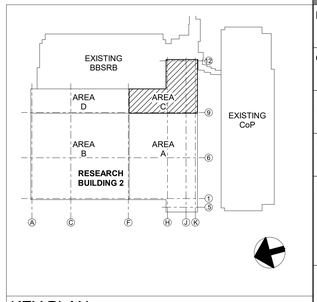
SHEET NO.
P-260B

1/11/2021 4:43:02 PM



1 BASEMENT PHASE 4 FITOUT AREA C - PLUMBING PLAN
1/8" = 1'-0"

PLUMBING TAGGED NOTES	
P269	CONNECT TO EXISTING LAB AIR MAIN PIPE.



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ISSUANCES

No.	Description	Date
1	P4 DD ISSUANCE	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By RLB

Checked By CMR

Client Number

STATE OF KENTUCKY CHRISTOPHER M REEVES 25045 LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

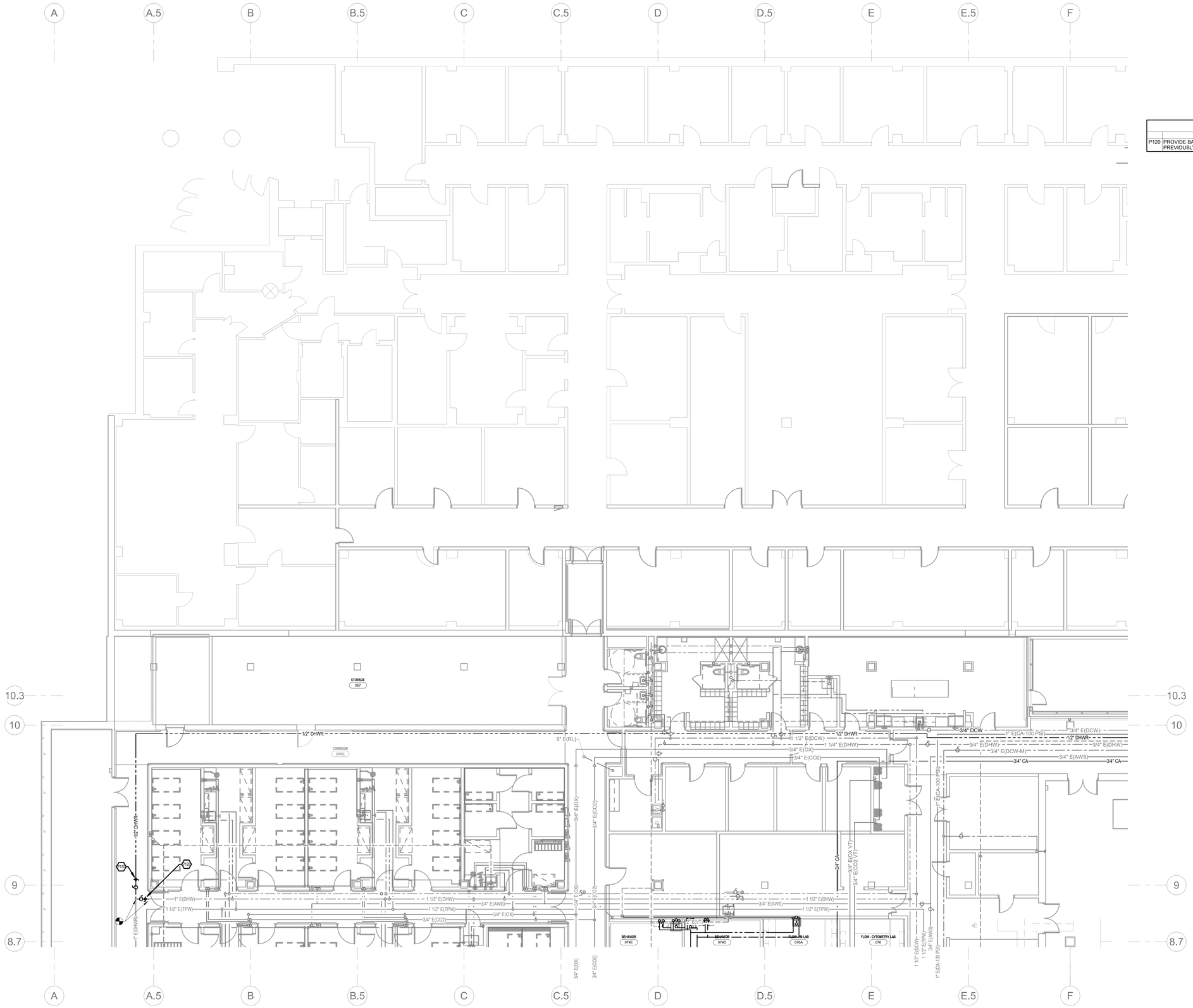
DRAWING

BASEMENT PHASE 4 FIT-OUT AREA 'C' - PLUMBING PLAN

SHEET NO.

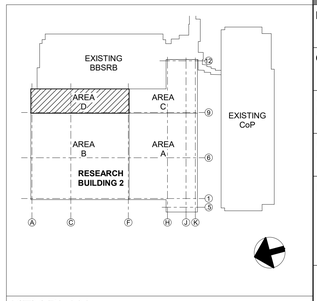
P-260C

1/11/2021 4:43:13 PM



1 BASEMENT PHASE 4 FITOUT AREA D - PLUMBING PLAN
1/8" = 1'-0"

PLUMBING TAGGED NOTES	
P120	PROVIDE BALANCING VALVE; TYPICAL. VALVE SHALL BE SET TO MATCH EXISTING FLOW PREVIOUSLY FIT-OUT FLOORS.



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ISSUANCES

No.	Description	Date
1	P4 DD ISSUANCE	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By RLB

Checked By CMR

Client Number

STATE OF KENTUCKY CHRISTOPHER M. REEVES 25045 LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

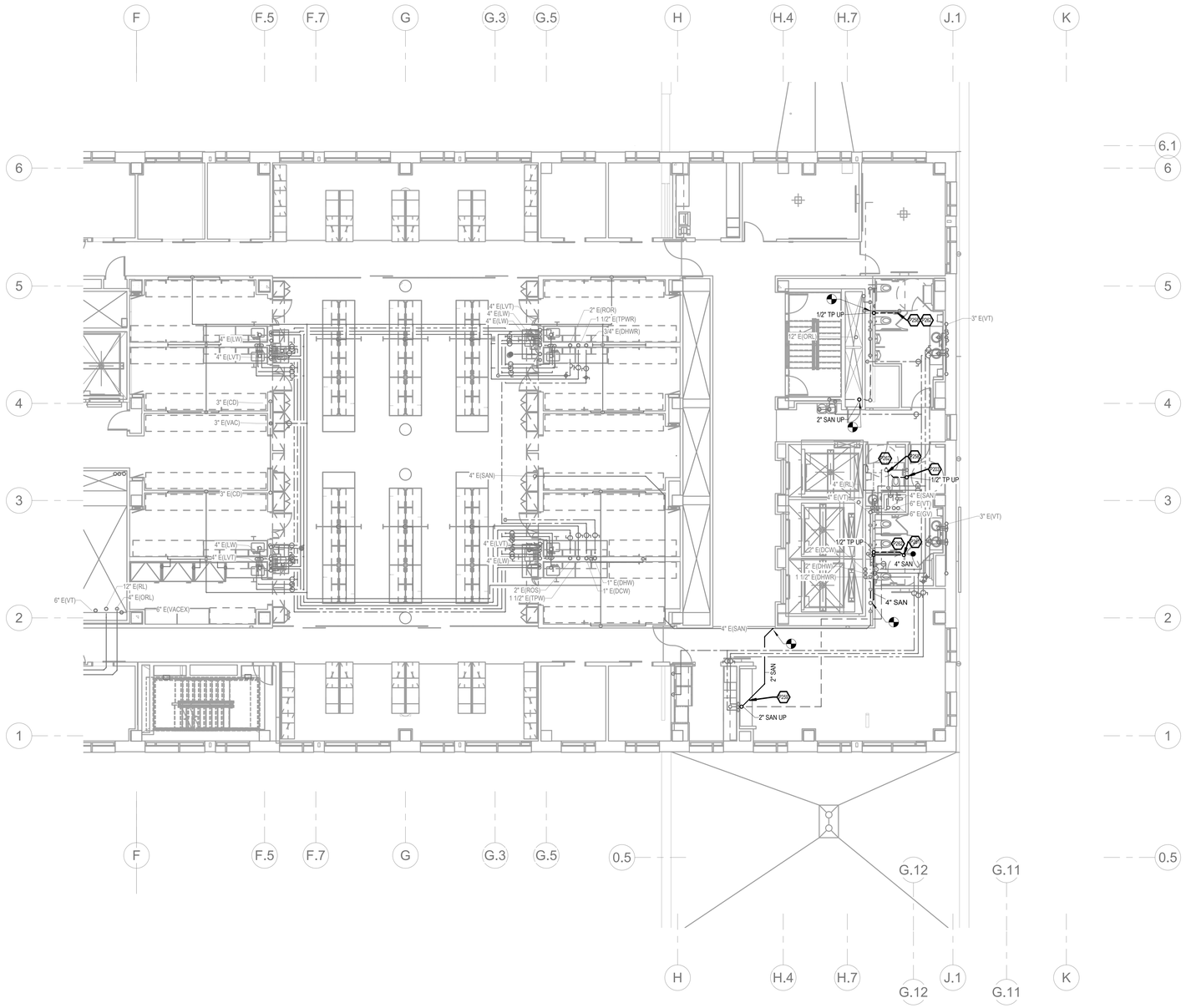
DRAWING

BASEMENT PHASE 4 FIT-OUT AREA 'D' - PLUMBING PLAN

SHEET NO.

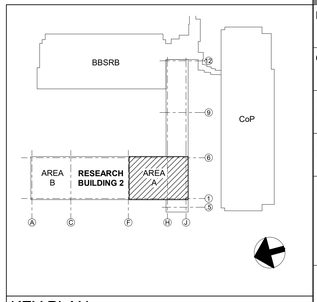
P-260D

1/11/2021 4:43:25 PM



1 PLUMBING - LEVEL 05 PHASE 4 FITOUT - AREA A
1/8" = 1'-0"

PLUMBING TAGGED NOTES	
P203	CORE DRILL THE EXISTING FLOOR SLAB TO INSTALL NEW TRAP PRIMER MAKE-UP WATER SUPPLIES.
P258	PROVIDE TRAP PRIMER CONNECTION TO EXISTING FLOOR DRAIN ABOVE.
P259	CUT EXISTING CEILING AND SOFFIT AS REQUIRED TO INSTALL NEW WASTE PIPE. PATCH AND REPAIR CEILING AND SOFFIT TO MATCH THE EXISTING.
P261	CORE DRILL EXISTING FLOOR SLAB TO INSTALL NEW FLOOR DRAIN.
P262	CUT EXISTING CEILING TO INSTALL NEW PLUMBING PIPES. PATCH AND REPAIR CEILING TO MATCH THE EXISTING.



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Client Number

STATE OF KENTUCKY CHRISTOPHER M. REEVES 25045 LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

DRAWING

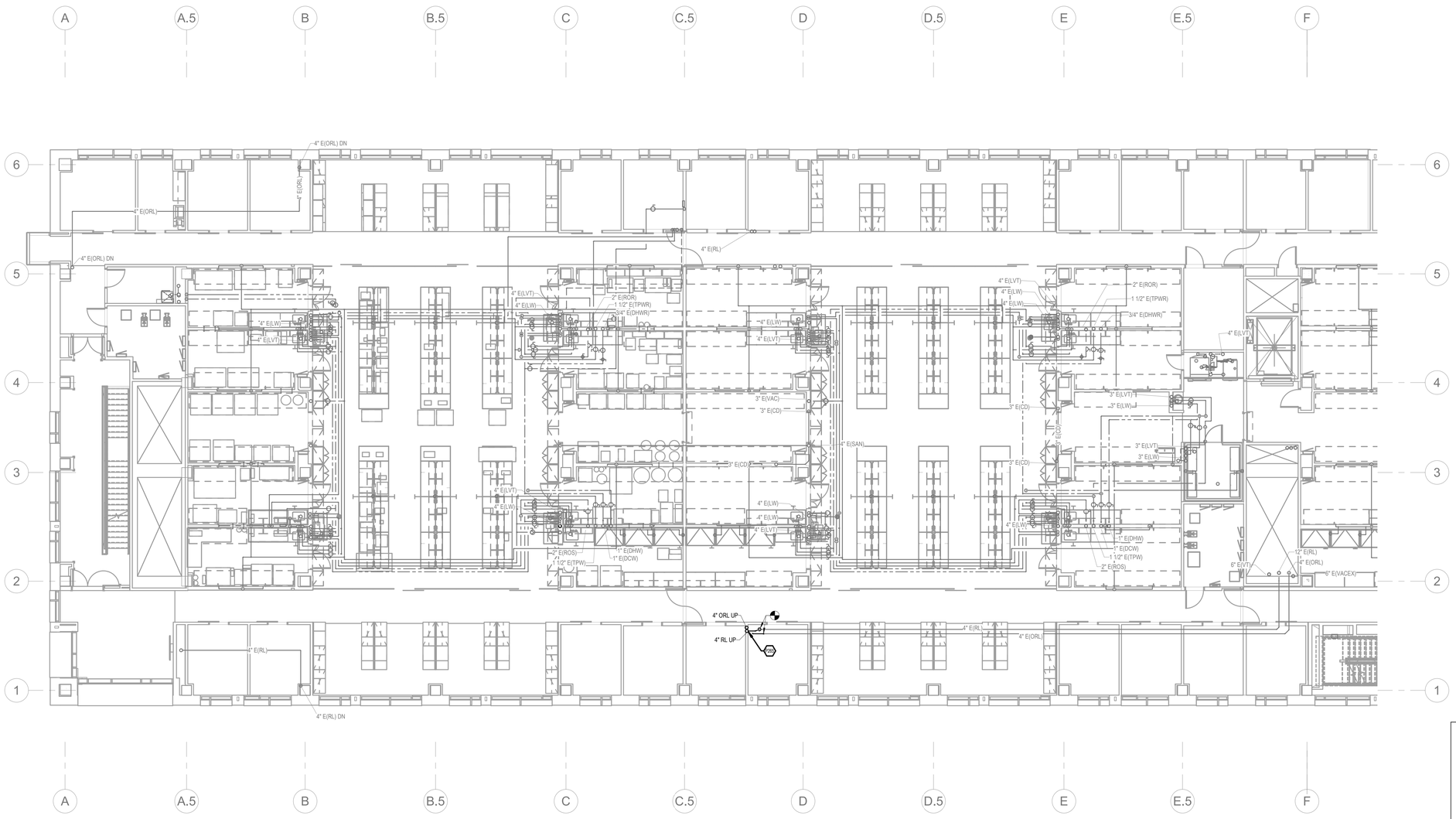
LEVEL 05 PHASE 4 FITOUT AREA 'A' - PLUMBING PLAN

SHEET NO.

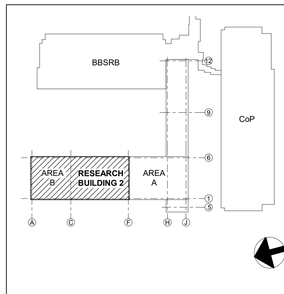
P-265A

1/11/2021 4:43:42 PM

PLUMBING TAGGED NOTES	
P265	CORE DRILL EXISTING FLOOR SLAB TO INSTALL ROOF LEADER(S).



1 PLUMBING - LEVEL 05 PHASE 4 FITOUT - AREA B
1/8" = 1'-0"



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ISSUANCES

No.	Description	Date
1	P4 - BID & PERMIT	01/08/21

Drawn By RLB

Checked By CMR

Client Number

STATE OF KENTUCKY
CHRISTOPHER M. REEVES
25045
LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

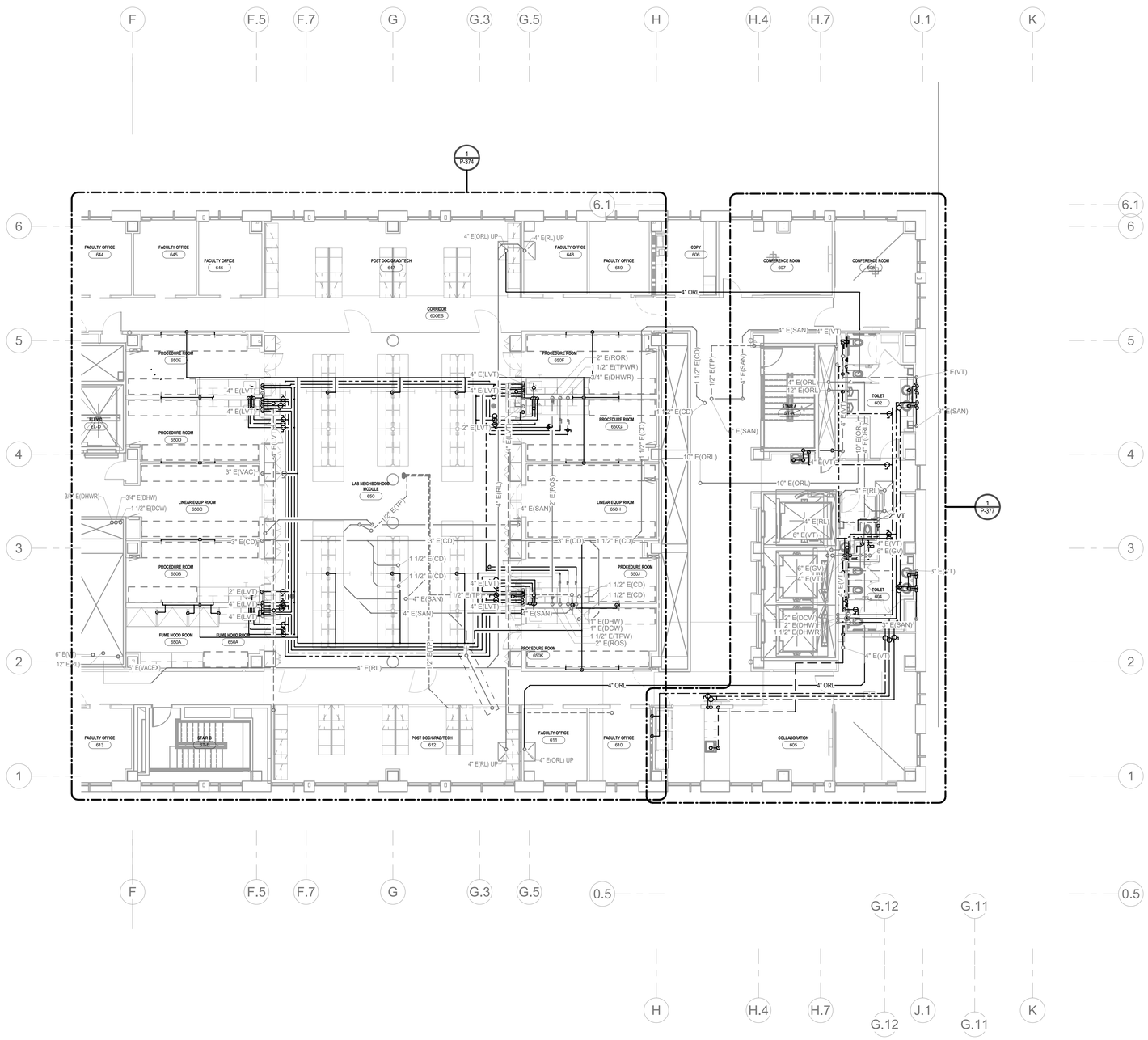
DRAWING

LEVEL 05 PHASE 4 FITOUT AREA 'B' - PLUMBING PLAN

SHEET NO.

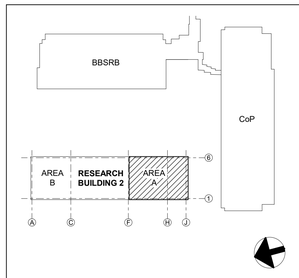
P-265B

1/11/2021 4:43:58 PM



1 PLUMBING - LEVEL 06 PHASE 4 FITOUT - AREA A
1/8" = 1'-0"

PLUMBING TAGGED NOTES



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Drawn By RLB

Checked By CMR

Client Number

STATE OF KENTUCKY CHRISTOPHER M. REEVES 25045 LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

DRAWING

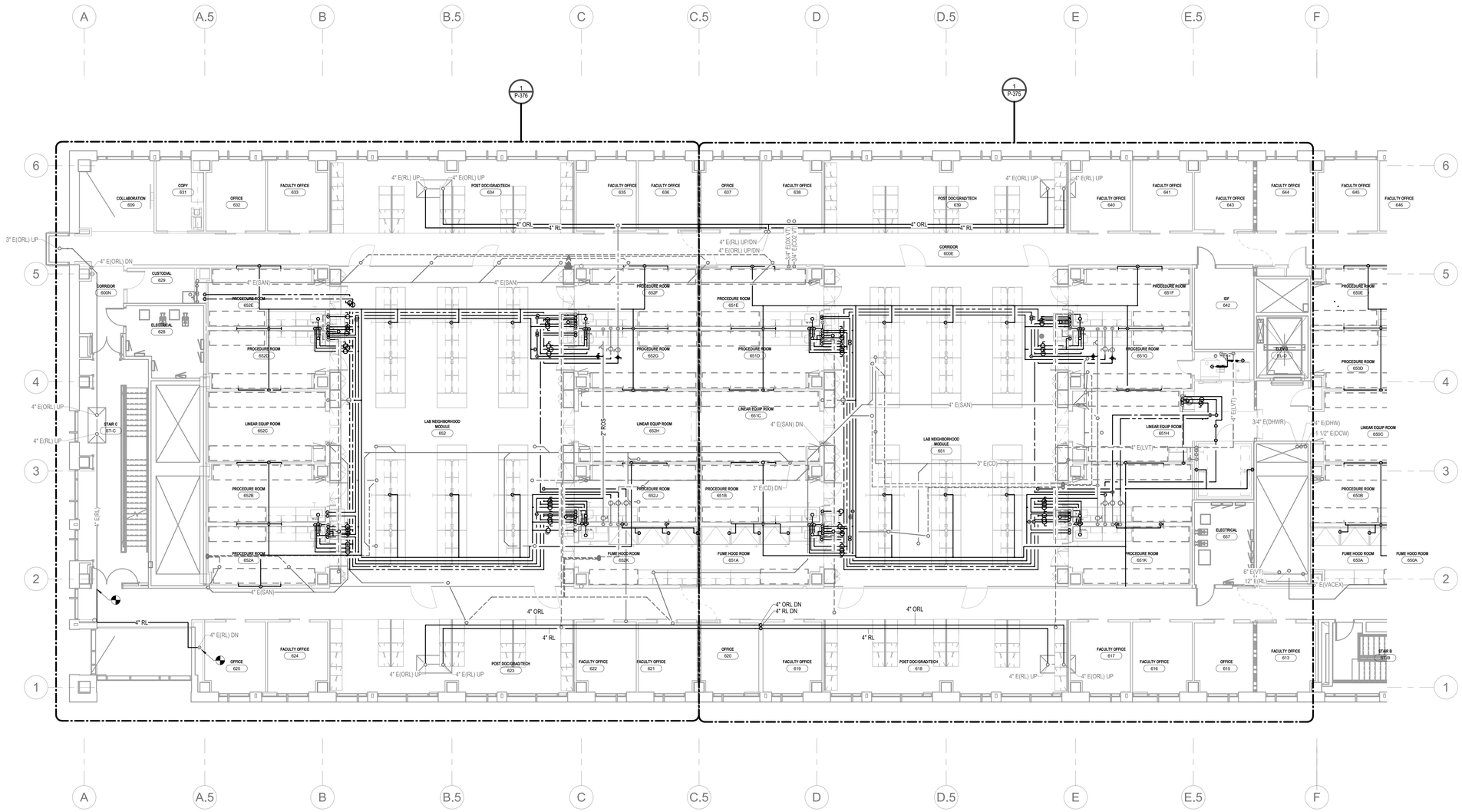
LEVEL 06 PHASE 4 FITOUT AREA 'A' - PLUMBING PLAN

SHEET NO.

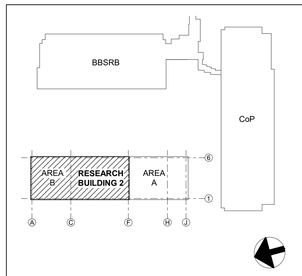
P-266A

1/11/2021 4:44:11 PM

PLUMBING TAGGED NOTES



1 PLUMBING - LEVEL 06 PHASE 4 FITOUT - AREA B
1/8" = 1'-0"



KEY PLAN
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ISSUANCES

No.	Description	Date
1	P4 DD ISSUANCE	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By RLB

Checked By CMR

Client Number

STATE OF KENTUCKY CHRISTOPHER M. REEVES 25045 LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

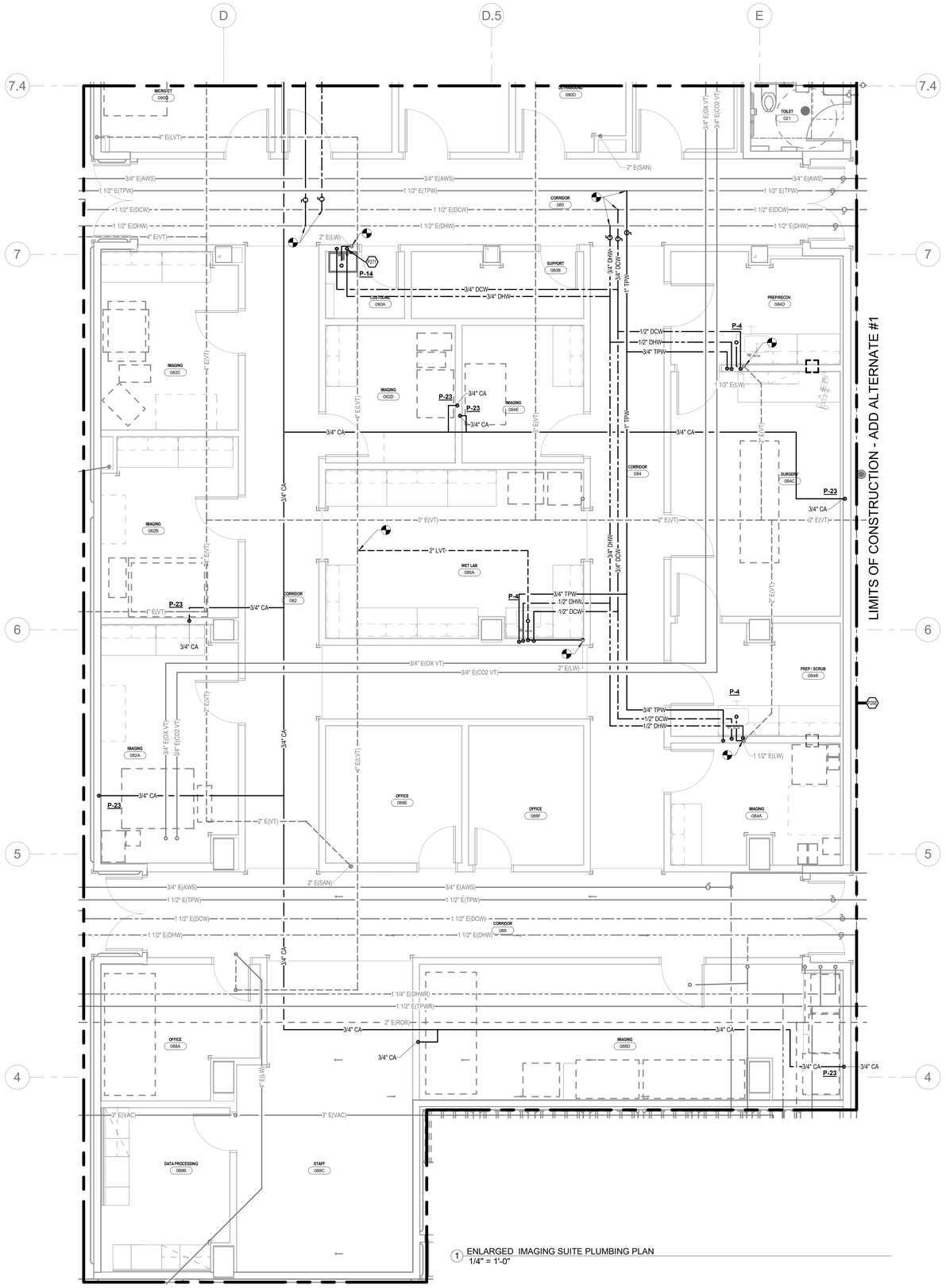
DRAWING

LEVEL 06 PHASE 4 FITOUT AREA 'B' - PLUMBING PLAN

SHEET NO.

P-266B

1/11/2021 4:44:27 PM



1 ENLARGED IMAGING SUITE PLUMBING PLAN
1/4" = 1'-0"

PLUMBING TAGGED NOTES	
P268	ALL NEW PLUMBING WORK IN THE OUTLINED LOWER LEVEL IMAGING SUITE SHALL BE PROVIDED AS PART OF ADD ALTERNATE #1. REFER TO SPECIFICATION SECTION 012300 FOR ALTERNATE DESCRIPTION.
P271	PROVIDE SEPARATE WATER PIPE CONNECTION FOR CHEMICAL MIXER.

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STATE OF KENTUCKY
CHRISTOPHER M. REEVES
25045
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Project Number UKR15

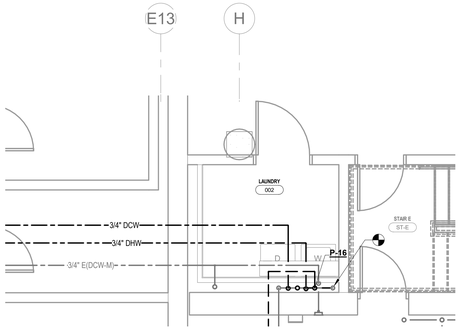
DRAWING

ENLARGED PHASE 4 LOWER LEVEL PLUMBING PLANS

SHEET NO.

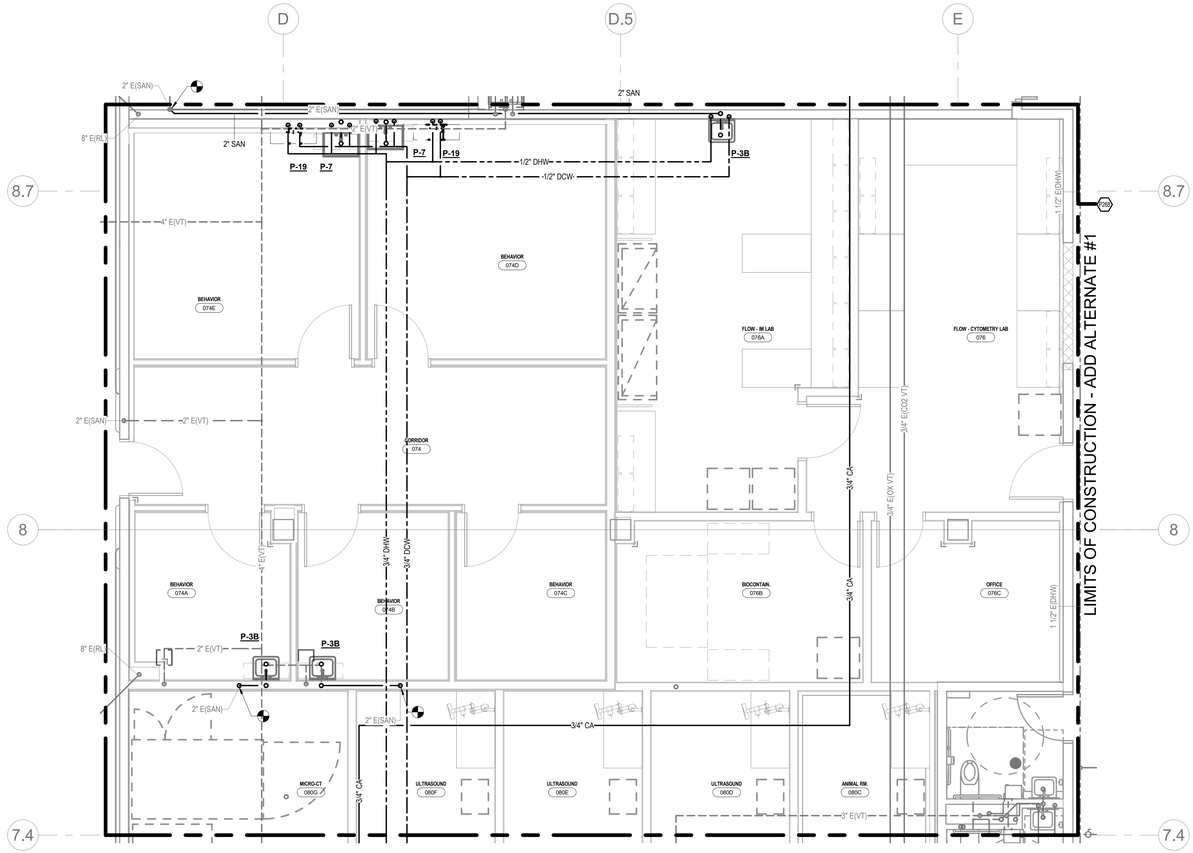
P-372

1/11/2021 4:44:39 PM



2 ENLARGED LAUNDRY ROOM PLUMBING PLAN
1/4" = 1'-0"

PLUMBING TAGGED NOTES	
P268	ALL NEW PLUMBING WORK IN THE OUTLINED LOWER LEVEL IMAGING SUITE SHALL BE PROVIDED AS PART OF ADD ALTERNATE #1. REFER TO SPECIFICATION SECTION 012300 FOR ALTERNATE DESCRIPTION.



1 ENLARGED IMAGING SUITE BEHAVIOR PLUMBING PLAN
1/4" = 1'-0"

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3	P4 - BID & PERMIT	01/08/21

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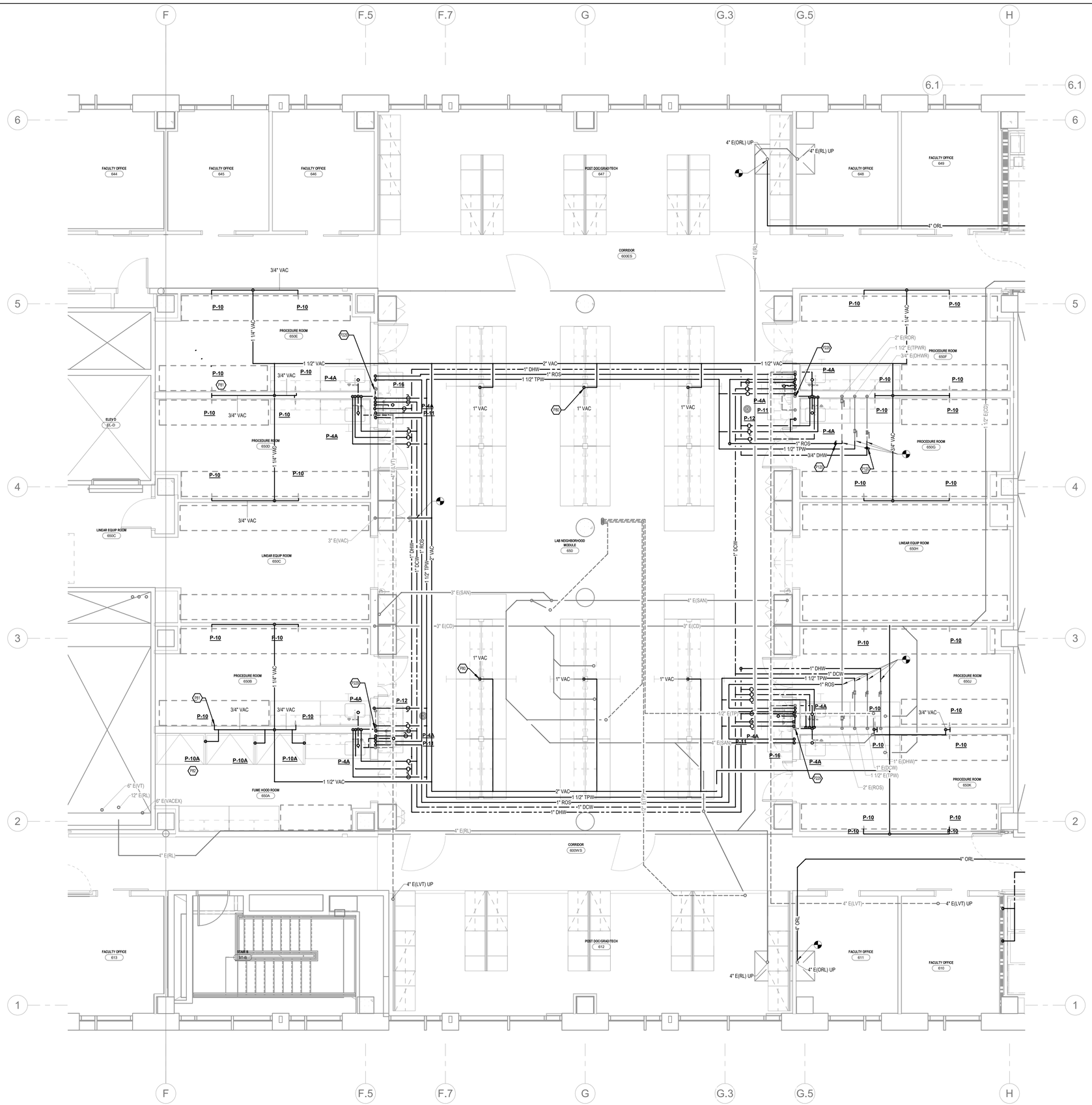
DRAWING

ENLARGED PHASE 4 LOWER LEVEL PLUMBING PLANS

SHEET NO.

P-373

1/11/2021 4:44:40 PM



1 ENLARGED LAB NEIGHBORHOOD MODULE 650
1/4" = 1'-0"

PLUMBING TAGGED NOTES	
P80	PROVIDE VACUUM PIPE FINAL CONNECTION TO SERVICE CEILING PANEL. REFER TO LAB EQUIPMENT DRAWINGS.
P81	PROVIDE VACUUM PIPE FINAL CONNECTION TO WALL MOUNTED VACUUM NEEDLE VALVE. NEEDLE VALVE OUTLETS FURNISHED BY LAB EQUIPMENT SUPPLIER AND INSTALLED BY THE PLUMBING CONTRACTOR; REFER TO LAB EQUIPMENT PLANS
P82	PROVIDE VACUUM PIPE FINAL CONNECTION TO FUME HOOD VACUUM OUTLET. REFER TO LAB EQUIPMENT DRAWINGS.
P120	PROVIDE BALANCING VALVE; TYPICAL. VALVE SHALL BE SET TO MATCH EXISTING FLOW PREVIOUSLY FIT-OUT FLOORS.
P229	REMOVE THE EXISTING LAB WASTE TEE FITTINGS FROM THE EXISTING MAIN LAB WASTE STACK AND PROVIDE NEW TEE FITTINGS AT A LOWER ELEVATION TO CONNECT NEW WASTE PIPING.

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3	P4 - BID & PERMIT	01/08/21

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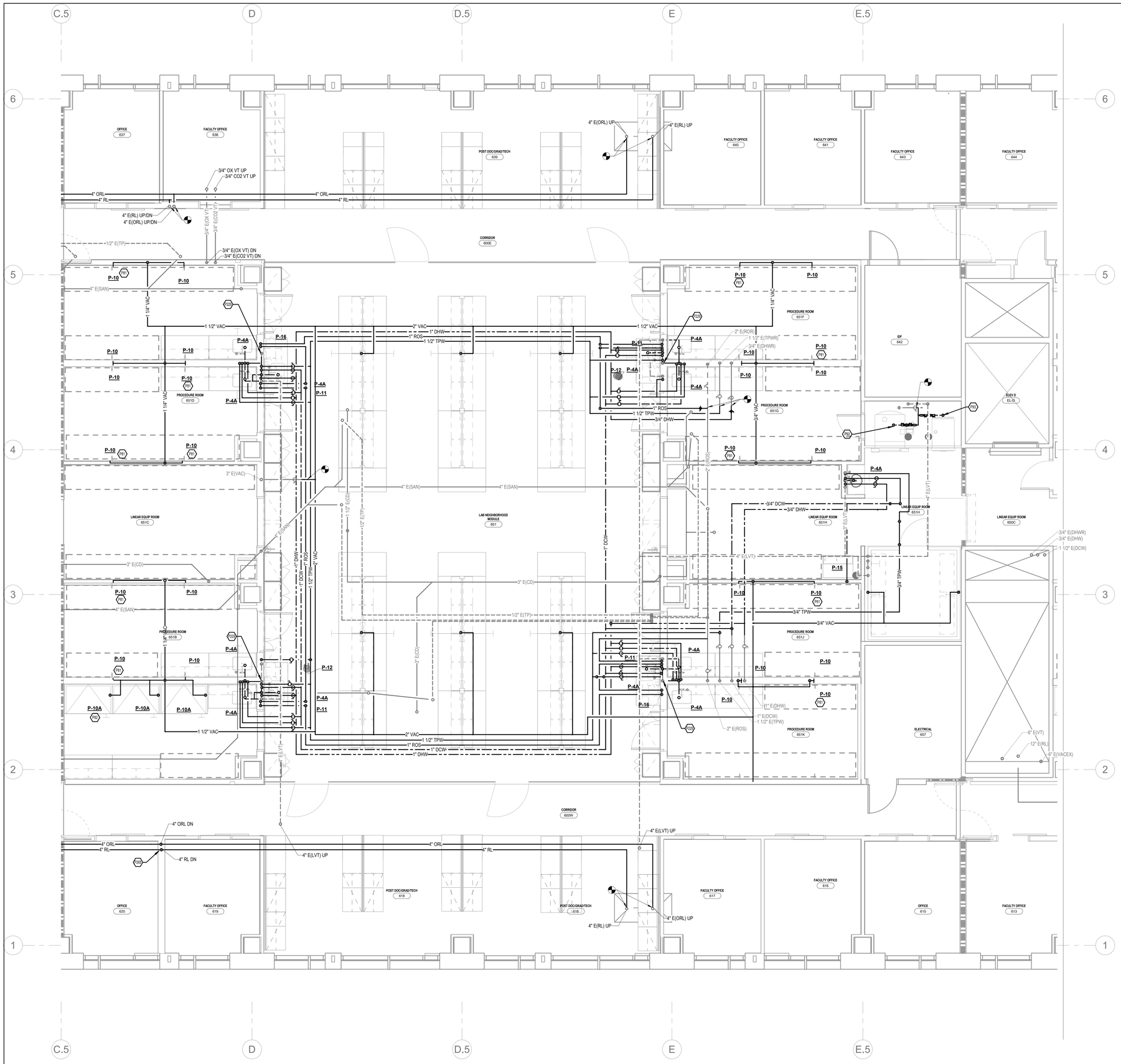
Project Number UKR15

STATE OF KENTUCKY CHRISTOPHER M. REEVES 25045 LICENSED PROFESSIONAL ENGINEER

DRAWING
ENLARGED PHASE 4 LAB PLAN - LAB NEIGHBORHOOD MODULE 650

SHEET NO.
P-374

1/11/2021 4:44:42 PM



1 ENLARGED LAB NEIGHBORHOOD MODULE 651
1/4" = 1'-0"

PLUMBING TAGGED NOTES

P81	PROVIDE VACUUM PIPE FINAL CONNECTION TO WALL MOUNTED VACUUM NEEDLE VALVE. NEEDLE VALVE OUTLETS FURNISHED BY LAB EQUIPMENT SUPPLIER AND INSTALLED BY THE PLUMBING CONTRACTOR; REFER TO LAB EQUIPMENT PLANS
P82	PROVIDE VACUUM PIPE FINAL CONNECTION TO FUME HOOD VACUUM OUTLET. REFER TO LAB EQUIPMENT DRAWINGS.
P93	PROVIDE 1" COLD WATER FINAL CONNECTION TO STERILIZER WITH 1" WATT'S 909LF REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY. PIPE DISCHARGE PIPE FROM BACKFLOW PREVENTER FULL SIZE TO FLOOR DRAIN. PROVIDE 1-1/2" DRAIN PIPE FROM STERILIZER TO FLOOR DRAIN. INSTALLL BACKFLOW PREVENTER NEATLY ALONG BACK WALL TO MAINTAIN OWNER REQUIRE CLEARANCE BETWEEN THE STERILIZER UNITS.
P229	REMOVE THE EXISTING LAB WASTE TEE FITTINGS FROM THE EXISTING MAIN LAB WASTE STACK AND PROVIDE NEW TEE FITTINGS AT A LOWER ELEVATION TO CONNECT NEW WASTE PIPING.
P265	CORE DRILL EXISTING FLOOR SLAB TO INSTALL ROOF LEADER(S).

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2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

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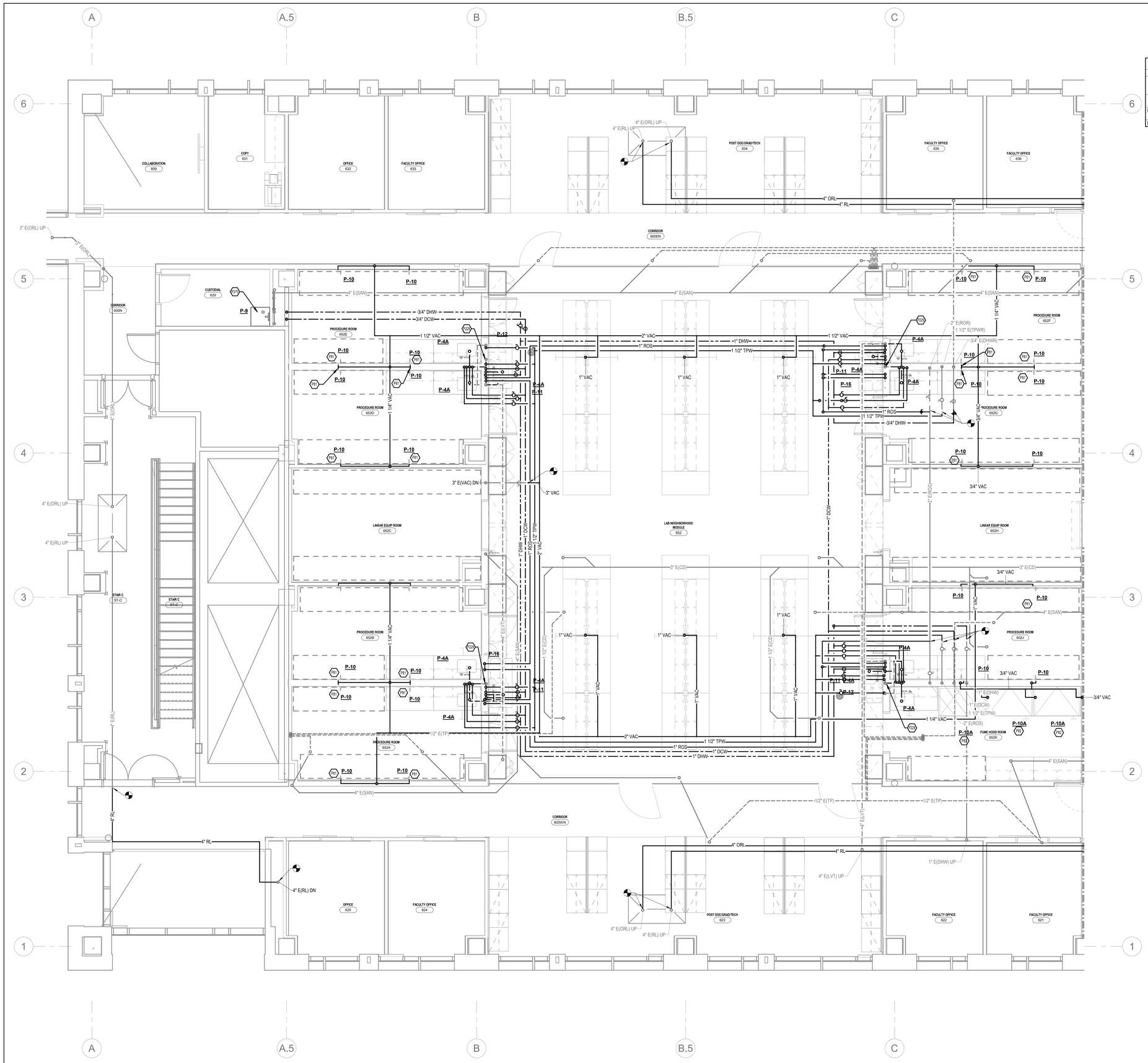
Client Number:
Project Number: UKR15

STATE OF KENTUCKY — CHRISTOPHER M. REEVES — 25045 — LICENSED PROFESSIONAL ENGINEER

DRAWING
ENLARGED PHASE 4 LAB PLAN - LAB NEIGHBORHOOD MODULE 651

SHEET NO.
P-375

1/11/2021 4:44:44 PM



1 ENLARGED LAB NEIGHBORHOOD MODULE 652
1/4" = 1'-0"

PLUMBING TAGGED NOTES	
P81	PROVIDE VACUUM PIPE FINAL CONNECTION TO WALL MOUNTED VACUUM NEEDLE VALVE. NEEDLE VALVE OUTLETS FURNISHED BY LAB EQUIPMENT SUPPLIER AND INSTALLED BY THE PLUMBING CONTRACTOR. REFER TO LAB EQUIPMENT PLANS.
P82	PROVIDE VACUUM PIPE FINAL CONNECTION TO FUME HOOD VACUUM OUTLET. REFER TO LAB EQUIPMENT DRAWINGS.
P229	REMOVE THE EXISTING LAB WASTE TEE FITTINGS FROM THE EXISTING MAIN LAB WASTE STACK AND PROVIDE NEW TEE FITTINGS AT A LOWER ELEVATION TO CONNECT NEW WASTE PIPING.
P270	REFER TO MOP BASIN DETAIL ON SHEET P-460.

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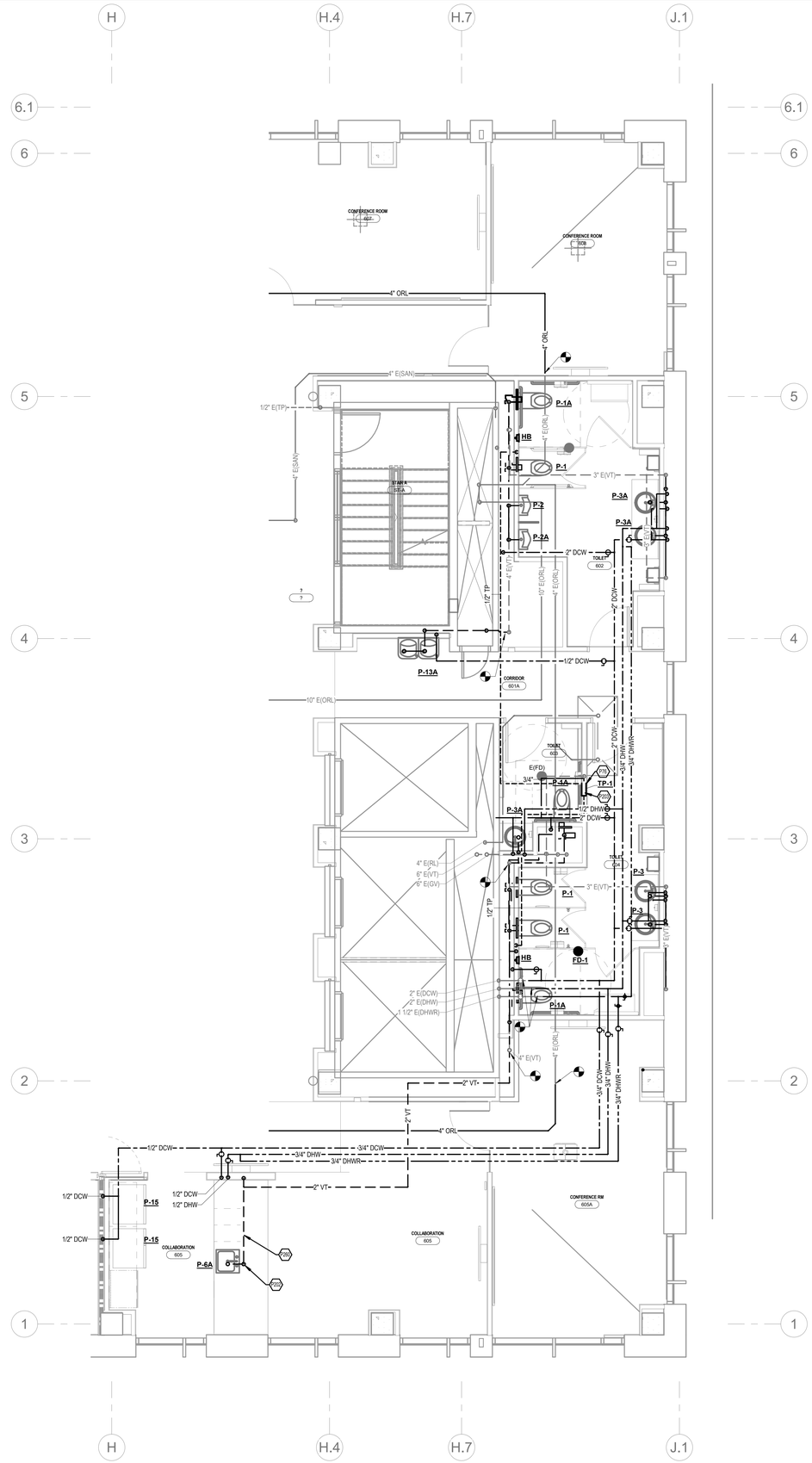
STATE OF KENTUCKY CHRISTOPHER M. REEVES 25045 LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

DRAWING
ENLARGED PHASE 4 LAB PLAN - LAB NEIGHBORHOOD MODULE 652

SHEET NO.
P-376

1/11/2021 4:44:46 PM



1 ENLARGED LEVEL 6 TOILET ROOM PLUMBING PLAN
1/4" = 1'-0"

PLUMBING TAGGED NOTES	
P76	MOUNT ELECTRIC TRAP PRIMER MANIFOLD TO WALL ABOVE CEILING. PROVIDE TRAP PRIMER MAKER-UP WATER SUPPLIES DOWN IN WALL AND CONNECT TO FLOOR DRAIN(S).
P202	CORE DRILL THE EXISTING FLOOR SLAB TO INSTALL NEW PLUMBING FIXTURE(S).
P203	CORE DRILL THE EXISTING FLOOR SLAB TO INSTALL NEW TRAP PRIMER MAKE-UP WATER SUPPLIES.
P260	INSTALL VENT PIPE IN CASEWORK BELOW COUNTER TOP.

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Project Number UKR15

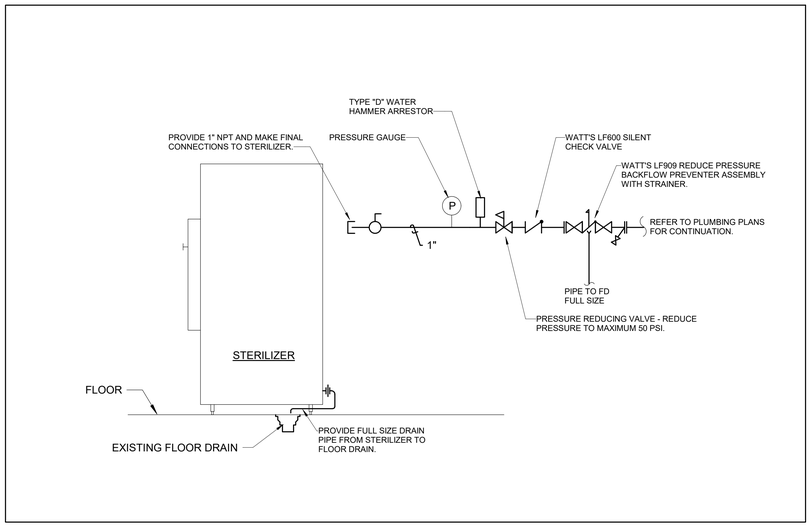
DRAWING

ENLARGED PHASE 4 TOILET ROOM PLUMBING PLAN

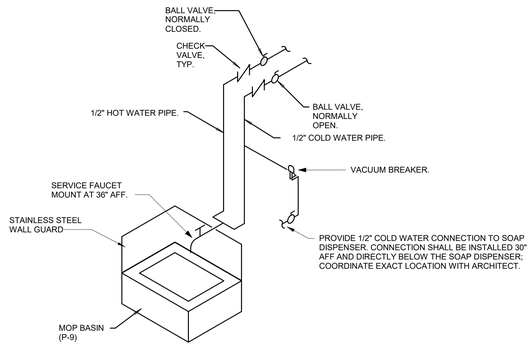
SHEET NO.

P-377

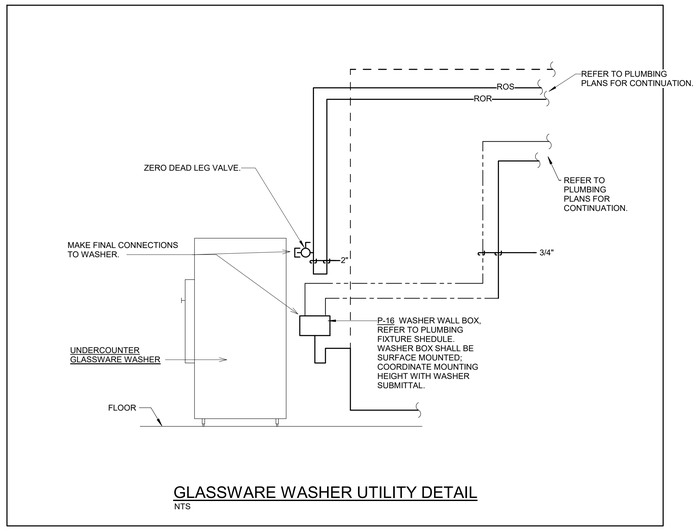
1/11/2021 4:44:58 PM



3 TYPICAL STERILIZER UTILITY DETAIL
NOT TO SCALE



1 MOP BASIN DETAIL
1/4" = 1'-0"



4 GLASSWARE WASHER UTILITY DETAIL
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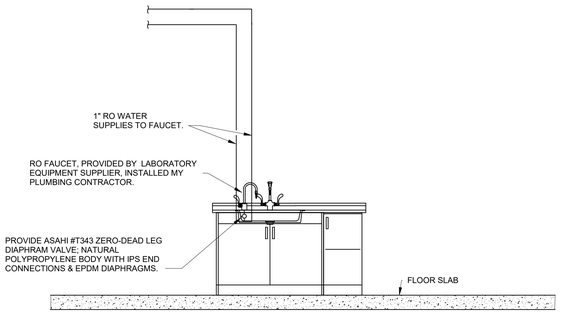

2 TYPICAL RO FAUCET WATER SUPPLY CONNECTION DETAIL
NOT TO SCALE

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STATE OF KENTUCKY CHRISTOPHER M. REEVES 25045 LICENSED PROFESSIONAL ENGINEER

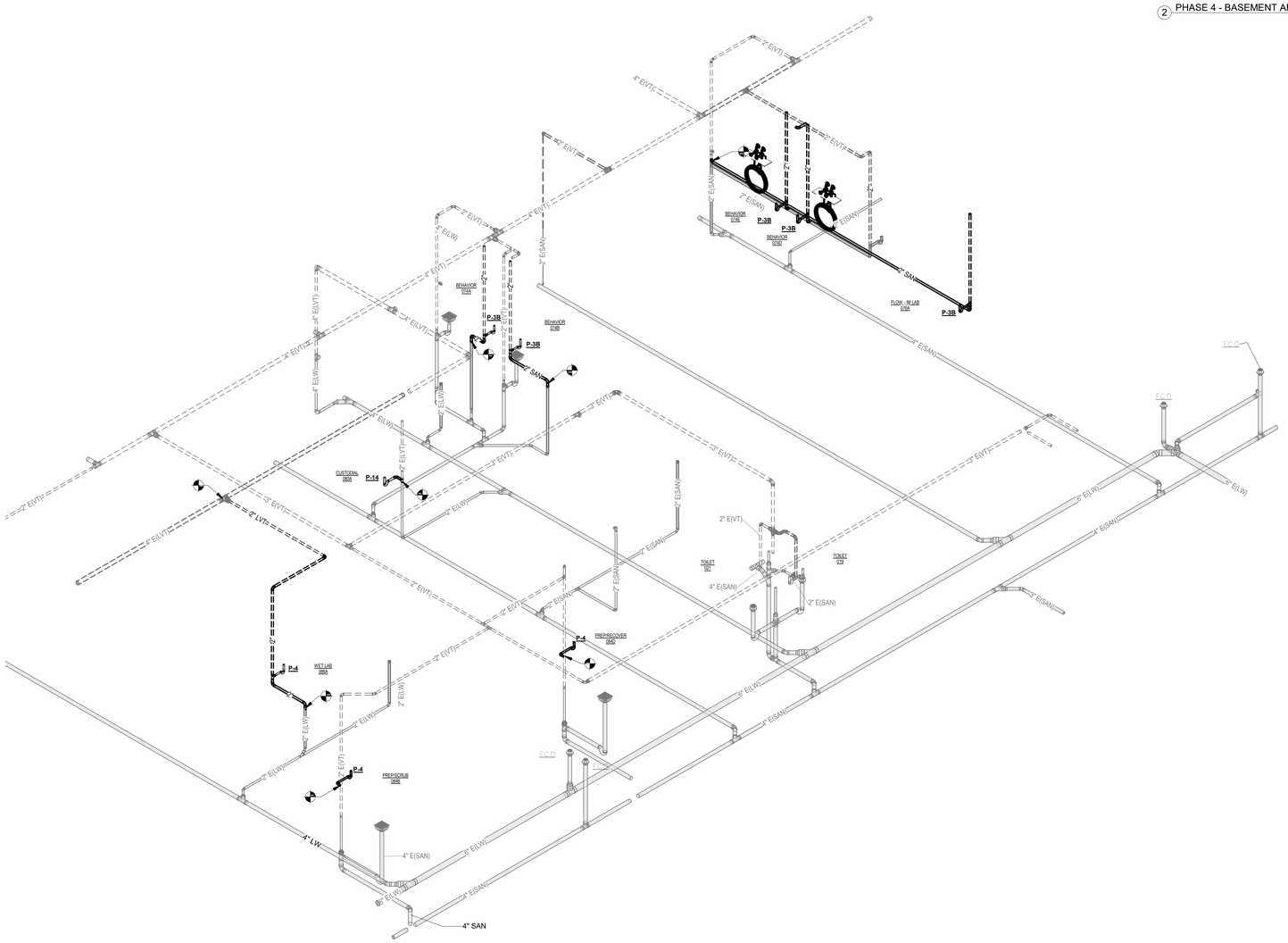
DRAWING

PHASE 4 FIT-OUT PLUMBING DETAILS

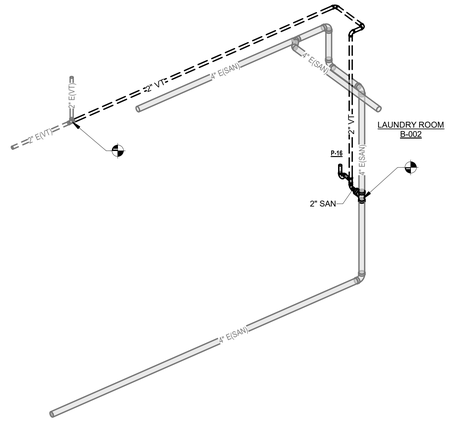
SHEET NO.

P-460

1/11/2021 4:45:01 PM



1 PHASE 4 -IMAGING AREA ISOMETRIC RISER - LOWER LEVEL



2 PHASE 4 - BASEMENT AREA C LAUNDRY ROOM PLUMBING ISOMETRIC

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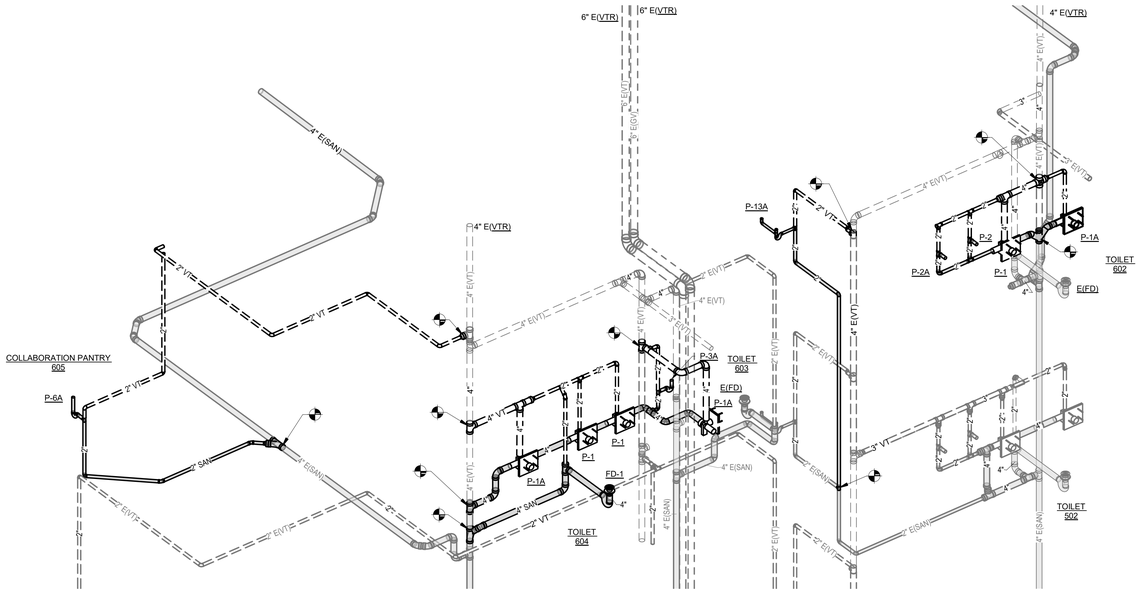
PHASE 4 FIT-OUT RISER ISOMETRICS

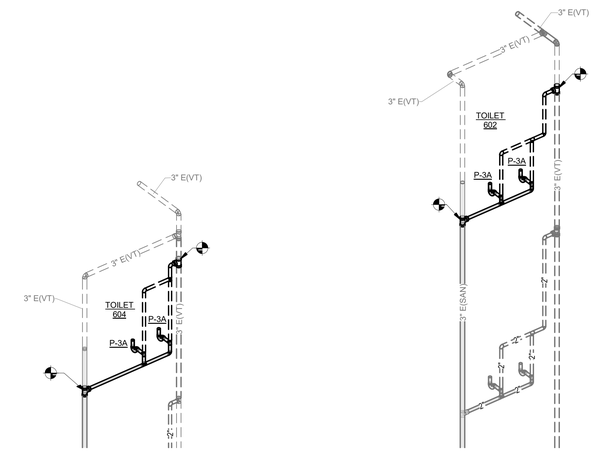
SHEET NO.

P-960

1/11/2021 4:45:16 PM



1 PHASE 4 - MAIN TOILET ROOM ISOMETRIC - AREA A - FIT-OUT



2 PHASE 4 - MAIN TOILET ROOM LAVATORY ISOMETRIC - AREA A - FIT-OUT - LEVEL 6

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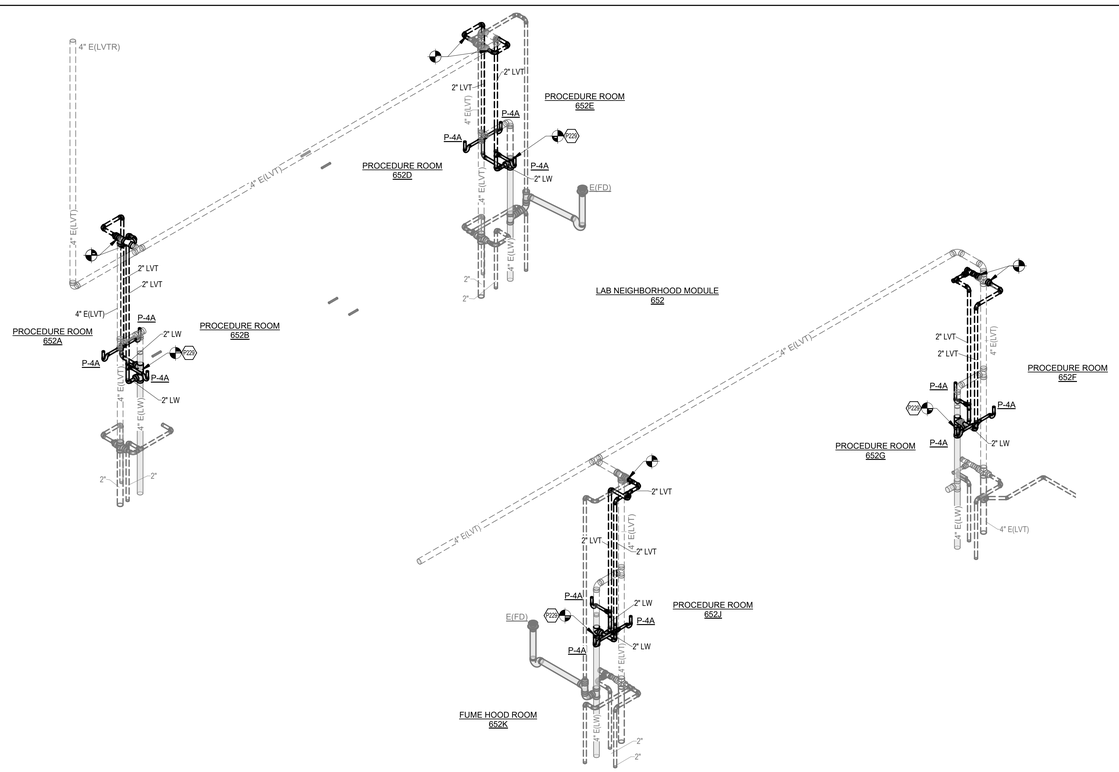
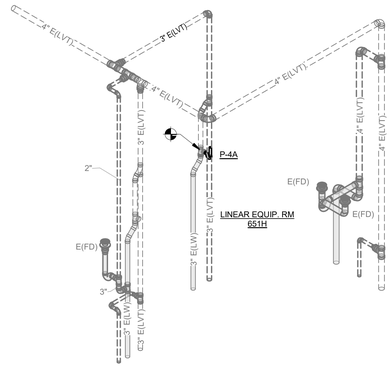
PHASE 4 FIT-OUT RISER ISOMETRICS

SHEET NO.
P-961

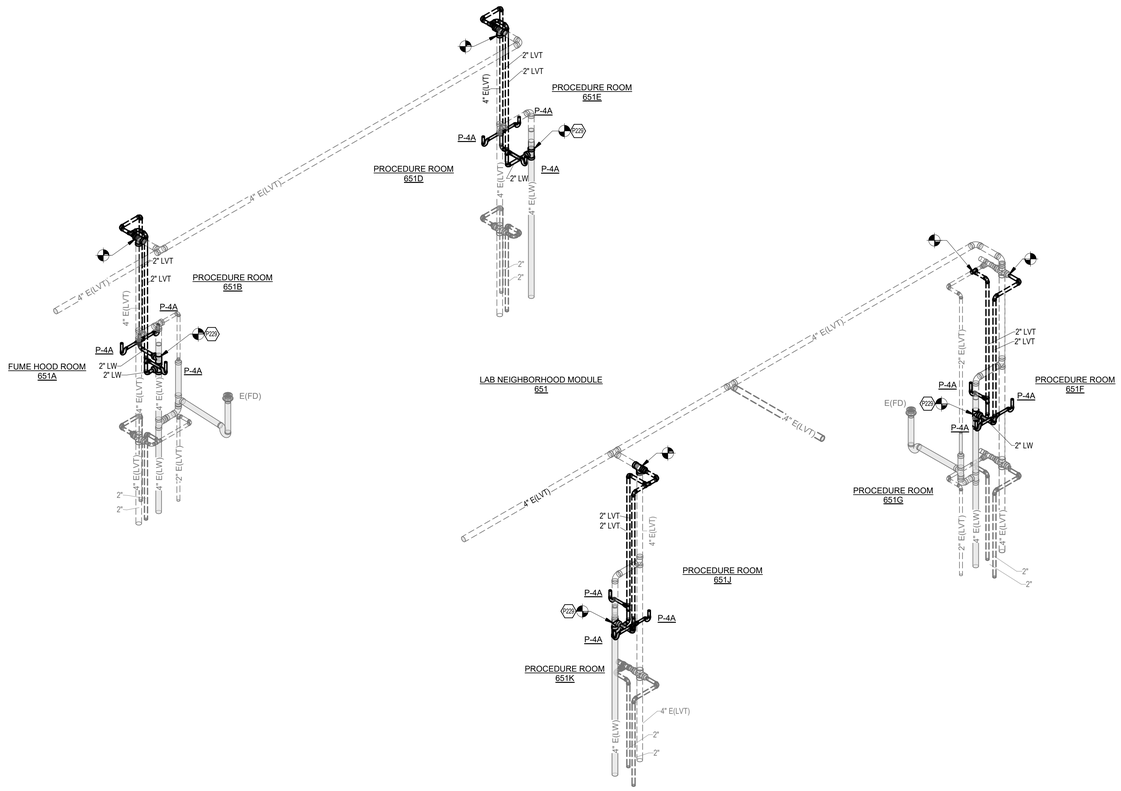
1/11/2021 4:45:41 PM



1 PHASE 4 LAB ISOMETRICS RISER A - FIT-OUT - LEVEL 6



3 PHASE 4LAB ISOMETRICS RISER C - FIT-OUT - LEVEL 6



2 PHASE 4 LAB ISOMETRICS RISER B - FIT-OUT - LEVEL 6

PLUMBING TAGGED NOTES	
P229	REMOVE THE EXISTING LAB WASTE TEE FITTINGS FROM THE EXISTING MAIN LAB WASTE STACK AND PROVIDE NEW TEE FITTINGS AT A LOWER ELEVATION TO CONNECT NEW WASTE PIPING.

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PHASE 4 FIT-OUT RISER ISOMETRICS

SHEET NO.

P-962

1/11/2021 4:46:12 PM

PLUMBING TAGGED NOTES	
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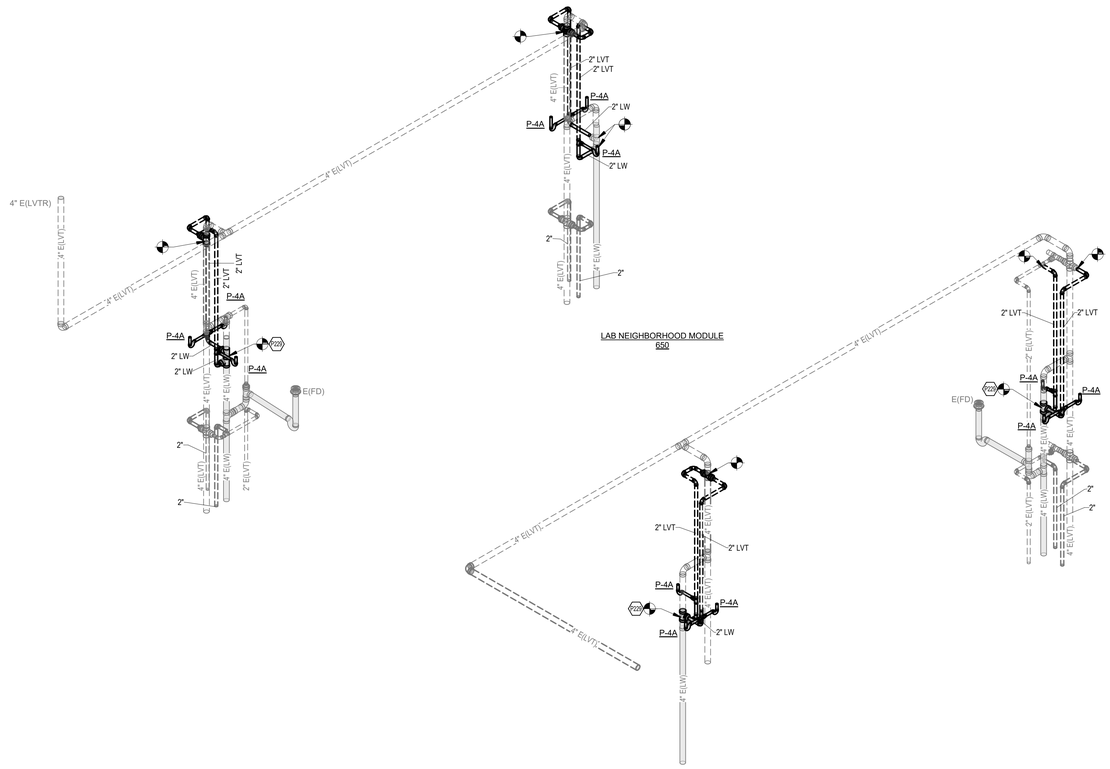

1 PHASE 4 - LAB ISOMETRICS RISER D - FIT-OUT - LEVEL 6

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - CD REVIEW	12/04/20
2	P4 - BID & PERMIT	01/08/21

Drawn By RLB

Checked By CMR

Client Number

Project Number UKR15

STATE OF KENTUCKY CHRISTOPHER M. REEVES 25045 LICENSED PROFESSIONAL ENGINEER

DRAWING

PHASE 4 FIT-OUT RISER ISOMETRICS

SHEET NO.

P-963

1/11/2021 4:46:25 PM

NOTE: SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.

FIELD MOUNTED CONTROLS

- T — THERMOSTAT OR TEMPERATURE SENSOR
- H — HUMIDISTAT OR HUMIDITY SENSOR
- T_N — NIGHT CYCLE CONTROL THERMOSTAT
- T_A — ASPIRATING THERMOSTAT
- T_B — THERMOSTAT WITH INSULATING BASE
- PT — PRESSURE TRANSMITTER
- PDT — PRESSURE DIFFERENTIAL TRANSMITTER
- F SD — DUCT SMOKE DETECTOR
- P — PRESSURE SENSOR
- A CO — CARBON MONOXIDE SENSOR
- A CO2 — CARBON DIOXIDE SENSOR
- A O2 — OXYGEN SENSOR
- A VOC — VOC SENSOR
- A R — REFRIGERANT SENSOR
- W/PI — WALL MONTED ROOM PRESSURE MONITOR

COMMON INSTRUMENTATION DEVICES

- TI OR — TEMPERATURE INDICATOR (THERMOMETER) WITH THERMOWELL
- TI — TEMPERATURE INDICATOR (THERMOMETER) WITHOUT WELL (DIRECT INSERTION)
- TW — THERMOWELL
- TE — TEMPERATURE ELEMENT (DIRECT INSERTION)
- TS — STRAP ON PIPE TEMPERATURE INSTRUMENT (AQUASTAT)
- TT
- TE — TEMPERATURE ELEMENT WITH WITH TRANSMITTER AND THERMOWELL
- PI OR — PRESSURE INDICATOR (PRESSURE GAUGE) WITH GAUGE VALVE
- GAUGE CONNECTION WITH GAUGE VALVE
- PDT — PRESSURE DIFFERENTIAL TRANSMITTER
- FE OR — FLOW ELEMENT (FLOW SENSOR)
- FT, FE — FLOW ELEMENT WITH TRANSMITTER (FLOW METER)
- FI — FLOW INDICATOR/FLOW METER
- FS OR — FLOW SWITCH

GENERAL

ADJ	-	ADJUSTABLE
AFF	-	ABOVE FINISHED FLOOR
AL	-	ALUMINUM
ALT	-	ALTERNATE
AP	-	ACCESS PANEL
BOD	-	BOTTOM OF DUCT
BOP	-	BOTTOM OF PIPE
BTU	-	BRITISH THERMAL UNIT
BTUH	-	BRITISH THERMAL UNITS PER HOUR
CA	-	COMBUSTION AIR
CAV	-	CONSTANT AIR VOLUME
CFCI	-	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFM	-	CUBIC FEET PER MINUTE
CL	-	CENTERLINE
CLG	-	CEILING
COND	-	CONDENSATE/CONDENSER
COP	-	CENTER OF PIPE
CS	-	CARBON STEEL
CU	-	COPPER
DB	-	DRY BULB
DDC	-	DIRECT DIGITAL CONTROL
DX	-	DIRECT EXPANSION
EA	-	EXHAUST AIR
EAT	-	ENTERING AIR TEMPERATURE
EC	-	ELECTRICAL CONTRACTOR
EDR	-	EQUIVALENT DIRECT RADIATION
EL	-	ELEVATION
ESP	-	EXTERNAL STATIC PRESSURE
ETR	-	EXISTING TO REMAIN
EWT	-	ENTERING WATER TEMPERATURE
EXH	-	EXHAUST
FA	-	FRESH AIR INTAKE/ FIELD ADJUSTABLE
FAT	-	FINAL AIR TEMPERATURE
FC	-	FAIL CLOSED
FE	-	FUME HOOD EXHAUST
FLA	-	FULL LOAD AMPS
FLR	-	FLOOR
FO	-	FAIL OPEN
FPI	-	FINS PER INCH
FPM	-	FEET PER MINUTE
FPS	-	FEET PER SECOND
GA	-	GAUGE
GC	-	GENERAL CONTRACTOR
GE	-	GENERAL EXHAUST
GPM	-	GALLONS PER MINUTE
GS	-	GALVANIZED STEEL
HP	-	HORSE POWER/HIGH POINT
IA	-	INSTRUMENT AIR
IE	-	INVERT ELEVATION
KO	-	KNOCK-OUT
LAT	-	LEAVING AIR TEMPERATURE
LWT	-	LEAVING WATER TEMPERATURE
MBH	-	THOUSANDS OF BTU PER HOUR
MC	-	MECHANICAL CONTRACTOR
MEP	-	MECHANICAL, ELECTRICAL AND PIPING
MER	-	MECHANICAL EQUIPMENT ROOM
NA	-	NOT APPLICABLE
NC	-	NORMALLY CLOSED
NIC	-	NOT IN CONTRACT
NO	-	NORMALLY OPEN
NPS	-	NOMINAL PIPE SIZE
NPT	-	NATIONAL PIPE THREAD
NTS	-	NOT TO SCALE
OA	-	OUTSIDE AIR
OC	-	ON CENTER
OED	-	OPEN END DUCT
OFCI	-	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	-	OWNER FURNISHED, OWNER INSTALLED
OV	-	OUTLET VELOCITY
PA	-	PLANT AIR
PC	-	PLUMBING CONTRACTOR
PCF	-	POUNDS PER CUBIC FOOT
PD	-	PRESSURE DROP
PH	-	PHASE
PP	-	POLYPROPYLENE
PSF	-	POUNDS PER SQUARE FOOT
PSI	-	POUNDS PER SQUARE INCH
PSIA	-	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	-	POUNDS PER SQUARE INCH GAUGE
RA	-	RETURN AIR
RPM	-	REVOLUTIONS PER MINUTE
SA	-	SUPPLY AIR
SCH	-	SCHEDULE
SOG	-	SLAB ON GRADE
SP	-	STATIC PRESSURE
SS	-	STAINLESS STEEL
TA	-	TRANSFER AIR
TBR	-	TO BE REMOVED
TOB	-	TOP OF BEAM
TOD	-	TOP OF DUCT/TOP OF DECK
TOJ	-	TOP OF JOIST
TOP	-	TOP OF PIPE
TOS	-	TOP OF SLAB
TSP	-	TOTAL STATIC PRESSURE
V	-	VOLTS
VAV	-	VARIABLE AIR VOLUME
VP	-	VELOCITY PRESSURE
VTR	-	VENT THRU ROOF
WB	-	WET BULB
WC	-	WATER COLUMN
WG	-	WATER GAUGE
X	-	EXISTING

EQUIPMENT

AC	-	AIR CONDITIONING UNIT/ AIR COMPRESSOR
ACB	-	ACTIVE CHILLED BEAM
ACC	-	AIR COOLED CONDENSER
ACCU	-	AIR COOLED CONDENSING UNIT
ACU	-	AIR CONDITIONING UNIT
AHU	-	AIR HANDLING UNIT
AMD	-	AIR MIXING DEVICE
AS	-	AIR SEPARATOR
AT	-	AIR TERMINAL DEVICE
B	-	BOILER
BBS	-	BOILER BLOWDOWN SEPARATOR
BFS	-	BOILER FEEDWATER SYSTEM
BH	-	BOOSTER HUMIDIFIER
C	-	CONVECTOR
CC	-	COOLING COIL
CH	-	CHILLER
CP	-	CONDENSATE PUMP/ CONTROL PANEL
CT	-	COOLING TOWER
CUH	-	CABINET UNIT HEATER
CV	-	CONVERTOR
D	-	DAMPER
DC	-	DUST COLLECTOR
DH	-	DEHUMIDIFIER
EF	-	EXHAUST FAN
EH	-	EXHAUST HOOD/ ELECTRIC HEATER
EJ	-	EXPANSION JOINT
ET	-	EXPANSION TANK
EV	-	EXHAUST VALVE
F	-	FILTER
FCU	-	FAN COIL UNIT
FD	-	FLOOR DRAIN
FOP	-	FUEL OIL PUMP
FOT	-	FUEL OIL TANK
FR	-	FIN TUBE RADIATION
FT	-	FLASH TANK
FU	-	FURNACE
H	-	HUMIDIFIER
HC	-	HEATING COIL
HP	-	HEAT PUMP
HRC	-	HEAT RECOVERY COIL
HR	-	HOSE REEL
HRD	-	HEAT RECLAIM DEVICE
HT	-	HEAT TRACE
HX	-	HEAT EXCHANGER
IH	-	INTAKE HOOD
MCC	-	MOTOR CONTROL CENTER
P	-	PUMP
RAH	-	ROOFTOP AIR HANDLING UNIT
RC	-	REHEAT COIL
RCP	-	RADIANT CEILING PANEL
REF	-	ROOF EXHAUST FAN
RF	-	RETURN FAN
RH	-	RELIEF HOOD
SAD	-	SOUND ATTENUATING DEVICE
SD	-	SUCTION DIFFUSER
SF	-	SUPPLY FAN
ST	-	STORAGE TANK/STEAM TRAP
T	-	TANK
TXV	-	THERMAL EXPANSION VALVE
UH	-	UNIT HEATER
UST	-	UNDERGROUND STORAGE TANK
UV	-	UNIT VENTILATOR
V	-	VALVE
VEV	-	EXHAUST AIR VALVE
VFD	-	VARIABLE FREQUENCY DRIVE
VSV	-	SUPPLY AIR VALVE
WCC	-	WATER COOLED CONDENSER
WF	-	WATER FILTER

DUCTWORK SPECIALTIES

- DUCT REHEAT COIL
- ACCESS DOOR
- BUTTERFLY TYPE VALVE WITH CONTROLLER LOCATED ON SIDE OF VALVE
- OR — BUTTERFLY TYPE VALVE WITH CONTROLLER ANGLED DOWN SEE DETAIL
- VENTURI VALVE WITH CONTROLLER LOCATED ON SIDE OF VALVE
- OR — VENTURI VALVE WITH CONTROLLER ANGLED DOWN SEE DETAIL
- FLEXIBLE DUCT
- DUCT FLEXIBLE CONNECTION
- 3/2 — POINT OF CHANGE IN DUCT CONSTRUCTION BY PRESSURE CLASS
- VAV SUPPLY AIR VALVE
- AM — AIR FLOW MEASURING STATION

MISCELLANEOUS

- POINT OF NEW CONNECTION TO EXISTING
- VIBRATION ISOLATOR

SPECIAL DESIGNATION

- P 1 — EQUIPMENT (PUMP INDICATED)
- 2 — SPECIALTY ITEMS (I.E. GAUGE FILTER, ETC.)
- REFER M-1 — PLAN CONTINUATION REFERENCE
- 1 M-1 — SECTION DESIGNATION (TOP DESIGNATES SECTION NUMBER, BOTTOM DESIGNATES ON WHICH SHEET SECTION APPEARS)
- MATCHLINE DESIGNATION
- CONNECT TO EXISTING
- POINT OF DISCONNECT
- 2 M-1 — DETAIL REFERENCE (TOP=DETAIL NO., BOTTOM=DRAWING NO. SHOWN ON)
- A/15B-6 OR A 15B-6 — DETAIL REFERENCE (TOP= DETAIL NO., BOTTOM=SHEET NO. IN DETAIL MANUAL)
- 1 — REVISION REFERENCE
- 1 — GENERAL OR SPECIAL NOTES REFERENCE
- 102 — ROOM NUMBER DESIGNATION
- 1001 — CONSTRUCTION BULLETIN REVISION NUMBER

VALVES

- BUTTERFLY VALVE
- GATE VALVE
- GLOBE VALVE
- BALL VALVE
- SHUTOFF VALVE (BUTTERFLY VALVE FOR 2 1/2" AND LARGER, BALL VALVE FOR 2" AND SMALLER)
- GAUGE VALVE
- PLUG VALVE
- BALANCING VALVE
- THERMAL EXPANSION VALVE
- SPRING CHECK VALVE
- SWING CHECK VALVE
- DIAPHRAGM VALVE
- S XX — 2-WAY SOLENOID CONTROL VALVE (VALVE BODY AS SPECIFIED)
- M XX — 2-WAY MOTOR CONTROL VALVE (VALVE BODY AS SPECIFIED)
- XX — 2-WAY CONTROL VALVE (VALVE BODY AS SPECIFIED)
- 3-WAY MIXING VALVE WITH ARROW INDICATING FAIL POSITION
- 3-WAY DIVERTING VALVE WITH ARROW INDICATING FAIL POSITION
- TRIPLE DUTY VALVE
- GAS SHUTOFF VALVE
- ANGLE VALVE
- DRAIN VALVE
- DRAIN VALVE WITH CAP
- LOCKSHIELD VALVE
- PRESSURE REDUCING VALVE-PRV (DOWNSTREAM SETPOINT)
- AIR-LOADED PRESSURE REDUCING VALVE-PRV (DOWNSTREAM SETPOINT)
- PRESSURE REDUCING VALVE-PRV (UPSTREAM SETPOINT)
- GAS REGULATOR
- OR BFP — REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)
- PRESSURE RELIEF VALVE (RV) OR SAFETY VALVE (SV)
- VACUUM RELIEF/VACUUM BREAKER
- RUPTURE DISK PRESSURE RELIEF
- RUPTURE DISK VACUUM RELIEF
- FLOAT OPERATED VALVE
- QUICK OPENING VALVE

(XX) = DEFINES FAIL POSITION OR NORMAL POSITION
(FC) = FAIL CLOSED (CONTROL VALVE OR DAMPER)
(FO) = FAIL OPEN (CONTROL VALVE OR DAMPER)
(NC) = NORMALLY CLOSED (CONTROL VALVE OR DAMPER)
(NO) = NORMALLY OPEN (CONTROL VALVE OR DAMPER)

DAMPERS

- MANUAL BALANCING DAMPER
- CONTROL DAMPER
- BD — BACKDRAFT DAMPER
- FA — 3 HOUR RATED FIRE DAMPER
- F — 1 1/2 HOUR RATED FIRE DAMPER
- BT OR — BUBBLE TIGHT DAMPER
- S — SMOKE DAMPER
- FS — COMBINATION FIRE/SMOKE DAMPER
- OPPOSED BLADE DAMPER
- PARALLEL BLADE DAMPER
- GENERAL

(XX) = DEFINES FAIL POSITION OR NORMAL POSITION
(FC) = FAIL CLOSED (CONTROL VALVE OR DAMPER)
(FO) = FAIL OPEN (CONTROL VALVE OR DAMPER)
(NC) = NORMALLY CLOSED (CONTROL VALVE OR DAMPER)
(NO) = NORMALLY OPEN (CONTROL VALVE OR DAMPER)

ACTUATORS

- MANUAL
- GENERAL
- MODULATING
- MODULATING WITH PILOT POSITIONER
- S — SOLENOID
- M — ELECTRIC MOTOR DRIVEN
- TWO POSITION SPRING RETURN
- DOUBLE ACTING TWO POSITION
- FUSIBLE LINK

DUCTWORK AT DIFFUSERS AND GRILLES

SINGLE LINE-HARD OR FLEXIBLE CONNECTION | DOUBLE LINE-HARD OR FLEXIBLE CONNECTION

- SUPPLY DIFFUSER OR GRILLE (HORIZONTAL MOUNT)
- ROUND DIFFUSER
- RETURN REGISTER OR GRILLE (HORIZONTAL MOUNT)
- EXHAUST REGISTER OR GRILLE (HORIZONTAL MOUNT)
- EXHAUST OR RETURN REGISTER OR GRILLE (VERTICAL MOUNT)
- SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT)

DIFFUSER NOTATION

DUCT SIZE IN INCHES
(NET INSIDE DIMENSIONS)
(ROUND SHOWN)
ø INDICATES ROUND.
-> or ## INDICATES OVAL.
FIRST FIGURE: SIDE SHOWN
SECOND FIGURE: SIDE NOT SHOWN

SUPPLY AIR DUCT

DIFFUSER AIR PATTERN
1 ARROW: 1 WAY
2 ARROWS: 2 WAY
3 ARROWS: 3 WAY
4 ARROWS: 4 WAY
NO ARROWS: 4 WAY

10ø SA — CD-1 450 — CEILING DIFFUSER (CD) IDENTIFICATION — AIR QUANTITY (CFM)

GRILLE, REGISTER NOTATION

EXHAUST AIR DUCT,
RETURN AIR DUCT (RA)

DUCT SIZE IN INCHES
(NET INSIDE DIMENSIONS)
FIRST FIGURE: SIDE SHOWN
SECOND FIGURE: SIDE NOT SHOWN

12x6 EA — G-1 250

RETURN OR EXHAUST GRILLE
(G) SUPPLY GRILLE (SG)
LINEAR DIFFUSER (LD)
LINEAR RET/EXH GRILLE (LG)
TRANSFER GRILLE (TG)

AIR QUANTITY (CFM)

DUCTWORK

SINGLE | DOUBLE

- RECTANGULAR/ROUND BRANCH TAKE-OFF OR ROUND/ROUND BRANCH TAKE-OFF
- W, R=1.5W — RADIUS ELBOW
- SQUARE ELBOW
- 45° LATERAL BRANCH
- R=1.5W, W — RADIUS TEE
- SQUARE TEE (FOR LOW PRESSURE SA DIVERGING ONLY)
- BULLHEAD TEE (FOR LOW PRESSURE SA DUCTWORK ONLY)
- 15° MAX. FOR DIVERGING, 25° MAX FOR CONVERGING TRANSITION - ECCENTRIC
- 15° MAX. FOR DIVERGING, 25° MAX FOR CONVERGING TRANSITION - CONCENTRIC
- EXISTING DUCT TO REMAIN
- EXISTING DUCT TO BE REMOVED
- LINE CONTINUATION BREAK (RECTANGULAR, ROUND)
- SUPPLY AIR (SA) OR OUTDOOR AIR (OA) DUCT (SOLID LINES TYPICAL FOR SUPPLY AIR AND OUTDOOR AIR UP, HIDDEN LINE DOWN)
- RETURN AIR (RA), RELIEF AIR, OR TRANSFER AIR (TA) DUCT (SOLID LINES TYPICAL FOR RETURN, RELIEF, OR TRANSFER AIR UP, HIDDEN LINE DOWN)
- EXHAUST AIR (EA) DUCT (SOLID LINES TYPICAL FOR EXHAUST AIR UP, HIDDEN LINE DOWN)
- DUCT RISE/DROP W/90° ELBOWS (SUPPLY RECTANGULAR DUCT SHOWN)
- D — DUCT RISE (R)/DROP(D) W/45° ELBOWS (RECTANGULAR DUCTS)
- DUCT RISE/DROP W/90° ELBOWS (ROUND DUCTS)
- DUCT RISE/DROP W/90° ELBOWS (OVAL DUCTS)
- D — DUCT RISE(R)/DROP(D) W/45° ELBOWS (ROUND OR OVAL DUCTS)

PIPING SYSTEM LABELS

BF	BOILER FEED	IA(XX)	INSTRUMENT AIR
BBD	BOILER BLOW DOWN	JWR	JACKET WATER RETURN
CA(XX)	COMPRESSED AIR	JWS	JACKET WATER SUPPLY
CCC	CONDENSATE COOLING COIL	LP	LIQUIFIED PETROLEUM GAS
CHS	CHILLED WATER SUPPLY	LOR	LUBRICATION OIL RETURN
CHR	CHILLED WATER RETURN	LOS	LUBRICATION OIL SUPPLY
CPD	CONDENSATE PUMP DISCHARGE	LPS	LOW PRESSURE STEAM
D	DRAIN	LPC	LOW PRESSURE CONDENSATE
DCW	DOMESTIC COLD WATER	MTCHR	MEDIUM TEMPERATURE CHILLED WATER RETURN
EERR	EXHAUST ENERGY RECOVERY RETURN	MTCHS	MEDIUM TEMPERATURE CHILLED WATER SUPPLY
EERS	EXHAUST ENERGY RECOVERY SUPPLY	NG	NATURAL GAS
FS	FUEL SUPPLY	NPCW	NON-POTABLE COLD WATER
FR	FUEL RETURN	PHWR	PREHEAT WATER RETURN
FOF	FUEL OIL FILL	PHWS	PREHEAT WATER SUPPLY
FOG	FUEL OIL GAUGE	SERR	SUPPLY ENERGY RECOVERY RETURN
FOR	FUEL OIL RETURN	SERS	SUPPLY ENERGY RECOVERY SUPPLY
FOS	FUEL OIL SUPPLY	RL	REFRIGERANT LIQUID
FOV	FUEL OIL VENT	ROS	REVERSE OSMOSIS SUPPLY
G	LOW PRESSURE GAS	RS	REFRIGERANT SUCTION
GWR	GLYCOL WATER RETURN	RHG	REFRIGERANT HOT GAS
GWS	GLYCOL WATER SUPPLY	RHWR	REHEAT HOT WATER RETURN
HPC	HIGH PRESSURE CONDENSATE	RHWS	REHEAT HOT WATER SUPPLY
HPG(XX)	HIGH PRESSURE GAS	TWR	TOWER WATER RETURN
HPS(XX)	HIGH PRESSURE STEAM	TWS	TOWER WATER SUPPLY
HWR	HEATING HOT WATER RETURN	V	VENT
HWS	HEATING HOT WATER SUPPLY		

(XX) = SYSTEM PRESSURE IN PSIG

PIPING SPECIALTIES

- GENERAL PIPELINE STRAINER WITHOUT DRAIN
- GENERAL PIPELINE STRAINER WITH DRAIN
- STEAM & CONDENSATE PIPELINE STRAINER
- WATER SYSTEM PIPELINE STRAINER
- SUCTION DIFFUSER
- DUPLEX STRAINER
- BASKET STRAINER
- FLANGE
- UNION
- 2" AND SMALLER, CAP OR PLUG 2-1/2" AND LARGER, BLIND FLANGE
- INVERTED BUCKET TRAP
- FLOAT AND THERMOSTATIC TRAP
- THERMOSTATIC TRAP
- EXPANSION JOINT
- PIPE FLEXIBLE CONNECTION
- BALL JOINT
- FILTER/REGULATOR
- THERMOMETER
- PRESSURE GAUGE (WITH GAUGE VALVE)
- FLOW SENSOR
- FLOW SWITCH
- AV OR — AUTOMATIC AIR VENT
- MANUAL AIR VENT
- THERMOSTATIC AIR VENT
- TEST PLUG (PRESSURE/TEMP.)
- ECCENTRIC REDUCER
- DIRECTION OF PITCH (DOWN)
- DIRECTION OF FLOW
- PIPE GUIDE
- PIPE SLEEVE
- ANCHOR

PIPING

SINGLE | DOUBLE

- ELBOW DOWN
- ELBOW UP
- BOTTOM CONNECTION (45° OR 90°)
- TOP CONNECTION (45° OR 90°)
- D — 45° PIPE RISE(R) /DROP(D)
- N/A — TEE (REFER TO SPECIFICATION FOR SIDE, TOP OR BOTTOM TEE)
- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- LINE CONTINUATION BREAK
- OR — ECCENTRIC REDUCER
- CONCENTRIC REDUCER

UNIT CONVERSIONS

PIPING CONVERSION

PIPE SIZES ARE NOTED IN MILLIMETERS.

PIPE SIZES ARE INDUSTRY STANDARD CARBON STEEL PIPE, STAINLESS STEEL PIPE, PLASTIC PIPE, AND COPPER TUBE DESIGNATED BY THEIR NOMINAL MILLIMETER DIAMETER EQUIVALENTS AS SHOWN BELOW.

Inch(es)	mm	Inch(es)	mm	Inch(es)	mm
1/2	15	3 1/2	90	16	400
3/4	20	4	100	18	450
1	25	5	125	20	500
1 1/4	32	6	150	22	550
1 1/2	40	8	200	24	600
2	50	10	250	30	750
2 1/2	65	12	300	36	900
3	75	14	350		

DUCTWORK CONVERSION

ALL DUCT DIMENSIONS ARE NOTED IN MILLIMETERS.

DUCT DIMENSION IN INCHES WILL CORRESPOND TO MILLIMETERS NOMINALLY AS SHOWN BELOW.

Inch(es)	mm	Inch(es)	mm	Inch(es)	mm
4	100	54	1350	104	2600
6	150	56	1400	106	2650
8	200	58	1450	108	2700
10	250	60	1500	110	2750
12	300	62	1550	112	2800
14	350	64	1600	114	2850
16	400	66	1650	116	2900
18	450	68	1700	118	2950
20	500	70	1750	120	3000
22	550	72	1800	122	3050
24	600	74	1850	124	3100
26	650	76	1900	126	3150
28	700	78	1950	128	3200
30	750	80	2000	130	3250
32	800	82	2050	132	3300
34	850	84	2100	134	3350
36	900	86	2150	136	3400
38	950	88	2200	138	3450
40	1000	90	2250	140	3500
42	1050	92	2300	142	3550
44	1100	94	2350	144	3600
46	1150	96	2400	146	3650
48	1200	98	2450	148	3700
50	1250	100	2500	150	3750
52	1300	102	2550	152	3800

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UNIVERSITY OF KENTUCKY
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UK Project Number 2499.0

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No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

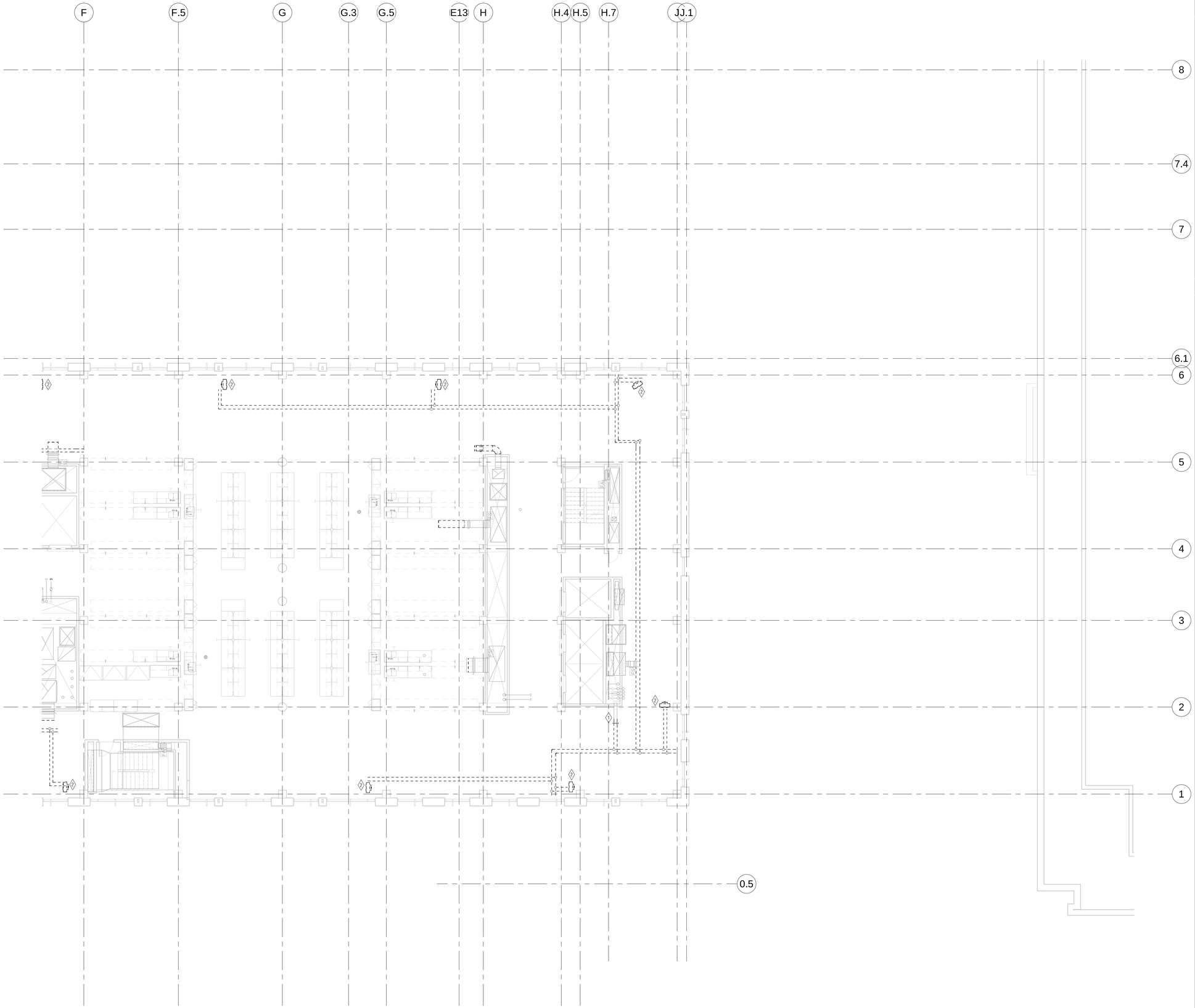
Drawn By	PP
Checked By	SF
Client Number	514
Project Number	15576

STATE OF KENTUCKY SCOTT FOSTER 31321 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
MECHANICAL FIT OUT SYMBOLS AND ABBREVIATIONS

SHEET NO.
MF-060

1/7/2021 5:45:51 PM

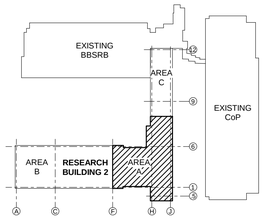


1 MF-156-A **MECHANICAL FIT OUT LEVEL SIX DEMOLITION PLAN AREA A**
1/8" = 1'-0"

0 4' 8' 16'
SCALE : 1/8" = 1'-0"

KEYED NOTES

1. DEMOLISH HOT WATER PIPING BACK TO POINT INDICATED. REMOVE ALL ASSOCIATED HANGERS, SUPPORTS AND ALL ASSOCIATED APPURTENANCES. MAKE EXISTING TO REMAIN PIPE AT LIMIT OF REMOVAL READY FOR NEW CONNECTION UNDER NEW WORK SCOPE.
2. DEMOLISH HOT WATER UNIT HEATER. UNIT HEATERS SHALL BE CLEANED AND KEPT IN GOOD WORKING ORDER FOR TURN-OVER TO OWNER.



KEY PLAN

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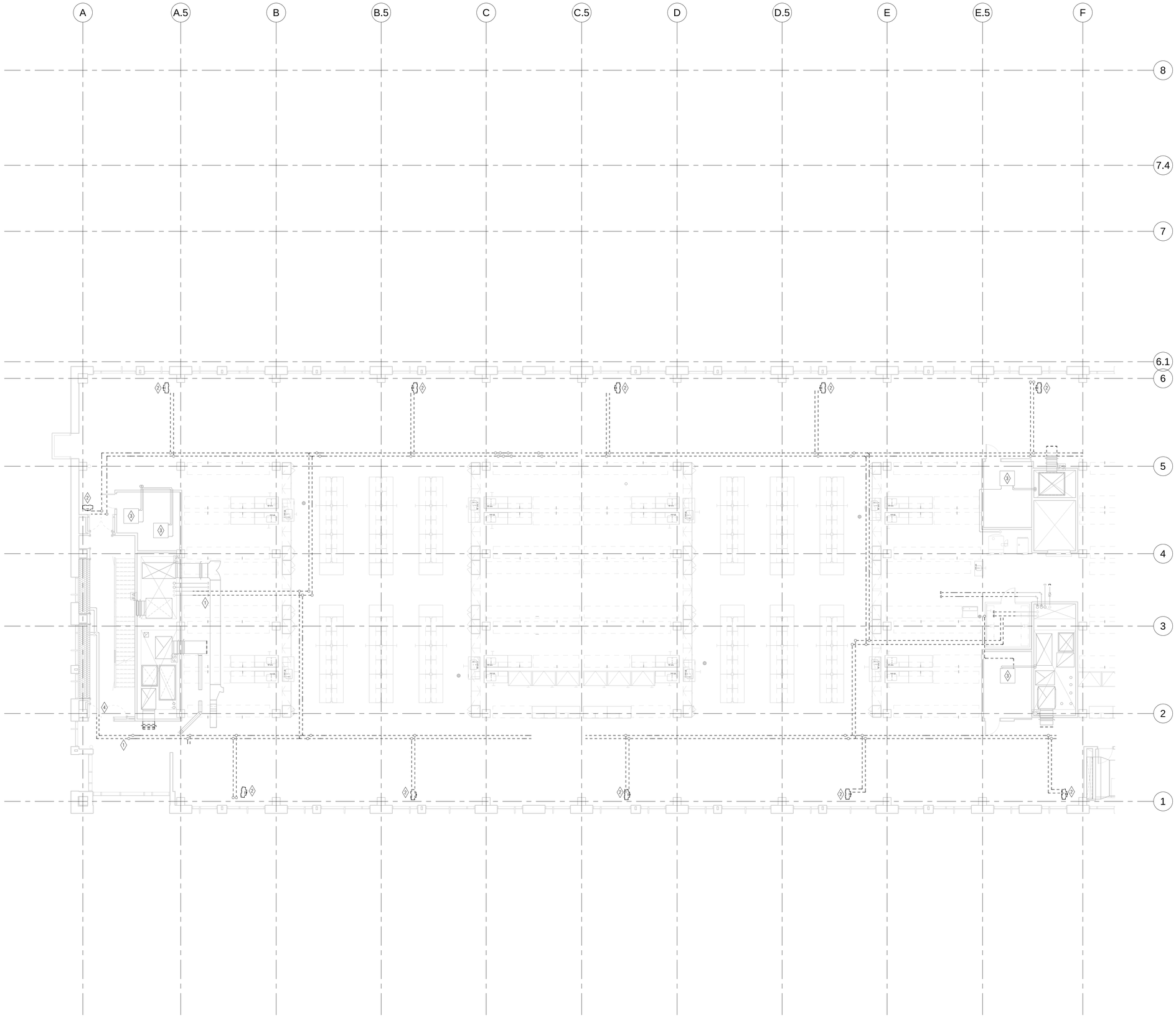
Drawn By TFM
Checked By DMS
Client Number 514
Project Number 15576

STATE OF KENTUCKY SCOTT FOSTER 31321 LICENSED PROFESSIONAL ENGINEER
1/7/2021

DRAWING
MECHANICAL FIT OUT LEVEL SIX DEMOLITION PLAN - AREA A

SHEET NO.
MF-156-A

1/7/2021 5:45:55 PM

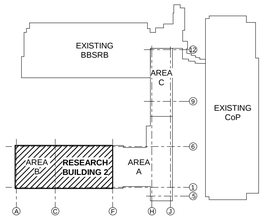


1 MECHANICAL FIT OUT LEVEL SIX DEMOLITION PLAN AREA B
MF-156-B 1/8" = 1'-0"

0 4' 8' 16'
SCALE : 1/8" = 1'-0"

KEYED NOTES

1. DEMOLISH HOT WATER PIPING BACK TO POINT INDICATED. REMOVE ALL ASSOCIATED HANGERS, SUPPORTS AND ALL ASSOCIATED APPURTENANCES. MAKE EXISTING TO REMAIN PIPE AT LIMIT OF REMOVAL READY FOR NEW CONNECTION UNDER NEW WORK SCOPE.
2. DEMOLISH HOT WATER UNIT HEATER. UNIT HEATERS SHALL BE CLEANED AND KEPT IN GOOD WORKING ORDER FOR TURN-OVER TO OWNER.
3. EXISTING TO REMAIN VARIABLE REFRIGERANT FLOW (VRF) COOLING UNIT AND ALL ASSOCIATED PIPING AND APPURTENANCES.
4. EXISTING REHEAT WATER PIPING TO EXISTING FIN TUBE. COORDINATE SHUT-DOWN OF SYSTEM WITH OWNER PRIOR TO DEMOLITION AND INSTALATION OF REHEAT WATER PIPING MAINS.



KEY PLAN

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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

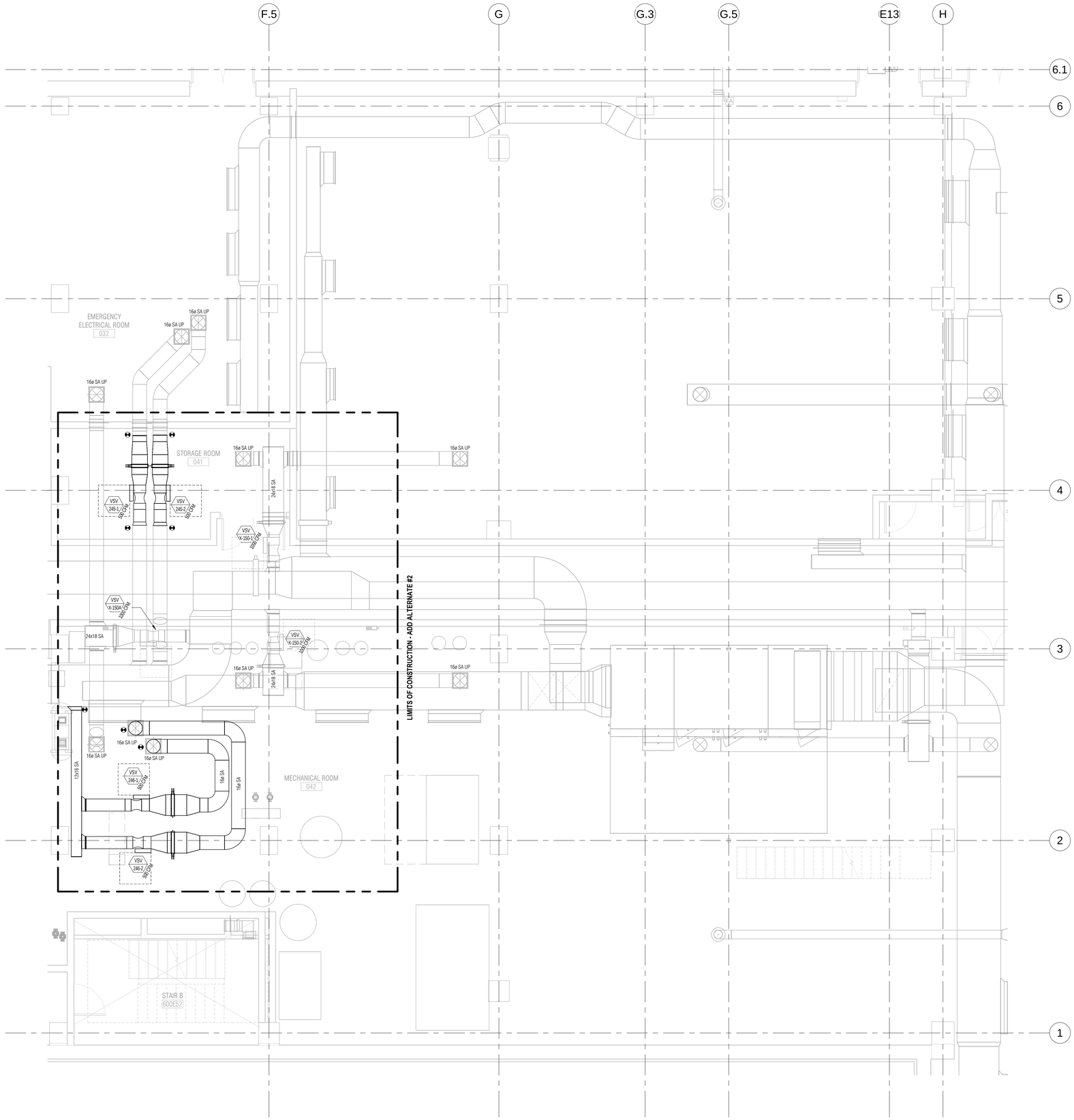
Drawn By TFM
Checked By DMS
Client Number 514
Project Number 15576

STATE OF KENTUCKY SCOTT FOSTER 31334 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
MECHANICAL FIT OUT LEVEL SIX DEMOLITION PLAN - AREA B

SHEET NO.
MF-156-B

1/7/2021 5:46:10 PM

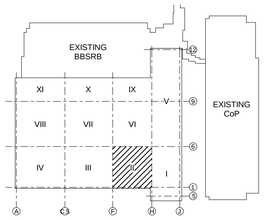


1 MF-260-II **MECHANICAL FIT OUT VENTILATION LOWER LEVEL FLOOR PLAN AREA II**
1/4" = 1'-0"

0 2' 4' 8'
SCALE : 1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE BALANCING DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKEOFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK. LOCATE BALANCING DAMPER AS CLOSE TO BRANCH TAKEOFF AS POSSIBLE.
2. DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE NOTED.
3. DUCT SIZE TO AIR TERMINAL DEVICES SHALL BE SAME AS AIR TERMINAL INLET UNLESS OTHERWISE NOTED OR SPECIFIED.
4. LOCATION OF CEILING MOUNTED DIFFUSERS, REGISTERS AND GRILLES SHALL BE AS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS (RCP). MAKE ADJUSTMENTS TO DUCT LAYOUT AS NECESSARY TO COORDINATE WITH RCP.
5. MAINTAIN WORKING CLEARANCE ON CONTROLLER SIDE OF EACH AIR TERMINAL UNLESS OTHERWISE SHOWN. COORDINATE PIPING AND OTHER TRADES TO MAINTAIN ACCESS TO CONTROLLER.
6. FLEXIBLE DUCT MAY NOT BE SHOWN. FLEXIBLE DUCT MAY BE USED FOR CONNECTIONS TO SUPPLY DIFFUSERS ABOVE ACCESSIBLE CEILINGS PER SECTION 23 3114. FLEXIBLE DUCT SHALL NOT EXCEED SIX FEET. FLEXIBLE DUCT SHALL NOT BE USED FOR EXHAUST SYSTEMS. REFER TO SECTION 23 3114 FOR ADDITIONAL REQUIREMENTS.
7. CRITICAL DAMPER LOCATIONS ARE SHOWN TO ENSURE PROPER LOCATION AND ACCESS. PROVIDE DAMPERS PER GENERAL NOTE 1 WHETHER SHOWN OR NOT.
8. PROVIDE 12" MINIMUM STRAIGHT LENGTH OF DUCT BETWEEN SUPPLY AIR TERMINAL AND REHEAT COIL FOR INSTALLATION OF ACCESS PANEL.
9. ALL NON-FIRE/SMOKE DAMPERED EXHAUST DUCTS SHALL BE COATED WITH CONQUEST-FIRESPRAY FROM THE POINT THEY ENTER THE RATED SHAFT TO THE UNDERSIDE OF THE ROOF SLAB. REFER TO SPECIFICATION FOR ALL REQUIREMENTS.
10. REFER TO AIR TERMINAL DEVICE SCHEDULES FOR SOUND ATTENUATING DEVICE REQUIREMENTS.
11. PROVIDE COMBINATION FIRE SMOKE DAMPER AT ALL DUCT PENETRATIONS TO SHAFTS
12. REFER TO SPECIFICATIONS FOR COMPLETE PROJECT SCOPE.
13. REFER TO DETAILS ON SHEETS MF850-MF853.
14. REFER TO SCHEDULES ON SHEETS MF960-MF961.



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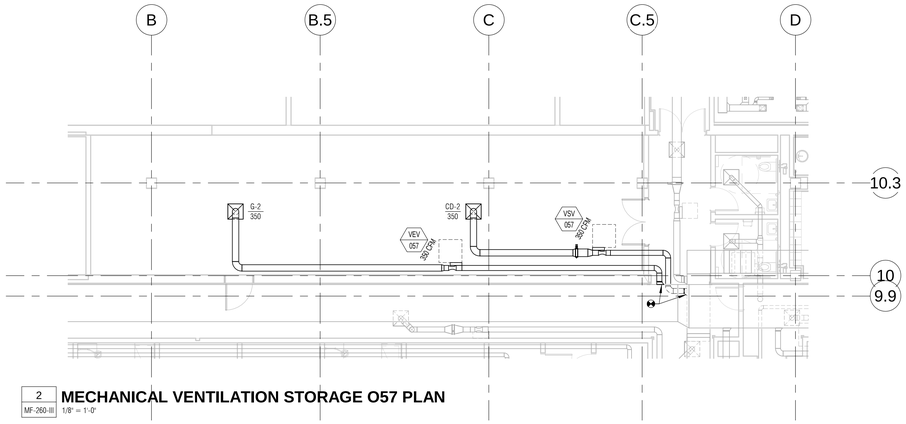
Drawn By: TFM
Checked By: DMS
Client Number: 514
Project Number: 15576

STATE OF KENTUCKY SCOTT FOSTER 31321 LICENSED PROFESSIONAL ENGINEER 1/7/2021

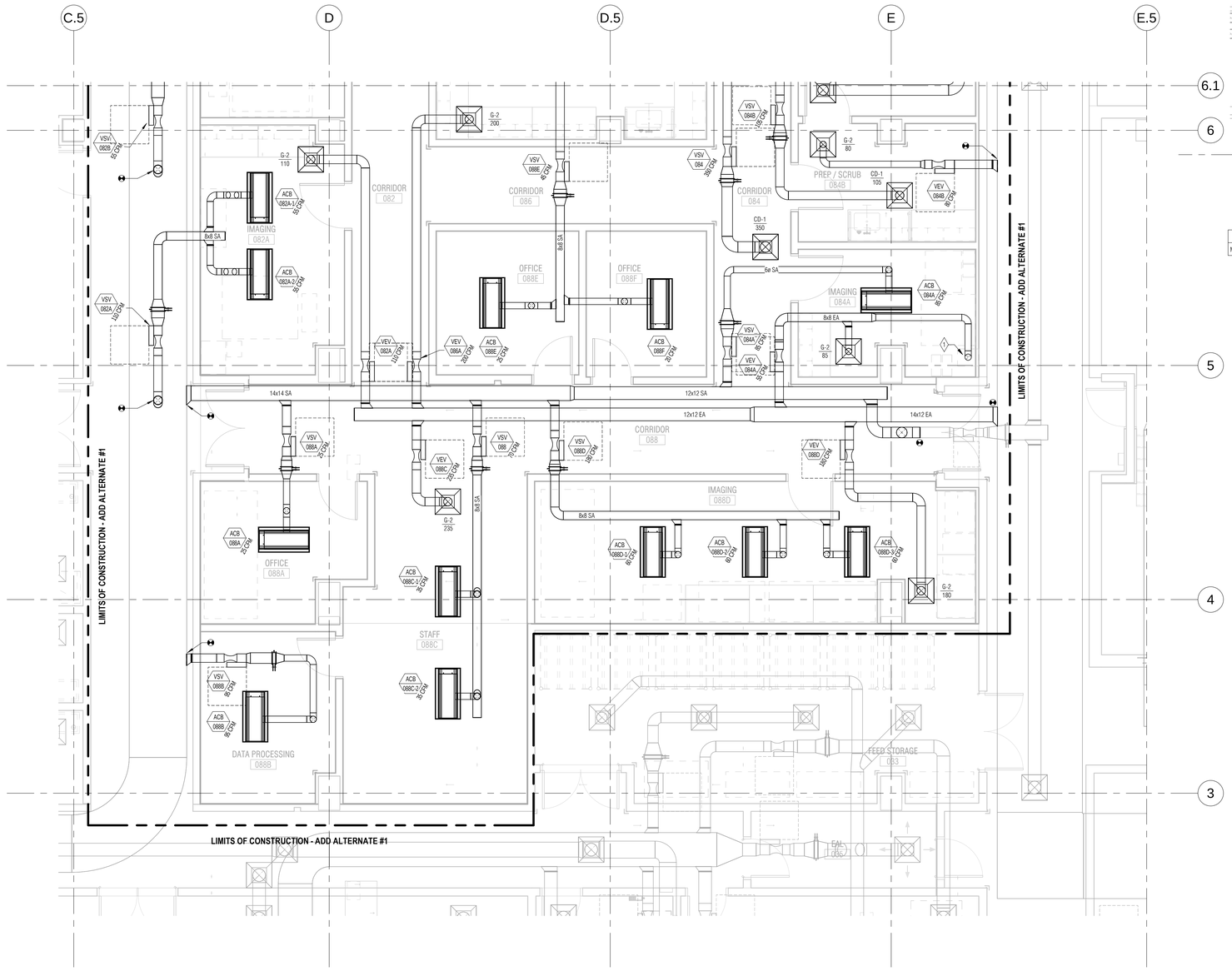
DRAWING
MECHANICAL FIT OUT VENTILATION LOWER LEVEL FLOOR PLAN - AREA II

SHEET NO.
MF-260-II

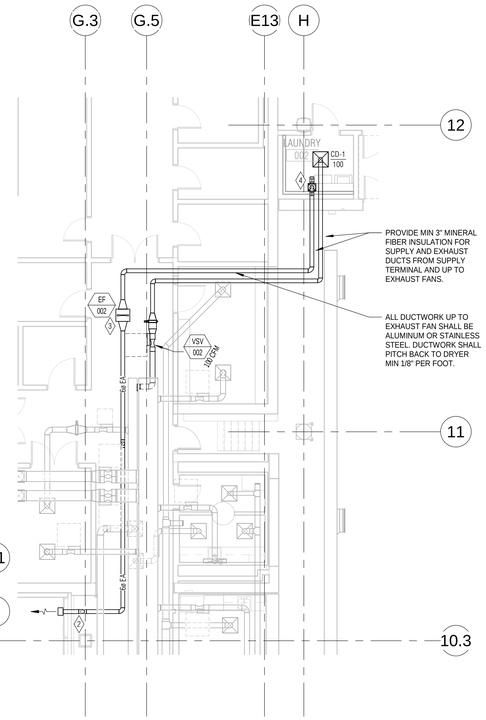
1/7/2021 6:45:21 PM



2 MF-260-III **MECHANICAL VENTILATION STORAGE O57 PLAN**
1/8" = 1'-0"



1 MF-260-III **MECHANICAL FIT OUT VENTILATION LOWER LEVEL FLOOR PLAN AREA III**
1/4" = 1'-0"



3 MF-260-III **MECHANICAL VENTILATION LAUNDRY 002 PLAN**
1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE BALANCING DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKEOFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK. LOCATE BALANCING DAMPER AS CLOSE TO BRANCH TAKEOFF AS POSSIBLE.
2. DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE NOTED.
3. DUCT SIZE TO AIR TERMINAL DEVICES SHALL BE SAME AS AIR TERMINAL INLET UNLESS OTHERWISE NOTED OR SPECIFIED.
4. LOCATION OF CEILING MOUNTED DIFFUSERS, REGISTERS AND GRILLES SHALL BE AS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS (RCP). MAKE ADJUSTMENTS TO DUCT LAYOUT AS NECESSARY TO COORDINATE WITH RCP.
5. MAINTAIN WORKING CLEARANCE ON CONTROLLER SIDE OF EACH AIR TERMINAL UNLESS OTHERWISE SHOWN. COORDINATE PIPING AND OTHER TRADES TO MAINTAIN ACCESS TO CONTROLLER.
6. FLEXIBLE DUCT MAY NOT BE SHOWN. FLEXIBLE DUCT MAY BE USED FOR CONNECTIONS TO SUPPLY DIFFUSERS ABOVE ACCESSIBLE CEILINGS PER SECTION 23 3114. FLEXIBLE DUCT SHALL NOT EXCEED SIX FEET. FLEXIBLE DUCT SHALL NOT BE USED FOR EXHAUST SYSTEMS. REFER TO SECTION 23 3114 FOR ADDITIONAL REQUIREMENTS.
7. CRITICAL DAMPER LOCATIONS ARE SHOWN TO ENSURE PROPER LOCATION AND ACCESS. PROVIDE DAMPERS PER GENERAL NOTE 1 WHETHER SHOWN OR NOT.
8. PROVIDE 12" MINIMUM STRAIGHT LENGTH OF DUCT BETWEEN SUPPLY AIR TERMINAL AND REHEAT COIL FOR INSTALLATION OF ACCESS PANEL.
9. ALL NON-FIRE/SMOKE DAMPERED EXHAUST DUCTS SHALL BE COATED WITH CONQUEST-FIRESPRAY FROM THE POINT THEY ENTER THE RATED SHAFT TO THE UNDERSIDE OF THE ROOF SLAB. REFER TO SPECIFICATION FOR ALL REQUIREMENTS.
10. REFER TO AIR TERMINAL DEVICE SCHEDULES FOR SOUND ATTENUATING DEVICE REQUIREMENTS.
11. PROVIDE COMBINATION FIRE SMOKE DAMPER AT ALL DUCT PENETRATIONS TO SHAFTS
12. REFER TO SPECIFICATIONS FOR COMPLETE PROJECT SCOPE.
13. REFER TO DETAILS ON SHEETS MF850-MF853.
14. REFER TO SCHEDULES ON SHEETS MF960-MF961.

KEYED NOTES

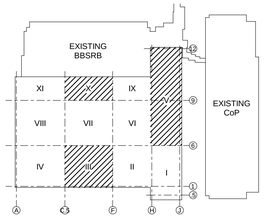
1 PROVIDE EXHAUST DUCT TO CONNECT TO LASER VENT. COORDINATE FINAL SIZE OF DUCT WITH MANUFACTURER AND OWNER.

2 DRYER VENT THROUGH EXTERIOR WALL TO DISCHARGE IN AREA WELL. PROVIDE LINT TRAP AND CLEANOUT BEFORE DISCHARGE. PROVIDE DRYER VENT CAP PAINTED DURANAR XLBC GRAPHITE GRAY.

3 PROVIDE DRYER VENT BOOSTER FAN WITH CURRENT SWITCH INTERLOCK. FAN TO BE LOCATED NO CLOSER THAN 15FT FROM THE CLOTHES DRYER. BASIS OF DESIGN - CONTINENTAL FAN, MODEL DVK100B-C. PROVIDE LINT TRAP. BOD MODEL - LT 100. LOCATED BEWTWEEN CLOTHES DRYER AND BOOSTER FAN.

4 PROVIDE 6" TAP AND BALANCING DAMPERS. BALANCE TO EXHAUST 100 CFM FROM THE ROOM.

0 2' 4' 8'
SCALE : 1/4" = 1'-0"



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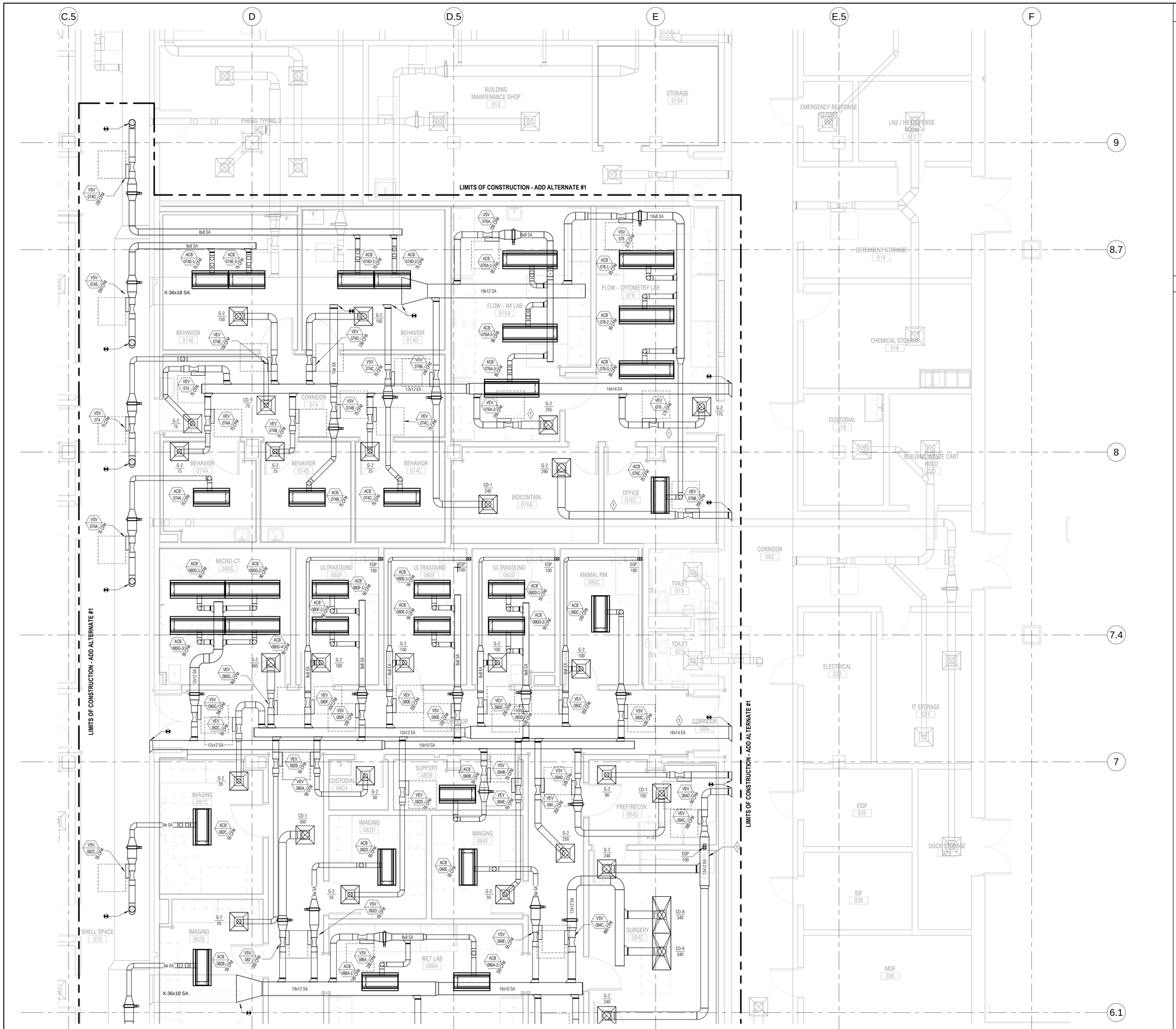
Drawn By TFM
Checked By DMS
Client Number 514
Project Number 15576

STATE OF KENTUCKY SCOTT OSAER 31331 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
MECHANICAL FIT OUT VENTILATION LOWER LEVEL FLOOR PLAN AREA III

SHEET NO.
MF-260-III

1/7/2021 5:46:35 PM



1 MECHANICAL FIT OUT VENTILATION LOWER LEVEL FLOOR PLAN AREA VII
MF-260-VII 1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE BALANCING DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKEOFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK. LOCATE BALANCING DAMPER AS CLOSE TO BRANCH TAKEOFF AS POSSIBLE.
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8. PROVIDE 12" MINIMUM STRAIGHT LENGTH OF DUCT BETWEEN SUPPLY AIR TERMINAL AND REHEAT COIL FOR INSTALLATION OF ACCESS PANEL.
9. ALL NON-FIRE/SMOKE DAMPERED EXHAUST DUCTS SHALL BE COATED WITH CONQUEST-FIRESPRAY FROM THE POINT THEY ENTER THE RATED SHAFT TO THE UNDERSIDE OF THE ROOF SLAB. REFER TO SPECIFICATION FOR ALL REQUIREMENTS.
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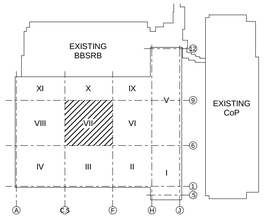
11. PROVIDE COMBINATION FIRE SMOKE DAMPER AT ALL DUCT PENETRATIONS TO SHAFTS
12. REFER TO SPECIFICATIONS FOR COMPLETE PROJECT SCOPE.
13. REFER TO DETAILS ON SHEETS MF850-MF853.
14. REFER TO SCHEDULES ON SHEETS MF960-MF961.

KEYED NOTES

1 PROVIDE GENERAL EXHAUST AIR DUCT SENSOR PROBE FOR FACILITY AIR MONITORING SYSTEM



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Drawn By: TFM
Checked By: DMS
Client Number: 514
Project Number: 15576

STATE OF KENTUCKY SCOTT OSBORN 31335 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
MECHANICAL FIT OUT VENTILATION LOWER LEVEL FLOOR PLAN - AREA VII

SHEET NO.
MF-260-VII

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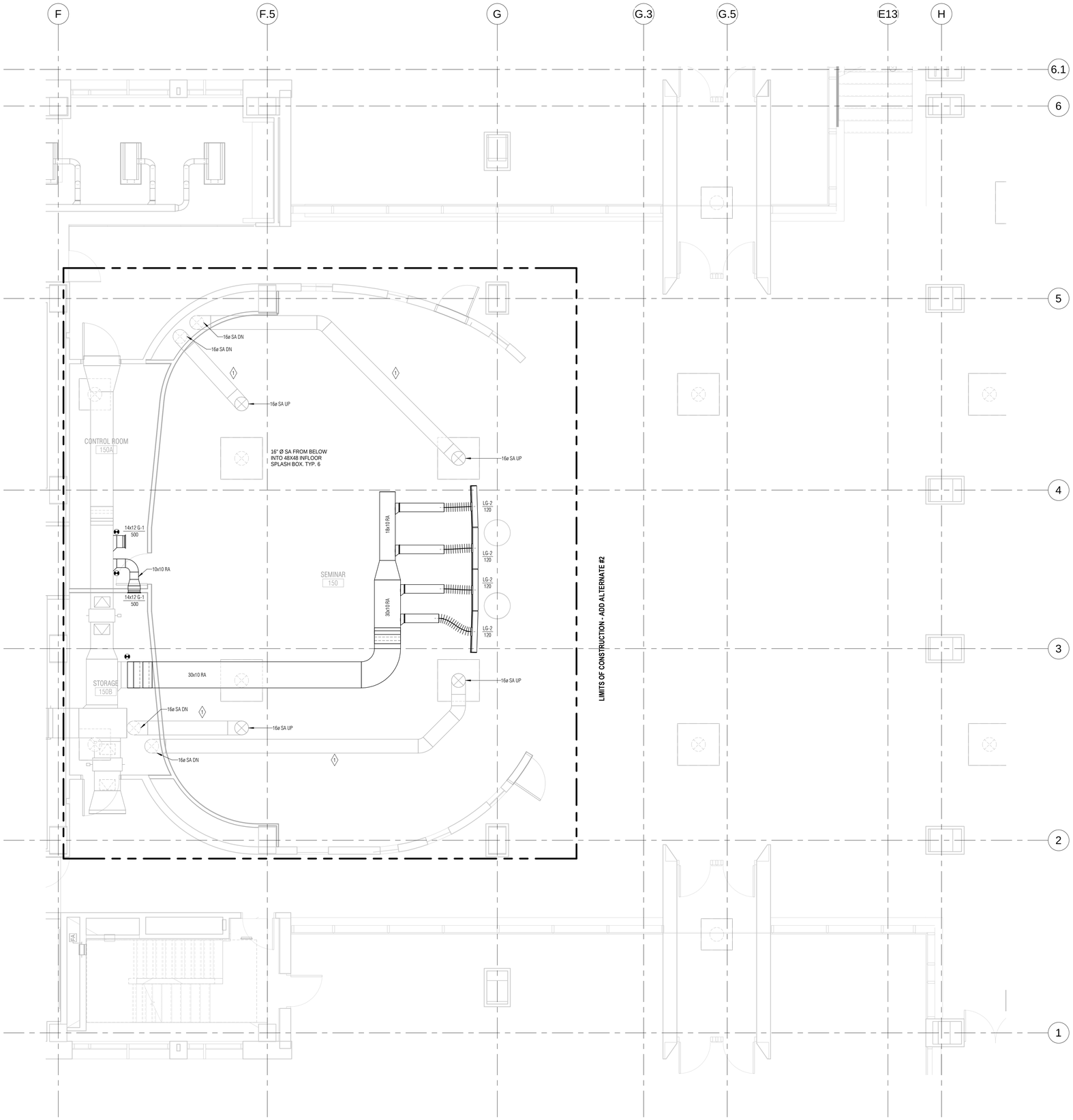

1 MF-261-II **MECHANICAL FIT OUT VENTILATION LEVEL ONE FLOOR PLAN AREA II**

1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE BALANCING DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKEOFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK. LOCATE BALANCING DAMPER AS CLOSE TO BRANCH TAKEOFF AS POSSIBLE.
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7. CRITICAL DAMPER LOCATIONS ARE SHOWN TO ENSURE PROPER LOCATION AND ACCESS. PROVIDE DAMPERS PER GENERAL NOTE 1 WHETHER SHOWN OR NOT.
8. PROVIDE 12" MINIMUM STRAIGHT LENGTH OF DUCT BETWEEN SUPPLY AIR TERMINAL AND REHEAT COIL FOR INSTALLATION OF ACCESS PANEL.
9. ALL NON-FIRE/SMOKE DAMPERED EXHAUST DUCTS SHALL BE COATED WITH CONQUEST-FIRESPRAY FROM THE POINT THEY ENTER THE RATED SHAFT TO THE UNDERSIDE OF THE ROOF SLAB. REFER TO SPECIFICATION FOR ALL REQUIREMENTS.
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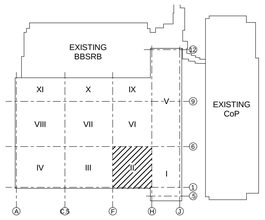
11. PROVIDE COMBINATION FIRE SMOKE DAMPER AT ALL DUCT PENETRATIONS TO SHAFTS.
12. REFER TO SPECIFICATIONS FOR COMPLETE PROJECT SCOPE.
13. REFER TO DETAILS ON SHEETS MF850-MF853.
14. REFER TO SCHEDULES ON SHEETS MF960-MF961.

KEYED NOTES

1 PROVIDE AND INSTALL FIRE RESISTIVE DUCT WRAP FOR THE ENTIRE RUN OF 16" SUPPLY AIR DUCTWORK FROM LEVEL ONE FLOOR TO LEVEL TWO SLAB ABOVE. REFER TO SPECIFICATION SECTION 20700 MECHANICAL SYSTEMS INSULATION FOR ALL PRODUCT AND INSTALLATION REQUIREMNETS.

0 2' 4' 8'

SCALE : 1/4" = 1'-0"



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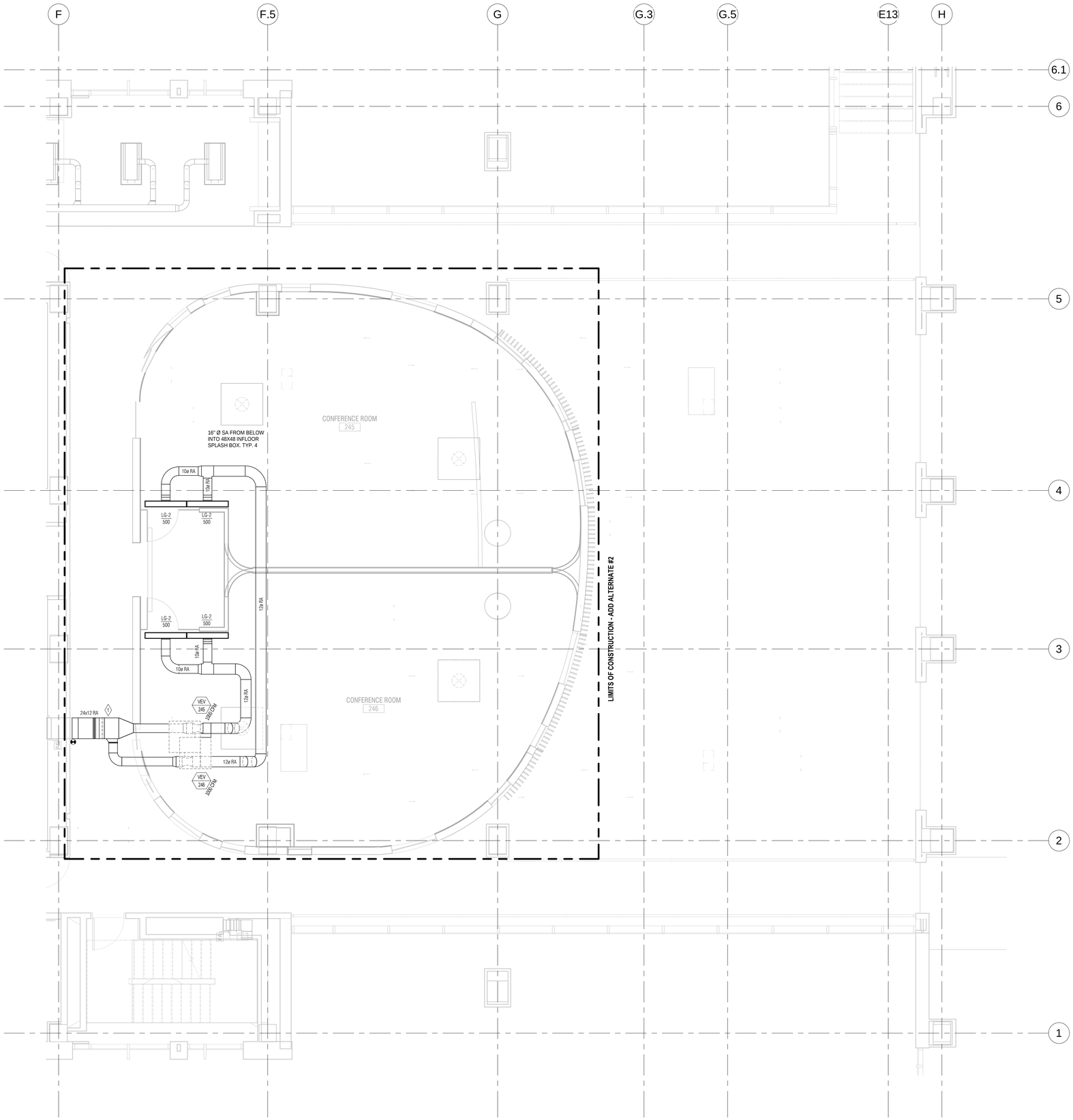
Checked By DMS	
Client Number 514	
Project Number 15576	

DRAWING
MECHANICAL FIT OUT VENTILATION LEVEL ONE FLOOR PLAN AREA II

SHEET NO.
MF-261-II

1/7/2021 5:46:59 PM



1 MF-262-II **MECHANICAL FIT OUT VENTILATION LEVEL TWO FLOOR PLAN AREA II**
1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE BALANCING DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKEOFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK. LOCATE BALANCING DAMPER AS CLOSE TO BRANCH TAKEOFF AS POSSIBLE.
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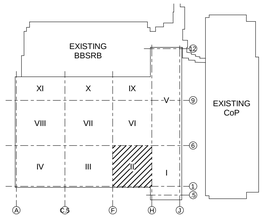
13. REFER TO DETAILS ON SHEETS MF850-MF853.
14. REFER TO SCHEDULES ON SHEETS MF960-MF961.

KEYED NOTES

1 WRAP 24x12 EXHAUST AIR DUCT WITH MASS LOADED VINYL FROM FIRE DAMPER UP TO AIR TERMINAL UNITS. PROVIDE OPENING FOR FIRE DAMPER ACCESS.

0 2' 4' 8'
SCALE : 1/4" = 1'-0"



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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

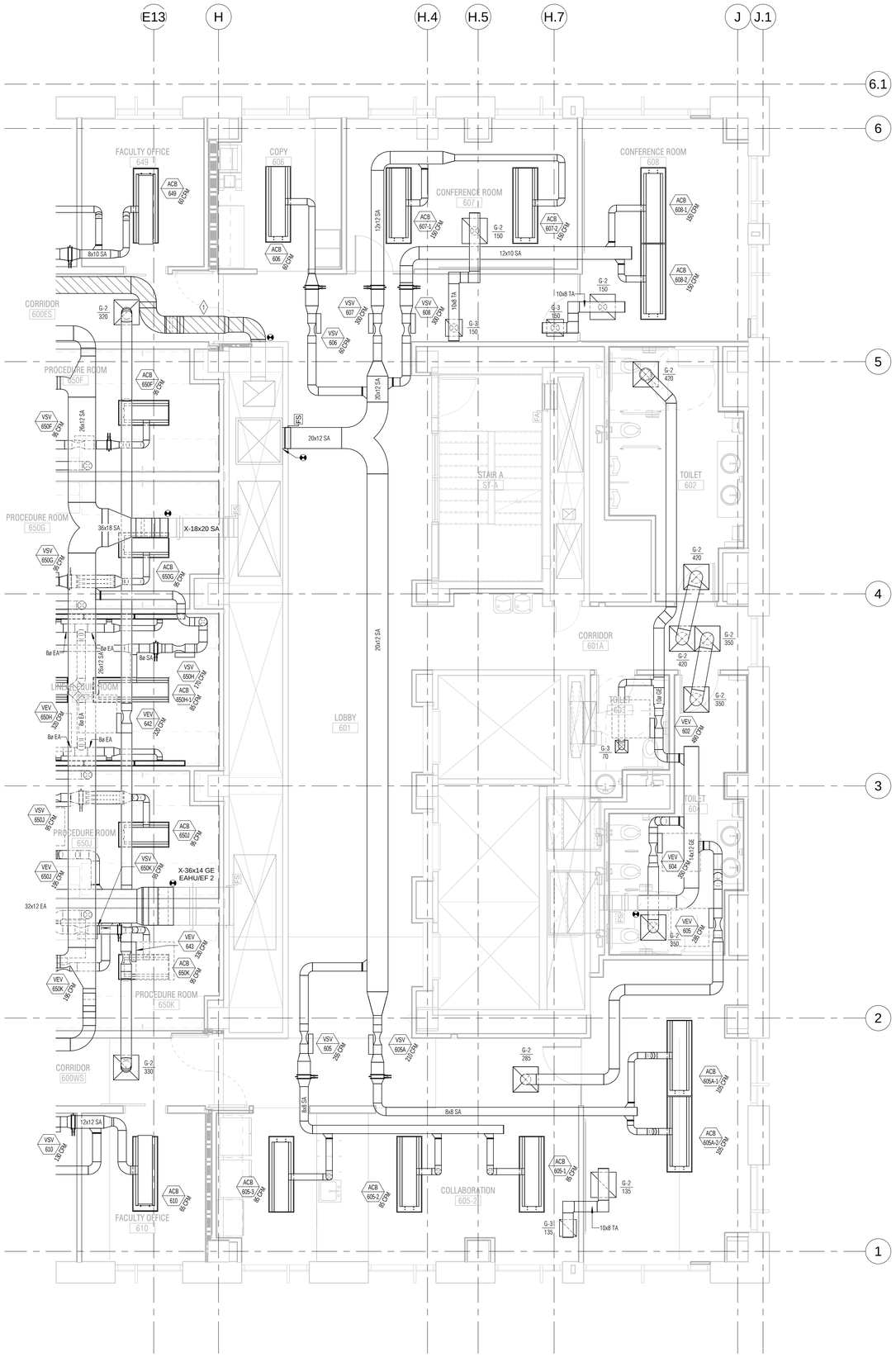
Drawn By TFM
Checked By DMS
Client Number 514
Project Number 15576

STATE OF KENTUCKY SCOTT FOSATE 31327 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
MECHANICAL FIT OUT VENTILATION LEVEL TWO FLOOR PLAN AREA II

SHEET NO.
MF-262-II

1/7/2021 5:47:09 PM

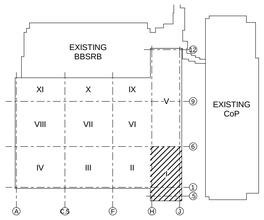


1 MF-266-I **MECHANICAL FIT OUT VENTILATION LEVEL SIX FLOOR PLAN AREA I**
1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE BALANCING DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKEOFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK. LOCATE BALANCING DAMPER AS CLOSE TO BRANCH TAKEOFF AS POSSIBLE.
2. DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE NOTED.
3. DUCT SIZE TO AIR TERMINAL DEVICES SHALL BE SAME AS AIR TERMINAL INLET UNLESS OTHERWISE NOTED OR SPECIFIED.
4. LOCATION OF CEILING MOUNTED DIFFUSERS, REGISTERS AND GRILLES SHALL BE AS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS (RCP). MAKE ADJUSTMENTS TO DUCT LAYOUT AS NECESSARY TO COORDINATE WITH RCP.
5. MAINTAIN WORKING CLEARANCE ON CONTROLLER SIDE OF EACH AIR TERMINAL UNLESS OTHERWISE SHOWN. COORDINATE PIPING AND OTHER TRADES TO MAINTAIN ACCESS TO CONTROLLER.
6. FLEXIBLE DUCT MAY NOT BE SHOWN. FLEXIBLE DUCT MAY BE USED FOR CONNECTIONS TO SUPPLY DIFFUSERS ABOVE ACCESSIBLE CEILINGS PER SECTION 23 3114. FLEXIBLE DUCT SHALL NOT EXCEED SIX FEET. FLEXIBLE DUCT SHALL NOT BE USED FOR EXHAUST SYSTEMS. REFER TO SECTION 23 3114 FOR ADDITIONAL REQUIREMENTS.
7. CRITICAL DAMPER LOCATIONS ARE SHOWN TO ENSURE PROPER LOCATION AND ACCESS. PROVIDE DAMPERS PER GENERAL NOTE 1 WHETHER SHOWN OR NOT.
8. PROVIDE 12" MINIMUM STRAIGHT LENGTH OF DUCT BETWEEN SUPPLY AIR TERMINAL AND REHEAT COIL FOR INSTALLATION OF ACCESS PANEL.
9. ALL NON-FIRE/SMOKE DAMPERED EXHAUST DUCTS SHALL BE COATED WITH CONQUEST-FIRESPRAY FROM THE POINT THEY ENTER THE RATED SHAFT TO THE UNDERSIDE OF THE ROOF SLAB. REFER TO SPECIFICATION FOR ALL REQUIREMENTS.
10. REFER TO AIR TERMINAL DEVICE SCHEDULES FOR SOUND ATTENUATING DEVICE REQUIREMENTS.
11. PROVIDE COMBINATION FIRE SMOKE DAMPER AT ALL DUCT PENETRATIONS TO SHAFTS
12. REFER TO SPECIFICATIONS FOR COMPLETE PROJECT SCOPE.
13. REFER TO DETAILS ON SHEETS MF850-MF853.
14. REFER TO SCHEDULES ON SHEETS MF960-MF961.

0 2' 4' 8'
SCALE : 1/4" = 1'-0"



KEY PLAN

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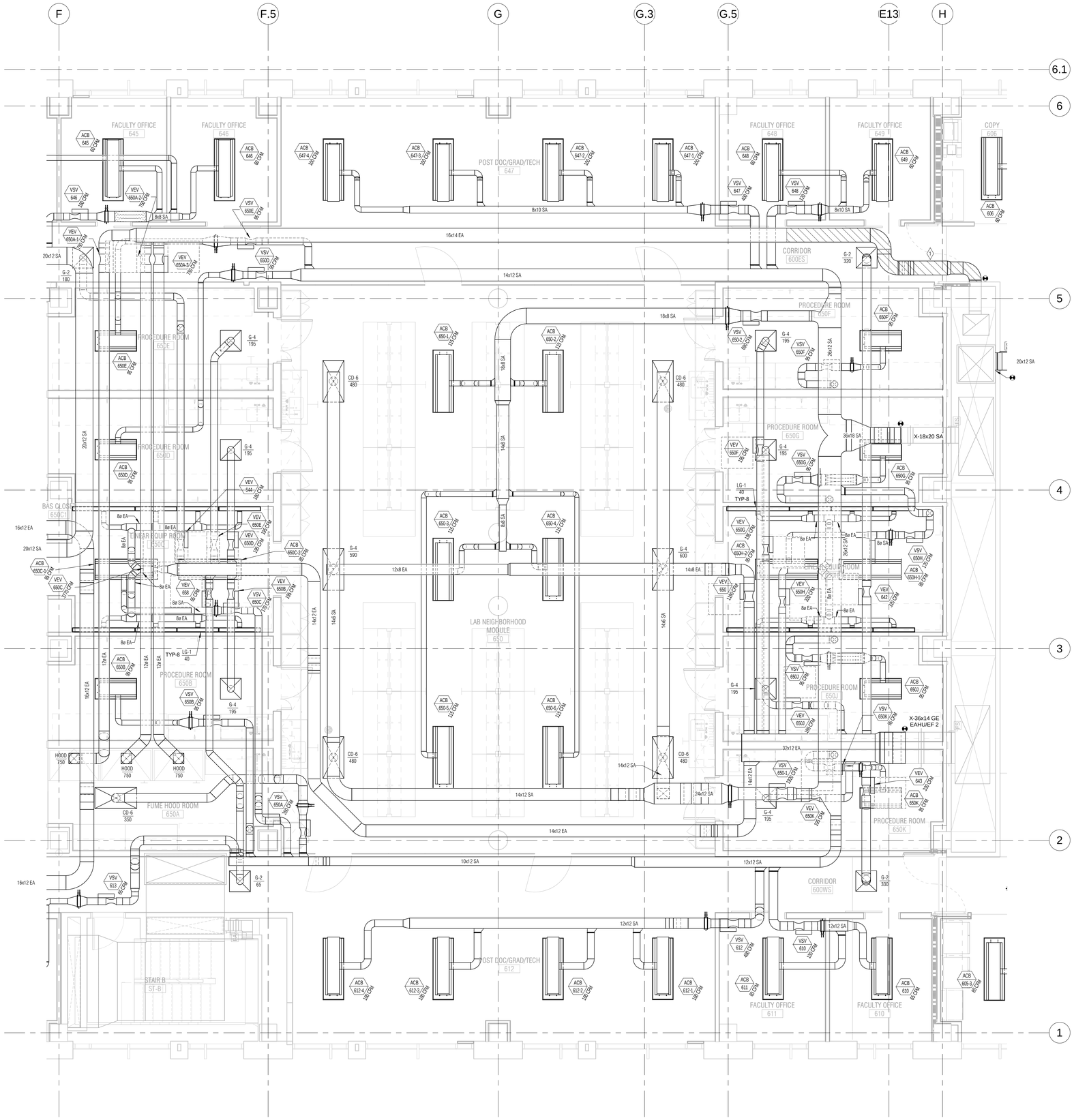
Checked By DMS
Client Number 514
Project Number 15576

STATE OF KENTUCKY
SCOTT FOSAFER
31321
LICENSED PROFESSIONAL ENGINEER
1/7/2021

DRAWING
MECHANICAL FIT OUT VENTILATION LEVEL SIX FLOOR PLAN AREA I

SHEET NO.
MF-266-I

1/7/2021 5:47:19 PM



1 MF-266-II **MECHANICAL FIT OUT VENTILATION LEVEL SIX FLOOR PLAN AREA II**
1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE BALANCING DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKEOFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK. LOCATE BALANCING DAMPER AS CLOSE TO BRANCH TAKEOFF AS POSSIBLE.
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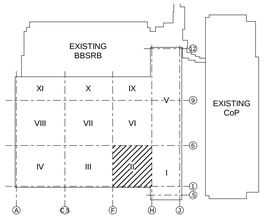
5. MAINTAIN WORKING CLEARANCE ON CONTROLLER SIDE OF EACH AIR TERMINAL UNLESS OTHERWISE SHOWN. COORDINATE PIPING AND OTHER TRADES TO MAINTAIN ACCESS TO CONTROLLER.
6. FLEXIBLE DUCT MAY NOT BE SHOWN. FLEXIBLE DUCT MAY BE USED FOR CONNECTIONS TO SUPPLY DIFFUSERS ABOVE ACCESSIBLE CEILINGS PER SECTION 23 3114. FLEXIBLE DUCT SHALL NOT EXCEED SIX FEET. FLEXIBLE DUCT SHALL NOT BE USED FOR EXHAUST SYSTEMS. REFER TO SECTION 23 3114 FOR ADDITIONAL REQUIREMENTS.
7. CRITICAL DAMPER LOCATIONS ARE SHOWN TO ENSURE PROPER LOCATION AND ACCESS. PROVIDE DAMPERS PER GENERAL NOTE 1 WHETHER SHOWN OR NOT.
8. PROVIDE 12" MINIMUM STRAIGHT LENGTH OF DUCT BETWEEN SUPPLY AIR TERMINAL AND REHEAT COIL FOR INSTALLATION OF ACCESS PANEL.
9. ALL NON-FIRE/SMOKE DAMPERED EXHAUST DUCTS SHALL BE COATED WITH CONQUEST-FIRESPRAY FROM THE POINT THEY ENTER THE RATED SHAFT TO THE UNDERSIDE OF THE ROOF SLAB. REFER TO SPECIFICATION FOR ALL REQUIREMENTS.
10. REFER TO AIR TERMINAL DEVICE SCHEDULES FOR SOUND ATTENUATING DEVICE REQUIREMENTS.
11. PROVIDE COMBINATION FIRE SMOKE DAMPER AT ALL DUCT PENETRATIONS TO SHAFTS
12. REFER TO SPECIFICATIONS FOR COMPLETE PROJECT SCOPE.
13. REFER TO DETAILS ON SHEETS MF850-MF853.
14. REFER TO SCHEDULES ON SHEETS MF960-MF961.



0 2' 4' 8'
SCALE : 1/4" = 1'-0"

KEY PLAN

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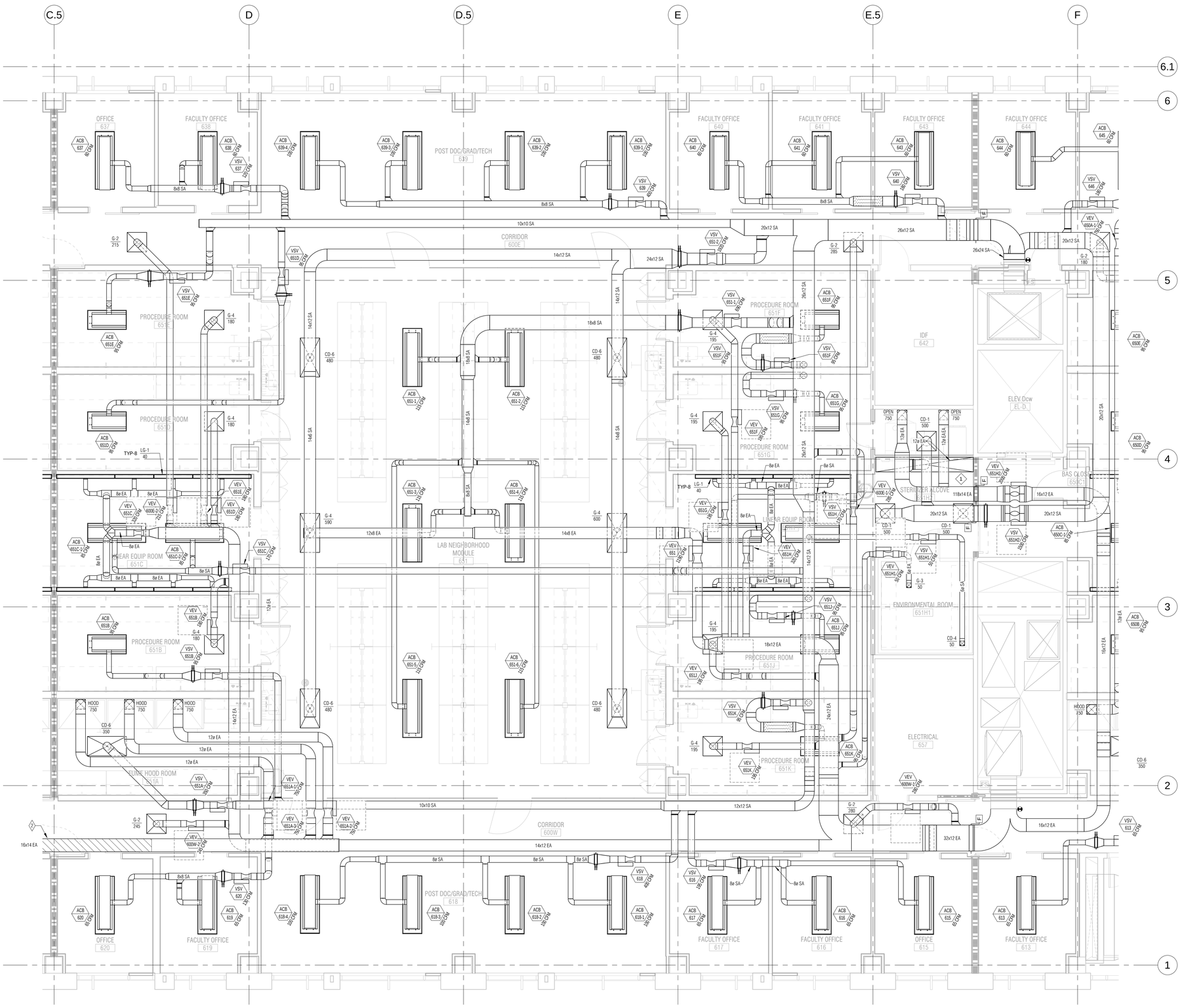
Drawn By: TFM
Checked By: DMS
Client Number: 514
Project Number: 15576

STATE OF KENTUCKY — SCOTT FOSTER — 31321 — LICENSED PROFESSIONAL ENGINEER — 1/7/2021

DRAWING
MECHANICAL FIT OUT VENTILATION LEVEL SIX FLOOR PLAN AREA II

SHEET NO.
MF-266-II

1/7/2021 5:47:32 PM



1 MF-266-III **MECHANICAL FIT OUT VENTILATION LEVEL SIX FLOOR PLAN AREA III**
1/4" = 1'-0"

0 2' 4' 8'
SCALE : 1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE BALANCING DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKEOFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK. LOCATE BALANCING DAMPER AS CLOSE TO BRANCH TAKEOFF AS POSSIBLE.
2. DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE NOTED.
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5. MAINTAIN WORKING CLEARANCE ON CONTROLLER SIDE OF EACH AIR TERMINAL UNLESS OTHERWISE SHOWN. COORDINATE PIPING AND OTHER TRADES TO MAINTAIN ACCESS TO CONTROLLER.
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8. PROVIDE 12" MINIMUM STRAIGHT LENGTH OF DUCT BETWEEN SUPPLY AIR TERMINAL AND REHEAT COIL FOR INSTALLATION OF ACCESS PANEL.
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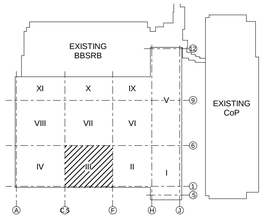
12. REFER TO SPECIFICATIONS FOR COMPLETE PROJECT SCOPE.
13. REFER TO DETAILS ON SHEETS MF850-MF853.
14. REFER TO SCHEDULES ON SHEETS MF960-MF961.

KEYED NOTES

1 CANOPY HOOD 500 CFM. COORDINATE MODULAR LOUVER WALL WITH ARCHITECT. REFER TO DETAIL 7/MF-855.

2 PROVIDE CONQUEST FIRE SPRAY OR SIMILAR PRODUCT ON EXHAUST DUCTWORK 10-0" ON EACH SIDE OF FIRE WALL. REFER TO SPECIFICATIONS FOR ALL PRODUCT AND INSTALLATION REQUIREMENTS.



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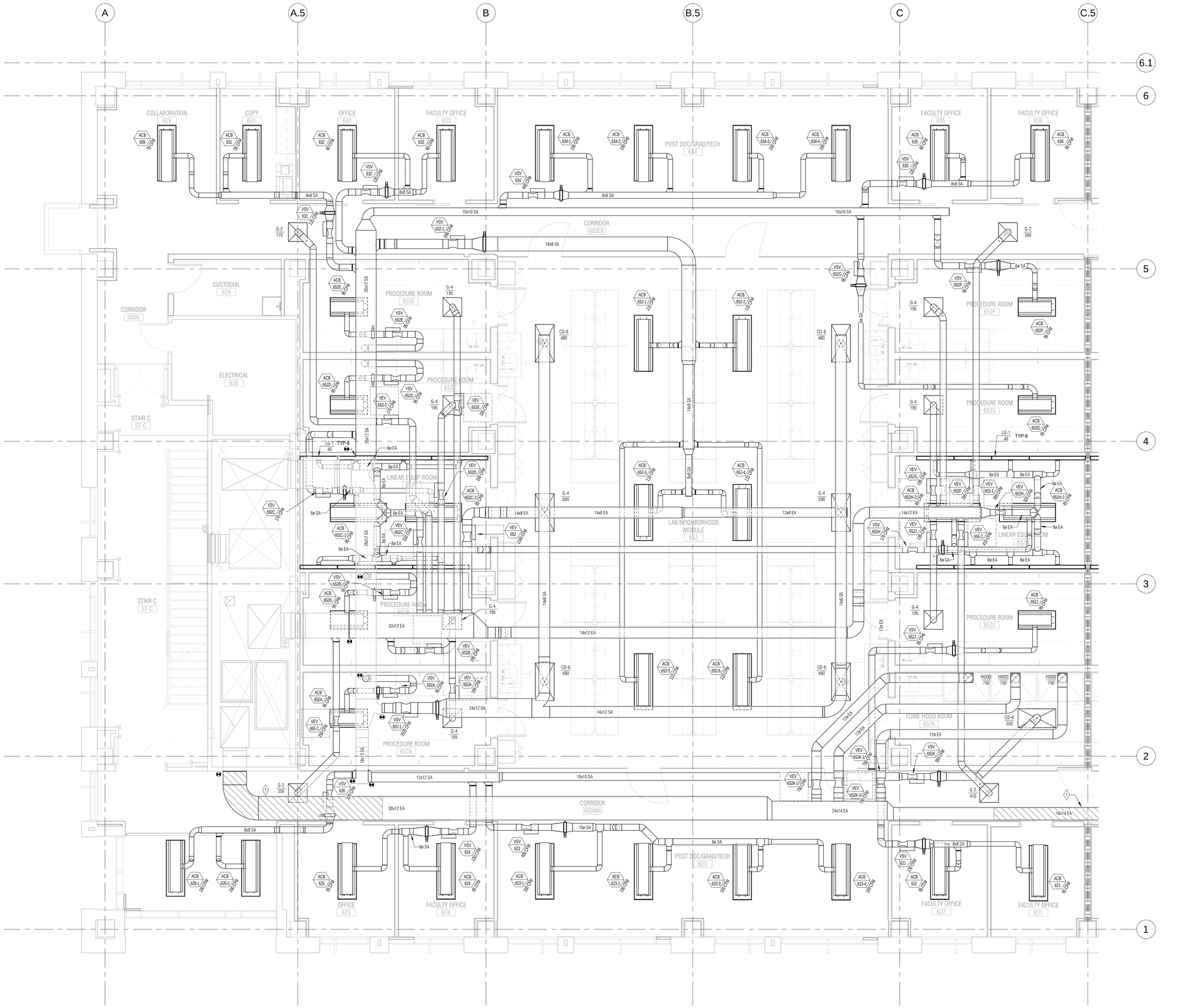
Checked By DMS
Client Number 514
Project Number 15576

STATE OF KENTUCKY SCOTT FOSTER 31321 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
MECHANICAL FIT OUT VENTILATION LEVEL SIX FLOOR PLAN AREA III

SHEET NO.
MF-266-III

1/7/2021 5:47:49 PM



1 MF-266-IV **MECHANICAL FIT OUT VENTILATION LEVEL SIX FLOOR PLAN AREA IV**
1/4" = 1'-0"

0 2' 4' 8'
SCALE : 1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE BALANCING DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKEOFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK. LOCATE BALANCING DAMPER AS CLOSE TO BRANCH TAKEOFF AS POSSIBLE.
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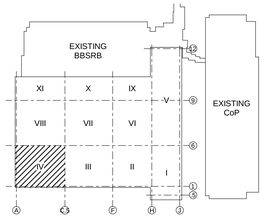

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Checked By: DMS
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STATE OF KENTUCKY SCOTT FOSTER 31321 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
MECHANICAL FIT OUT VENTILATION LEVEL SIX FLOOR PLAN AREA IV

SHEET NO.
MF-266-IV

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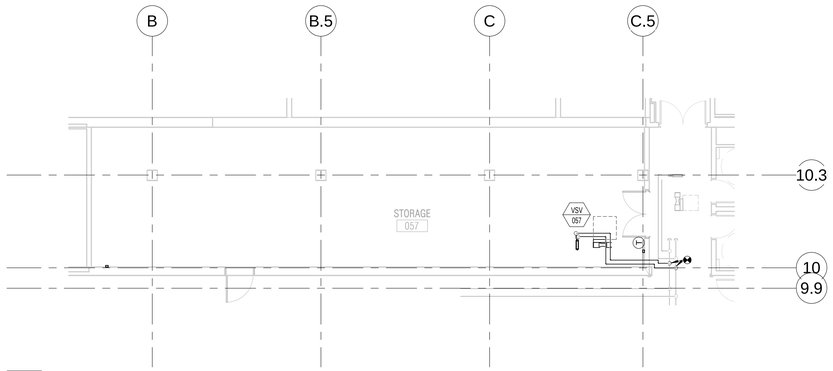
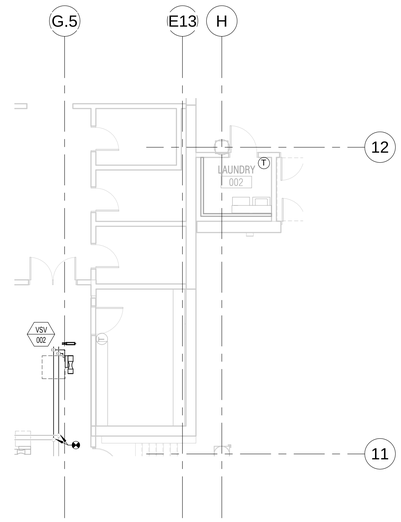
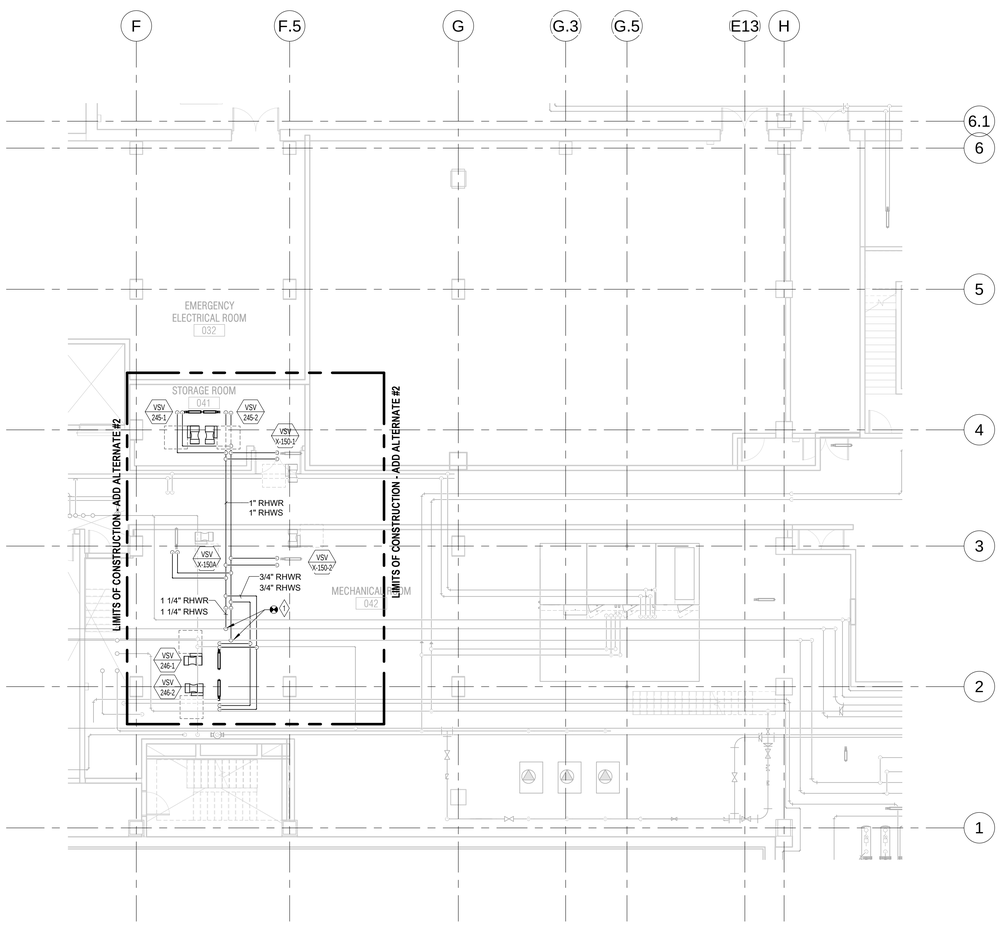


3 MF-360-A **MECHANICAL FIT-OUT PIPING LOWER LEVEL - STORAGE 057**
1/8" = 1'-0"



2 MF-360-A **MECHANICAL FIT OUT PIPING LOWER LEVEL - LAUNDRY 002**
1/8" = 1'-0"



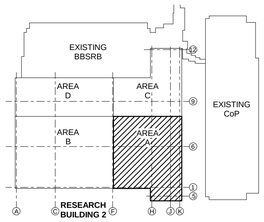
1 MF-360-A **MECHANICAL FIT OUT PIPING LOWER LEVEL FLOOR PLAN AREA A**
1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE BRANCH PIPING FOR ALL NEW CHILLED BEAMS AND TERMINAL UNITS. BRANCH PIPING TO CHILLED BEAMS AND TERMINAL UNITS SHALL BE MIN 3/4" UNLESS OTHERWISE NOTED.
2. ALL PIPE PENETRATIONS THROUGH 1-HOUR RATED PARTITIONS SHALL BE FIRESTOPPED PER UL DETAILS TO ACHIEVE A 1-HOUR RATING.
3. DRAIN PIPING SHALL BE SLOPED DOWN IN THE DIRECTION OF FLOW AT 1/8" PER 1'-0".
4. COORDINATE EXACT LOCATION OF WALL MOUNTED THERMOSTATS, HUMIDISTATS AND CARBON DIOXIDE SENSORS WITH ARCHITECURAL PLANS AND ELEVATIONS. MINIMUM MOUNTING HEIGHT TO BE 48" AFF.
5. CONTROL VALVE LOCATIONS ARE ONLY SHOWN FOR CONTROL ZONES SERVING MULTIPLE CHILLED BEAMS. ALL OTHER CHILLED BEAMS SHALL OPERATE INDEPENDENTLY AND BE PROVIDED WITH MODULATING CONTROL VALVES ON A ONE-TO-ONE BASIS.
6. REFER TO SPECIFICATIONS FOR COMPLETE PROJECT SCOPE.
7. REFER TO DETAILS ON SHEETS MF860-MF862.
8. REFER TO SCHEDULES ON SHEETS MF960-MF963.
9. INSTALL CHILLED BEAM CONTROL VALVES OVER ACCESSABLE CEILINGS OR ACCESS PANELS IN GYP CEILINGS.

KEYED NOTES

1 CONTRACTOR SHALL "HOT TAP" NEW CONNECTIONS USING FULL PORT BALL VALVES. THE HOT WATER HEATING SYSTEMS SHALL BE FULLY OPERATIONAL DURING DURATION OF WORK.



0 4' 8' 16'
SCALE : 1/8" = 1'-0"

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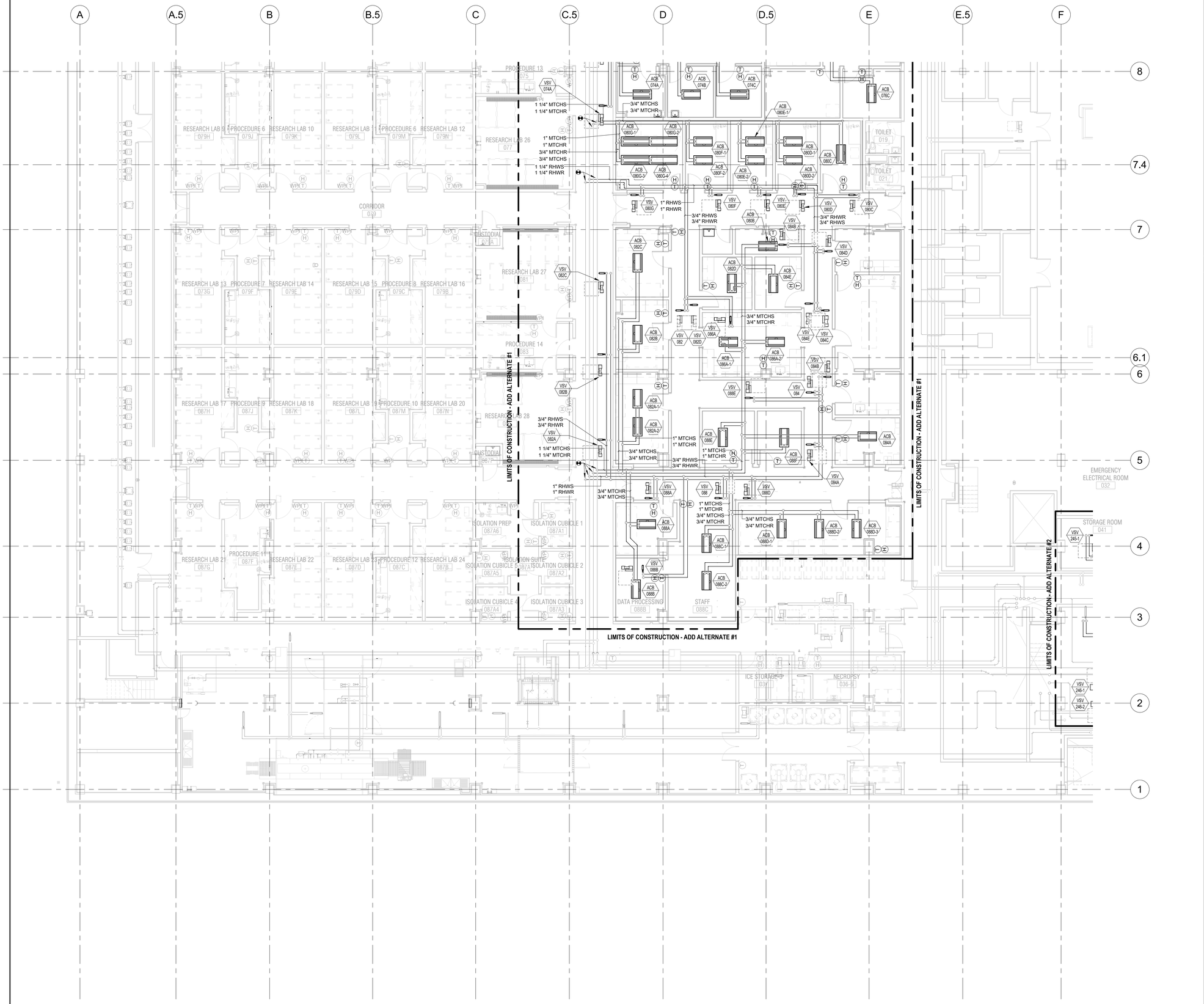
STATE OF KENTUCKY
SCOTT FOSTER
31334
LICENSED
PROFESSIONAL ENGINEER
1/7/2021

DRAWING
MECHANICAL FIT OUT PIPING LOWER LEVEL FLOOR PLAN AREA A

SHEET NO.
MF-360-A

1/7/2021 5:48:17 PM



1 MF-360-B **MECHANICAL FIT OUT PIPING LOWER LEVEL FLOOR PLAN AREA B**

1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE BRANCH PIPING FOR ALL NEW CHILLED BEAMS AND TERMINAL UNITS. BRANCH PIPING TO CHILLED BEAMS AND TERMINAL UNITS SHALL BE MIN 3/4" UNLESS OTHERWISE NOTED.
2. ALL PIPE PENETRATIONS THROUGH 1-HOUR RATED PARTITIONS SHALL BE FIRESTOPPED PER UL DETAILS TO ACHIEVE A 1-HOUR RATING.
3. DRAIN PIPING SHALL BE SLOPED DOWN IN THE DIRECTION OF FLOW AT 1/8" PER 1'-0".
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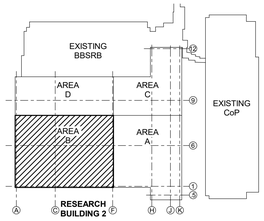
8. REFER TO SCHEDULES ON SHEETS MF960-MF963.
9. INSTALL CHILLED BEAM CONTROL VALVES OVER ACCESSABLE CEILINGS OR ACCESS PANELS IN GYP CEILINGS.

KEYED NOTES



0 4' 8' 16'
SCALE : 1/8" = 1'-0"

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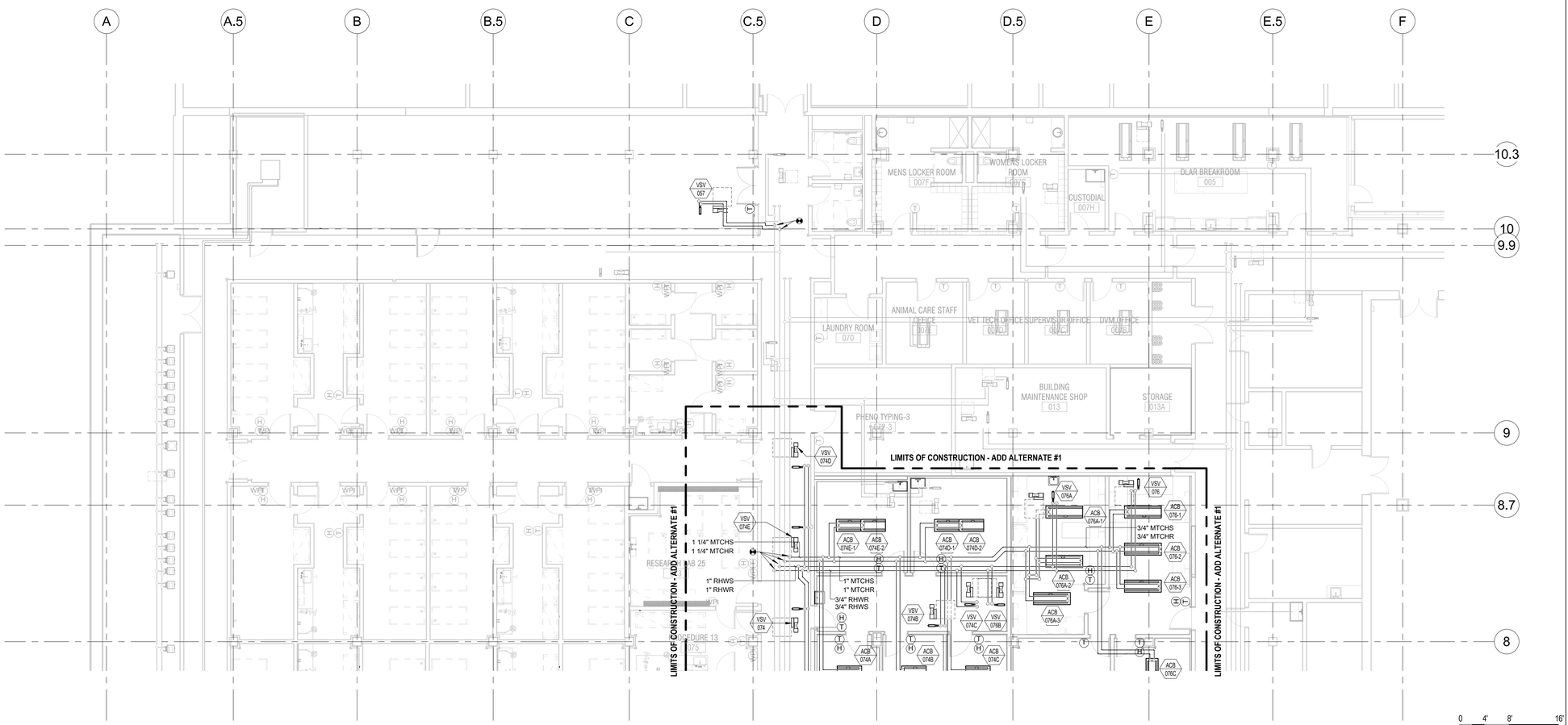
DRAWING

MECHANICAL FIT OUT PIPING LOWER LEVEL FLOOR PLAN AREA B

SHEET NO.

MF-360-B

1/11/2021 4:33:00 PM

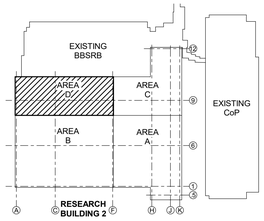


1 MF-360-D **MECHANICAL FIT OUT PIPING LOWER LEVEL FLOOR PLAN AREA D**
1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE BRANCH PIPING FOR ALL NEW CHILLED BEAMS AND TERMINAL UNITS. BRANCH PIPING TO CHILLED BEAMS AND TERMINAL UNITS SHALL BE MIN 3/4" UNLESS OTHERWISE NOTED.
2. ALL PIPE PENETRATIONS THROUGH 1-HOUR RATED PARTITIONS SHALL BE FIRESTOPPED PER UL DETAILS TO ACHIEVE A 1-HOUR RATING.
3. DRAIN PIPING SHALL BE SLOPED DOWN IN THE DIRECTION OF FLOW AT 1/8" PER 1'-0".
4. COORDINATE EXACT LOCATION OF WALL MOUNTED THERMOSTATS, HUMIDISTATS AND CARBON DIOXIDE SENSORS WITH ARCHITECURAL PLANS AND ELEVATIONS. MINIMUM MOUNTING HEIGHT TO BE 48" AFF.
5. CONTROL VALVE LOCATIONS ARE ONLY SHOWN FOR CONTROL ZONES SERVING MULTIPLE CHILLED BEAMS. ALL OTHER CHILLED BEAMS SHALL OPERATE INDEPENDENTLY AND BE PROVIDED WITH MODULATING CONTROL VALVES ON A ONE-TO-ONE BASIS.
6. REFER TO SPECIFICATIONS FOR COMPLETE PROJECT SCOPE.
7. REFER TO DETAILS ON SHEETS MF860-MF862.
8. REFER TO SCHEDULES ON SHEETS MF960-MF963.
9. INSTALL CHILLED BEAM CONTROL VALVES OVER ACCESSABLE CEILINGS OR ACCESS PANELS IN GYP CEILINGS.

KEYED NOTES



KEY PLAN

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By	TFM
Checked By	DMS
Client Number	514
Project Number	15576

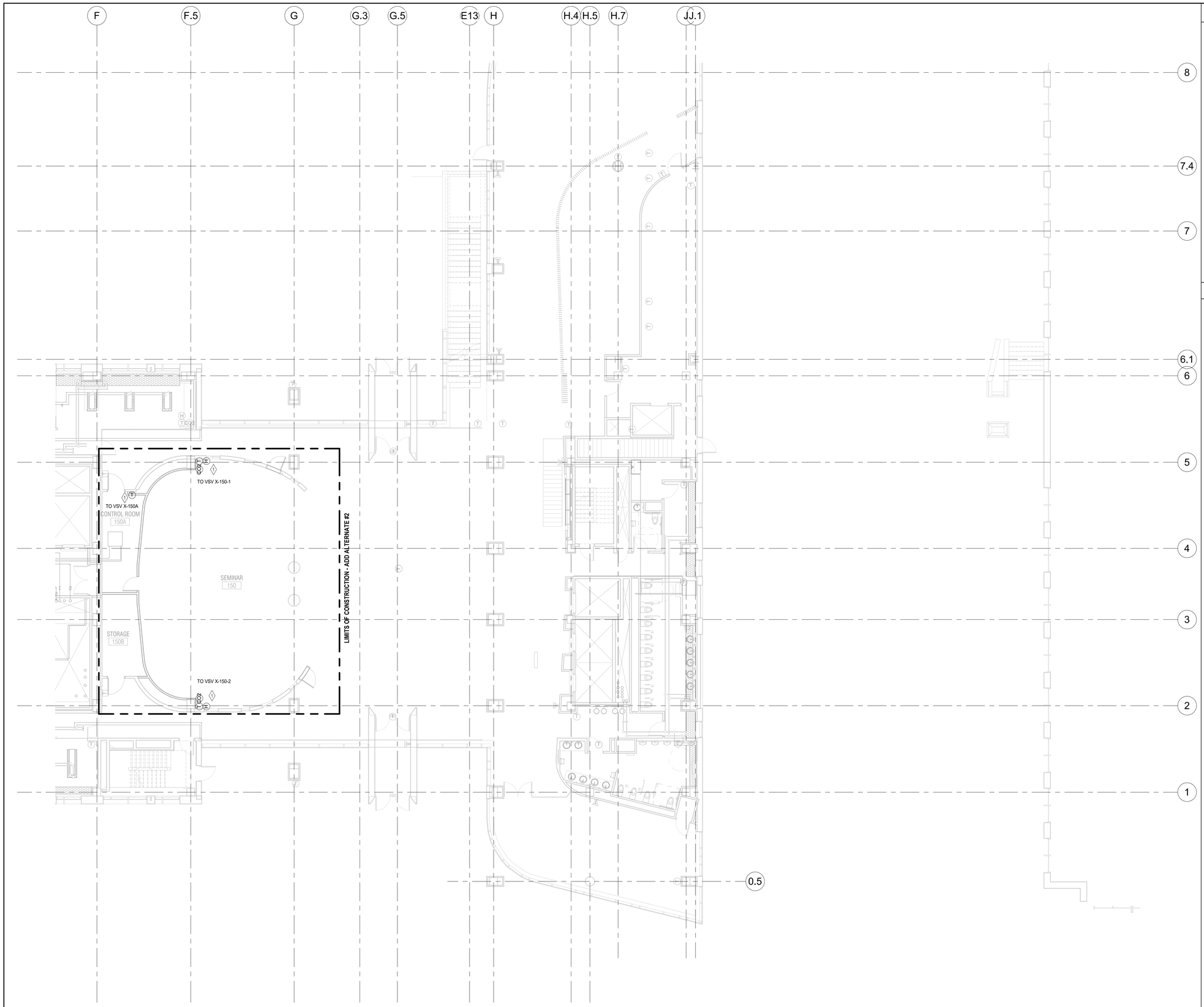
DRAWING

MECHANICAL FIT OUT PIPING LOWER LEVEL FLOOR PLAN AREA D

SHEET NO.

MF-360-D

1/11/2021 4:33:10 PM



1 MF-361-A **MECHANICAL FIT OUT PIPING LEVEL ONE FLOOR PLAN AREA A**
1/8" = 1'-0"

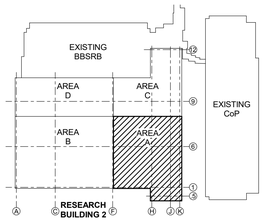
0 4' 8' 16'
SCALE : 1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE BRANCH PIPING FOR ALL NEW CHILLED BEAMS AND TERMINAL UNITS. BRANCH PIPING TO CHILLED BEAMS AND TERMINAL UNITS SHALL BE MIN 3/4" UNLESS OTHERWISE NOTED.
2. ALL PIPE PENETRATIONS THROUGH 1-HOUR RATED PARTITIONS SHALL BE FIRESTOPPED PER UL DETAILS TO ACHIEVE A 1-HOUR RATING.
3. DRAIN PIPING SHALL BE SLOPED DOWN IN THE DIRECTION OF FLOW AT 1/8" PER 1'-0".
4. COORDINATE EXACT LOCATION OF WALL MOUNTED THERMOSTATS, HUMIDISTATS AND CARBON DIOXIDE SENSORS WITH ARCHITECURAL PLANS AND ELEVATIONS. MINIMUM MOUNTING HEIGHT TO BE 48" AFF.
5. CONTROL VALVE LOCATIONS ARE ONLY SHOWN FOR CONTROL ZONES SERVING MULTIPLE CHILLED BEAMS. ALL OTHER CHILLED BEAMS SHALL OPERATE INDEPENDENTLY AND BE PROVIDED WITH MODULATING CONTROL VALVES ON A ONE-TO-ONE BASIS.
6. REFER TO SPECIFICATIONS FOR COMPLETE PROJECT SCOPE.
7. REFER TO DETAILS ON SHEETS MF860-MF862.
8. REFER TO SCHEDULES ON SHEETS MF960-MF963.
9. INSTALL CHILLED BEAM CONTROL VALVES OVER ACCESSABLE CEILINGS OR ACCESS PANELS IN GYP CEILINGS.

KEYED NOTES

1 CONTROLS SERVING AIR TERMINAL DEVICE ON LOWER LEVEL. SENSOR INPUTS SHALL BE HARDWIRED TO UNIT CONTROLLER. SOFTWARE COMMUNICATION IS NOT ALLOWED.



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Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

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1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

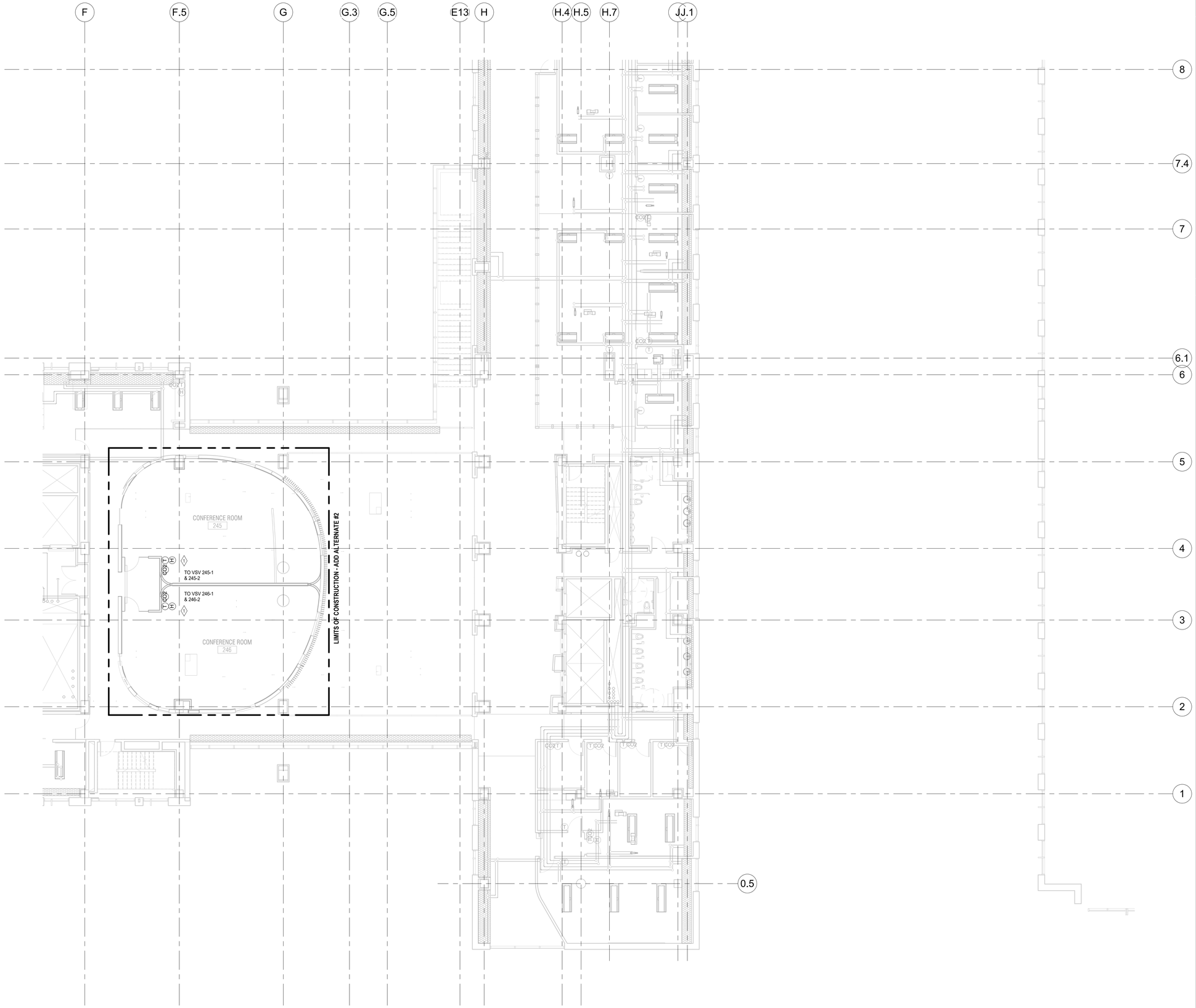
Drawn By TFM
Checked By DMS
Client Number 514
Project Number 15576

STATE OF KENTUCKY SCOTT FOSTER 31351 LICENSED PROFESSIONAL ENGINEER
1/7/2021

DRAWING
MECHANICAL FIT OUT PIPING LEVEL ONE FLOOR PLAN AREA A

SHEET NO.
MF-361-A

1/8/2021 11:00:12 AM



1 MF-362-A **MECHANICAL FIT OUT PIPING LEVEL TWO FLOOR PLAN AREA A**
1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE BRANCH PIPING FOR ALL NEW CHILLED BEAMS AND TERMINAL UNITS. BRANCH PIPING TO CHILLED BEAMS AND TERMINAL UNITS SHALL BE MIN 3/4" UNLESS OTHERWISE NOTED.
2. ALL PIPE PENETRATIONS THROUGH 1-HOUR RATED PARTITIONS SHALL BE FIRESTOPPED PER UL DETAILS TO ACHIEVE A 1-HOUR RATING.
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6. REFER TO SPECIFICATIONS FOR COMPLETE PROJECT SCOPE.
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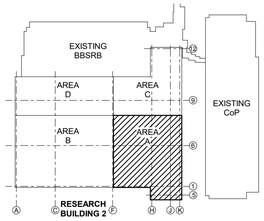
8. REFER TO SCHEDULES ON SHEETS MF960-MF963.
9. INSTALL CHILLED BEAM CONTROL VALVES OVER ACCESSABLE CEILINGS OR ACCESS PANELS IN GYP CEILINGS.

KEYED NOTES

1 CONTROLS SERVING AIR VALVE ON LOWER LEVEL.



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UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

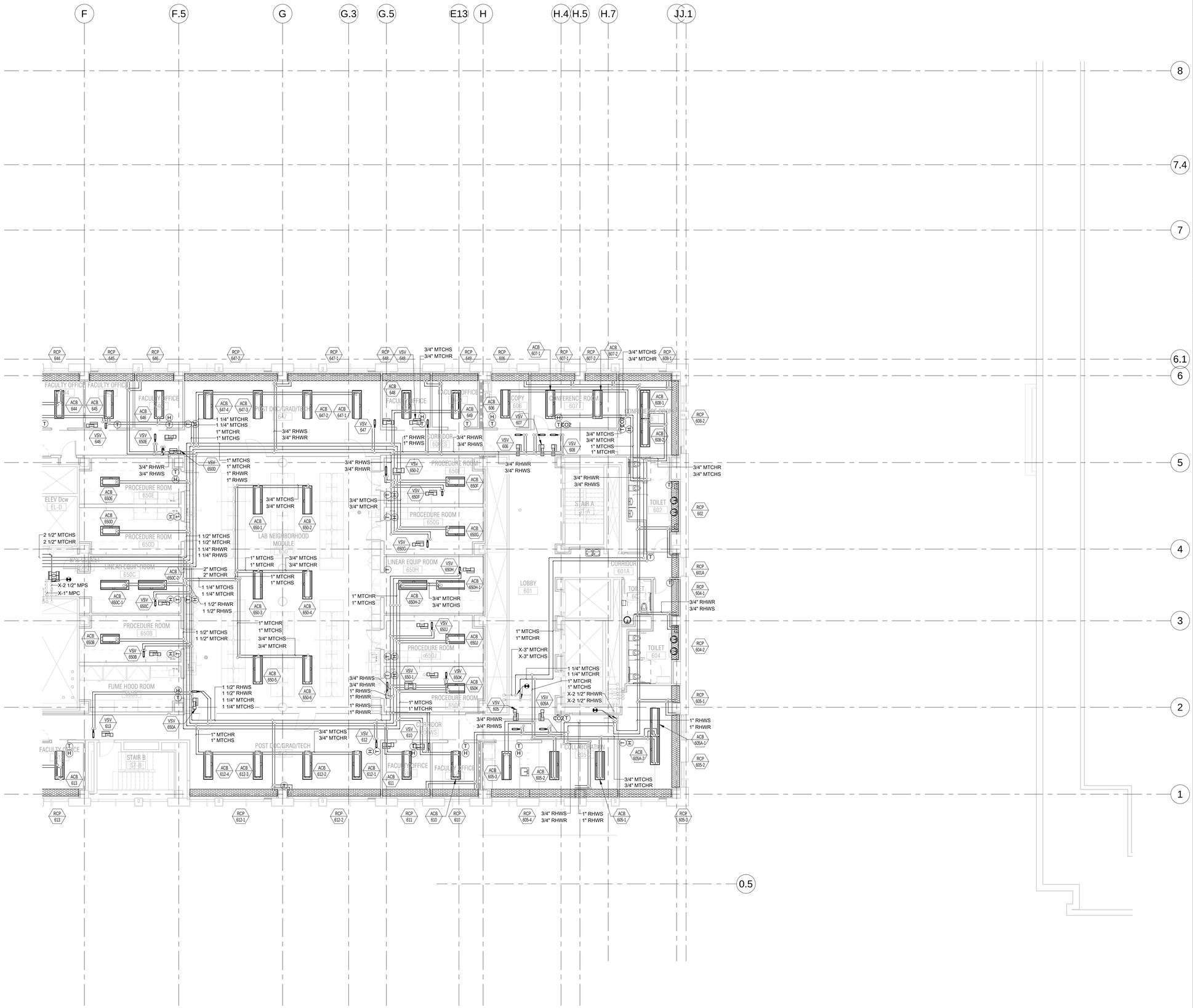
Drawn By: TFM
Checked By: DMS
Client Number: 514
Project Number: 15576

STATE OF KENTUCKY
SCOTT FOSTER
31321
LICENSED
PROFESSIONAL ENGINEER
1/7/2021

DRAWING
MECHANICAL FIT OUT PIPING LEVEL TWO FLOOR PLAN AREA A

SHEET NO.
MF-362-A

1/8/2021 11:00:20 AM



1 MECHANICAL FIT OUT PIPING LEVEL SIX FLOOR PLAN AREA A
MF-366-A 1/8" = 1'-0"

0 4' 8' 16'
SCALE : 1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE BRANCH PIPING FOR ALL NEW CHILLED BEAMS AND TERMINAL UNITS. BRANCH PIPING TO CHILLED BEAMS AND TERMINAL UNITS SHALL BE MIN 3/4" UNLESS OTHERWISE NOTED.
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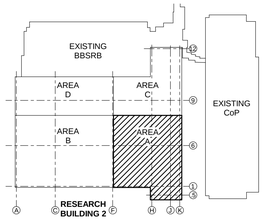
KEYED NOTES



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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By TFM

Checked By DMS

Client Number 514

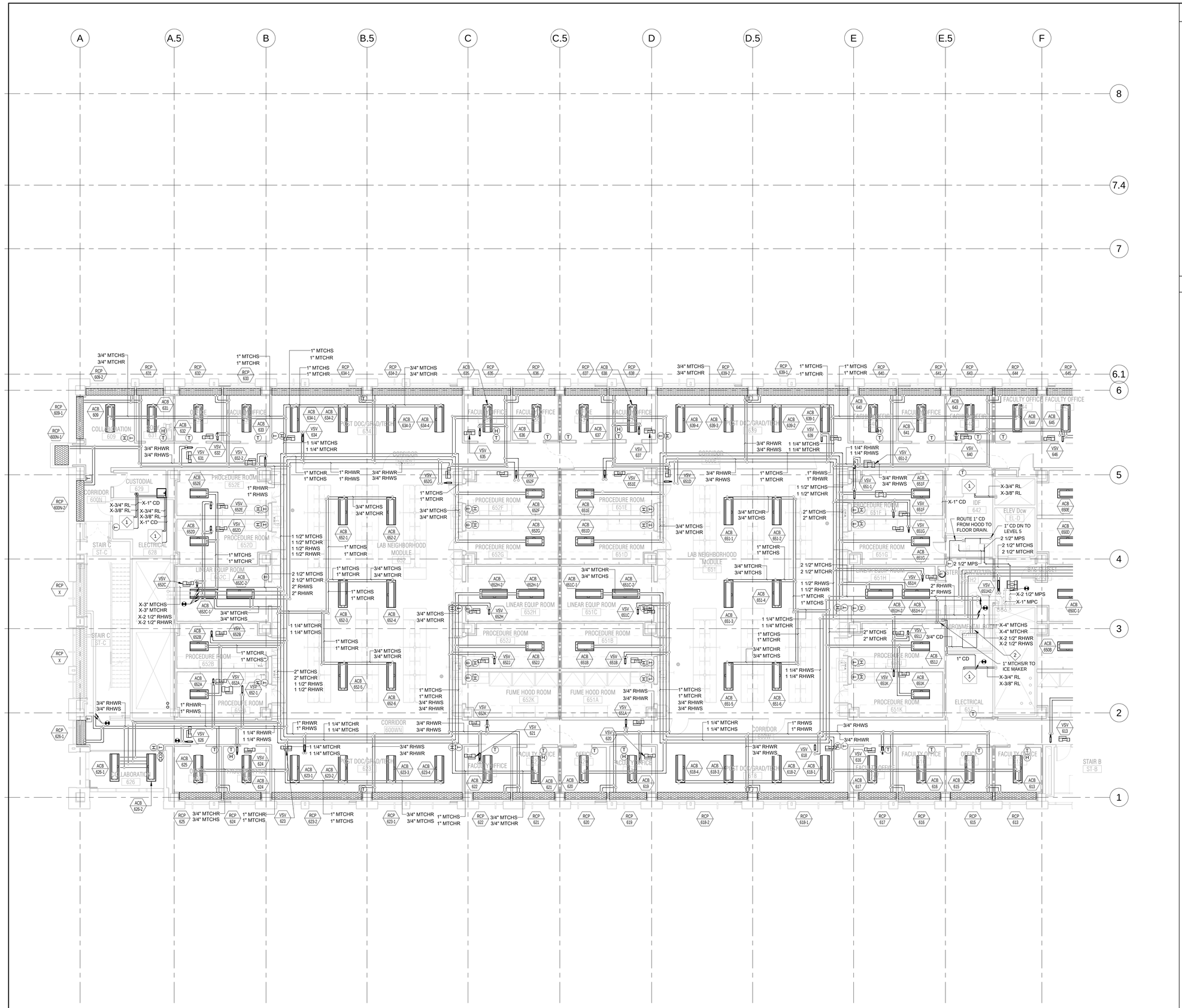
Project Number 15576

STATE OF KENTUCKY SCOTT FOSTER 31321 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
MECHANICAL FIT OUT PIPING LEVEL SIX FLOOR PLAN AREA A

SHEET NO.
MF-366-A

1/7/2021 5:49:25 PM



1 MF-366-B **MECHANICAL FIT OUT PIPING LEVEL SIX FLOOR PLAN AREA B**
1/8" = 1'-0"

0 4' 8' 16'
SCALE : 1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE BRANCH PIPING FOR ALL NEW CHILLED BEAMS AND TERMINAL UNITS. BRANCH PIPING TO CHILLED BEAMS AND TERMINAL UNITS SHALL BE MIN 3/4" UNLESS OTHERWISE NOTED.
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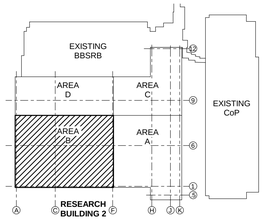
9. INSTALL CHILLED BEAM CONTROL VALVES OVER ACCESSABLE CEILINGS OR ACCESS PANELS IN GYP CEILINGS.

KEYED NOTES

1 EXISTING TO REMAIN VARIABLE REFRIGERANT FLOW (VRF) COOLING UNIT AND ALL ASSOCIATED PIPING AND APPURTENANCES.
2 1" MTCHS/R TO DEHUMIDIFICATION UNIT.



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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

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Drawn By: TFM
Checked By: DMS
Client Number: 514
Project Number: 15576

STATE OF KENTUCKY SCOTT FOSTER 31321 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
MECHANICAL FIT OUT PIPING LEVEL SIX FLOOR PLAN AREA B

SHEET NO.
MF-366-B

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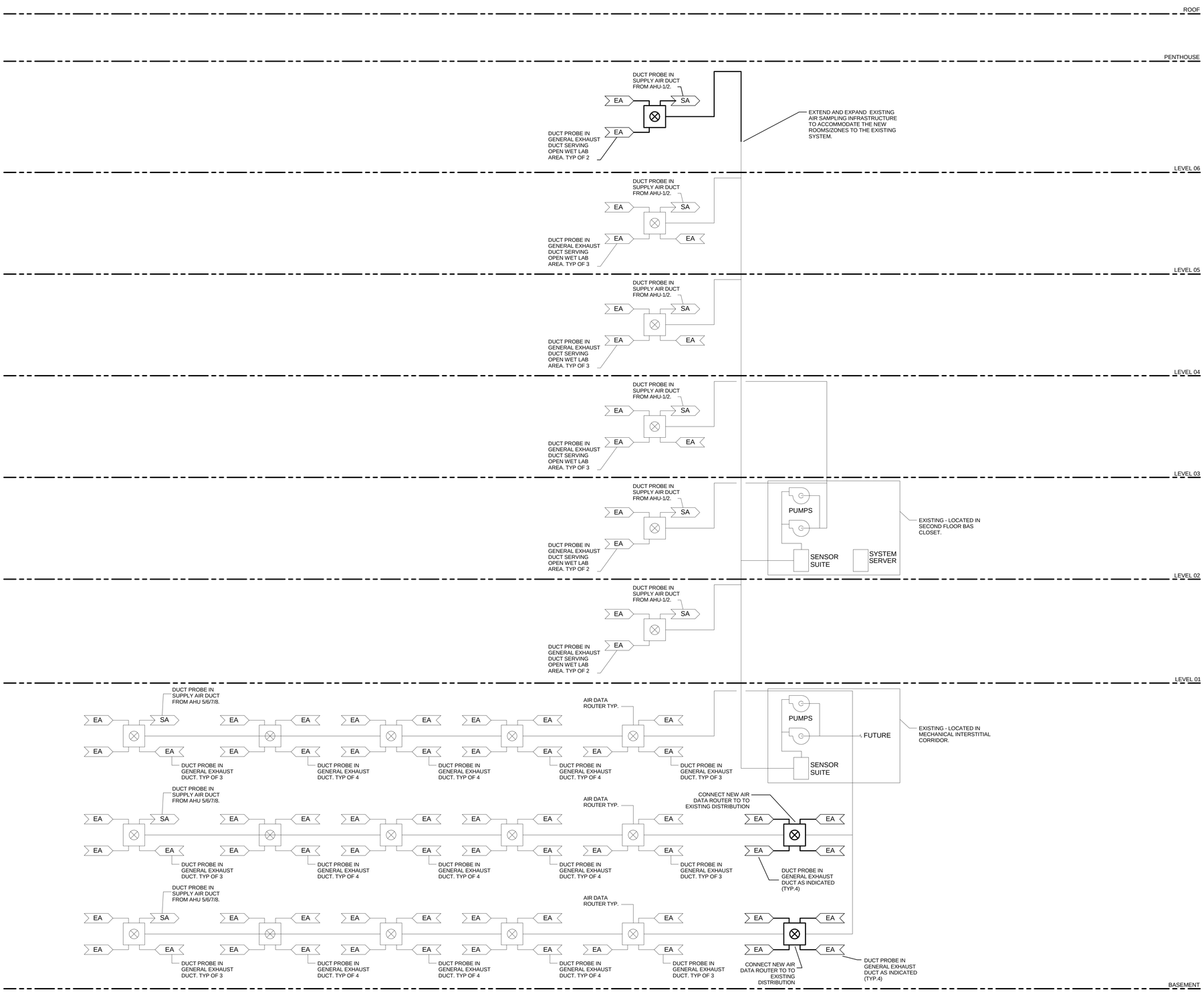

1 MF-565 **FACILITY AIR MONITORING SYSTEM RISER DIAGRAM - PHASE 4**
NTS

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Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - BID & PERMIT	01/08/21

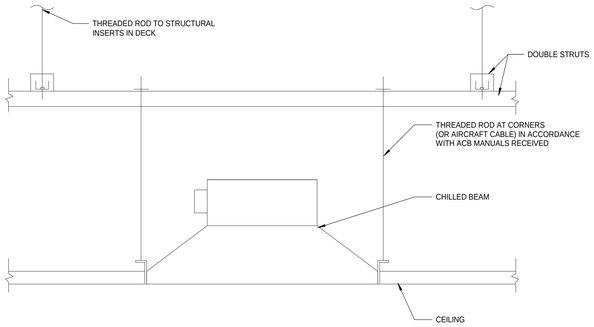
Drawn By TFM
Checked By DMS
Client Number 514
Project Number 15576

STATE OF KENTUCKY SCOTT FOSTER 31241 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
FACILITY AIR MONITORING SYSTEM RISER DIAGRAM

SHEET NO.
MF-565

1/7/2021 5:49:51 PM



7 MF-860 **CHILLED BEAM SUPPORT**
NONE

DUCT DIMENSION	TRANSVERSE JOINT/REINFORCEMENT SPACING 42 3/4" (4'-0")	MIN. DUCT GAUGE	DUCT MATERIAL
20" DN	T-24 (M) W/J	24 GA.	REFER TO SPECIFICATION SECTIN 23 31 14
21"-36"	T-24 (M) W/J	22 GA.	
37"-42"	T-24 (M) W/J	20 GA.	
43"-54"	T-24 (M) W/J	18 GA.	

M = MODIFIED: AS SHOWN BELOW (RIGHT).

NOTES:

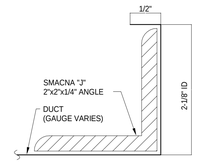
(1) USE TRANSVERSE REINFORCEMENTS (SHOWN RIGHT) TO ENCAPSULATE THE MODIFIED T-24 FLANGE THAT IS FORMED FROM 48" WIDE SHEET METAL ROLL OR FLAT SHEET STOCK. USE "J" REINFORCEMENTS BACK TO BACK ON ADJACENT SIDES WITH FULLY LAPPED 3/8" BOLTED CORNERS. SEAL CORNER OF DUCT WITH CHEMICAL RESISTANT SEALANT. BOLT (1/4"@8" INTERVALS) OR SCREW (#12@6" INTERVALS) "J" REINFORCEMENTS AROUND ENTIRE PERIPHERY OF EACH TRANSVERSE JOINT.

(2) NO INTERMEDIATE REINFORCEMENT IS REQUIRED.

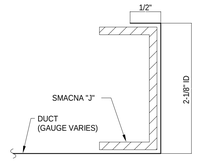
(3) NO SCREWS THROUGH DUCT, UNLESS SEALED AS SPECIFIED.

(4) USE TRAPEZE SUPPORT HANGERS FOR RECTANGULAR FUME HOOD DUCTWORK.

(5) USE BUTYL GASKET AROUND OUTSIDE HALF OF FLANGE FACE. AFTER FLANGES OF SECTIONS ARE MATED TOGETHER, FILL INSIDE GAP BETWEEN FLANGES WITH DUCT SEALANT

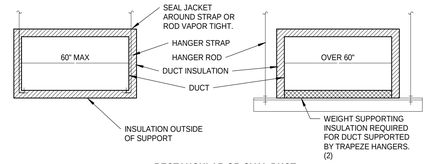


MODIFIED SMACNA T-24 FLANGE
W/"J" ANGLE REINFORCEMENT

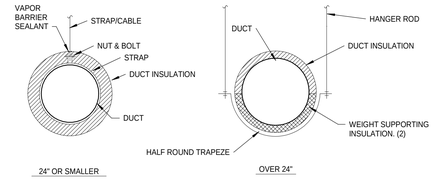


MODIFIED SMACNA T-24 FLANGE
W/"J" FORMED C/Z REINFORCEMENT
2"(OD)X1/8"X1/8" (10 GA.)

4 MF-860 **FUME HOOD EXHAUST DUCT (RECTANGULAR)**
NONE



RECTANGULAR OR OVAL DUCT



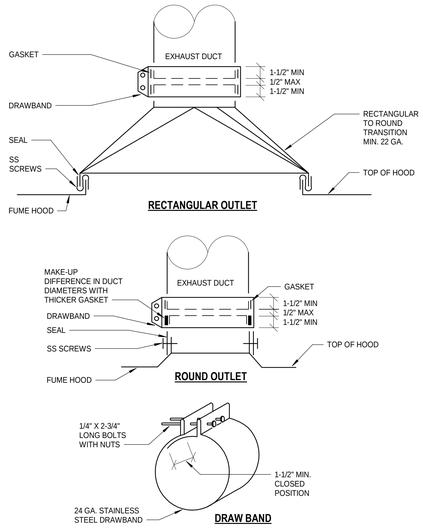
ROUND DUCT

NOTES:

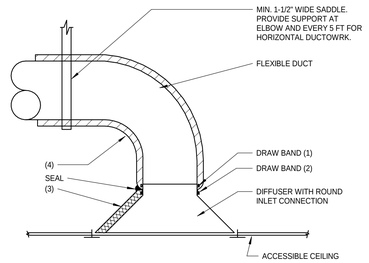
(1) INSULATION AND JACKET MUST RUN CONTINUOUSLY BETWEEN DUCT AND DUCT SUPPORTS, EXCEPT ROUND DUCTS 24" OR SMALLER.

(2) WEIGHT SUPPORTING INSULATION TO BE HAMFAB INSERTS OR FOAMGLAS INSULATION (TYPE-G). HAMFAB INSERT FOR ROUND DUCTS SHALL BE MULTIPLE INSERTS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION. REFER TO SPECIFICATION SECTION 23 07 00 FOR WEIGHT SUPPORTING INSULATION REQUIREMENTS.

1 MF-860 **INSULATED DUCT SUPPORTS (FLEX GLASS FIBER INSUL TYPE-F)**
NONE



5 MF-860 **FUME HOOD OUTLET CONNECTION (REMOVABLE)**
1/2" = 1'-0"



NOTES:

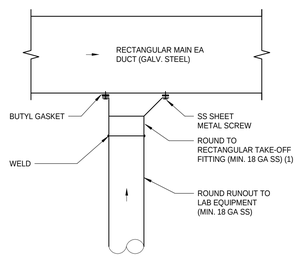
(1) PULL FLEXIBLE DUCT'S INNER LINER OVER DIFFUSER COLLAR AND SECURE WITH DRAW BAND.

(2) SECURE FLEXIBLE DUCT INSULATION AND OUTER JACKET WITH DRAW BAND.

(3) REFER TO SECTION 23 3114 FOR DIFFUSER INSULATION REQUIREMENT.

(4) MAINTAIN MIN. 1.5 RADIUS ELBOW. ELBOW SUPPORT DEVICE SIMILAR TO FLEXFLOW ELBOW SUPPORT BY THERMAFLEX TO BE USED TO ASSURE RADIUS ELBOW.

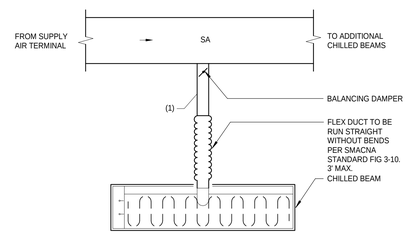
2 MF-860 **FLEXIBLE DUCT CONNECTION TO DIFFUSER**
NONE



NOTES:

(1) USE CONICAL TAKE-OFF FITTING IF MAIN DUCT IS ROUND.

6 MF-860 **BRANCH DUCT TAKE-OFF FITTING FOR FH EA DUCT**
NONE



NOTES:

(1) UNLESS OTHERWISE SHOWN ON PLANS, RUNOUT SHALL BE SAME SIZE AS CHILLED BEAM INLET SIZE.

3 MF-860 **CHILLED BEAM DUCT CONNECTION**
NONE

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: TFM
Checked By: DMS
Client Number: 514
Project Number: 15576

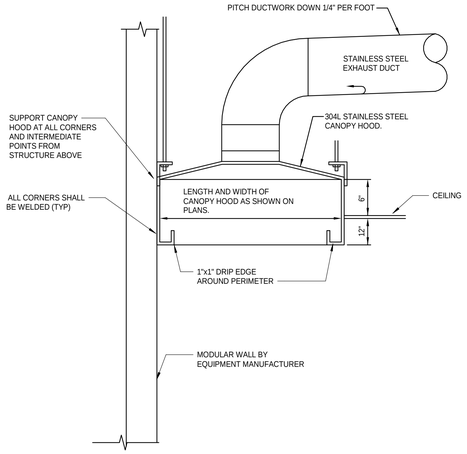
STATE OF KENTUCKY SCOTT FOSATI 31327 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING

MECHANICAL DETAILS - DUCTWORK

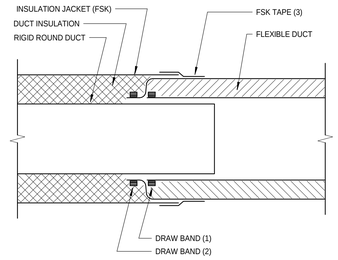
SHEET NO.
MF-860

1/7/2021 5:49:58 PM



7 LAB STERILIZERS AND GLASSHWASH CANOPY HOOD

MF-861 12" = 1'-0"



NOTES:

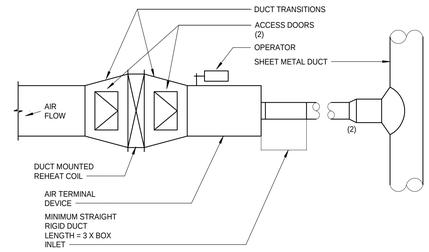
(1) PULL FLEXIBLE DUCT INNER LINER OVER RIGID DUCT WITH MINIMUM 4" OVERLAP AND SECURE LINER WITH SS DRAW BAND.

(2) SECURE FLEXIBLE DUCT INSULATION AND OUTER JACKET WITH METAL OR PLASTIC DRAW BAND.

(3) PULL RIGID DUCT INSULATION AND BUTT JOINT TO TERMINATION OF FLEXIBLE DUCT. APPLY 3" WIDE TAPE SIMILAR TO FSK TAPE TO CREATE VAPOR BARRIER SEAM. TAPE SHALL BE COMPATIBLE WITH FLEXIBLE DUCT INSULATION JACKET AND RIGID DUCT INSULATION JACKET.

4 FLEXIBLE DUCT CONNECTION TO INSUL RIGID ROUND DUCT

MF-861 1/2" = 1'-0"



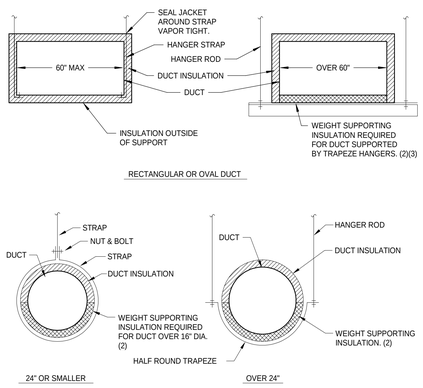
NOTES:

(1) REFER TO SECTION 23 3314 FOR ACCESS DOOR.

(2) UNLESS OTHERWISE SHOWN, INCREASE INLET DUCT SIZE BY 2 INCHES IN DIAMETER IF RUNOUT IS LONGER THAN 8 FT.

1 AIR TERMINAL DEVICE

MF-861 NONE



NOTES:

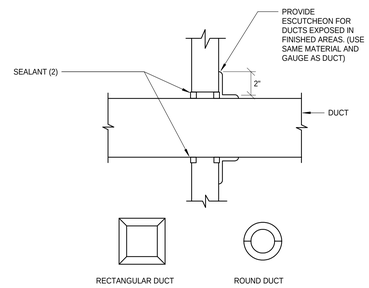
(1) INSULATION AND JACKET MUST RUN CONTINUOUSLY BETWEEN DUCT AND DUCT SUPPORTS.

(2) REFER TO SPECIFICATION SECTION 20 0700 FOR WEIGHT-SUPPORTING INSULATION REQUIREMENTS.

(3) THIS DETAIL SHALL APPLY FOR DUCTS 60" AND SMALLER IF TRAPEZE HANGERS ARE USED.

8 INSULATED DUCT SUPPORTS (RIGID GLASS FIBER INSUL. TYPE-R)

MF-861 1/2" = 1'-0"



TYPICAL ESCUTCHEON

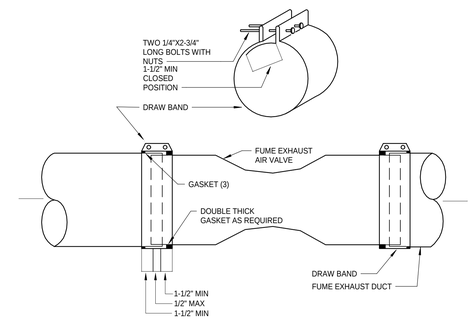
NOTES:

(1) THIS DETAIL APPLIES FOR NON-INSULATED DUCTS THRU WALL WHERE FIRE DAMPER IS NOT REQUIRED.

(2) WHERE WALL IS FIRE RATED, COMBINATION OF SEALANT AND BACKING MATERIAL SHALL MEET THIS RATING. REFER TO SPECIFICATION SECTION 20 0573 FOR FIRE STOPPING SYSTEM MANUFACTURERS.

5 DUCT PENETRATION THRU INTERIOR WALL (NON-INSULATED DUCTS)

MF-861 1/2" = 1'-0"



NOTES:

(1) DRAW BANDS SHALL BE:
-FURNISHED BY THE VALVE MANUFACTURER AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
-FABRICATED FROM THE SAME MATERIAL AS DUCT SYSTEM.
-INSTALLED TO PROVIDE TIGHT CHEMICAL SEAL AROUND ENTIRE PERIMETER OF DUCT AND AT DEVICE, WITH DRAW BAND FLANGES IN PARALLEL POSITION AFTER BEING FULLY DRAWN TOGETHER.

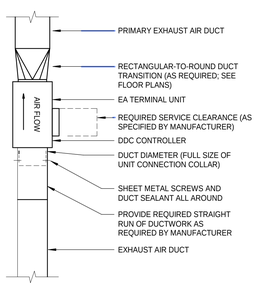
(2) DRAW BAND GAUGE TO BE MIN. 24 GAUGE.

(3) GASKET TO BE UL 94 NEOPRENE THE SAME WIDTH AS DRAWBAND. PROVIDE PTFE ADHESIVE TAPE UNDER GASKET.

(4) SUPPORT DUCTWORK ON EACH SIDE OF VALVE WITH HANGER WITHIN 12" OF DRAWBAND.

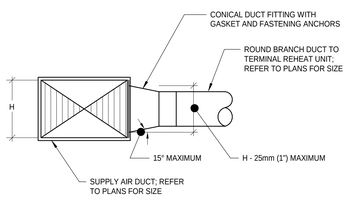
2 VENTURI AIR VALVE CONNECTION

MF-861 NONE



10 EXHAUST AIR TERMINAL UNIT DETAIL1

MF-861 12" = 1'-0"

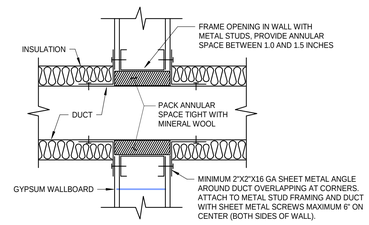


NOTE:

CONICAL FITTING SHALL BE SEALED PER SPECIFICATIONS.

9 CONICAL DUCT FITTING1

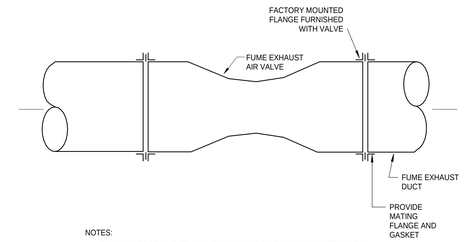
MF-861 12" = 1'-0"



NOTE: THIS DETAIL IS A MINIMUM REQUIREMENT. CONTRACTOR SHALL VERIFY THAT LOCAL AUTHORITIES HAVING JURISDICTION ACCEPT THIS CONSTRUCTION, OR MAKE THE REQUIRED REVISIONS WHERE REQUIREMENTS ARE MORE STRINGENT.

6 DUCT PENETRATION THROUGH STUD WALL1

MF-861 12" = 1'-0"



NOTES:

(1) INSTALL ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.

(2) SEALANT AND GASKET TO BE CHEMICAL RESISTANT MATERIAL. REFER TO SPECIFICATION SECTION 23 3114.

(3) FOR RECTANGULAR DUCTS, USE DUCTMATE CONNECTOR SYSTEM OR OTHER APPROVED SYSTEM WITH NEOPRENE GASKET AND BOLT AT EACH CORNER.

3 VENTURI AIR VALVE CONNECTION (FLANGE CONNECTION)

MF-861 NONE

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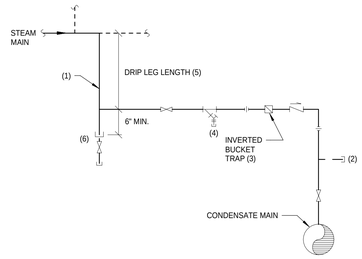
STATE OF KENTUCKY SCOTT FOSTER 31341 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING

MECHANICAL DETAILS - DUCTWORK

SHEET NO. MF-861

1/7/2021 5:50:07 PM



NOTES:

(1) DRIP LEG TO BE SAME AS MAIN THRU 4", ABOVE 4", DRIP LEG TO BE AT LEAST 1/2 MAIN SIZE BUT NOT LESS THAN 4".

(2) TEST VALVE WITH 6" NIPPLE AND CAP. TEST VALVE TO BE LINE SIZE, BUT NOT LARGER THAN 1". LOCATE TEST VALVE AT SIDE OF PIPE.

(3) DRIP TRAPS - 3/4" FOR MAIN PIPE SIZE THROUGH 8" AND 1" FOR MAIN PIPE 10" AND LARGER, UNLESS OTHERWISE NOTED.

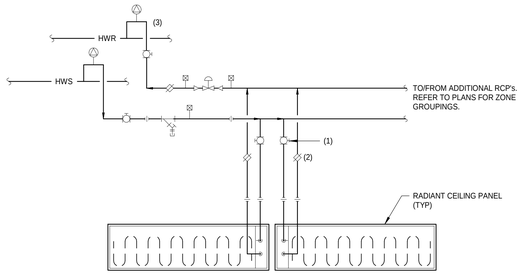
(4) DRAIN VALVE FOR WARM-UP AND BLOW DOWN.

(5) DRIP LEG LENGTH TO BE AT LEAST 1-1/2 TIMES DIAMETER OF MAIN, BUT NEVER LESS THAN 10".

(6) CAP, DRILL AND TAP FOR 1" BALL VALVE WITH HOSE THREADED ADAPTER AND CAP.

10 STEAM MAIN DRIP, END OF MAIN DRIP OR RISER DRIP

MF-862 NONE



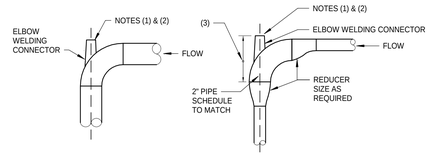
NOTES:

(1) REFER TO SPECIFICATION SECTION 23 2118 FOR BALANCING VALVE SIZING AND STRAIGHT INLET AND OUTLET PIPING REQUIREMENTS.

(2) USE TOP OR TOP 45° CONNECTION.

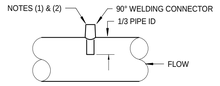
7 RADIANT CEILING PANEL PIPING (HEATING ONLY)

MF-862 1/2" = 1'-0"



ELBOW INSTALLATION
PIPE 2" AND LARGER

ELBOW INSTALLATION
PIPE 1-1/2" AND SMALLER



STRAIGHT PIPE INSTALLATION

NOTES:

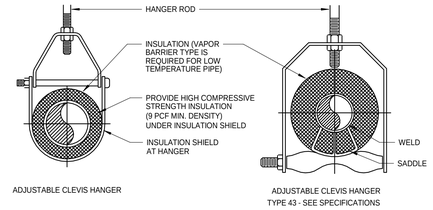
(1) USE THREADED CONNECTOR FOR THREADED WELLS. USE SOCKET OR BUTT WELD CONNECTOR AND FLANGE FOR FLANGED WELLS.

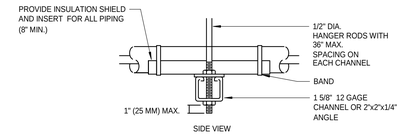
(2) FOR DIRECT INSERTION TEMPERATURE INSTRUMENTS, PROVIDE 1/2" WELD-O-LET.

(3) UN-REDUCED RUN MUST EXCEED THERMOWELL LENGTH PLUS 2 INCHES

4 TEMPERATURE INSTRUMENTS (WELDED PIPE)

MF-862 1/2" = 1'-0"



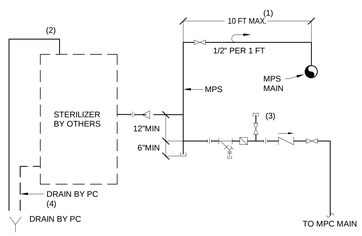


TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

MAXIMUM PIPE/TUBING SUPPORT SPACING									
NOM. SIZE IN.	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6
PIPE FT.	7	7	7	8	8	8	8	8	8	8
TUBING FT.	5	6	7	8	8	8	8	8	8	8
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.										

1 TYPICAL PIPE HANGER DETAIL1

MF-862 1/2" = 1'-0"



NOTES:

(1) IF PIPE LENGTH EXCEEDS 10 FT, PROVIDE DRIP LEG AND TRAP AHEAD OF SHUT-OFF VALVE. (REFER TO END OF MAIN DRIP DETAIL).

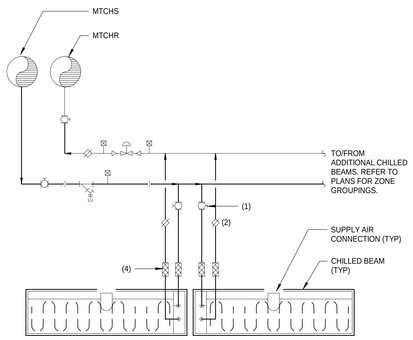
(2) SAFEFTY VALVES ARE FURNISHED WITH STERILIZER, ONE VALVE FOR CHAMBER AND ONE VALVE FOR JACKET. PIPE EACH SAFETY VALVE TO FLOOR DRAIN. PIPE TO BE SAME SIZE AS SAFETY VALVE OUTLET SIZE.

(3) TEST VALVE WITH 6" NIPPLE AND CAP. TEST VALVE TO BE LINE SIZE, BUT NOT LARGER THAN 1". LOCATE TEST VALVE AT SIDE OF PIPE.

(4) PROVIDE AFTER COOLER PER DETAIL IF REQUIRED. COORDINATE REQUIREMENT FOR AFTER COOLER WITH PURCHASED UNIT MANUFACTURER OPTIONS.

11 STERILIZER STEAM PIPING DETAIL

MF-862 NONE



NOTES:

(1) UP TO TWO ADJACENT CHILLED BEAMS MAY BE SERVED BY SINGLE (COMMON) ISOLATION VALVE.

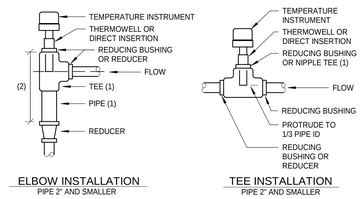
(2) UP TO TWO ADJACENT CHILLED BEAMS MAY BE SERVED BY SINGLE (COMMON) BALANCING VALVE IF UPSTREAM PIPING IS SYMMETRICAL.

(3) USE BALL VALVE IF CONTROL VALVE IS PRESSURE INDEPENDENT TYPE (PICV).

(4) FLEXIBLE PIPE CONNECTORS. REFER TO SPECIFICATIONS.

8 CHILLED BEAM PIPING

MF-862 NONE



ELBOW INSTALLATION
PIPE 2" AND SMALLER

TEE INSTALLATION
PIPE 2" AND SMALLER

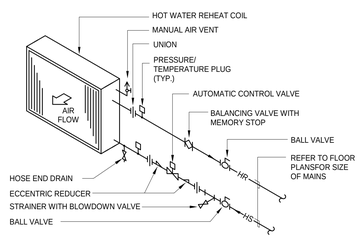
NOTES:

(1) USE TEE APPROPRIATELY SIZED TO MAINTAIN NET AREA NOT LESS THAN CROSS SECTIONAL AREA OF CONNECTED PIPE.

(2) UN-REDUCED RUN SHALL EXCEED THERMOWELL OR DIRECT INSERTION LENGTH PLUS 2 INCHES.

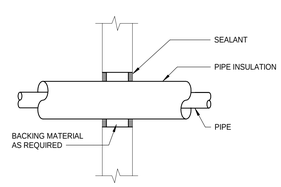
5 TEMPERATURE INSTRUMENTS (THREADED PIPE)

MF-862 1/2" = 1'-0"

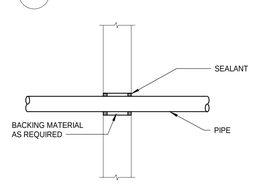


2 HW REHEAT COIL PIPING (2-WAY VALVE)1

MF-862 1/2" = 1'-0"



A WITH PIPE INSULATION



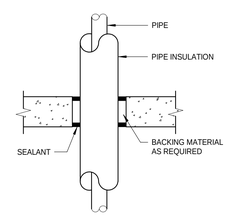
B WITHOUT PIPE INSULATION

NOTES:

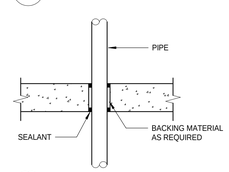
(1) WHERE WALL IS FIRE RATED, APPLY FIRE STOPPING SYSTEM (COMBINATION OF SEALANT, BACKING MATERIAL AND INSULATION) MEETING THIS RATING. REFER TO SPECIFICATION SECTION 20 0573 FOR FIRE STOPPING SYSTEM.

9 PIPE THRU INTERIOR WALL

MF-862 1/2" = 1'-0"



A WITH PIPE INSULATION



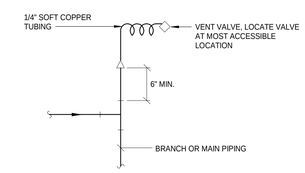
B WITHOUT PIPE INSULATION

NOTES:

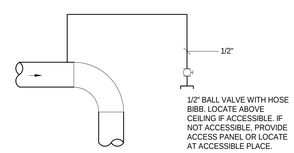
(1) WHERE FLOOR IS FIRE RATED, APPLY FIRE STOPPING SYSTEM MEETING THIS RATING. REFER TO SPECIFICATION SECTION 20 0573 FOR FIRE STOPPING SYSTEM.

6 PIPE THRU FLOOR

MF-862 1/2" = 1'-0"



A COILS AND SUBCIRCUITS



B MAIN PIPES

3 AIR VENT PIPING

MF-862 NONE

CHAMPLIN ARCHITECTURE
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STATE OF KENTUCKY SCOTT FOSACO 31321 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING

MECHANICAL DETAILS - PIPING

SHEET NO.

MF-862

1/7/2021 5:50:16 PM

AIR VALVE DEVICES - LOWER LEVEL, LEVEL 1 & 2 PH4

TAG	LEVEL	AIR TERMINAL USAGE	FAN SYSTEM	TYPE	CONTROL SEQUENCE	UNIT INLET SIZE (IN)	AIR FLOW OFFSET (CFM)	MAX. OCC. (CFM)	MIN. OCC. (CFM)	MAX UNIT PD ("WG)	MIN. INLET SP ("WG)	HEATING COIL REHEAT AIR FLOW (CFM)	CAP. (MBH)	FLOW (GPM)	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	AIR PD (IN WG)	FLUID TYPE	REMARKS
VSV 002	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	W	8	0	100	100	0.80	1.1	100	2268	0.5	51	72	180	160	0.25	WATER	
VSV 057	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	W	8	0	350	75	0.80	1.1	350	7938	0.8	51	72	180	160	0.25	WATER	
VSV 074	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	W	8	0	75	0	0.80	1.1	75	2511	0.5	51	82	180	160	0.25	WATER	
VSV 074A	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	75	75	0.80	1.1	75	2511	0.5	51	82	180	160	0.25	WATER	
VSV 074B	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	75	75	0.80	1.1	75	2511	0.5	51	82	180	160	0.25	WATER	
VSV 074C	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	75	75	0.80	1.1	75	2511	0.5	51	82	180	160	0.25	WATER	
VSV 074D	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	150	150	0.80	1.1	150	5022	0.5	51	82	180	160	0.25	WATER	
VSV 074E	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	150	150	0.80	1.1	150	5022	0.5	51	82	180	160	0.25	WATER	
VSV 076	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	K	8	25	275	275	0.80	1.1	275	6237	0.6	51	72	180	160	0.25	WATER	
VSV 076A	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	K	8	50	255	255	0.80	1.1	255	5783.4	0.6	51	72	180	160	0.25	WATER	
VSV 076B	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	W	8	50	240	240	0.80	1.1	240	5443.2	0.5	51	72	180	160	0.25	WATER	
VSV 080C	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	100	100	0.80	1.1	100	2268	0.5	51	72	180	160	0.25	WATER	
VSV 080D	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	100	100	0.80	1.1	100	2268	0.5	51	72	180	160	0.25	WATER	
VSV 080E	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	100	100	0.80	1.1	100	2268	0.5	51	72	180	160	0.25	WATER	
VSV 080F	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	100	100	0.80	1.1	100	2268	0.5	51	72	180	160	0.25	WATER	
VSV 080G	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	360	360	0.80	1.1	360	8164.8	0.8	51	72	180	160	0.25	WATER	
VSV 082	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	I	8	200	350	100	0.80	1.1	350	7938	0.8	51	72	180	160	0.25	WATER	
VSV 082A	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	110	110	0.80	1.1	110	2494.8	0.5	51	72	180	160	0.25	WATER	
VSV 082B	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	55	55	0.80	1.1	55	1247.4	0.5	51	72	180	160	0.25	WATER	
VSV 082C	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	55	55	0.80	1.1	55	1247.4	0.5	51	72	180	160	0.25	WATER	
VSV 082D	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	55	55	0.80	1.1	55	1247.4	0.5	51	72	180	160	0.00	WATER	
VSV 084	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	I	8	0	350	100	0.80	1.1	350	7938	0.8	51	72	180	160	0.25	WATER	
VSV 084A	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	85	85	0.80	1.1	85	1927.8	0.5	51	72	180	160	0.25	WATER	
VSV 084B	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	W	8	25	105	75	0.80	1.1	105	2381.4	0.5	51	72	180	160	0.25	WATER	
VSV 084B	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	50	50	50	0.80	1.1	50	1134	0.5	51	72	180	160	0.25	WATER	
VSV 084C	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	W	10	100	680	680	0.80	1.1	680	15422.4	1.5	51	72	180	160	0.25	WATER	
VSV 084D	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	W	8	25	105	75	0.80	1.1	105	2381.4	0.5	51	72	180	160	0.25	WATER	
VSV 084E	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	55	55	0.80	1.1	55	1247.4	0.5	51	72	180	160	0.25	WATER	
VSV 086A	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	200	200	0.80	1.1	200	4536	0.5	51	72	180	160	0.25	WATER	
VSV 088	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	70	70	0.80	1.1	70	1587.6	0.5	51	72	180	160	0.25	WATER	
VSV 088A	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	25	25	25	0.80	1.1	25	567	0.5	51	72	180	160	0.25	WATER	
VSV 088B	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	95	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VSV 088D	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	0	180	180	0.80	1.1	180	4082.4	0.5	51	72	180	160	0.25	WATER	
VSV 088E	LOWER LEVEL	SUPPLY	AHU 5/6/7/8	VENTURI	J	8	45	45	45	0.80	1.1	45	1020.6	0.5	51	72	180	160	0.25	WATER	
VSV 245-1	LOWER LEVEL	SUPPLY	AHU-9	VENTURI	W	14	0	500	340	0.80	1.1	500	11340	1.1	51	72	180	160	0.25	WATER	
VSV 245-2	LOWER LEVEL	SUPPLY	AHU-9	VENTURI	W	14	0	500	340	0.80	1.1	500	11340	1.1	51	72	180	160	0.25	WATER	
VSV 246-1	LOWER LEVEL	SUPPLY	AHU-9	VENTURI	W	14	0	500	340	0.80	1.1	500	11340	1.1	51	72	180	160	0.25	WATER	
VSV 246-2	LOWER LEVEL	SUPPLY	AHU-9	VENTURI	W	14	0	500	340	0.80	1.1	500	11340	1.1	51	72	180	160	0.25	WATER	
VEV 057	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	350	150	0.80	1.1										
VEV 074	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	W	8	0	75	0	0.80	1.1										
VEV 074A	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	75	75	0.80	1.1										
VEV 074B	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	75	75	0.80	1.1										
VEV 074C	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	75	75	0.80	1.1										
VEV 074D	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	150	150	0.80	1.1										
VEV 074E	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	150	150	0.80	1.1										
VEV 076	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	K	8	0	175	250	0.80	1.1										
VEV 076A-2	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	K	8	-50	255	305	0.80	1.1										
VEV 076B	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	W	8	-50	290	290	0.80	1.1										
VEV 080A	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	-50	50	50	0.80	1.1										
VEV 080C	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	200	100	0.80	1.1										
VEV 080D	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	200	100	0.80	1.1										
VEV 080E	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	200	100	0.80	1.1										
VEV 080F	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	200	100	0.80	1.1										
VEV 080G	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	360	360	0.80	1.1										
VEV 082A	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	110	110	0.80	1.1										
VEV 082B	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	55	55	0.80	1.1										
VEV 082C	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	55	55	0.80	1.1										
VEV 082D	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	55	55	0.80	1.1										
VEV 084	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	-50	250	50	0.80	1.1										
VEV 084A	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	55	55	0.80	1.1										
VEV 084B	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	W	8	-25	80	50	0.80	1.1										
VEV 084C	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	W	8	-100	580	580	0.80	1.1										
VEV 084D	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	W	8	0	80	50	0.80	1.1										
VEV 084E	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	55	55	0.80	1.1										
VEV 086A	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	200	200	0.80	1.1										
VEV 088C	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	-165	235	235	0.80	1.1										
VEV 088D	LOWER LEVEL	EXHAUST	EAHU/EF 4	VENTURI	J	8	0	180	180	0.80	1.1										
VEV 245	LEVEL 02	EXHAUST	EAHU/EF 3	VENTURI	U	12	0	1000	210	0.80	1.1										LOW PRESSURE OPERATION
VEV 246	LEVEL 02	EXHAUST	EAHU/EF 3	VENTURI	U	12	0	1000	210	0.80	1.1										LOW PRESSURE OPERATION

AIR VALVE DEVICES - LEVEL 6 PH4

TAG	LEVEL	AIR TERMINAL USAGE	FAN SYSTEM	TYPE	CONTROL SEQUENCE	UNIT INLET SIZE (IN)	AIR FLOW OFFSET (CFM)	MAX. OCC. (CFM)	MIN. OCC. (CFM)	MAX UNIT PD ("WG)	MIN. INLET SP ("WG)	HEATING COIL REHEAT AIR FLOW (CFM)	CAP. (MBH)	FLOW (GPM)	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	AIR PD (IN WG)	FLUID TYPE	REMARKS
VEV 600E-1	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	B	8	-115	285	35	0.80	1.1										
VEV 600E-2	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	B	8	-85	215	35	0.80	1.1										
VEV 600W-1	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	B	8	-120	280	35	0.80	1.1										
VEV 600W-2	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	B	8	-80	245	35	0.80	1.1										
VEV 602	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	G	8	0	490	420	0.80	1.1										
VEV 604	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	G	8	0	350	350	0.80	1.1										
VSV 605	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	A	8	-30	255	255	0.80	1.1	255	5783.4	0.6	51	72	180	160	0.25	WATER	
VSV 605A	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	A	8	210	210	210	0.80	1.1	210	4762.8	0.5	51	72	180	160	0.25	WATER	
VEV 605	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	G	8	0	285	285	0.80	1.1										
VSV 606	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	A	8	0	60	60	0.80	1.1	60	1360.8	0.5	51	72	180	160	0.25	WATER	
VSV 607	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	A	8	0	300	300	0.80	1.1	300	6804	0.7	51	72	180	160	0.25	WATER	
VSV 608	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	A	8	0	300	300	0.80	1.1	300	6804	0.7	51	72	180	160	0.25	WATER	
VSV 610	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	A	10	50	130	50	0.80	1.1	130	2948.4	0.5	51	72	180	160	0.25	WATER	
VSV 612	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	A	10	150	400	200	0.80	1.1	400	9072	0.9	51	72	180	160	0.25	WATER	
VSV 613	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	A	8	0	65	35	0.80	1.1	65	1474.2	0.5	51	72	180	160	0.25	WATER	
VSV 616	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	A	8	45	195	65	0.80	1.1	195	4422.6	0.5	51	72	180	160	0.25	WATER	
VSV 618	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	A	8	120	400	155	0.80	1.1	400	9072	0.9	51	72	180	160	0.25	WATER	
VSV 620	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	A	8	35	130	50	0.80	1.1	130	2948.4	0.5	51	72	180	160	0.25	WATER	
VSV 621	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	A	8	50	130	50	0.80	1.1	130	2948.4	0.5	51	72	180	160	0.25	WATER	
VSV 623	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	A	8	70	400	105	0.80	1.1	400	9072	0.9	51	72	180	160	0.25	WATER	
VSV 624	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	A	8	30	130	50	0.80	1.1	130	2948.4	0.5	51	72	180	160	0.25	WATER	
VSV 631	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	A	8	35	125	55	0.80	1.1	125	2835	0.5	51	72	180	160	0.25	WATER	
VSV 632	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	A	8	40	120	55	0.80	1.1	120	2721.6	0.5	51	72	180	160	0.25	WATER	
VSV 634	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	A	8	90	400	125	0.80	1.1	400	9072	0.9	51	72	180	160	0.25	WATER	
VSV 635	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	A	8	35	120	35	0.80	1.1	120	2721.6	0.5	51	72	180	160	0.25	WATER	
VSV 637	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	A	8	35	120	50	0.80	1.1	120	2721.6	0.5	51	72	180	160	0.25	WATER	
VSV 639	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	A	8	115	400	150	0.80	1.1	400	9072	0.9	51	72	180	160	0.25	WATER	
VSV 640	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	A	8	50	180	70	0.80	1.1	180	4082.4	0.5	51	72	180	160	0.25	WATER	3' SOUND ATTENUATING DEVICE
VSV 646	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	A	8	0	180	40	0.80	1.1	180	4082.4	0.5	51	72	180	160	0.25	WATER	3' SOUND ATTENUATING DEVICE
VSV 647	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	A	10	150	400	200	0.80	1.1	400	9072	0.9	51	72	180	160	0.25	WATER	
VSV 648	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	A	10	50	120	50	0.80	1.1	120	2721.6	0.5	51	72	180	160	0.25	WATER	
VEV 642	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	B	10	-200	320	50	0.80	1.1										
VEV 643	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	B	10	-200	330	50	0.80	1.1										
VEV 644	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	B	8	0	180	40	0.80	1.1										
VEV 653-1	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	B	8	-125	395	35	0.80	1.1										
VEV 653-2	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	B	8	-75	170	35	0.80	1.1										
VEV 655-1	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	B	8	-80	250	35	0.80	1.1										
VEV 655-2	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	B	8	-120	410	35	0.80	1.1										
VSV 626	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	E	8	0	320	35	0.80	1.1	320	7257.6	0.7	51	72	180	160	0.25	WATER	
VEV 658	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	B	8	0	65	35	0.80	1.1										

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By TFM

Checked By DMS

Client Number 514

Project Number 15576

STATE OF KENTUCKY SCOTT FOSTER 31324 LICENSED PROFESSIONAL ENGINEER
1/7/2021

DRAWING

MECHANICAL SCHEDULES

SHEET NO.

MF-960

1/7/2021 5:50:26 PM

AIR VALVE DEVICES - LEVEL 6 PH4 LAB 650

TAG	LEVEL	AIR TERMINAL USAGE	FAN SYSTEM	TYPE	CONTROL SEQUENCE	UNIT INLET SIZE (IN)	AIR FLOW OFFSET (CFM)	MAX. OCC. (CFM)	MIN. OCC. (CFM)	MAX UNIT PD ("WG)	MIN. INLET SP ("WG)	HEATING COIL									REMARKS
												REHEAT AIR FLOW (CFM)	CAP. (MBH)	FLOW (GPM)	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	AIR PD (IN WG)	FLUID TYPE	
VSV 650-1	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	H	14	0	1920	1200	0.80	1.1	1920	43545.6	4.4	51	72	180	160	0.25	WATER	
VSV 650-2	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	H	12	0	690	690	0.80	1.1	690	15649.2	1.6	51	72	180	160	0.25	WATER	
VEV 650	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	H	12	0	1190	110	0.80	1.1										
VSV 650A	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	H	8	0	350	350	0.80	1.1	350	7938	0.8	51	72	180	160	0.25	WATER	
VEV 650A-1	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	H	12	0	750	150	0.80	1.1										
VEV 650A-2	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	H	12	0	750	150	0.80	1.1										
VEV 650A-3	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	H	12	0	750	150	0.80	1.1										
VSV 650B	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	K	8	-100	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 650B	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 650C	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	J	8	0	170	40	0.80	1.1	170	3855.6	0.5	51	72	180	160	0.25	WATER	
VEV 650C	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	J	8	0	3770	190	0.80	1.1										
VSV 650D	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	K	8	-100	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 650D	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 650E	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	K	8	-100	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 650E	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 650F	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	K	8	-100	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 650F	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 650G	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	K	8	0	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	3' SOUND ATTENUATING DEVICE
VEV 650G	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 650H	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	J	8	0	170	40	0.80	1.1	170	3855.6	0.5	51	72	180	160	0.25	WATER	
VEV 650H	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	J	8	0	320	190	0.80	1.1										
VSV 650J	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	K	8	-100	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	3' SOUND ATTENUATING DEVICE
VEV 650J	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 650K	LEVEL 06	SUPPLY	AHU 3/4	VENTURI	K	8	-100	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 650K	LEVEL 06	EXHAUST	EAHU/EF 2	VENTURI	K	8	0	195	195	0.80	1.1										

AIR VALVE DEVICES - LEVEL 6 PH 4 LAB 651

TAG	LEVEL	AIR TERMINAL USAGE	FAN SYSTEM	TYPE	CONTROL SEQUENCE	UNIT INLET SIZE (IN)	AIR FLOW OFFSET (CFM)	MAX. OCC. (CFM)	MIN. OCC. (CFM)	MAX UNIT PD ("WG)	MIN. INLET SP ("WG)	HEATING COIL									REMARKS
												REHEAT AIR FLOW (CFM)	CAP. (MBH)	FLOW (GPM)	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	AIR PD (IN WG)	FLUID TYPE	
VSV 651-1	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	H	12	0	690	690	0.80	1.1	690	15649.2	1.6	51	72	180	160	0.25	WATER	
VSV 651-2	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	H	14	-440	1920	1200	0.80	1.1	1920	43545.6	4.4	51	72	180	160	0.25	WATER	
VEV 651	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	H	12	0	1190	110	0.80	1.1										
VSV 651A	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	H	8	0	350	350	0.80	1.1	350	7938	0.8	51	72	180	160	0.25	WATER	
VEV 651A-1	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	H	12	0	750	150	0.80	1.1										
VEV 651A-2	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	H	12	0	750	150	0.80	1.1										
VEV 651A-3	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	H	12	0	750	150	0.80	1.1										
VSV 651B	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	K	8	0	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 651B	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	K	8	0	180	195	0.80	1.1										
VSV 651C	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	J	8	-150	170	40	0.80	1.1	170	3855.6	0.5	51	72	180	160	0.25	WATER	
VEV 651C	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	J	8	0	320	190	0.80	1.1										
VSV 651D	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	K	8	0	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 651D	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	K	8	0	180	195	0.80	1.1										
VSV 651E	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	K	8	0	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 651E	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	K	8	0	180	195	0.80	1.1										
VSV 651F	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	K	8	-100	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	3' SOUND ATTENUATING DEVICE
VEV 651F	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 651G	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	K	8	0	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 651G	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 651H	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	J	8	0	170	40	0.80	1.1	170	3855.6	0.5	51	72	180	160	0.25	WATER	
VEV 651H	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	J	8	0	320	190	0.80	1.1										
VSV 651H1	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	L	8	0	50	50	0.80	1.1										
VEV 651H1	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	L	8	0	50	50	0.80	1.1										
VSV 651H2	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	L	20	0	1500	1500	0.80	1.1	1500	34177.5	3.4	51	72	180	160	0.25	WATER	
VEV 651H2	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	L	20	0	2000	1500	0.80	1.1										
VSV 651J	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	K	8	-100	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 651J	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 651K	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	K	8	0	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	3' SOUND ATTENUATING DEVICE
VEV 651K	LEVEL 06	EXHAUST	EAHU/EF 3	VENTURI	K	8	0	195	195	0.80	1.1										

AIR VALVE DEVICES - LEVEL 6 PH4 LAB 652

TAG	LEVEL	AIR TERMINAL USAGE	FAN SYSTEM	TYPE	CONTROL SEQUENCE	UNIT INLET SIZE (IN)	AIR FLOW OFFSET (CFM)	MAX. OCC. (CFM)	MIN. OCC. (CFM)	MAX UNIT PD ("WG)	MIN. INLET SP ("WG)	HEATING COIL									REMARKS
												REHEAT AIR FLOW (CFM)	CAP. (MBH)	FLOW (GPM)	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	AIR PD (IN WG)	FLUID TYPE	
VSV 652-1	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	H	14	0	1920	1200	0.80	1.1	1920	43545.6	4.4	51	72	180	160	0.25	WATER	
VSV 652-2	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	H	12	0	690	690	0.80	1.1	690	15649.2	1.6	51	72	180	160	0.25	WATER	
VEV 652	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	H	12	0	1190	110	0.80	1.1										
VSV 652A	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	K	8	0	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 652A	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 652B	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	K	8	0	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 652B	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 652C	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	J	8	-150	170	40	0.80	1.1	170	3855.6	0.5	51	72	180	160	0.25	WATER	
VEV 652C	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	J	8	0	320	190	0.80	1.1										
VSV 652D	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	K	8	-100	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 652D	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 652E	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	K	8	0	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 652E	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 652F	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	K	8	0	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 652F	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 652G	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	K	8	0	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 652G	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 652H	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	J	8	-150	170	40	0.80	1.1	170	3855.6	0.5	51	72	180	160	0.25	WATER	
VEV 652H	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	J	8	0	320	190	0.80	1.1										
VSV 652J	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	K	8	-100	95	95	0.80	1.1	95	2154.6	0.5	51	72	180	160	0.25	WATER	
VEV 652J	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	K	8	0	195	195	0.80	1.1										
VSV 652K	LEVEL 06	SUPPLY	AHU 1/2	VENTURI	H	8	0	350	350	0.80	1.1	350	7938	0.8	51	72	180	160	0.25	WATER	
VEV 652K-1	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	H	12	0	750	150	0.80	1.1										
VEV 652K-2	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	H	12	0	750	150	0.80	1.1										
VEV 652K-3	LEVEL 06	EXHAUST	EAHU/EF 1	VENTURI	H	12	0	750	150	0.80	1.1										

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CMTA

HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: TFM
Checked By: DMS
Client Number: 514
Project Number: 15576

STATE OF KENTUCKY SCOTT FOSHEE 31327 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING

MECHANICAL SCHEDULES

SHEET NO.

MF-961

1/7/2021 5:50:38 PM

ACTIVE CHILLED BEAMS - TWO PIPE, LEVEL 6 - PH4

ACB ##-#	ROOM NO.	ROOM NAME	DIMENSTIONS UNIT LENGTH (IN)	DIMENSTIONS UNIT WIDTH (IN)	THROW	TYPE	PRIMARY AIR INLET DIA. (IN)	PRIMARY AIR AIR FLOW (CFM)	PRIMARY AIR EAT (°F)	PRIMARY AIR MAX AIR PD ("WG)	COOLING PRIMARY AIR SENSIBLE CAP. (BTU/H)	COOLING SECONDARY AIR SENSIBLE CAP. (BTU/H)	COOLING NETT SENSIBLE CAP. (BTU/H)	COOLING EWT (°F)	COOLING FLOW (GPM)	MAX dBA	REMARKS
605-1	605-2	COLLABORATION	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.50	2123.0	5821.0	7944.0	57	1.4	30	BASED ON DADANCO'S ACB40
605-2	605-2	COLLABORATION	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.50	2123.0	5821.0	7944.0	57	1.4	30	BASED ON DADANCO'S ACB40
605-3	605-2	COLLABORATION	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.50	2123.0	5821.0	7944.0	57	1.4	30	BASED ON DADANCO'S ACB40
605A-1	605A	CONFERENCE RM	72	24	TWO-WAY	TWO-PIPE	6	105	52	0.50	2623.0	5590.0	9704.0	57	1.3	30	BASED ON DADANCO'S ACB40
605A-2	605A	CONFERENCE RM	72	24	TWO-WAY	TWO-PIPE	6	105	52	0.50	2623.0	5590.0	9704.0	57	1.3	30	BASED ON DADANCO'S ACB40
606	606	COPY	72	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1303.0	4212.0	5515.0	57	1.1	30	BASED ON DADANCO'S ACB40
607-1	607	CONFERENCE ROOM	72	24	TWO-WAY	TWO-PIPE	6	150	52	0.50	3258.0	5405.0	8664.0	57	1.1	30	BASED ON DADANCO'S ACB40
607-2	607	CONFERENCE ROOM	72	24	TWO-WAY	TWO-PIPE	6	150	52	0.50	3258.0	5405.0	8664.0	57	1.1	30	BASED ON DADANCO'S ACB40
608-1	608	CONFERENCE ROOM	72	24	TWO-WAY	TWO-PIPE	6	150	52	0.50	3258.0	5501.0	8759.0	57	1.1	30	BASED ON DADANCO'S ACB40
608-2	608	CONFERENCE ROOM	72	24	TWO-WAY	TWO-PIPE	6	150	52	0.50	3258.0	5501.0	8759.0	57	1.1	30	BASED ON DADANCO'S ACB40
609	609	COLLABORATION	72	24	TWO-WAY	TWO-PIPE	6	70	52	0.50	1521.0	4733.0	6253.0	57	1.6	30	BASED ON DADANCO'S ACB40
610	610	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	8	65	52	0.50	1412.0	4315.0	5727.0	57	1.4	30	BASED ON DADANCO'S ACB40
611	611	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	8	65	52	0.50	1412.0	4429.0	5841.0	57	1.4	30	BASED ON DADANCO'S ACB40
612-1	612	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	8	100	52	0.50	1846.0	4555.0	6401.0	57	1.4	30	BASED ON DADANCO'S ACB40
612-2	612	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	8	100	52	0.50	1846.0	4555.0	6401.0	57	1.4	30	BASED ON DADANCO'S ACB40
612-3	612	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	8	100	52	0.50	1846.0	4555.0	6401.0	57	1.4	30	BASED ON DADANCO'S ACB40
612-4	612	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	8	100	52	0.50	1846.0	4555.0	6401.0	57	1.4	30	BASED ON DADANCO'S ACB40
613	613	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	65	52	0.50	1412.0	4429.0	5841.0	57	1.6	30	BASED ON DADANCO'S ACB40
615	615	OFFICE	72	24	TWO-WAY	TWO-PIPE	6	65	52	0.50	1412.0	4429.0	5841.0	57	1.6	30	BASED ON DADANCO'S ACB40
616	616	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	65	52	0.50	1086.0	3729.0	4815.0	57	1.6	30	BASED ON DADANCO'S ACB40
617	617	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	65	52	0.50	1412.0	4429.0	5841.0	57	1.6	30	BASED ON DADANCO'S ACB40
618-1	618	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	1412.0	4332.0	5744.0	57	1.6	30	BASED ON DADANCO'S ACB40
618-2	618	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	1412.0	4332.0	5744.0	57	1.6	30	BASED ON DADANCO'S ACB40
618-3	618	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	1412.0	4332.0	5744.0	57	1.6	30	BASED ON DADANCO'S ACB40
618-4	618	POST 03C/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	1412.0	4332.0	5744.0	57	1.6	30	BASED ON DADANCO'S ACB40
619	619	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	65	52	0.50	1412.0	4429.0	5841.0	57	1.6	30	BASED ON DADANCO'S ACB40
620	620	OFFICE	72	24	TWO-WAY	TWO-PIPE	6	65	52	0.50	1086.0	3729.0	4815.0	57	1.6	30	BASED ON DADANCO'S ACB40
621	621	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	65	52	0.50	1412.0	4429.0	5841.0	57	1.6	30	BASED ON DADANCO'S ACB40
622	622	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	65	52	0.50	1412.0	4429.0	5841.0	57	1.6	30	BASED ON DADANCO'S ACB40
623-1	623	POST 05C/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	1846.0	4555.0	6401.0	57	1.6	30	BASED ON DADANCO'S ACB40
623-2	623	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	1846.0	4555.0	6401.0	57	1.6	30	BASED ON DADANCO'S ACB40
623-3	623	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	1846.0	4555.0	6401.0	57	1.6	30	BASED ON DADANCO'S ACB40
623-4	623	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	1846.0	4555.0	6401.0	57	1.6	30	BASED ON DADANCO'S ACB40
624	624	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	65	52	0.50	1086.0	3729.0	4815.0	57	1.6	30	BASED ON DADANCO'S ACB40
625	625	OFFICE	72	24	TWO-WAY	TWO-PIPE	6	65	52	0.50	1412.0	4429.0	5841.0	57	1.6	30	BASED ON DADANCO'S ACB40
631	631	COPY	72	24	TWO-WAY	TWO-PIPE	6	55	52	0.50	978.0	3313.0	4290.0	57	1.4	30	BASED ON DADANCO'S ACB40
632	632	OFFICE	72	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1086.0	3756.0	4842.0	57	1.4	30	BASED ON DADANCO'S ACB40
633	633	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1086.0	3652.0	4738.0	57	1.4	30	BASED ON DADANCO'S ACB40
634-1	634	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	2172.0	5139.0	7311.0	57	1.6	30	BASED ON DADANCO'S ACB40
634-2	634	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	2172.0	5139.0	7311.0	57	1.6	30	BASED ON DADANCO'S ACB40
634-3	634	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	2172.0	5139.0	7311.0	57	1.6	30	BASED ON DADANCO'S ACB40
634-4	634	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	2172.0	5139.0	7311.0	57	1.6	30	BASED ON DADANCO'S ACB40
635	635	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1086.0	3756.0	4842.0	57	1.4	30	BASED ON DADANCO'S ACB40
636	636	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1086.0	3756.0	4842.0	57	1.4	30	BASED ON DADANCO'S ACB40
637	637	OFFICE	72	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1086.0	3652.0	4738.0	57	1.4	30	BASED ON DADANCO'S ACB40
638	638	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1086.0	3756.0	4842.0	57	1.4	30	BASED ON DADANCO'S ACB40
639-1	639	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	2172.0	5139.0	7311.0	57	1.6	30	BASED ON DADANCO'S ACB40
639-2	639	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	2172.0	5139.0	7311.0	57	1.6	30	BASED ON DADANCO'S ACB40
639-3	639	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	2172.0	5139.0	7311.0	57	1.6	30	BASED ON DADANCO'S ACB40
639-4	639	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	2172.0	5139.0	7311.0	57	1.6	30	BASED ON DADANCO'S ACB40
640	640	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1086.0	3756.0	4842.0	57	1.4	30	BASED ON DADANCO'S ACB40
641	641	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1086.0	3652.0	4738.0	57	1.4	30	BASED ON DADANCO'S ACB40
643	643	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1086.0	3756.0	4842.0	57	1.4	30	BASED ON DADANCO'S ACB40
644	644	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1086.0	3756.0	4842.0	57	1.4	30	BASED ON DADANCO'S ACB40
645	645	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1412.0	4332.0	5744.0	57	1.4	30	BASED ON DADANCO'S ACB40
646	646	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	760.0	2703.0	3463.0	57	1.4	30	BASED ON DADANCO'S ACB40
647-1	647	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	1846.0	4688.0	6535.0	57	1.4	30	BASED ON DADANCO'S ACB40
647-2	647	POST 06B/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	1846.0	4688.0	6535.0	57	1.4	30	BASED ON DADANCO'S ACB40
647-3	647	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	1846.0	4688.0	6535.0	57	1.4	30	BASED ON DADANCO'S ACB40
647-4	647	POST DOC/GRAD/TECH	72	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	1846.0	4688.0	6535.0	57	1.4	30	BASED ON DADANCO'S ACB40
648	648	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1086.0	3756.0	4842.0	57	1.4	30	BASED ON DADANCO'S ACB40
649	649	FACULTY OFFICE	72	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1086.0	3756.0	4842.0	57	1.4	30	BASED ON DADANCO'S ACB40
650-1	650	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
650-2	650	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
650-3	650	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
650-4	650	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
650-5	650	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
650-6	650	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
650B	650B	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
650C-1	650C	LINEAR EQUIP ROOM	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.60	1670.0	4340.0	6010.0	57	1.3	30	BASED ON DADANCO'S ACB40
650C-2	650C	LINEAR EQUIP ROOM	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.60	1670.0	4340.0	6010.0	57	1.3	30	BASED ON DADANCO'S ACB40
650D	650D	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
650E	650E	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
650F	650F	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
650G	650G	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
650H-1	650H	LINEAR EQUIP ROOM	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.60	1670.0	4340.0	6010.0	57	1.3	30	BASED ON DADANCO'S ACB40
650H-2	650H	LINEAR EQUIP ROOM	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.60	1670.0	4340.0	6010.0	57	1.3	30	BASED ON DADANCO'S ACB40
650J	650J	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
650K	650K	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
651-1	651	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
651-2	651	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
651-3	651	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
651-4	651	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
651-5	651	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
651-6	651	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
651B	651B	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
651C-1	651C	LINEAR EQUIP ROOM	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.60	1670.0	4340.0	6010.0	57	1.3	30	BASED ON DADANCO'S ACB40
651C-2	651C	LINEAR EQUIP ROOM	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.60	1670.0	4340.0	6010.0	57	1.3	30	BASED ON DADANCO'S ACB40
651D	651D	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
651E	651E	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
651F	651F	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
651G	651G	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
651H-1	651H	LINEAR EQUIP ROOM	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.60	1670.0	4340.0	6010.0	57	1.3	30	BASED ON DADANCO'S ACB40
651H-2	651H	LINEAR EQUIP ROOM	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.60	1670.0	4340.0	6010.0	57	1.3	30	BASED ON DADANCO'S ACB40
651J	651J	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
651K	651K	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
652-1	652	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
652-2	652	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
652-3	652	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
652-4	652	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
652-5	652	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	2561.0	5223.0	7783.0	57	1.6	30	BASED ON DADANCO'S ACB40
652-6	652	LAB NEIGHBORHOOD MODULE	72	24	TWO-WAY	TWO-PIPE	6	115	52	0.60	3194.0	5223.0	8417.0	57	1.6	30	BASED ON DADANCO'S ACB40
652A	652A	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
652B	652B	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
652C-1	652C	LINEAR EQUIP ROOM	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.60	1670.0	4340.0	6010.0	57	1.3	30	BASED ON DADANCO'S ACB40
652C-2	652C	LINEAR EQUIP ROOM	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.60	1670.0	4340.0	6010.0	57	1.3	30	BASED ON DADANCO'S ACB40
652D	652D	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
652E	652E	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
652F	652F	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
652G	652G	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40
652H-1	652H	LINEAR EQUIP ROOM	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.60	1670.0	4340.0	6010.0	57	1.3	30	BASED ON DADANCO'S ACB40
652H-2	652H	LINEAR EQUIP ROOM	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.60	1670.0	4340.0	6010.0	57	1.3	30	BASED ON DADANCO'S ACB40
652J	652J	PROCEDURE ROOM	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.60	2115.0	3493.0	5608.0	57	1.6	30	BASED ON DADANCO'S ACB40

ACTIVE CHILLED BEAMS - FOUR PIPE - PH4

ID-TYPE	ACB ##-#	ROOM NO.	ROOM NAME	DIMENSTIONS UNIT LENGTH (IN)	DIMENSTIONS UNIT WIDTH (IN)	THROW	TYPE	PRIMARY AIR INLET DIA. (IN)	PRIMARY AIR AIR FLOW (CFM)	PRIMARY AIR EAT (°F)	PRIMARY AIR MAX AIR PD ("WG)	COOLING PRIMARY AIR SENSIBLE CAP. (BTU/H)	COOLING SECONDARY AIR SENSIBLE CAP. (BTU/H)	COOLING NETT SENSIBLE CAP. (BTU/H)	COOLING EWT (°F)	COOLING FLOW (GPM)	HEATING WATER CAP. (BTU/H)	HEATING EWT (°F)	HEATING MAX WATER PD (FT)	MAX dBA	REMARKS
ACB	626-1	626	COLLABORATION	72	24	TWO-WAY	FOUR-PIPE	6	160	52	0.60	3563	4450	8013	57	1.7	4750	180	5.00	30	BASED ON DADANCO'S ACB40
ACB	626-2	626	COLLABORATION	72	24	TWO-WAY	FOUR-PIPE	6	160	52	0.60	3563	4450	8013	57	1.7	4750	180	5.00	30	BASED ON DADANCO'S ACB40

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By TFM

Checked By DMS

Client Number 514

Project Number 15576

STATE OF KENTUCKY SCOTT FOSATI 31321 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING

MECHANICAL SCHEDULES

SHEET NO.

MF-962

1/7/2021 5:50:48 PM

ACTIVE CHILLED BEAMS - TWO PIPE, LOWER LEVEL - PH4

ACB ##-#	ROOM NO.	ROOM NAME	DIMENSTIONS UNIT LENGTH (IN)	UNIT WIDTH (IN)	THROW	TYPE	PRIMARY AIR INLET DIA. (IN)	AIR FLOW (CFM)	EAT (°F)	MAX AIR PD ("WG)	COOLING PRIMARY AIR SENSIBLE CAP. (BTU/H)	SECONDARY AIR SENSIBLE CAP. (BTU/H)	NETT SENSIBLE CAP. (BTU/H)	EWT (°F)	LWT (°F)	FLOW (GPM)	MAX dBA	REMARKS
074A	074A	BEHAVIOR	48	24	TWO-WAY	TWO-PIPE	6	75	52	0.50	1874.0	2402.0	4276.0	57	67	0.5	24	
074B	074B	BEHAVIOR	48	24	TWO-WAY	TWO-PIPE	6	75	52	0.50	1874.0	2402.0	4276.0	57	67	0.5	24	
074C	074C	BEHAVIOR	48	24	TWO-WAY	TWO-PIPE	6	75	52	0.50	1874.0	2402.0	4276.0	57	67	0.5	24	
074D-1	074D	BEHAVIOR	48	24	TWO-WAY	TWO-PIPE	6	75	52	0.50	1874.0	2402.0	4276.0	57	67	0.5	24	
074D-2	074D	BEHAVIOR	48	24	TWO-WAY	TWO-PIPE	6	75	52	0.50	1874.0	2402.0	4276.0	57	67	0.5	24	
074E-1	074E	BEHAVIOR	48	24	TWO-WAY	TWO-PIPE	6	75	52	0.50	1874.0	2402.0	4276.0	57	67	0.5	24	
074E-2	074E	BEHAVIOR	48	24	TWO-WAY	TWO-PIPE	6	75	52	0.50	1874.0	2402.0	4276.0	57	67	0.5	24	
076-1	076	FLOW - CYTOMETRY LAB	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.50	2123.0	3325.0	5449.0	57	68	0.6	24	
076-2	076	FLOW - CYTOMETRY LAB	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.50	2123.0	3325.0	5449.0	57	68	0.6	24	
076-3	076	FLOW - CYTOMETRY LAB	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.50	2123.0	3325.0	5449.0	57	68	0.6	24	
076A-1	076A	FLOW - IM LAB	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.50	2123.0	3325.0	5449.0	57	68	0.6	22	
076A-2	076A	FLOW - IM LAB	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.50	2123.0	3325.0	5449.0	57	68	0.6	22	
076A-3	076A	FLOW - IM LAB	72	24	TWO-WAY	TWO-PIPE	6	85	52	0.50	2123.0	3325.0	5449.0	57	68	0.6	22	
076C	076C	OFFICE	48	24	TWO-WAY	TWO-PIPE	6	20	52	0.50	500.0	1486.0	1986.0	57	63	0.5	20	
080B	080B	SUPPORT	48	24	TWO-WAY	TWO-PIPE	6	50	52	0.50	1249.0	1984.0	3233.0	57	65	0.5	21	
080C	080C	ANIMAL RM.	48	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	2498.0	2785.0	5283.0	57	69	0.5	31	
080D-1	080D	ULTRASOUND	48	24	TWO-WAY	TWO-PIPE	6	50	52	0.50	1249.0	1984.0	3233.0	57	65	0.5	21	
080D-2	080D	ULTRASOUND	48	24	TWO-WAY	TWO-PIPE	6	50	52	0.50	1249.0	1984.0	3233.0	57	65	0.5	21	
080E-1	080E	ULTRASOUND	48	24	TWO-WAY	TWO-PIPE	6	50	52	0.50	1249.0	1984.0	3233.0	57	65	0.5	21	
080E-2	080E	ULTRASOUND	48	24	TWO-WAY	TWO-PIPE	6	50	52	0.50	1249.0	1984.0	3233.0	57	65	0.5	21	
080F-1	080F	ULTRASOUND	48	24	TWO-WAY	TWO-PIPE	6	50	52	0.50	1249.0	1984.0	3233.0	57	65	0.5	21	
080F-2	080F	ULTRASOUND	48	24	TWO-WAY	TWO-PIPE	6	50	52	0.50	1249.0	1984.0	3233.0	57	65	0.5	21	
080G-1	080G	MICRO-CT	72	24	TWO-WAY	TWO-PIPE	6	90	52	0.50	2248.0	3899.0	6148.0	57	63	1.3	22	
080G-2	080G	MICRO-CT	72	24	TWO-WAY	TWO-PIPE	6	90	52	0.50	2248.0	3899.0	6148.0	57	63	1.3	22	
080G-3	080G	MICRO-CT	72	24	TWO-WAY	TWO-PIPE	6	90	52	0.50	2248.0	3899.0	6148.0	57	63	1.3	22	
080G-4	080G	MICRO-CT	72	24	TWO-WAY	TWO-PIPE	6	90	52	0.50	2248.0	3899.0	6148.0	57	63	1.3	22	
082A-1	082A	IMAGING	48	24	TWO-WAY	TWO-PIPE	6	55	52	0.50	1374.0	2534.0	3908.0	57	60	1.7	22	
082A-2	082A	IMAGING	48	24	TWO-WAY	TWO-PIPE	6	55	52	0.50	1374.0	2534.0	3908.0	57	60	1.7	22	
082B	082B	IMAGING	48	24	TWO-WAY	TWO-PIPE	6	55	52	0.50	1374.0	2109.0	3483.0	57	66	0.5	22	
082C	082C	IMAGING	48	24	TWO-WAY	TWO-PIPE	6	55	52	0.50	1374.0	2109.0	3483.0	57	66	0.5	22	
082D	082D	IMAGING	48	24	TWO-WAY	TWO-PIPE	6	55	52	0.50	1374.0	2109.0	3483.0	57	66	0.5	22	
084A	084A	IMAGING	48	24	TWO-WAY	TWO-PIPE	6	85	52	0.50	1374.0	2109.0	3483.0	57	66	0.5	22	
084E	084E	IMAGING	48	24	TWO-WAY	TWO-PIPE	6	55	52	0.50	1374.0	2109.0	3483.0	57	66	0.5	22	
086A-1	086A	WET LAB	48	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	2489.0	3375.0	5873.0	57	64	1.0	31	
086A-2	086A	WET LAB	48	24	TWO-WAY	TWO-PIPE	6	100	52	0.50	2489.0	3375.0	5873.0	57	64	1.0	31	
088A	088A	OFFICE	48	24	TWO-WAY	TWO-PIPE	6	25	52	0.50	625.0	1748.0	2372.0	57	64	0.5	20	
088B	088B	DATA PROCESSING	48	24	TWO-WAY	TWO-PIPE	6	95	52	0.50	2373.0	4174.0	6547.0	57	62	1.7	29	
088C-1	088C	STAFF	48	24	TWO-WAY	TWO-PIPE	6	35	52	0.50	874.0	2699.0	3574.0	57	63	1.0	22	
088C-2	088C	STAFF	48	24	TWO-WAY	TWO-PIPE	6	35	52	0.50	874.0	2699.0	3574.0	57	63	1.0	22	
088D-1	088D	IMAGING	48	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1499.0	2068.0	3567.0	57	66	0.5	22	
088D-2	088D	IMAGING	48	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1499.0	2068.0	3567.0	57	66	0.5	22	
088D-3	088D	IMAGING	48	24	TWO-WAY	TWO-PIPE	6	60	52	0.50	1499.0	2068.0	3567.0	57	66	0.5	22	
088E	088E	OFFICE	48	24	TWO-WAY	TWO-PIPE	6	25	52	0.50	625.0	1748.0	2372.0	57	64	0.5	20	
088F	088F	OFFICE	48	24	TWO-WAY	TWO-PIPE	6	20	52	0.50	500.0	1486.0	1986.0	57	63	0.5	20	

EXHAUST FANS - PH4

TAG		LEVEL	LOCATION	CFM	ESP	RPM	INTERLOCK	MOTOR HP	PH	VOLT	WEIGHT	REMARKS
EF	002	LOWER LEVEL	002 LAUNDRY ROOM	150	0.50	2620	DRYER	0.15	1	120	10	CONTINENTAL DVK100B, WITH LT100 LINT TRAP

DIFFUSERS, REGISTERS AND GRILLES PH4

MARK	SERVICE	CFM RANGE	NECK SIZE	FACE SIZE	FACE TYPE	PATTERN	FINISH	MATERIAL	MOUNTING SURFACE	REMARKS
CD-1	SUPPLY	0-140	6"Ø	24x24	PERF.	(3)	(2)	STEEL	SURFACE/LAY-IN	PRICE MODEL PDSP
CD-1	SUPPLY	145-250	8"Ø	24x24	PERF.	(3)	(2)	STEEL	SURFACE/LAY-IN	PRICE MODEL PDSP
CD-1	SUPPLY	255-380	10"Ø	24x24	PERF.	(3)	(2)	STEEL	SURFACE/LAY-IN	PRICE MODEL PDSP
CD-1	SUPPLY	385-550	12"Ø	24x24	PERF.	(3)	(2)	STEEL	SURFACE/LAY-IN	PRICE MODEL PDSP
CD-2	SUPPLY	145-250	8"Ø	24x24	PERF.	(3)	(2)	ALUMINUM	SURFACE/LAY-IN	PRICE MODEL APDSP
CD-4	SUPPLY	140	6"Ø	12x12	PERF.	(3)	BWE	STAINLESS STEEL	GYPSUM BOARD	TITUS MODEL PAS-SS
CD-6	SUPPLY	245-350	10"Ø	24x48	LAMINAR FLOW.	N/A	N/A	STAINLESS STEEL	SURFACE/LAY-IN	PRICE MODEL LFD
CD-6	SUPPLY	355-500	12"Ø	24x48	LAMINAR FLOW.	N/A	N/A	STAINLESS STEEL	SURFACE/LAY-IN	PRICE MODEL LFD
G-1	RA/EA/TA	(3)	(3)	(3)	LOUVER	45 DEGREE SINGLE DEFLECTION	(2)	STEEL	(3)	PRICE MODEL 60
G-2	RA/EA/TA	0-100	6"Ø	24x24	PERF.	-	(2)	STEEL/AL	SURFACE/LAY-IN	PRICE MODEL PDDR
G-2	RA/EA/TA	101-250	8"Ø	24x24	PERF.	-	(2)	STEEL/AL	SURFACE/LAY-IN	PRICE MODEL PDDR
G-2	RA/EA/TA	251-350	10"Ø	24x24	PERF.	-	(2)	STEEL/AL	SURFACE/LAY-IN	PRICE MODEL PDDR
G-2	RA/EA/TA	351-450	12"Ø	24x24	PERF.	-	(2)	STEEL/AL	SURFACE/LAY-IN	PRICE MODEL PDDR
G-3	RA/EA/TA	0-140	6"Ø	12x12	PERF.	-	BWE	STEEL/AL	GYPSUM BOARD	PRICE MODEL PDDR
G-3	RA/EA/TA		8"Ø	16x16	PERF.	-	BWE	STEEL/AL	GYPSUM BOARD	PRICE MODEL PDDR
G-4	EXAUST OR RETURN	(3)	8"Ø	24x24	PERF.	-	(2)	AL	(1)	PRICE MODEL APDDR
G-4	EXAUST OR RETURN	(3)	12"Ø	24x48	PERF.	-	(2)	AL	(1)	PRICE MODEL APDDR
LG-1	EXAUST OR RETURN	(3)	5"Ø	48L	1-SLOT	(3)	WHITE	AL	(3)	PRICE MODEL AS210
LG-1	EXAUST OR RETURN	(3)	5"Ø	72L	1-SLOT	(3)	WHITE	AL	(3)	PRICE MODEL AS210
LG-2	EXAUST OR RETURN	(3)	10"Ø	48L	1-(2.5") SLOT	(3)	WHITE	AL	(3)	PRICE MODEL AS225
G-2										

NOTES:
(1) REFER TO REFLECTED CEILING PLANS.
(2) REFER TO SPECIFICATIONS.
(3) REFER TO PLANS.

RADIANT CEILING PANEL (HEATING ONLY) LEVEL 6 PH4

RCP	LEVEL	PANEL DIMENSIONS WIDTH (IN)	LENGTH (FT)	RADIANT PANEL CAPACITY NO. OF TUBES	TOTAL HEATING CAPACITY (BTU/H)	CAPACITY PER LF (BTU/FT)	GPM	ENTERING WATER TEMP	LEAVING WATER TEMP	AVERAGE WATER TEMP	Description
600N-1	LEVEL 06	36	4' - 2"	8	2,475	592	0.25	180 °F	160 °F	170 °F	1 THRU 4
600N-2	LEVEL 06	20	8' - 10"	6	3,309	375	0.33	180 °F	160 °F	170 °F	1 THRU 4
601A	LEVEL 06	18	5' - 0"	6	1,775	355	0.18	180 °F	160 °F	170 °F	1 THRU 4
602	LEVEL 06	18	10' - 7 1/2"	6	3,768	355	0.38	180 °F	160 °F	170 °F	1 THRU 4
604-1	LEVEL 06	18	7' - 8 1/2"	6	2,740	355	0.27	180 °F	160 °F	170 °F	1 THRU 4
604-2	LEVEL 06	18	7' - 2"	6	2,544	355	0.25	180 °F	160 °F	170 °F	1 THRU 4
605-1	LEVEL 06	20	3' - 6 1/2"	6	1,328	375	0.13	180 °F	160 °F	170 °F	1 THRU 4
605-2	LEVEL 06	20	15' - 4"	6	5,750	375	0.58	180 °F	160 °F	170 °F	1 THRU 4
605-3	LEVEL 06	20	11' - 1"	6	4,156	375	0.42	180 °F	160 °F	170 °F	1 THRU 4
605-3	LEVEL 06	20	18' - 7 1/2"	6	6,989	375	0.70	180 °F	160 °F	170 °F	1 THRU 4
605-4	LEVEL 06	20	17' - 8"	6	6,618	375	0.66	180 °F	160 °F	170 °F	1 THRU 4
606	LEVEL 06	18	7' - 10 1/2"	6	2,794	355	0.28	180 °F	160 °F	170 °F	1 THRU 4
607-1	LEVEL 06	18	9' - 3 1/2"	6	3,304	355	0.33	180 °F	160 °F	170 °F	1 THRU 4
607-2	LEVEL 06	18	6' - 9"	6	2,396	355	0.24	180 °F	160 °F	170 °F	1 THRU 4
608-1	LEVEL 06	18	11' - 2"	6	3,968	355	0.40	180 °F	160 °F	170 °F	1 THRU 4
608-2	LEVEL 06	18	15' - 9"	6	5,591	355	0.56	180 °F	160 °F	170 °F	1 THRU 4
609-1	LEVEL 06	18	9' - 3"	6	3,288	355	0.33	180 °F	160 °F	170 °F	1 THRU 4
609-2	LEVEL 06	18	10' - 7 1/2"	6	3,776	355	0.38	180 °F	160 °F	170 °F	1 THRU 4
610	LEVEL 06	18	9' - 9"	6	3,465	355	0.35	180 °F	160 °F	170 °F	1 THRU 4
611	LEVEL 06	18	10' - 1 1/2"	6	3,600	355	0.36	180 °F	160 °F	170 °F	1 THRU 4
612-1	LEVEL 06	18	18' - 7"	6	6,597	355	0.66	180 °F	160 °F	170 °F	1 THRU 4
612-2	LEVEL 06	18	19' - 8"	6	6,982	355	0.70	180 °F	160 °F	170 °F	1 THRU 4
613	LEVEL 06	18	9' - 0 1/2"	6	3,210	355	0.32	180 °F	160 °F	170 °F	1 THRU 4
615	LEVEL 06	18	9' - 2 1/2"	6	3,271	355	0.33	180 °F	160 °F	170 °F	1 THRU 4
616	LEVEL 06	18	9' - 2 1/2"	6	3,271	355	0.33	180 °F	160 °F	170 °F	1 THRU 4
617	LEVEL 06	18	8' - 2 1/2"	6	2,916	355	0.29	180 °F	160 °F	170 °F	1 THRU 4
618-1	LEVEL 06	18	19' - 8"	6	6,982	355	0.70	180 °F	160 °F	170 °F	1 THRU 4
618-2	LEVEL 06	18	19' - 8"	6	6,982	355	0.70	180 °F	160 °F	170 °F	1 THRU 4
619	LEVEL 06	18	8' - 2 1/2"	6	2,914	355	0.29	180 °F	160 °F	170 °F	1 THRU 4
620	LEVEL 06	18	9' - 2 1/2"	6	3,271	355	0.33	180 °F	160 °F	170 °F	1 THRU 4
621	LEVEL 06	18	9' - 2 1/2"	6	3,268	355	0.33	180 °F	160 °F	170 °F	1 THRU 4
622	LEVEL 06	18	8' - 2 1/2"	6	2,916	355	0.29	180 °F	160 °F	170 °F	1 THRU 4
623-1	LEVEL 06	18	19' - 8"	6	6,982	355	0.70	180 °F	160 °F	170 °F	1 THRU 4
623-2	LEVEL 06	18	19' - 8"	6	6,982	355	0.70	180 °F	160 °F	170 °F	1 THRU 4
624	LEVEL 06	18	8' - 2 1/2"	6	2,916	355	0.29	180 °F	160 °F	170 °F	1 THRU 4
625	LEVEL 06	18	9' - 2 1/2"	6	3,271	355	0.33	180 °F	160 °F	170 °F	1 THRU 4
626-1	LEVEL 06	24	5' - 3 1/2"	6	2,355	445	0.24	180 °F	160 °F	170 °F	1 THRU 4
631	LEVEL 06	18	5' - 10 1/2"	6	2,084	355	0.21	180 °F	160 °F	170 °F	1 THRU 4
632	LEVEL 06	18	9' - 1"	6	3,228	355	0.32	180 °F	160 °F	170 °F	1 THRU 4
633	LEVEL 06	18	8' - 1 1/2"	6	2,886	355	0.29	180 °F	160 °F	170 °F	1 THRU 4
634-1	LEVEL 06	18	19' - 6 1/2"	6	6,939	355	0.69	180 °F	160 °F	170 °F	1 THRU 4
634-2	LEVEL 06	18	19' - 7"	6	6,952	355	0.70	180 °F	160 °F	170 °F	1 THRU 4
635	LEVEL 06	18	8' - 2 1/2"	6	2,916	355	0.29	180 °F	160 °F	170 °F	1 THRU 4
636	LEVEL 06	18	9' - 2 1/2"	6	3,271	355	0.33	180 °F	160 °F	170 °F	1 THRU 4
637	LEVEL 06	18	9' - 2 1/2"	6	3,271	355	0.33	180 °F	160 °F	170 °F	1 THRU 4
638	LEVEL 06	18	8' - 2 1/2"	6	2,914	355	0.29	180 °F	160 °F	170 °F	1 THRU 4
639-1	LEVEL 06	18	19' - 8"	6	6,982	355	0.70	180 °F	160 °F	170 °F	1 THRU 4
639-2	LEVEL 06	18	19' - 8"	6	6,982	355	0.70	180 °F	160 °F	170 °F	1 THRU 4
640	LEVEL 06	18	8' - 1 1/2"	6	2,886	355	0.29	180 °F	160 °F	170 °F	1 THRU 4
641	LEVEL 06	18	9' - 2 1/2"	6	3,271	355	0.33	180 °F	160 °F	170 °F	1 THRU 4
643	LEVEL 06	18	9' - 2 1/2"	6	3,271	355	0.33	180 °F	160 °F	170 °F	1 THRU 4
644	LEVEL 06	18	9' - 2 1/2"	6	3,271	355	0.33	180 °F	160 °F	170 °F	1 THRU 4
645	LEVEL 06	18	9' - 7"	6	3,402	355	0.34	180 °F	160 °F	170 °F	1 THRU 4
646	LEVEL 06	18	7' - 10"	6	2,785	355	0.28	180 °F	160 °F	170 °F	1 THRU 4
647-1	LEVEL 06	18	19' - 8"	6	6,982	355	0.70	180 °F	160 °F	170 °F	1 THRU 4
647-2	LEVEL 06	18	19' - 8 1/2"	6	7,000	355	0.70	180 °F	160 °F	170 °F	1 THRU 4
648	LEVEL 06	18	10' - 1 1/2"	6	3,597	355	0.36	180 °F	160 °F	170 °F	1 THRU 4
649	LEVEL 06	18	9' - 8 1/2"	6	3,448	355	0.34	180 °F	160 °F	170 °F	1 THRU 4

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: TFM
Checked By: DMS
Client Number: 514
Project Number: 15576

STATE OF KENTUCKY
SCOTT FOSTER
31321
LICENSED PROFESSIONAL ENGINEER
1/7/2021

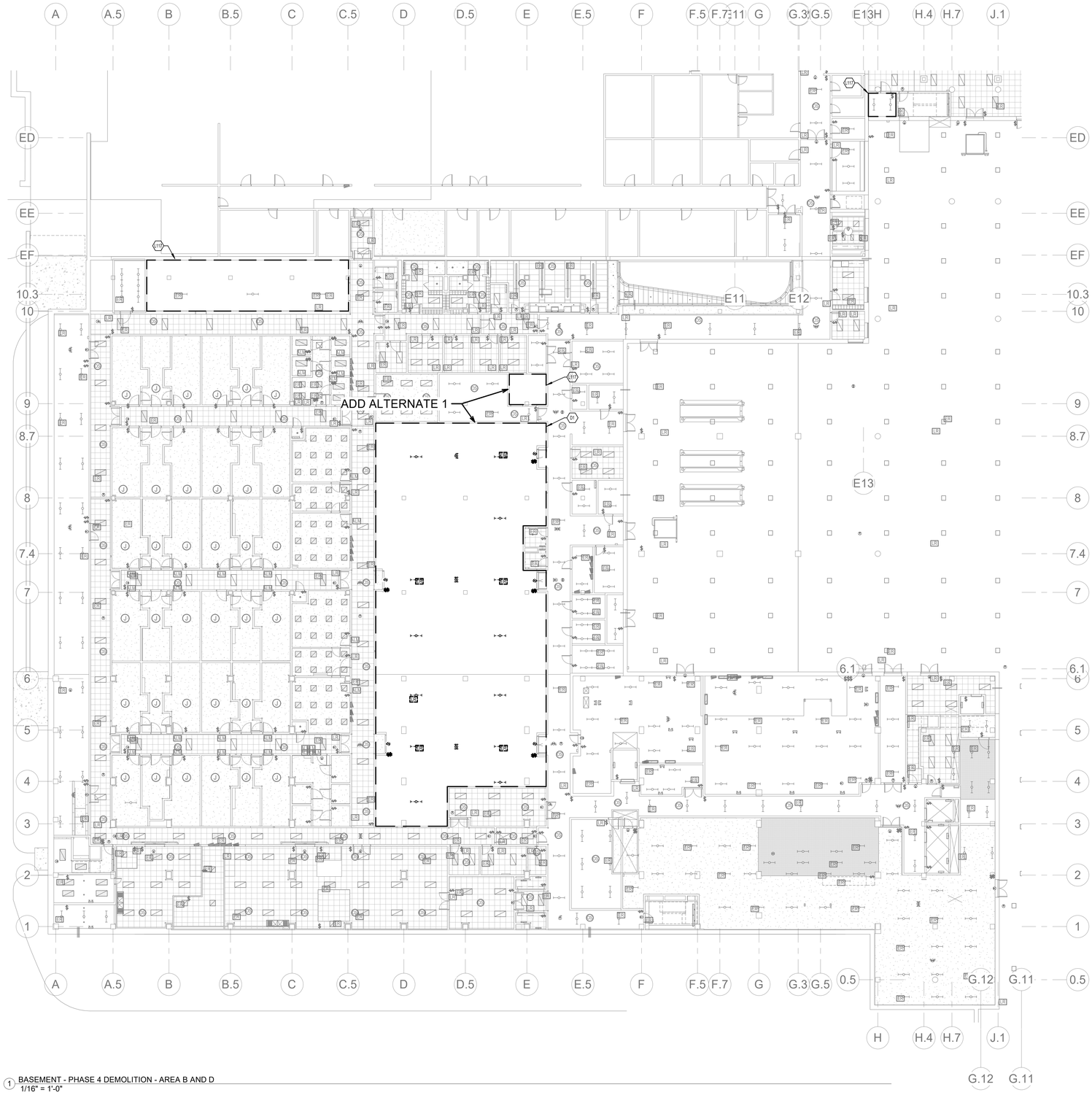
DRAWING
MECHANICAL SCHEDULES

SHEET NO.
MF-963

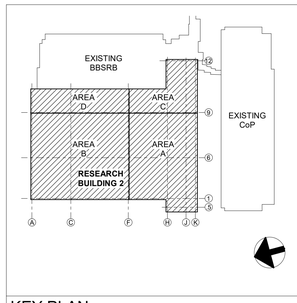
1/7/2021 5:51:02 PM

TAGGED NOTES

Key Value	Keynote Text
D1	DEMOLISH LIGHT FIXTURES AND LIGHTING CONTROLS WITHIN THIS BOUNDARY. REMOVE CONDUIT AND CONDUCTORS BACK TO PANEL OR NEAREST JUNCTION BOX IF CIRCUIT MUST TO REMAIN TO SERVE DOWNSTREAM DEVICES. LABEL BREAKERS AS SPARE AS REQUIRED.
L117	PHASE 4 SCOPE BOUNDARY.



1 BASEMENT - PHASE 4 DEMOLITION - AREA B AND D
1/16" = 1'-0"



KEY PLAN
NTS

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HEALTHY KENTUCKY RESEARCH BUILDING

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760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 DD ISSUANCE	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By CJC

Checked By WD

Client Number

Project Number UKR15

STATE OF KENTUCKY ALAN R. KELLUM 20186 LICENSED PROFESSIONAL ENGINEER

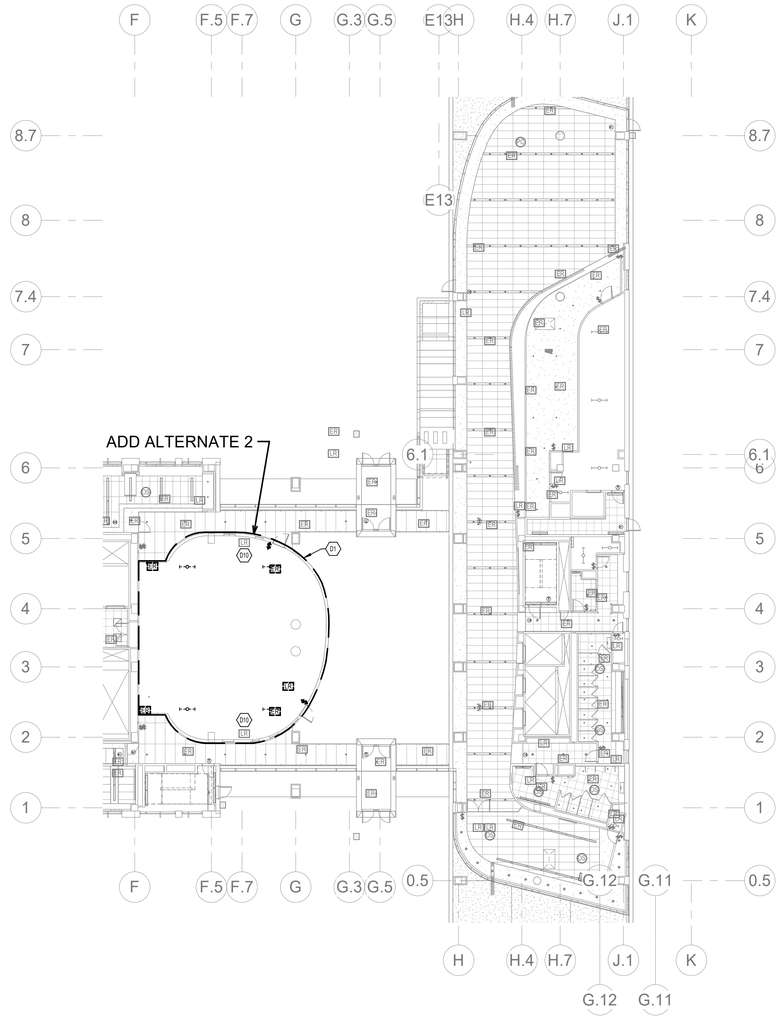
DRAWING

BASEMENT PHASE 4 FITOUT - LIGHTING DEMOLITION PLAN

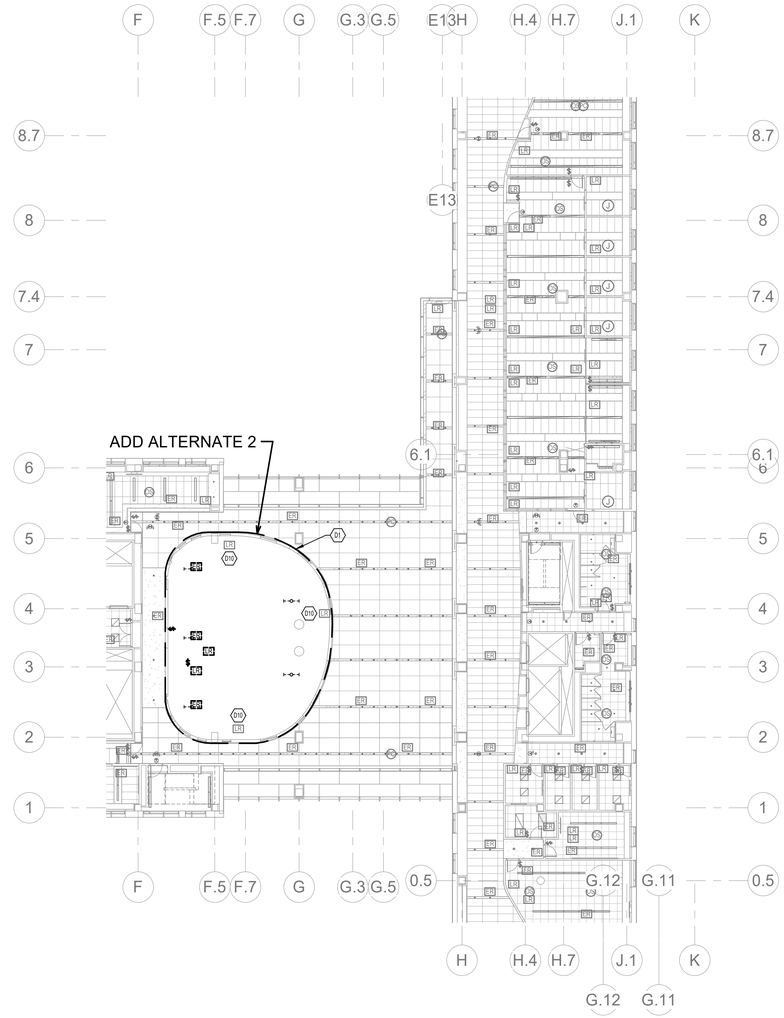
SHEET NO.

EL-060

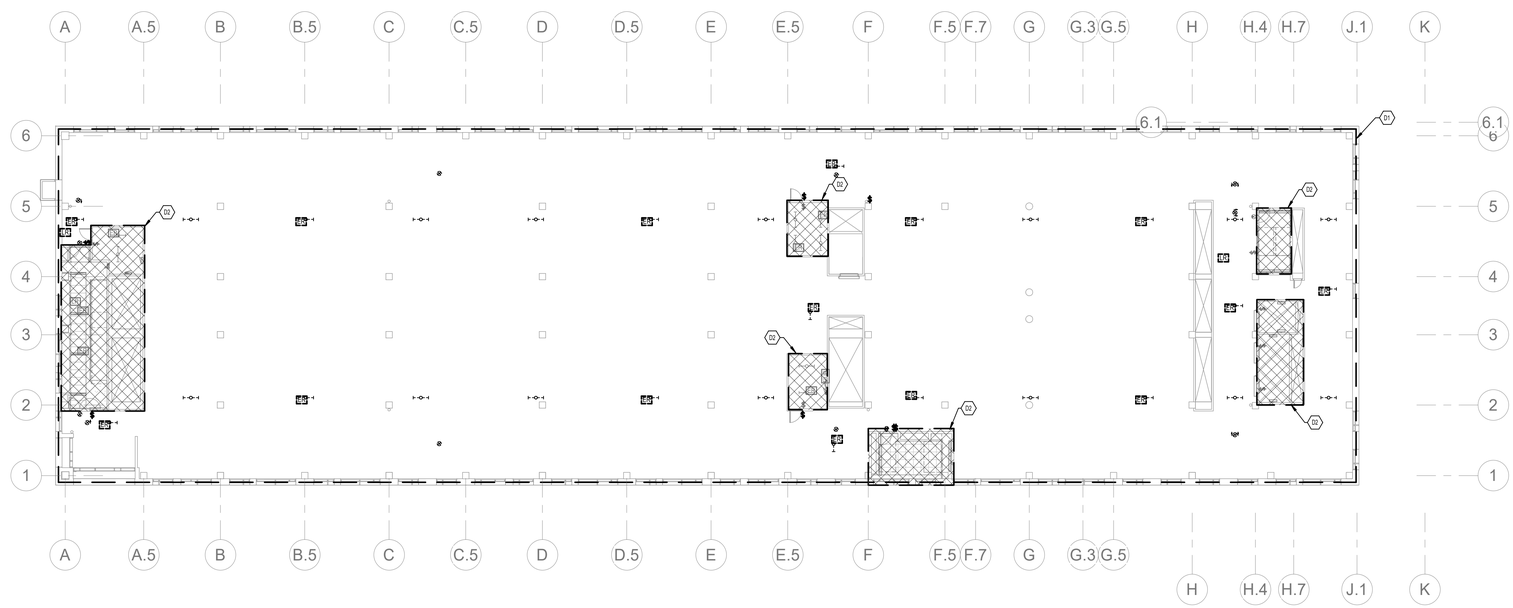
1/11/2021 8:38:59 AM



1 LEVEL 01 PHASE 4 AREA 'A' - DEMOLITION PLAN
1/16" = 1'-0"



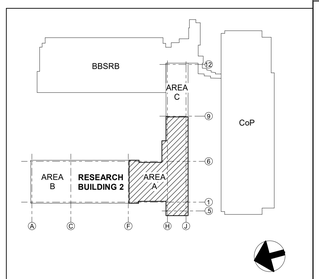
2 LEVEL 02 PHASE 4 AREA 'A' - DEMOLITION PLAN
1/16" = 1'-0"



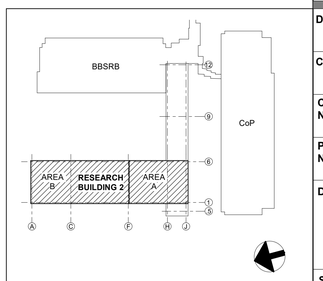
3 LEVEL 06 - PHASE 4 DEMOLITION - OVERALL
1/16" = 1'-0"

TAGGED NOTES

Key Value	Keynote Text
D1	DEMOLISH LIGHT FIXTURES AND LIGHTING CONTROLS WITHIN THIS BOUNDARY. REMOVE CONDUIT AND CONDUCTORS BACK TO PANEL OR NEAREST JUNCTION BOX IF CIRCUIT MUST TO REMAIN TO SERVE DOWNSTREAM DEVICES. LABEL BREAKERS AS SPARE AS REQUIRED.
D2	LIGHTING AND CONTROLS IN THE HATCHED AREA ARE EXISTING TO REMAIN.
D10	RELOCATE EXISTING LIGHTING RELAY TO AVOID ACCESS PANEL BEING REQUIRED IN HARD CEILING TO BE INSTALLED IN THIS AREA. REFER TO NEW WORK PLANS TAGGED NOTE L118 FOR MORE INFORMATION.



KEY PLAN
NTS



KEY PLAN
NTS

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760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 DD ISSUANCE	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By CJC

Checked By WD

Client Number

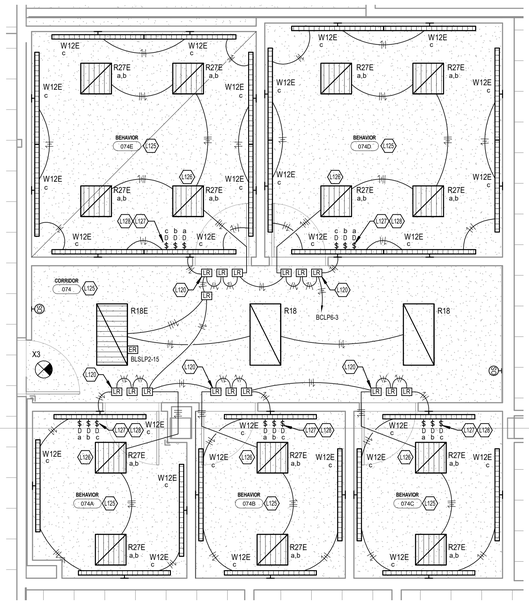
STATE OF KENTUCKY ALAN R. KELLUM 20166 LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

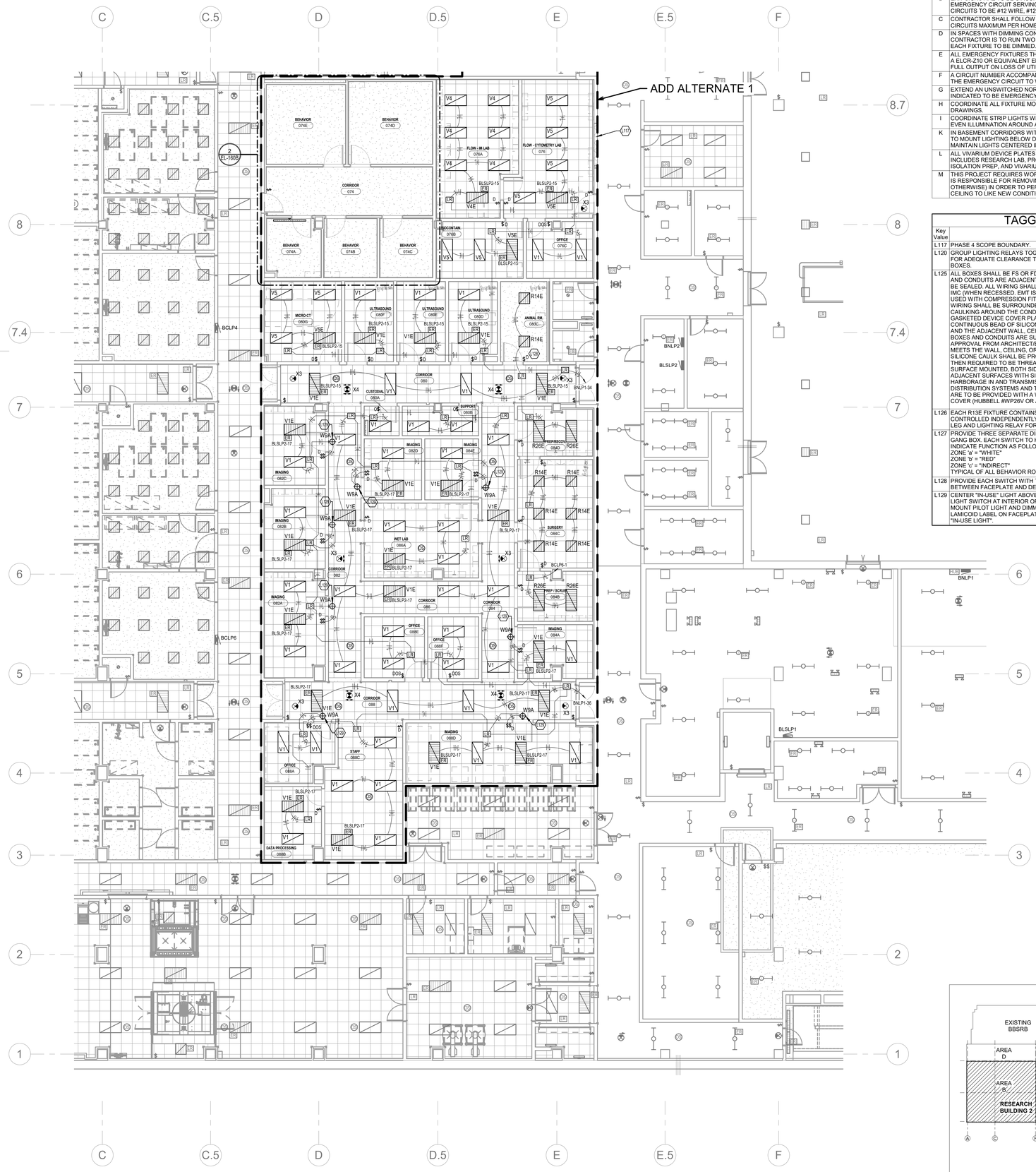
DRAWING
LEVEL 01, LEVEL 02, LEVEL 04 PHASE 4 FITOUT - LIGHTING DEMOLITION PLAN

SHEET NO.
EL-061

1/11/2021 8:39:15 AM



② BASEMENT PHASE 4 FITOUT - BEHAVIOR SUITE (ADD ALTERNATE 1)
1/4" = 1'-0"



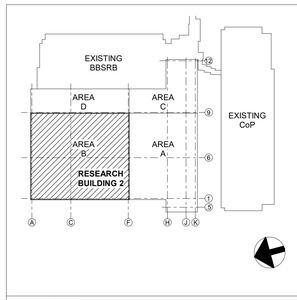
① BASEMENT PHASE 4 FITOUT AREA 'B' - LIGHTING PLAN
1/8" = 1'-0"

GENERAL LIGHTING NOTES

A	FIXTURES TAGGED AS "N/L" (NIGHT-LIGHT) ARE TO BE UNSWITCHED AND REMAIN ILLUMINATED CONTINUOUSLY.
B	EXIT SIGNS ARE TO BE CIRCUITED USING NEAREST UNSWITCHED EMERGENCY CIRCUIT SERVING THE SPACE FIXTURE IS MOUNTED IN. CIRCUITS TO BE #12 WIRE, #12 GROUND IN 3/4" CONDUIT.
C	CONTRACTOR SHALL FOLLOW CIRCUIT LAYOUT WITH THREE (3) BRANCH CIRCUITS MAXIMUM PER HOMERUN.
D	IN SPACES WITH DIMMING CONTROL OR DAYLIGHT HARVESTING: CONTRACTOR IS TO RUN TWO DIMMING CONTROL WIRES TO DRIVER OF EACH FIXTURE TO BE DIMMED.
E	ALL EMERGENCY FIXTURES THAT ARE TO BE DIMMED SHALL BE SERVED BY A ELCR-Z10 OR EQUIVALENT EMERGENCY RELAY TO RETURN FIXTURES TO FULL OUTPUT ON LOSS OF UTILITY POWER.
F	A CIRCUIT NUMBER ACCOMPANYING A LIGHT FIXTURE OR RELAY INDICATES THE EMERGENCY CIRCUIT TO WHICH THE FIXTURE IS CONNECTED.
G	EXTEND AN UNSWITCHED NORMAL SENSING CONDUCTOR TO ALL FIXTURES INDICATED TO BE EMERGENCY.
H	COORDINATE ALL FIXTURE MOUNTING OPTIONS WITH CEILING SHOP DRAWINGS.
I	COORDINATE STRIP LIGHTS WITH EQUIPMENT LOCATIONS TO PROVIDE EVEN ILLUMINATION AROUND AREAS REQUIRING ACCESS.
K	IN BASEMENT CORRIDORS WITH NO CEILING PROVIDE UNISTRUT FRAMING TO MOUNT LIGHTING BELOW DUCTWORK WHERE CONFLICT EXISTS. MAINTAIN LIGHTS CENTERED IN CORRIDOR.
L	ALL VIVARIUM DEVICE PLATES AND COVERS TO BE STAINLESS STEEL. THIS INCLUDES RESEARCH LAB, PROCEDURE ROOM, ISOLATION CUBICLE, ISOLATION PREP, AND VIVARIUM CORRIDORS.
M	THIS PROJECT REQUIRES WORK ABOVE EXISTING CEILINGS. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING CEILINGS (TILE, GYP OR OTHERWISE) IN ORDER TO PERFORM HIS SCOPE OF WORK. RETURN CEILING TO LIKE NEW CONDITION.

TAGGED NOTES

Key Value	Keynote Text
L117	PHASE 4 SCOPE BOUNDARY.
L120	GROUP LIGHTING RELAYS TOGETHER AND PROVIDE ACCESS PANEL SIZED FOR ADEQUATE CLEARANCE TO ALL RELAYS AND ASSOCIATED JUNCTION BOXES.
L125	ALL BOXES SHALL BE FS OR FD TYPE WITH HUBS. WHERE DEVICE BOXES AND CONDUITS ARE ADJACENT WALL, CEILING, OR FLOOR SURFACE SHALL BE SEALED. ALL WIRING SHALL BE PROVIDED IN EITHER THREADED RGS OR IMC (WHEN RECESSED. EMT IS ALSO PERMITTED WHEN RECESSED AND USED WITH COMPRESSION FITTINGS) ONCE WIRING IS INSTALLED, THE WIRING SHALL BE SURROUNDED BY A ONE INCH BARRIER OF SILICONE CAULKING AROUND THE CONDUCTORS WITHIN THE DEVICE BOX HUB. GASKETED DEVICE COVER PLATES SHALL BE USED. WITH AN ADDITIONAL CONTINUOUS BEAD OF SILICONE CAULKING BETWEEN THE DEVICE PLATE AND THE ADJACENT WALL, CEILING, OR FLOOR SURFACE. WHERE DEVICE BOXES AND CONDUITS ARE SURFACE MOUNTED (ONLY WITH PRIOR APPROVAL FROM ARCHITECT/ENGINEER), AND WHERE THE DEVICE BOX MEETS THE WALL, CEILING, OR FLOOR SURFACE, A CONTINUOUS BEAD OF SILICONE CAULK SHALL BE PROVIDED. NON-RECESSED CONDUITS ARE THEN REQUIRED TO BE THREADED RGS ON MINIMUM 3/4" STANDOFFS, OR IF SURFACE MOUNTED, BOTH SIDE OF THE CONDUIT SHALL BE SEALED TO ADJACENT SURFACES WITH SILICONE CAULK. THIS PREVENTS VERMIN HARBORAGE IN AND TRANSMISSION THROUGH THE ELECTRICAL DISTRIBUTION SYSTEMS AND THE PASSAGE OF AIR. DUPLEX RECEPTACLES ARE TO BE PROVIDED WITH A WEATHERPROOF, CAST ALUMINUM LIFT COVER (HUBBELL #WP26V OR APPROVED EQUAL).
L126	EACH R13E FIXTURE CONTAINS TWO LED ARRAYS THAT ARE TO BE CONTROLLED INDEPENDENTLY AS ZONES 'a' AND 'b'. PROVIDE A SWITCHED LEG AND LIGHTING RELAY FOR EACH ZONE. (TYPICAL THIS SPACE)
L127	PROVIDE THREE SEPARATE DIMMING SWITCHES AND MOUNT IN A THREE GANG BOX. EACH SWITCH TO HAVE MANUFACTURER ENGRAVING TO INDICATE FUNCTION AS FOLLOWS: ZONE 'a' = "WHITE" ZONE 'b' = "RED" ZONE 'c' = "INDIRECT" TYPICAL OF ALL BEHAVIOR ROOMS.
L128	PROVIDE EACH SWITCH WITH TRANSPARENT SILICONE RUBBER MAT BETWEEN FACEPLATE AND DEVICE (LEGRAND 4516GAS OR EQUAL).
L129	CENTER "IN-USE" LIGHT ABOVE DOOR. PROVIDE ILLUMINATED-ON PILOT LIGHT SWITCH AT INTERIOR OF IMAGE SUITE TO CONTROL "IN-USE" LIGHT. MOUNT PILOT LIGHT AND DIMMER SWITCH IN DUAL GANG BOX. PROVIDE LAMICOID LABEL ON FACEPLATE ABOVE PILOT LIGHT SWITCH INDICATING "IN-USE LIGHT".



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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 DD ISSUANCE	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By CJC

Checked By WD

Client Number

STATE OF KENTUCKY ALAN R. KELLUM 20166 LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

DRAWING

BASEMENT PHASE 4 FITOUT - AREA 'B' - LIGHTING PLAN

SHEET NO.

EL-160B

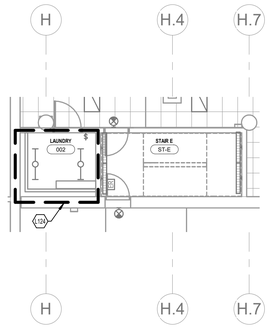
1/11/2021 8:39:32 AM

GENERAL LIGHTING NOTES

A	FIXTURES TAGGED AS "N/L" (NIGHT-LIGHT) ARE TO BE UNSWITCHED AND REMAIN ILLUMINATED CONTINUOUSLY.
B	EXIT SIGNS ARE TO BE CIRCUITED USING NEAREST UNSWITCHED EMERGENCY CIRCUIT SERVING THE SPACE FIXTURE IS MOUNTED IN. CIRCUITS TO BE #12 WIRE, #12 GROUND IN 3/4" CONDUIT.
C	CONTRACTOR SHALL FOLLOW CIRCUIT LAYOUT WITH THREE (3) BRANCH CIRCUITS MAXIMUM PER HOMERUN.
D	IN SPACES WITH DIMMING CONTROL OR DAYLIGHT HARVESTING: CONTRACTOR IS TO RUN TWO DIMMING CONTROL WIRES TO DRIVER OF EACH FIXTURE TO BE DIMMED.
E	ALL EMERGENCY FIXTURES THAT ARE TO BE DIMMED SHALL BE SERVED BY A ELCR-Z10 OR EQUIVALENT EMERGENCY RELAY TO RETURN FIXTURES TO FULL OUTPUT ON LOSS OF UTILITY POWER.
F	A CIRCUIT NUMBER ACCOMPANYING A LIGHT FIXTURE OR RELAY INDICATES THE EMERGENCY CIRCUIT TO WHICH THE FIXTURE IS CONNECTED.
G	EXTEND AN UNSWITCHED NORMAL SENSING CONDUCTOR TO ALL FIXTURES INDICATED TO BE EMERGENCY.
H	COORDINATE ALL FIXTURE MOUNTING OPTIONS WITH CEILING SHOP DRAWINGS.
I	COORDINATE STRIP LIGHTS WITH EQUIPMENT LOCATIONS TO PROVIDE EVEN ILLUMINATION AROUND AREAS REQUIRING ACCESS.
K	IN BASEMENT CORRIDORS WITH NO CEILING PROVIDE UNISTRUT FRAMING TO MOUNT LIGHTING BELOW DUCTWORK WHERE CONFLICT EXISTS. MAINTAIN LIGHTS CENTERED IN CORRIDOR.
L	ALL VIVARIUM DEVICE PLATES AND COVERS TO BE STAINLESS STEEL. THIS INCLUDES RESEARCH LAB, PROCEDURE ROOM, ISOLATION CUBICLE, ISOLATION PREP, AND VIVARIUM CORRIDORS.
M	THIS PROJECT REQUIRES WORK ABOVE EXISTING CEILINGS. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING CEILINGS (TILE, GYP OR OTHERWISE) IN ORDER TO PERFORM HIS SCOPE OF WORK. RETURN CEILING TO LIKE NEW CONDITION.

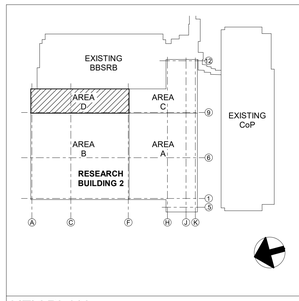
TAGGED NOTES

Key Value	Keynote Text
L99	CONNECT TO LOCAL LIFE SAFETY LIGHTING CIRCUIT.
L117	PHASE 4 SCOPE BOUNDARY.
L119	PROVIDE NEW WALL MOUNT OCCUPANCY SENSORS AND CONNECT TO EXISTING LIGHTING CONTROL RELAY SERVING THIS SPACE. REPROGRAM LIGHTING CONTROLS TO MATCH SEQUENCE OF OPERATION FOR STORAGE ROOM. (TYPICAL THIS SPACE)
L123	CONNECT TO UNSWITCHED SIDE OF LOCAL NORMAL POWER LIGHTING CIRCUIT.
L124	REMOVE AND REINSTALL LIGHTING AND CONTROLS IN THIS SPACE AS REQUIRED FOR WORK TO OCCUR.



2 BASEMENT PHASE 4 FITOUT AREA 'C' - LAUNDRY LIGHTING PLAN
1/8" = 1'-0"

1 BASEMENT PHASE 4 FITOUT AREA 'D' - LIGHTING PLAN
1/8" = 1'-0"



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Drawn By CJC

Checked By WD

Client Number

Project Number UKR15

STATE OF KENTUCKY ALAN R. KELLUM 20186 LICENSED PROFESSIONAL ENGINEER

DRAWING

BASEMENT PHASE 4 FITOUT - AREA 'D' - LIGHTING PLAN

SHEET NO.

EL-160D

1/11/2021 8:39:53 AM

TAGGED NOTES

Key Value	Keynote Text
L81	PROVIDE RS232 INTERFACE AND CABLING TO AV RACK FOR LIGHTING CONTROL IN THIS SPACE. LOCATE IN AV RACK FOR ACCESSIBILITY. COORDINATE SCENE PROGRAMMING WITH AV INSTALLER. REFER TO NETWORK LIGHTING CONTROL SPECIFICATIONS FOR SEQUENCE OF OPERATIONS AND SCENE PROGRAMMING.
L104	MOUNT DRIVERS FOR 'P9E' FIXTURES REMOTELY. ALL DRIVERS SHALL BE MOUNTED ABOVE CEILING IN SINGLE LOCATION FOR EASE OF ACCESS AND TO MINIMIZE QUANTITY OF ACCESS PANELS REQUIRED IN HARD CEILING.
L117	PHASE 4 SCOPE BOUNDARY.
L118	REINSTALL LIGHTING RELAY. PROVIDE NEW LINE VOLTAGE WIRING AND LOW VOLTAGE LIGHTING CONTROL CABLING FROM RELAY TO EXISTING CIRCUIT.

GENERAL LIGHTING NOTES

A	FIXTURES TAGGED AS "N/L" (NIGHT-LIGHT) ARE TO BE UNSWITCHED AND REMAIN ILLUMINATED CONTINUOUSLY.
B	EXIT SIGNS ARE TO BE CIRCUITED USING NEAREST UNSWITCHED EMERGENCY CIRCUIT SERVING THE SPACE FIXTURE IS MOUNTED IN. CIRCUITS TO BE #12 WIRE, #12 GROUND IN 3/4" CONDUIT.
C	CONTRACTOR SHALL FOLLOW CIRCUIT LAYOUT WITH THREE (3) BRANCH CIRCUITS MAXIMUM PER HOMERUN.
D	IN SPACES WITH DIMMING CONTROL OR DAYLIGHT HARVESTING: CONTRACTOR IS TO RUN TWO DIMMING CONTROL WIRES TO DRIVER OF EACH FIXTURE TO BE DIMMED.
E	ALL EMERGENCY FIXTURES THAT ARE TO BE DIMMED SHALL BE SERVED BY A ELCR-Z10 OR EQUIVALENT EMERGENCY RELAY TO RETURN FIXTURES TO FULL OUTPUT ON LOSS OF UTILITY POWER.
F	A CIRCUIT NUMBER ACCOMPANYING A LIGHT FIXTURE OR RELAY INDICATES THE EMERGENCY CIRCUIT TO WHICH THE FIXTURE IS CONNECTED.
G	EXTEND AN UNSWITCHED NORMAL SENSING CONDUCTOR TO ALL FIXTURES INDICATED TO BE EMERGENCY.
H	COORDINATE ALL FIXTURE MOUNTING OPTIONS WITH CEILING SHOP DRAWINGS.
I	COORDINATE STRIP LIGHTS WITH EQUIPMENT LOCATIONS TO PROVIDE EVEN ILLUMINATION AROUND AREAS REQUIRING ACCESS.
K	IN BASEMENT CORRIDORS WITH NO CEILING PROVIDE UNISTRUT FRAMING TO MOUNT LIGHTING BELOW DUCTWORK WHERE CONFLICT EXISTS. MAINTAIN LIGHTS CENTERED IN CORRIDOR.
L	ALL VIVARIUM DEVICE PLATES AND COVERS TO BE STAINLESS STEEL. THIS INCLUDES RESEARCH LAB, PROCEDURE ROOM, ISOLATION CUBICLE, ISOLATION PREP, AND VIVARIUM CORRIDORS.
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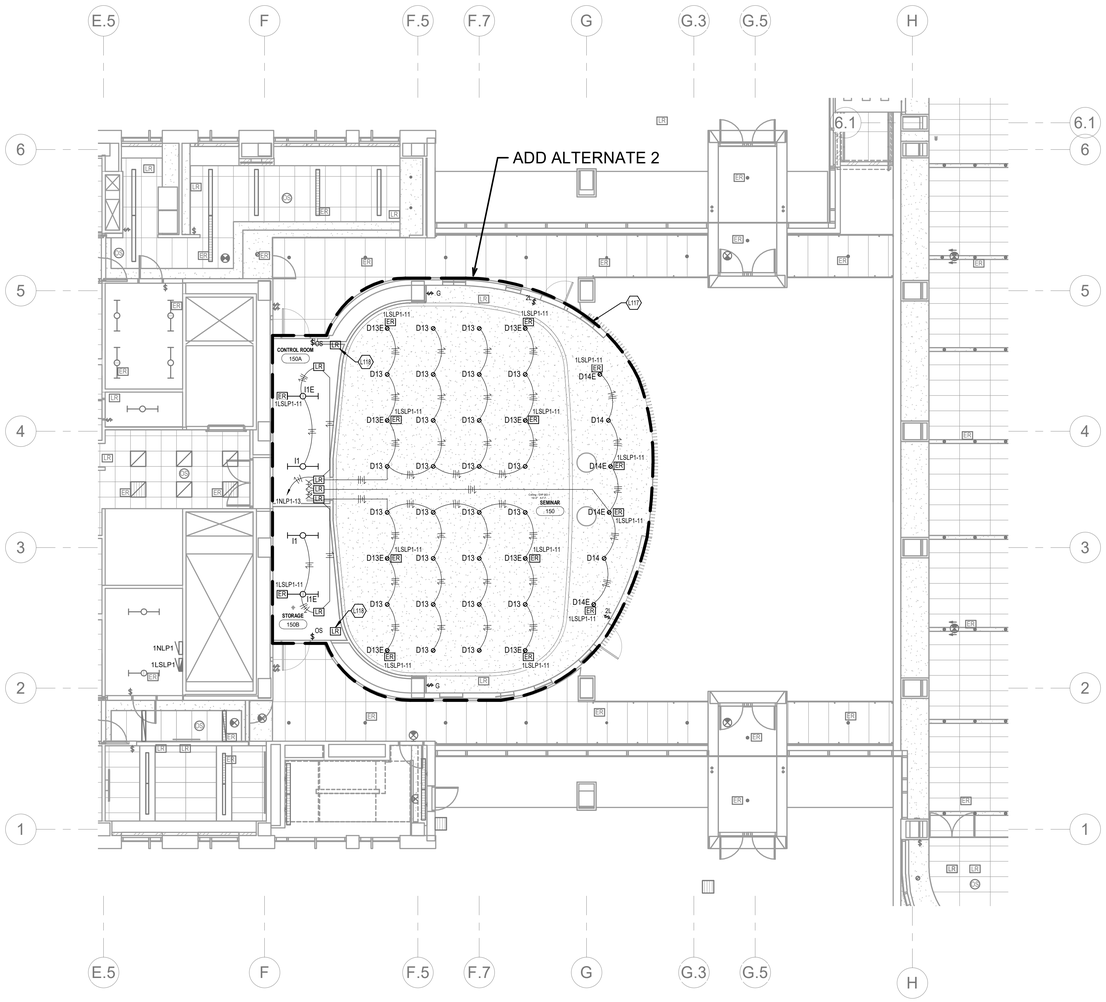
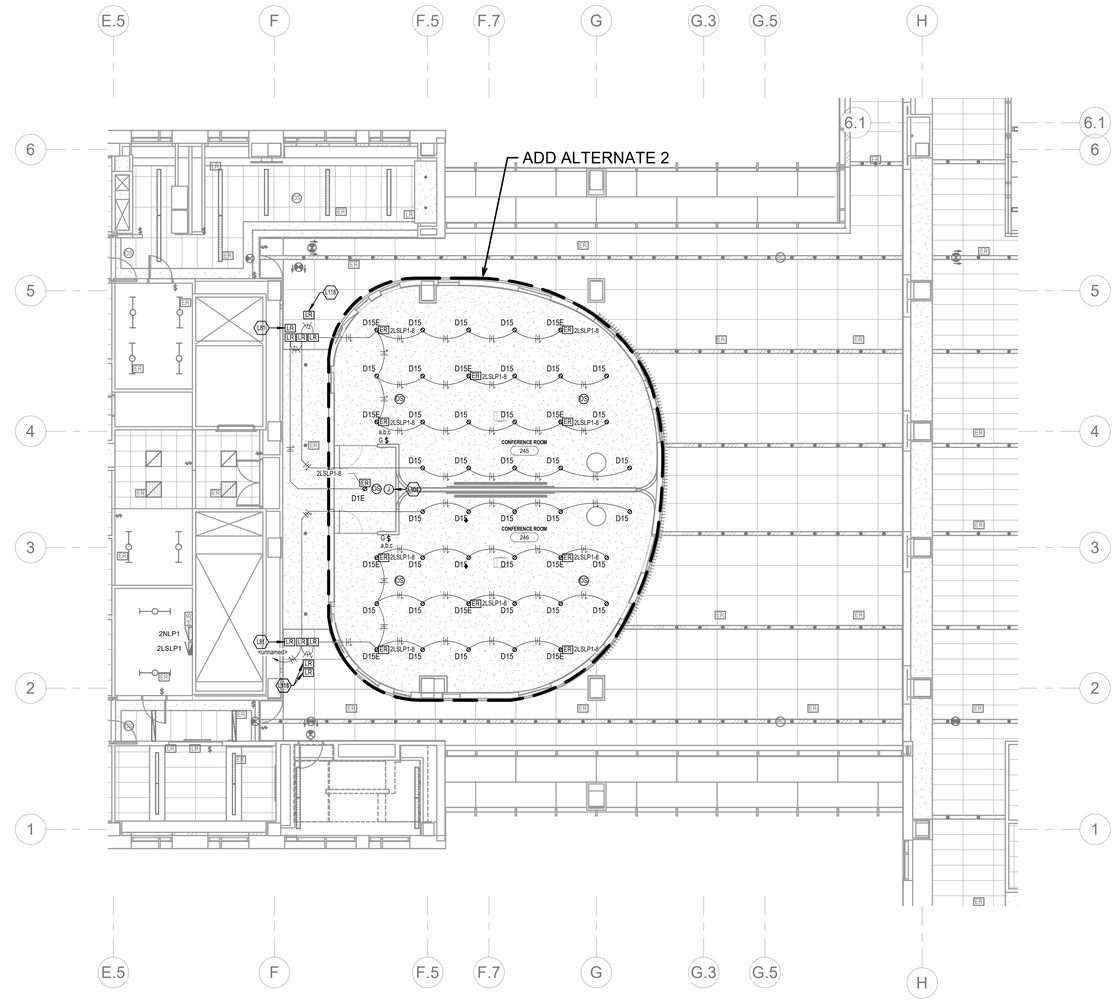
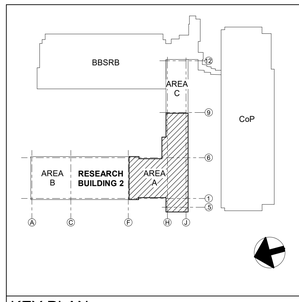


1 LEVEL 01 PHASE 4 FITOUT AREA 'A' - LIGHTING PLAN
1/8" = 1'-0"



2 LEVEL 02 PHASE 4 FITOUT AREA 'A' - LIGHTING PLAN
1/8" = 1'-0"



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Drawn By CJC

Checked By WD

Client Number

Project Number UKR15

STATE OF KENTUCKY — ALAN R. KELLUM 20166 — LICENSED PROFESSIONAL ENGINEER

DRAWING
LEVEL 01 AND LEVEL 02 PHASE 4 FITOUT - AREA 'A' - LIGHTING PLAN

SHEET NO.
EL-161A

1/11/2021 8:40:02 AM

GENERAL LIGHTING NOTES

A	FIXTURES TAGGED AS "N/L" (NIGHT-LIGHT) ARE TO BE UNSWITCHED AND REMAIN ILLUMINATED CONTINUOUSLY.
B	EXIT SIGNS ARE TO BE CIRCUITED USING NEAREST UNSWITCHED EMERGENCY CIRCUIT SERVING THE SPACE FIXTURE IS MOUNTED IN. CIRCUITS TO BE #12 WIRE, #12 GROUND IN 3/4" CONDUIT.
C	CONTRACTOR SHALL FOLLOW CIRCUIT LAYOUT WITH THREE (3) BRANCH CIRCUITS MAXIMUM PER HOMERUN.
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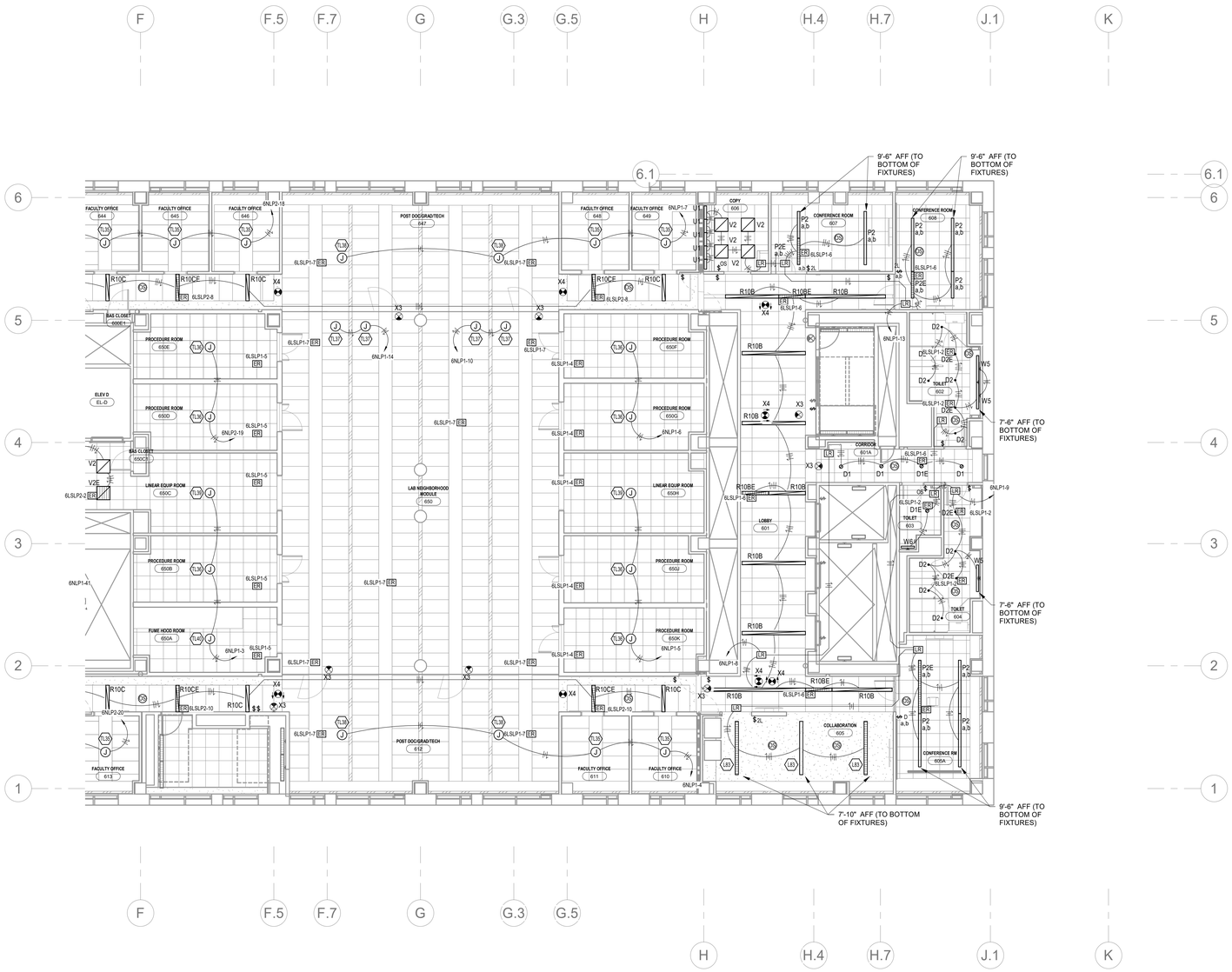
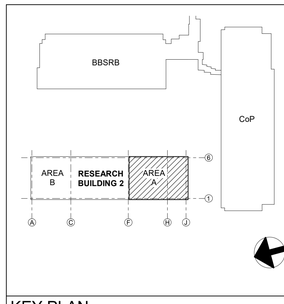
F	A CIRCUIT NUMBER ACCOMPANYING A LIGHT FIXTURE OR RELAY INDICATES THE EMERGENCY CIRCUIT TO WHICH THE FIXTURE IS CONNECTED.
G	EXTEND AN UNSWITCHED NORMAL SENSING CONDUCTOR TO ALL FIXTURES INDICATED TO BE EMERGENCY.
H	COORDINATE ALL FIXTURE MOUNTING OPTIONS WITH CEILING SHOP DRAWINGS.
I	COORDINATE STRIP LIGHTS WITH EQUIPMENT LOCATIONS TO PROVIDE EVEN ILLUMINATION AROUND AREAS REQUIRING ACCESS.
K	IN BASEMENT CORRIDORS WITH NO CEILING PROVIDE UNISTRUT FRAMING TO MOUNT LIGHTING BELOW DUCTWORK WHERE CONFLICT EXISTS. MAINTAIN LIGHTS CENTERED IN CORRIDOR.
L	ALL VIVARIUM DEVICE PLATES AND COVERS TO BE STAINLESS STEEL. THIS INCLUDES RESEARCH LAB, PROCEDURE ROOM, ISOLATION CUBICLE, ISOLATION PREP, AND VIVARIUM CORRIDORS.
M	THIS PROJECT REQUIRES WORK ABOVE EXISTING CEILINGS. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING CEILINGS (TILE, GYP OR OTHERWISE) IN ORDER TO PERFORM HIS SCOPE OF WORK. RETURN CEILING TO LIKE NEW CONDITION.

TAGGED NOTES

Key Value	Keynote Text
L83	COORDINATE INSTALLATION OF PENDANTS AND ABOVE CEILING DRIVER ENCLOSURES WITH OTHER TRADES SUCH THAT CHILLED BEAMS, PIPING, DUCTWORK, CONDUIT, ETC MAINTAINS CLEARANCE AROUND DRIVER ENCLOSURES AND CABLE SUSPENSION LOCATIONS. IF REQUIRED CONTRACTOR SHALL REMOTE DRIVER ENCLOSURES USING MANUFACTURER HARDWARE SUCH THAT NO CONFLICT EXISTS.
TL35	REFER TO TYPICAL SMALL OFFICE LIGHTING PLAN ON EL-560.
TL36	REFER TO TYPICAL PROCEDURE ROOM LIGHTING PLAN ON EL-560.
TL37	REFER TO TYPICAL LAB NEIGHBORHOOD MODULE LIGHTING PLAN ON EL-560
TL38	REFER TO TYPICAL POST DOC/GRAD/TECH LIGHTING PLAN ON EL-560
TL39	REFER TO TYPICAL LINEAR EQUIP ROOM LIGHTING PLAN ON EL-560
TL40	REFER TO TYPICAL FUME HOOD ROOM LIGHTING PLAN ON EL-560



1 LEVEL 06 PHASE 4 FITOUT AREA 'A' - LIGHTING PLAN
1/8" = 1'-0"



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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

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2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By CJC

Checked By WD

Client Number

Project Number UKR15

STATE OF KENTUCKY ALAN R. KELLUM 20166 LICENSED PROFESSIONAL ENGINEER

DRAWING

LEVEL 06 PHASE 4 FITOUT - AREA 'A' - LIGHTING PLAN

SHEET NO.

EL-166A

1/11/2021 8:40:08 AM

GENERAL LIGHTING NOTES

A	FIXTURES TAGGED AS "N/L" (NIGHT-LIGHT) ARE TO BE UNSWITCHED AND REMAIN ILLUMINATED CONTINUOUSLY.
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C	CONTRACTOR SHALL FOLLOW CIRCUIT LAYOUT WITH THREE (3) BRANCH CIRCUITS MAXIMUM PER HOMERUN.
D	IN SPACES WITH DIMMING CONTROL OR DAYLIGHT HARVESTING: CONTRACTOR IS TO RUN TWO DIMMING CONTROL WIRES TO DRIVER OF EACH FIXTURE TO BE DIMMED.
E	ALL EMERGENCY FIXTURES THAT ARE TO BE DIMMED SHALL BE SERVED BY A ELCR-Z10 OR EQUIVALENT EMERGENCY RELAY TO RETURN FIXTURES TO FULL OUTPUT ON LOSS OF UTILITY POWER.
F	A CIRCUIT NUMBER ACCOMPANYING A LIGHT FIXTURE OR RELAY INDICATES THE EMERGENCY CIRCUIT TO WHICH THE FIXTURE IS CONNECTED.
G	EXTEND AN UNSWITCHED NORMAL SENSING CONDUCTOR TO ALL FIXTURES INDICATED TO BE EMERGENCY.
H	COORDINATE ALL FIXTURE MOUNTING OPTIONS WITH CEILING SHOP DRAWINGS.
I	COORDINATE STRIP LIGHTS WITH EQUIPMENT LOCATIONS TO PROVIDE EVEN ILLUMINATION AROUND AREAS REQUIRING ACCESS.
K	IN BASEMENT CORRIDORS WITH NO CEILING PROVIDE UNISTRUT FRAMING TO MOUNT LIGHTING BELOW DUCTWORK WHERE CONFLICT EXISTS. MAINTAIN LIGHTS CENTERED IN CORRIDOR.
L	ALL VIVARIUM DEVICE PLATES AND COVERS TO BE STAINLESS STEEL. THIS INCLUDES RESEARCH LAB, PROCEDURE ROOM, ISOLATION CUBICLE, ISOLATION PREP, AND VIVARIUM CORRIDORS.
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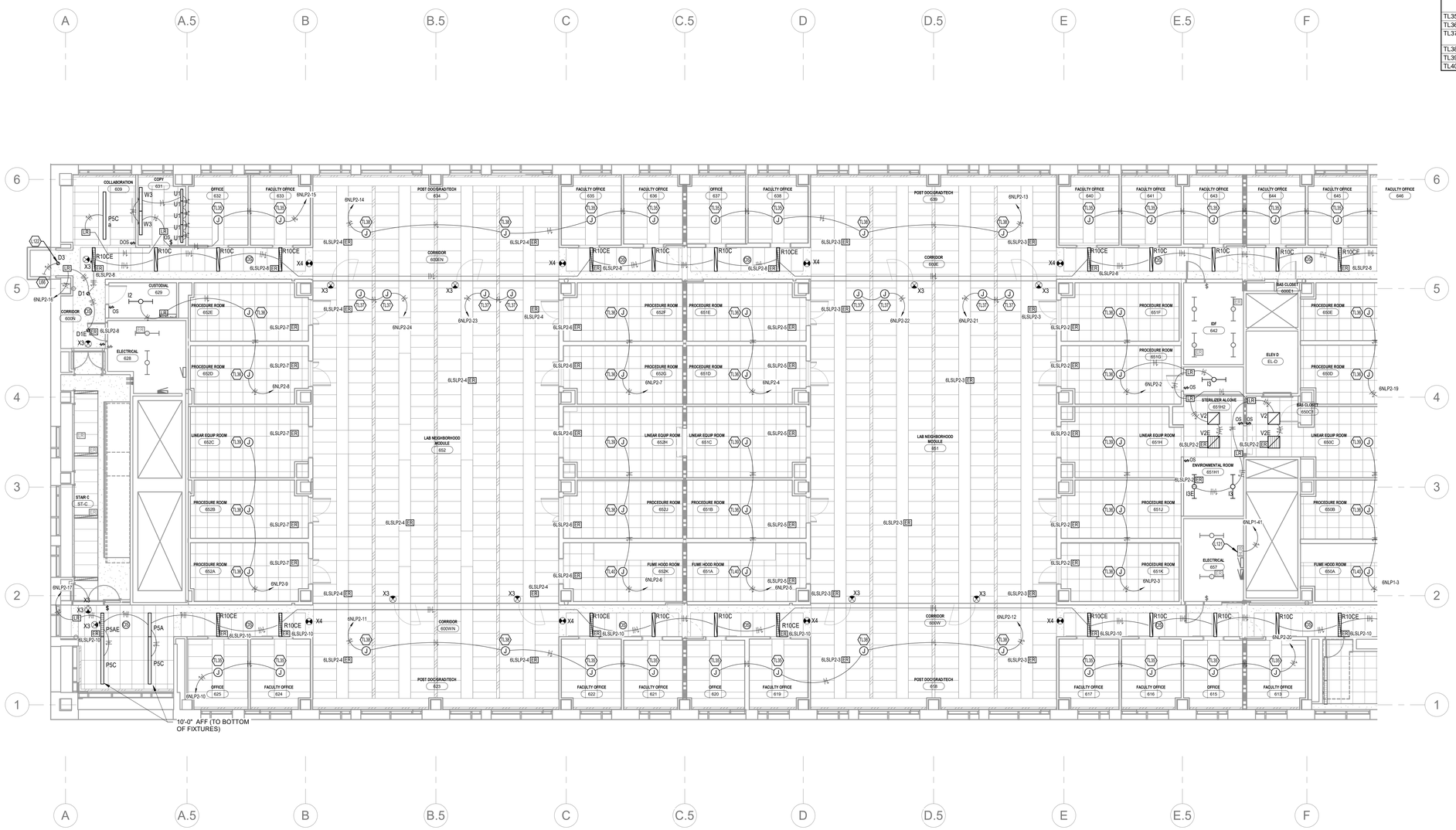
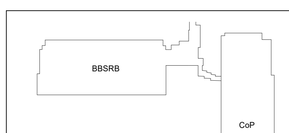
TAGGED NOTES

Key Value	Keynote Text
L66	CIRCUIT TO D3 FIXTURE ON FLOOR BELOW.
L121	CONNECT NEW LIGHTING CONTROLS TO EXISTING NLIGHT NECY NETWORKED LIGHTING CONTROLLER. PROVIDE PROGRAMMING TO MEET SEQUENCE OF OPERATION AND UK INTEGRATION REQUIREMENTS. REFER TO SHEET EL-662 DETAIL 4 "PHASE 4 - NLIGHT SYSTEM EXPANSION RISER" FOR MORE INFORMATION.
L122	FIXTURE IS TO BE CONNECTED TO EXISTING DMX CONTROLLER CIRCUIT. PROVIDE DMX CABLING IN CONDUIT FROM FIXTURE DRIVER TO 'D3' FIXTURE BELOW. REFER TO SHEET EL-662 DETAIL 5 "PHASE 4 - DMX COLOR CHANGING LIGHTING SYSTEM EXPANSION RISER" FOR MORE INFORMATION.
TL35	REFER TO TYPICAL SMALL OFFICE LIGHTING PLAN ON EL-560.
TL36	REFER TO TYPICAL PROCEDURE ROOM LIGHTING PLAN ON EL-560.
TL37	REFER TO TYPICAL LAB NEIGHBORHOOD MODULE LIGHTING PLAN ON EL-560
TL38	REFER TO TYPICAL POST DOC/GRAD/TECH LIGHTING PLAN ON EL-560
TL39	REFER TO TYPICAL LINEAR EQUIP ROOM LIGHTING PLAN ON EL-560
TL40	REFER TO TYPICAL FUME HOOD ROOM LIGHTING PLAN ON EL-560



1 LEVEL 06 PHASE 4 FITOUT AREA 'B' - LIGHTING PLAN
1/8" = 1'-0"



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Drawn By	CJC
Checked By	WD
Client Number	
Project Number	UKR15

STATE OF KENTUCKY ALAN R. KELLUM 20166 LICENSED PROFESSIONAL ENGINEER

DRAWING

LEVEL 06 PHASE 4 FITOUT - AREA 'B' - LIGHTING PLAN

SHEET NO.

EL-166B

1/11/2021 8:40:09 AM

LIGHT FIXTURE SCHEDULE - PHASE 4

GENERAL NOTES (APPLICABLE TO ALL):
A. ALL FLUORESCENT LAMPS SUPPLIED SHALL CONTAIN LESS THAN 35 PICOGRAMS OF MERCURY PER LUMEN-HOUR TO COMPLY WITH LEED REQUIREMENTS.
B. THE ELECTRICAL CONTRACTOR SHALL PULL TWO ADDITONAL CONDUCTORS IN A SEPARATE RACEWAY WHERE 0-10 VOLT DIMMING IS REQUIRED.
C. POINT-BY-POINT CALCULATIONS FOR THE LABS, RESEARCH ROOMS, PROCEDURE ROOMS, CONFERENCE ROOMS AND OFFICES ARE REQUIRED. MANUFACTURERS WISHING TO BID THIS PROJECT MUST SUBMIT ORIGINAL FIXTURE BROCHURES, AND ELECTRONIC FILE (VISUAL OR AGI32) POINT-BY-POINT CALCULATIONS, TEN (10) DAYS PRIOR TO BID FOR WRITTEN APPROVAL.
D. FIXTURES MOUNTED IN CONTINUOUS RUNS SHALL HAVE A SEEMLESS/CONTINUOUS LENS FOR THE ENTIRE LENGTH OF THE FIXTURE.
E. CONTRACTOR SHALL COORDINATE SUSPENSION CABLE LENGTHS IN AREAS WITH SLOPED CEILINGS AND FIELD ADJUST SUCH THAT BOTTOM OF FIXTURE IS PARALLEL TO FLOOR.
F. CABLE SUSPENSION LOCATIONS FOR LAB NEIGHBORHOOD MODULE AND POST DOC GRAD TECH PENDANTS ARE INDICATED ON DRAWINGS. INTENT IS TO COORDINATE WITH CEILING MOUNT DEVICES DIRECTLY ABOVE PENDANTS. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO ORDERING TO FINALIZE FIXTURE LENGTHS.
G. FINISHES TO BE SELECTED BY ARCHITECT.
H. ALL FIXTURES SHALL HAVE A MINIMUM 5 YEAR WARRANTY FROM MANUFACTURER AND BE FURNISHED WITH WARRANTY CERTIFICATES.
I. CONTRACTOR SHALL REFER TO HVAC DRAWINGS FOR COORDINATION WITH PENDANTS. PENDANTS ARE HUNG DIRECTLY BELOW CHILLED BEAMS IN SOME AREAS. COORDINATE FIXTURE LENGTHS SUCH THAT SUSPENSION CABLE LOCATIONS DO NOT FALL ON A CHILLED BEAM. WHERE LENGTHS OF PENDANT ARE INDICATED IN THE SCHEDULE IT IS FOR THE PURPOSES OF AESTHICS ONLY, NOT SUSPENSION CABLES LOCATIONS.

1. REMOTE EMERGENCY 20 AMP BYPASS RELAY SHALL HAVE INTEGRAL TEST SWITCH AND GREEN LED, RED LED INDICATING EMERGENCY POWER, A YELLOW LED INDICATING UTILITY POWER, WARNING LABEL ADHERED TO BALLAST CHANNEL, CONTACTS TO PROVIDE FULL ON FROM 0-10 VOLT DIMMED LIGHTING LOADS, AND UL 924 LISTING. UNIT SHALL BE SUPPLIED TO BE INSTALLED IN A 4-11/16" JUNCTION BOX. THIS UNIT WILL BE PROVIDED WITH A WHITE ARCHITECTURAL GRADE FACEPLATE FOR A CLEAN APPEARANCE WHEN RECESSED IN CEILING. CENTER IN CEILING TILE. EMERGENCY LIGHTS ON THE SAME SWITCHED-LEG MAY BE INSTALLED ON A SINGLE BYPASS RELAY. WHERE LIGHTING SERVED IS LOCATED IN HARD CEILING, CONTRACTOR SHALL GET ARCHITECT/ENGINEER APPROVAL ON EMERGENCE BYPASS RELAY LOCATION PRIOR TO ROUGH-IN.
2. FIXTURE TO BE CIRCUITED TO NEAREST UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
3. FIXTURE TO REQUIRE CAULKING BETWEEN HOUSING AND CEILING WHERE INSTALLED IN CEILING TYPE BD-1 (REFER TO ARCHITECTURAL CEILING PLANS). REFER TO MANUFACTURER REQUIREMENTS AND INSTRUCTIONS. CEILING CUTOUT SIZE TO BE CAREFULLY COORDINATION TO ENSURE MAXIMUM SEAL BETWEEN HOUSING AND CEILING.

TYPE	DESCRIPTION	BASIS OF DESIGN	EQUALS	LAMPS	LUMENS	BALLAST/ DRIVER	VOLTAGE	MAXIMUM WATTAGE	MOUNTING	REMARKS
D1	6" ROUND LED DOWNLIGHT WITH SELF-FLANGED MATTE DIFFUSE FINISHING TRIM, POLYCARBONATE LENS INTEGRAL TO LIGHT ENGINE, LED COLOR MIXING CHAMBER, 45° CUT-OFF TO SOURCE, 1000 LUMEN OUTPUT, 11.8 INPUT WATTS, 16-GAUGE GALVANIZED STEEL MOUNTING BARS, 4" VERTICAL ADJUSTMENT, GALVANIZED STEEL JUNCTION BOX WITH HINGED ACCESS COVERS AND SPRING LATCH, SOLID STATE 4000K LIGHT ENGINE, 100-10% SOLID STATE 0-10 VOLT DIMMING DRIVER, 60,000 HOUR LED LIFE AT 70% LUMEN OUTPUT, UL LISTING FOR DAMP LOCATIONS, AND 3-YEAR LIMITED WARRANTY.	GOTHAM EVO-40/10-6AR-MWD-LSS-MVOLT-EZ10	PORTFOLIO LD6B SERIES APPROVED EQUAL	4000K LED	1055	0-10V DIM TO 10%	120 V	12 W	CEIL.	-
D1E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE CIRCUITED THROUGH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	37 W	-	1
D2	4" ROUND LED DOWNLIGHT WITH SELF-FLANGED MATTE DIFFUSE FINISHING TRIM, POLYCARBONATE LENS INTEGRAL TO LIGHT ENGINE, LED COLOR MIXING CHAMBER, 45° CUT-OFF TO SOURCE, 750 LUMEN OUTPUT, 10.3 INPUT WATTS, 16-GAUGE GALVANIZED STEEL MOUNTING BARS, 4" VERTICAL ADJUSTMENT, GALVANIZED STEEL JUNCTION BOX WITH HINGED ACCESS COVERS AND SPRING LATCH, SOLID STATE 4000K LIGHT ENGINE, 100-10% SOLID STATE 0-10 VOLT DIMMING DRIVER, 60,000 HOUR LED LIFE AT 70% LUMEN OUTPUT, UL LISTING FOR DAMP LOCATIONS, AND 3-YEAR LIMITED WARRANTY.	GOTHAM EVO-40/07-4AR-MWD-LSS-MVOLT-EZ10	PORTFOLIO LD6B SERIES APPROVED EQUAL	4000K LED	886	0-10V DIM TO 10%	120 V	10 W	CEIL.	-
D2E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE CIRCUITED THROUGH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	37 W	-	1
D3	4" ROUND LED RGBW DOWNLIGHT WITH SELF-FLANGED MATTE DIFFUSE FINISHING TRIM, SOFTLITE FROSTED LENS, LED COLOR MIXING CHAMBER, 1375 LUMEN OUTPUT, 32 INPUT WATTS, 16-GAUGE GALVANIZED STEEL MOUNTING BARS, 4" VERTICAL ADJUSTMENT, GALVANIZED STEEL JUNCTION BOX WITH HINGED ACCESS COVERS AND SPRING LATCH, DMX CONTROLLED DIMMING/COLOR CHANGING DRIVER, 60,000 HOUR LED LIFE AT 70% LUMEN OUTPUT, UL LISTING FOR DAMP LOCATIONS, AND 3-YEAR LIMITED WARRANTY. FIXTURE TO BE PROVIDED WITH A DMX CONTROLLER CAPABLE OF CONTROLLING TWO (2) DMX UNIVERSES WITH UP TO EIGHT (8) SHOWS VIA BUTTONS ON THE FRONT OF THE DEVICE LOCALLY OR VIA CONTACT CLOSURES CONNECTED TO THE BUILDING AUTOMATION SYSTEM.	USAI 3025 AC2 SF 10/STICK	PORTFOLIO LD6B SERIES APPROVED EQUAL	LED RGBW	1375	LED DMX DRIVER	120 V	37 W	CEIL.	-
D13	LED DOWNLIGHT WITH ADJUSTABLE ANGLED MODULE.	INDY LLP4 (LLPRM4) 28LM-40K-G4-80CR-EZ1-HW-WH	APPROVED EQUAL	4000K LED	2800	0-10V DIM TO 1%	120 V	0 W	CEIL.	-
D13E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE CIRCUITED THROUGH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	0 W	CEIL.	1
D14	SMALL APERTURE LED DOWNLIGHT.	INDY LLP4 (LLPRM4) 17LM-40K-G4-80CR-EZ1-HW-WH	APPROVED EQUAL	4000K LED	1700	0-10V DIM TO 1%	120 V	0 W	CEIL.	-
D14E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE CIRCUITED THROUGH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	0 W	CEIL.	1
D15	LED RECESSED DOWNLIGHT WITH COMPACT LOW-PROFILE 2" TALL HOUSING (REMODEL STYLE WHERE INSTALLED IN HARD CEILING, NEW CONSTRUCTION WITH GRID CHANNEL HANGERS WHERE INSTALLED IN GRID CEILING), L70 AT 60,000 HOURS, WIDE OPTIC HYPERBOLIC TRIM, CLEAR SEMI-SPECULAR FINISH, WHITE FLANGE.	INDY LLP4 (LLPRM4) 17LM-40K-G4-80CR-EZ1-HW-WH	APPROVED EQUAL	4000K LED	1850	0-10V DIM TO 1%	120 V	18 W	CEIL.	-
D15E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE CIRCUITED THROUGH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	0-10V DIM TO 1%	120 V	18 W	-	-
I1	CHAIN HUNG LED STRIP LIGHT WITH 20 GAUGE STEEL HOUSING, HIGH GLOSS BAKED WHITE ENAMEL FINISH, REPLACEABLE MEDIUM DIFFUSE ACRYLIC LENS, HIGH OUTPUT LEDS ON TWO LAYER CIRCUIT BOARD, ELECTRONIC LED DRIVER, 3000 DELIVERED LUMENS, 80 CRI, 85% OUTPUT AT 44,000 HOURS, CSA LISTED FOR DAMP LOCATIONS, AND FIVE YEAR LIMITED WAARRANTY.	LITHONIA ZL1N-L48-3000LM-FST-MVOLT-40K-80CRI-WH	METALUX SNLED SERIES APPROVED EQUAL	4000K LED	3438	LED DRIVER	120 V	33 W	CHAIN HUNG	-
I1E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE PROVIDED WITH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	67 W	-	1
I2	CHAIN HUNG LED STRIP LIGHT WITH 20 GAUGE STEEL HOUSING, HIGH GLOSS BAKED WHITE ENAMEL FINISH, REPLACEABLE MEDIUM DIFFUSE ACRYLIC LENS, HIGH OUTPUT LEDS ON TWO LAYER CIRCUIT BOARD, ELECTRONIC LED DRIVER, 5000 DELIVERED LUMENS, 80 CRI, 85% OUTPUT AT 44,000 HOURS, CSA LISTED FOR DAMP LOCATIONS, AND FIVE YEAR LIMITED WAARRANTY.	LITHONIA ZL1N-L48-5000LM-FST-MVOLT-40K-80CRI-WH	METALUX SNLED SERIES APPROVED EQUAL	4000K LED	4853	LED DRIVER	120 V	42 W	CHAIN HUNG	-
I2E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE PROVIDED WITH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	67 W	-	1
I3	CHAIN HUNG LED STRIP LIGHT WITH 20 GAUGE STEEL HOUSING, HIGH GLOSS BAKED WHITE ENAMEL FINISH, REPLACEABLE MEDIUM DIFFUSE ACRYLIC LENS, HIGH OUTPUT LEDS ON TWO LAYER CIRCUIT BOARD, ELECTRONIC LED DRIVER, 7000 DELIVERED LUMENS, 80 CRI, 85% OUTPUT AT 44,000 HOURS, CSA LISTED FOR DAMP LOCATIONS, AND FIVE YEAR LIMITED WAARRANTY.	LITHONIA ZL1N-L48-7000LM-FST-MVOLT-40K-80CRI-WH	METALUX SNLED SERIES APPROVED EQUAL	4000K LED	6849	LED DRIVER	120 V	67 W	CHAIN HUNG	-
I3E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE CIRCUITED THROUGH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	59 W	-	1
P1	PENDANT MOUNTED LED WITH EXTRUDED ALUMINUM HOUSING, SCULPTED DIE-CAST ALUMINUM END CAPS MECHANICALLY ATTACHED WITH NO EXPOSED FASTENERS, 4000K 80CRI WITHIN 2.5 MACADAM ELLIPSES LED ARRAY, 600 DELIVERED LUMENS PER FOOT INDIRECT, 800 DELIVERED LUMENS PER FOOT DIRECT, INJECTION MOLDED BATWING DISTRIBUTION INDIRECT, HIGH PERFORMANCE FLM OPTIC DOWN, REMOTE MOUNTED DIM TO 1% 0-10 VOLT DIMMABLE DRIVER, L90 RATED LIFE OF 60,000 HOURS, UL LISTING, AND FIVE YEAR LIMITED WARRANTY.	PEERLESS OPM4-###-#-#-80CRI-40K-I600LMF-800LMF-#-ZT-120-SCT-F2-24F-C041-SEP	-	4000K LED		0-10V DIM TO 1%	120 V		PENDANT 8'-0" AFF	-
P1E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE CIRCUITED THROUGH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	28 W	-	1
P2	PENDANT MOUNTED LED WITH EXTRUDED ALUMINUM HOUSING, SCULPTED DIE-CAST ALUMINUM END CAPS MECHANICALLY ATTACHED WITH NO EXPOSED FASTENERS, 4000K 80CRI WITHIN 2.5 MACADAM ELLIPSES LED ARRAY, 600 DELIVERED LUMENS PER FOOT INDIRECT, 500 DELIVERED LUMENS PER FOOT DIRECT, INJECTION MOLDED BATWING DISTRIBUTION INDIRECT, HIGH PERFORMANCE FLM OPTIC DOWN, REMOTE MOUNTED DIM TO 1% 0-10 VOLT DIMMABLE DRIVER, L90 RATED LIFE OF 60,000 HOURS, UL LISTING, AND FIVE YEAR LIMITED WARRANTY.	PEERLESS OPM4-###-#-#-80CRI-40K-I600LMF-500LMF-#-ZT-120-SCT-F2-24F-C041-SEP	-	4000K LED	5048	0-10V DIM TO 1%	120 V		PENDANT 8'-0" AFF	-
P2E			-				120 V			
P5A	PENDANT MOUNTED 4'-0" DIRECT/INDIRECT LED WITH EXTRUDED ALUMINUM RAILS, DIE-CAST ALUMINUM END-CAPS, 0.125" THICK EXTRUDED ACRYLIC LENS, 1000 DELIVERED LUMENS PER FOOT FROM 4000K LED ARRAY, WHITE SATIN ACRYLIC CANOPIES, LOW VOLTAGE POWER DELIVERED VIA ADJUSTABLE AIRCRAFT SUSPENSION/POWER CABLE, 0-10 VOLT DIMMING DRIVERS REMOTE MOUNTED IN METAL ENCLOSURE(S) ABOVE CEILING, UL AND CUL LISTED SUITABLE FOR DRY OR DAMP LOCATIONS, POLYESTER POWDER COAT APPLIED OVER A 5-STAGE PRE–TREATMENT, RATED LIFE OF L90 AT 100,000 HOURS, AND FIVE YEAR LIMITED WARRANTY. LENGTH AND CONFIGURATION AS SHOWN ON DRAWINGS.	FOCAL POINT FNRS-FL60-1000LF-40K-1C-UNV-LD1-#-CLV##-WH-4'	-	4000K LED	1000 LUMENS/FOOT	0-10V DIM TO 1%	120 V	36 W	PENDANT	-
P5AE	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE CIRCUITED THROUGH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	36 W	-	1
P5C	SAME AS 'P5A' EXCEPT 8 FOOT LENGTH.	-	-	-	-	-	120 V	72 W	-	-
P5CE	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE CIRCUITED THROUGH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	72 W	-	-
R10B	RECESSED 6" APERTURE LED WITH EXTRUDED ALUMINUM HOUSING, EXTRUDED ALUMINUM TRIM, FORMED STEEL REFLECTOR, 90% TRANSMISSIVE TEXTURED POLYCARBONATE LENS, 0-10 VOLT DIM TO BLACK 120 VOLT DRIVER, 4000K LED LIGHT ENGINE PRODUCING 875 DELIVERED LUMENS PER FOOT, 11 INPUT WATTS PER FOOT, L90 RATED LIFE OF 61,000 HOURS, LIGHTING FACTS LABEL, UL LISTED FOR DRY LOCATIONS, AND FIVE YEAR LIMITED WARRANTY. LENGTH AND CONFIGURATION AS SHOWN ON DRAWINGS AND FIELD VERIFIED.	FOCAL POINT FSM6L-FL-875LF-40K-1C-UNV-LD1-##-WH-#	LUMENWERX VIA 5 SERIES PHILIPS EQUAL	4000K LED	875 LUMENS/FOOT	0-10V DIM TO 10%	120 V		CEIL.	-
R10BE	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE CIRCUITED THROUGH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	44 W	-	1
R10C	RECESSED 6" APERTURE LED WITH EXTRUDED ALUMINUM HOUSING, EXTRUDED ALUMINUM TRIM, FORMED STEEL REFLECTOR, 90% TRANSMISSIVE TEXTURED POLYCARBONATE LENS, 0-10 VOLT DIM TO BLACK 120 VOLT DRIVER, 4000K LED LIGHT ENGINE PRODUCING 625 DELIVERED LUMENS PER FOOT, 7.5 INPUT WATTS PER FOOT, L90 RATED LIFE OF 61,000 HOURS, LIGHTING FACTS LABEL, UL LISTED FOR DRY LOCATIONS, AND FIVE YEAR LIMITED WARRANTY. LENGTH AND CONFIGURATION AS SHOWN ON DRAWINGS AND FIELD VERIFIED.	FOCAL POINT FSM6L-FL-625LF-40K-1C-UNV-LD1-##-WH-#	LUMENWERX VIA 5 SERIES PHILIPS EQUAL	4000K LED	625 LUMENS/FOOT	0-10V DIM TO 10%	120 V	31 W	CEIL.	-
R10CE	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE CIRCUITED THROUGH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	31 W	-	1
R14	RECESSED 2X2 VIVARIUM LED WITH HOLE FREE ONE PIECE 20-GAUGE ALUMINUM HOUSING, ONE-PIECE OVERLAPPING STYLE 18-GAUGE ALUMINUM DOOR FRAME HINGED TO HOUSING UTILIZING TWO STAINLESS STEEL CABLES, CAPTIVE STAINLESS STEEL FASTENERS, NSF LISTED CLOSED CELL MICROCELLULAR EXTRUDED KLEANLOCK SEALPRO GASKET UTILIZING VULCANIZED CORNERS TO MAKE A ONE-PIECE OIL AND SOLVENT RESISTANT GASKET SYSTEM, HIGH REFLECTANCE WHITE POLYESTER POWDER COAT FINISH OVER FORMED METAL REFLECTOR, .135" THICK VIRGIN ACRYLIC OUTER LENS, INVERTED P12 PRISMATIC SEALED TO DOOR FRAME, THREE (3) REGULAR OUTPUT 4000 LUMEN 4000K CCT LED ARRAYS, 90 CRI MAINTAINED TO 3.5 SDMC, GLOSS WHITE HIGH REFLECTANCE 1000 HR. SALT SPRAY POLYESTER POWDER COAT FINISH, SUITABLE FOR GRID OR FLANGED INSTALLATION, ETL LISTED FOR WET LOCATIONS, DUST/WATER RESISTANCE RATED IP-66, CERTIFIED ISO-14644-1 CLASSES 3 TO 9 FED. STD. 209E CLASS 1-100,000, AND RATED FOR 1700 PSI HOSEDOWN. THE FIXTURE ACCOMMODATES MOST 1" AND 1.5" T-BAR GRID AS WELL AS HARD CEILING APPLICATIONS. THE FIXTURE SHALL BE PROVIDED WITH A 0-10 VOLT DIMMABLE DRIVER.	KURTZON KL F 5 2X2 3/LEDR 40K UNV	NEWSTAR LIGHTING SCG SERIES PARAMOUNT EQUAL	4000K LED	5622	0-10V DIM TO 1%	120 V	52 W	CEIL.	-
R14E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE CIRCUITED THROUGH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	52 W	-	1,3
R15	RECESSED 2X2 VIVARIUM LED WITH HOLE FREE ONE PIECE 20-GAUGE ALUMINUM HOUSING, ONE-PIECE OVERLAPPING STYLE 18-GAUGE ALUMINUM DOOR FRAME HINGED TO HOUSING UTILIZING TWO STAINLESS STEEL CABLES, CAPTIVE STAINLESS STEEL FASTENERS, NSF LISTED CLOSED CELL MICROCELLULAR EXTRUDED KLEANLOCK SEALPRO GASKET UTILIZING VULCANIZED CORNERS TO MAKE A ONE-PIECE OIL AND SOLVENT RESISTANT GASKET SYSTEM, HIGH REFLECTANCE WHITE POLYESTER POWDER COAT FINISH OVER FORMED METAL REFLECTOR, .135" THICK VIRGIN ACRYLIC OUTER LENS, INVERTED P12 PRISMATIC SEALED TO DOOR FRAME, THREE (3) HIGH OUTPUT 4000 LUMEN 4000K CCT LED ARRAYS TUNED TO 8600 LUMENS TOTAL, 90 CRI MAINTAINED TO 3.5 SDMC, GLOSS WHITE HIGH REFLECTANCE 1000 HR. SALT SPRAY POLYESTER POWDER COAT FINISH, SUITABLE FOR GRID OR FLANGED INSTALLATION, ETL LISTED FOR WET LOCATIONS, DUST/WATER RESISTANCE RATED IP-66, CERTIFIED ISO-14644-1 CLASSES 3 TO 9 FED. STD. 209E CLASS 1-100,000, AND RATED FOR 1700 PSI HOSEDOWN. THE FIXTURE ACCOMMODATES MOST 1" AND 1.5" T-BAR GRID AS WELL AS HARD CEILING APPLICATIONS. THE FIXTURE SHALL BE PROVIDED WITH A 0-10 VOLT DIMMABLE DRIVER AND LIMITED 5 YEAR WARRANTY. THE ELECTRICAL CONTRACTOR TO COORDINATE WITH THE CEILING MANUFACTURER BEFORE ORDERING.	KURTZON KL F 5 2X2 3/LEDH 40K UNV PXL	NEWSTAR LIGHTING SCG SERIES PARAMOUNT EQUAL	4000K LED	8600	0-10V DIM TO 1%	120 V	68 W	CEIL.	-
R15E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE CIRCUITED THROUGH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	68 W	-	1
R18	RECESSED 2X4 LED WET LOCATION TROFFER WITH WHITE STAINLESS STEEL DOOR FRAME, SEALED AND GASKETED HOUSING. CUSTOM TUNED TO 4000 LUMEN OUTPUT. SHALL BE GRID OR FLANGE AS REQUIRED BY CEILING.	KURTZON WL X 4 2X4 2/LEDR 840 UNV PXL	NEWSTAR LIGHTING SCG SERIES PARAMOUNT EQUAL	4000K LED	4000	LED DRIVER	120 V	31 W	CEIL.	3
R18E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE PROVIDED WITH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	31 W	-	1,3

LIGHT FIXTURE SCHEDULE - PHASE 4

GENERAL NOTES (APPLICABLE TO ALL):
A. ALL FLUORESCENT LAMPS SUPPLIED SHALL CONTAIN LESS THAN 35 PICOGRAMS OF MERCURY PER LUMEN-HOUR TO COMPLY WITH LEED REQUIREMENTS.
B. THE ELECTRICAL CONTRACTOR SHALL PULL TWO ADDITONAL CONDUCTORS IN A SEPARATE RACEWAY WHERE 0-10 VOLT DIMMING IS REQUIRED.
C. POINT-BY-POINT CALCULATIONS FOR THE LABS, RESEARCH ROOMS, PROCEDURE ROOMS, CONFERENCE ROOMS AND OFFICES ARE REQUIRED. MANUFACTURERS WISHING TO BID THIS PROJECT MUST SUBMIT ORIGINAL FIXTURE BROCHURES, AND ELECTRONIC FILE (VISUAL OR AGI32) POINT-BY-POINT CALCULATIONS, TEN (10) DAYS PRIOR TO BID FOR WRITTEN APPROVAL.
D. FIXTURES MOUNTED IN CONTINUOUS RUNS SHALL HAVE A SEEMLESS/CONTINUOUS LENS FOR THE ENTIRE LENGTH OF THE FIXTURE.
E. CONTRACTOR SHALL COORDINATE SUSPENSION CABLE LENGTHS IN AREAS WITH SLOPED CEILINGS AND FIELD ADJUST SUCH THAT BOTTOM OF FIXTURE IS PARALLEL TO FLOOR.
F. CABLE SUSPENSION LOCATIONS FOR LAB NEIGHBORHOOD MODULE AND POST DOC GRAD TECH PENDANTS ARE INDICATED ON DRAWINGS. INTENT IS TO COORDINATE WITH CEILING MOUNT DEVICES DIRECTLY ABOVE PENDANTS. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO ORDERING TO FINALIZE FIXTURE LENGTHS.
G. FINISHES TO BE SELECTED BY ARCHITECT.
H. ALL FIXTURES SHALL HAVE A MINIMUM 5 YEAR WARRANTY FROM MANUFACTURER AND BE FURNISHED WITH WARRANTY CERTIFICATES.
I. CONTRACTOR SHALL REFER TO HVAC DRAWINGS FOR COORDINATION WITH PENDANTS. PENDANTS ARE HUNG DIRECTLY BELOW CHILLED BEAMS IN SOME AREAS. COORDINATE FIXTURE LENGTHS SUCH THAT SUSPENSION CABLE LOCATIONS DO NOT FALL ON A CHILLED BEAM. WHERE LENGTHS OF PENDANT ARE INDICATED IN THE SCHEDULE IT IS FOR THE PURPOSES OF AESTHICS ONLY, NOT SUSPENSION CABLES LOCATIONS.

1. REMOTE EMERGENCY 20 AMP BYPASS RELAY SHALL HAVE INTEGRAL TEST SWITCH AND GREEN LED, RED LED INDICATING EMERGENCY POWER, A YELLOW LED INDICATING UTILITY POWER, WARNING LABEL ADHERED TO BALLAST CHANNEL, CONTACTS TO PROVIDE FULL ON FROM 0-10 VOLT DIMMED LIGHTING LOADS, AND UL 924 LISTING. UNIT SHALL BE SUPPLIED TO BE INSTALLED IN A 4-11/16" JUNCTION BOX. THIS UNIT WILL BE PROVIDED WITH A WHITE ARCHITECTURAL GRADE FACEPLATE FOR A CLEAN APPEARANCE WHEN RECESSED IN CEILING. CENTER IN CEILING TILE. EMERGENCY LIGHTS ON THE SAME SWITCHED-LEG MAY BE INSTALLED ON A SINGLE BYPASS RELAY. WHERE LIGHTING SERVED IS LOCATED IN HARD CEILING, CONTRACTOR SHALL GET ARCHITECT/ENGINEER APPROVAL ON EMERGENCE BYPASS RELAY LOCATION PRIOR TO ROUGH-IN.
2. FIXTURE TO BE CIRCUITED TO NEAREST UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
3. FIXTURE TO REQUIRE CAULKING BETWEEN HOUSING AND CEILING WHERE INSTALLED IN CEILING TYPE BD-1 (REFER TO ARCHITECTURAL CEILING PLANS). REFER TO MANUFACTURER REQUIREMENTS AND INSTRUCTIONS. CEILING CUTOUT SIZE TO BE CAREFULLY COORDINATION TO ENSURE MAXIMUM SEAL BETWEEN HOUSING AND CEILING.

TYPE	DESCRIPTION	BASIS OF DESIGN	EQUALS	LAMPS	LUMENS	BALLAST/ DRIVER	VOLTAGE	MAXIMUM WATTAGE	MOUNTING	REMARKS
R26E	RECESSED 2X4 LED WET LOCATION TROFFER WITH WHITE STAINLESS STEEL DOOR FRAME, SEALED AND GASKETED HOUSING. CUSTOM TUNED TO 6000 LUMEN OUTPUT. SHALL BE GRID OR FLANGE AS REQUIRED BY CEILING.	KURTZON WL X 4 2X4 2/LEDR 840 UNV PXL	NEWSTAR LIGHTING SCG SERIES	4000K LED	6000	0-10V DIM TO 1%	120 V	46 W	CEIL.	1
R27E	RECESSED 2X2 VIVARIUM LED WITH HOLE FREE ONE PIECE 20-GAUGE ALUMINUM HOUSING, ONE-PIECE OVERLAPPING STYLE WHITE ALULMINUM DOOR FRAME HINGED TO HOUSING UTILIZING TWO STAINLESS STEEL CABLES, CAPTIVE STAINLESS STEEL FASTENERS, NSF LISTED CLOSED CELL MICROCELLULAR EXTRUDED KLEANLOCK SEALPRO GASKET UTILIZING VULCANIZED CORNERS TO MAKE A ONE-PIECE OIL AND SOLVENT RESISTANT GASKET SYSTEM, HIGH REFLECTANCE WHITE POLYESTER POWDER COAT FINISH OVER FORMED METAL REFLECTOR, .135" THICK VIRGIN ACRYLIC OUTER LENS, INVERTED P12 PRISMATIC SEALED TO DOOR FRAME, TWO (2) REGULAR OUTPUT 4000K CCT LED ARRAYS PRODUCING 4450 LUMENS TOTAL, 90 CRI MAINTAINED TO 3.5 SDMC, ONE (1) NARROW-SPECTRUM 660NM RED LED ARRAY, GLOSS WHITE HIGH REFLECTANCE 1000 HR. SALT SPRAY POLYESTER POWDER COAT FINISH, SUITABLE FOR GRID OR FLANGED INSTALLATION, ETL LISTED FOR WET LOCATIONS, DUST/WATER RESISTANCE RATED IP-66, CERTIFIED ISO-14644-1 CLASSES 3 TO 9 FED. STD. 209E CLASS 1-100,000, AND RATED FOR 1700 PSI HOSEDOWN. THE FIXTURE ACCOMMODATES MOST 1" AND 1.5" T-BAR GRID AS WELL AS HARD CEILING APPLICATIONS. THE FIXTURE SHALL BE PROVIDED WITH TWO (2) 0-10 VOLT DIMMABLE DRIVERS. ONE DRIVER SHALL CONTROL THE TWO (2) REGULAR OUTPUT WHITE LED BOARDS, AND ONE DRIVER SHALL CONTROL THE RED ARRAY.	KURTZON KL R 5 2X2 1/RLED-660-2/LEDR 940K UNV	NEWSTAR LIGHTING SCG SERIES PARAMOUNT EQUAL	4000K LED	4450	0-10V DIM TO BLACK (0.1%)	120 V	37 W	CEIL.	1,3
U1	SURFACE MOUNTED LED UNDERCABINET LIGHT WITH ALUMINUM HOUSING, WIDE BEAM ANGLE, SMOOTH CONTINUOUS ILLUMINATION WITH NO PIXELATION, PLUG IN CONNECTORS, 440 LUMENS PER FOOT, L70 OF 50,000 HOURS, UL LISITNG, AND FIVE YEAR LIMITED WARRANTY. POWER SUPPLIES TO BE MOUNTED ABOVE CEILING OR NEATLY UNDER CABINET SO AS NOT TO BE VISIBLE.	SELF ELECTRONICS ARROW-##-40K-110-S SERIES	HALO: HU10 SERIES	4000K LED	VARIES	-	120 V		UNDERCABINET/SURFACE	-
V1	2 X 4 LED HIGH EFFICIENCY GRID TROFFER WITH 2-3/8" DEEP GALVANIZED STEEL HOUSING, INTEGRAL T-BAR CLIPS, COLD ROLLED STEEL REFLECTOR, POLYESTER POWDER COAT AFTER FABRICATION, IMPACT RESISTANT MODIFIED ACRYLIC PRISMATIC REFRACTOR, INTEGRAL MULTI-VOLT 0-10V 1-100% DIMMABLE DRIVER, 4000 KELVIN LED ARRAY PRODUCING 5738 DELIVERED LUMENS,135 LUMENS PER WATT, L90 RATED LIFE OF 60,000 HOURS, DLC QUALIFIED, AND FIVE YEAR LIMITED FIXTURE WARRANTY.	LITHONIA 2BLT4-60LHE-ADSM-MVOLT-EZ1-LP840	METALUX 24FR SERIES COLUMBIA EQUAL	4000K LED	6163	0-10V DIM TO 1%	120 V	53 W	CEIL.	-
V1E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE PROVIDED WITH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	53 W	-	1
V2	2 X 4 LED HIGH EFFICIENCY GRID TROFFER WITH 2-3/8" DEEP GALVANIZED STEEL HOUSING, INTEGRAL T-BAR CLIPS, COLD ROLLED STEEL REFLECTOR, POLYESTER POWDER COAT AFTER FABRICATION, IMPACT RESISTANT MODIFIED ACRYLIC PRISMATIC REFRACTOR, INTEGRAL MULTI-VOLT 0-10V 1-100% DIMMABLE DRIVER, 4000 KELVIN LED ARRAY PRODUCING 4880 DELIVERED LUMENS,133 LUMENS PER WATT, L90 RATED LIFE OF 60,000 HOURS, DLC QUALIFIED, AND FIVE YEAR LIMITED FIXTURE WARRANTY.	LITHONIA 2BLT2-48LHE-ADSM-MVOLT-EZ1-LP840	METALUX 22FR SERIES COLUMBIA EQUAL	4000K LED	4816	0-10V DIM TO 1%	120 V	37 W	CEIL.	-
V2E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE PROVIDED WITH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	-	-	-	-	120 V	71 W	-	1
V4	2 X 4 LED HIGH EFFICIENCY GRID TROFFER WITH 2-3/8" DEEP GALVANIZED STEEL HOUSING, INTEGRAL T-BAR CLIPS, COLD ROLLED STEEL REFLECTOR, POLYESTER POWDER COAT AFTER FABRICATION, IMPACT RESISTANT MODIFIED ACRYLIC PRISMATIC REFRACTOR, INTEGRAL MULTI-VOLT 0-10V 1-100% DIMMABLE DRIVER, 4000 KELVIN LED ARRAY PRODUCING 4141 DELIVERED LUMENS,135 LUMENS PER WATT, L90 RATED LIFE OF 60,000 HOURS, DLC QUALIFIED, AND FIVE YEAR LIMITED FIXTURE WARRANTY.	LITHONIA 2BLT4-40LHE-ADSM-MVOLT-EZ1-LP840	METALUX 24FR SERIES COLUMBIA EQUAL	4000K LED	4141	0-10V DIM TO 1%	120 V	29 W	CEIL.	-
V4E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE CIRCUITED THROUGH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	- COLUMBIA EQUAL	-	-	-	120 V	29 W	-	1
V5	2 X 4 LED HIGH EFFICIENCY GRID TROFFER WITH 2-3/8" DEEP GALVANIZED STEEL HOUSING, INTEGRAL T-BAR CLIPS, COLD ROLLED STEEL REFLECTOR, POLYESTER POWDER COAT AFTER FABRICATION, IMPACT RESISTANT MODIFIED ACRYLIC PRISMATIC REFRACTOR, INTEGRAL MULTI-VOLT 0-10V 1-100% DIMMABLE DRIVER, 4000 KELVIN LED ARRAY PRODUCING 4835 DELIVERED LUMENS,135 LUMENS PER WATT, L90 RATED LIFE OF 60,000 HOURS, DLC QUALIFIED, AND FIVE YEAR LIMITED FIXTURE WARRANTY.	LITHONIA 2BLT4-48LHE-ADSM-MVOLT-EZ1-LP840	METALUX 24FR SERIES COLUMBIA EQUAL	4000K LED	4835	0-10V DIM TO 1%	120 V	34 W	CEIL.	-
V5E	SAME AS PARENT FIXTURE TYPE EXCEPT TO BE CIRCUITED THROUGH A REMOTE EMERGENCY 20 AMP BYPASS RELAY. REFER TO REMARKS FOR MORE INFORMATION.	-	- COLUMBIA EQUAL	-	-	-	120 V	34 W	-	1
W3	WALL MOUNTED LINEAR DIRECT/INDIRECT LED WITH EXTRUDED ALUMINUM SIDE RAILS, FORMED COLD ROLLED STEEL BACK CHANNEL, HEAVY GAUGE END CAPS, ASYMMETRIC DISTRIBUTION 4000K 450 LUMEN PER FOOT LED ARRAY FOR UPLIGHT, ASYMMETRIC DISTRIBUTION 4000K 586 LUMEN PER FOOT LED ARRAY FOR DOWNLIGHT, CONSTANT CURRENT ELECTRONIC DRIVER WITH 0-10V DIMMING INPUT, EXTRUDED FROSTED ACRYLIC OR SATIN WHITE ACRYLIC SNAP-IN LENS DOWN, FIELD REPLACEABLE MODULE IS REPLACEABLE L90 ≥ 100,000 HOURS, ETL LISTED, POWDER COAT TEXTURED FINISH, AND FIVE YEAR LIMITED WARRANTY.	NULITE RW4B 05L40D/4.5LU 1C48C A FRF WH ASYM	-	4000K LED	4806	0-10V DIM TO 1%	120 V	59 W	9'-0" AFF	-
W5	WALL MOUNTED LINEAR LED WITH 4" SQUARE X 4'-0" LONG EXTRUDED ALUMINUM HOUSING, CAST END CAPS, .060" THICK SATIN ACRYLIC DIFFUSER, MULTIVOLT 0-10 VOLT DIMMABLE DRIVER, 4000K LED ARRY DELIVERING 500 LUMENS PER FOOT, ETL LISTING, AND FIVE YEAR LIMITED WARRANTY.	AXIS ARWLED-B3-MF-500-80-40-S-4-W-UNV-D-1	PRUDENTIAL R1 SERIES APPROVED EQUAL	4000K LED	500 LUMENS/FOOT	LED DRIVER	120 V	18 W	7'-6" AFF	-
W6	WALL MOUNTED LINEAR LED WITH 4" SQUARE X 2'-0" LONG EXTRUDED ALUMINUM HOUSING, CAST END CAPS, .060" THICK SATIN ACRYLIC DIFFUSER, MULTIVOLT 0-10 VOLT DIMMABLE DRIVER, 4000K LED ARRY DELIVERING 500 LUMENS PER FOOT, ETL LISTING, AND FIVE YEAR LIMITED WARRANTY.	AXIS ARWLED-B3-MF-500-80-40-S-2-W-UNV-D-1	PRUDENTIAL R1 SERIES APPROVED EQUAL	4000K LED	500 LUMENS/FOOT	LED DRIVER	120 V	9 W	7'-6" AFF	-
W9A	LED EXIT SIGN WITH CUSTOM PANEL WORDING "IN USE", PRECISION-MOLDED DIE-CAST ALUMINUM CONSTRUCTION, COMPACT HOUSING, WHITE FACE, RED LETTERING, SINGLE FACE, AC-ONLY OPERATION.	LITHONIA LE-P-W-1-R-SW09	SURELITES EQUAL PHILIPS EQUAL	LED	-	-	120 V	2 W	CENTERED ABOVE DOOR	-
W12E	WALL MOUNT INDIRECT ONLY LINEAR WITH EXTRUDED ALUMINUM HOUSING, DIE CAST ZINC END CAPS, GASKETED LENS AND HOUSING, WET LOCATION LISTING AND RATED FOR DIRECT SPRAY WASH DOWN. LENGTH IS 6 FOOT EXCEPT WHERE MULTIPLE FIXTURES ARE SHOWN ADJACENT TO ONE ANOTHER, COMBINE RUN LENGTHS TO FORM SINGLE CONTINUOUS FIXTURE. LUMEN OUTPUTS AND WATTAGES ARE SHOWN FOR A 6 FOOT FIXTURE. WHERE FIXTURES ARE SHOWN END-TO-END UTILIZE A SINGLE 12 FOOT FIXTURE.	AXIS WBIWLED-200-90CRI-27-SO-6-C-120-DP-1-BF	EATON EQUAL PHILIPS EQUAL	2700K LED	200 LUMENS/FOOT	0-10V DIM TO BLACK (0.1%)	120 V	12 W	7'-9" AFF	-
X1	UNIVERSAL MOUNTED STENCIL FACE SELF DIAGNOSTIC LED EXIT SIGN WITH DIE-CAST ALUMINUM HOUSING, SINGLE CAST ALUMINUM HINGED FACEPLATE, WHITE FINISHED HOUSING, LOW ENERGY CONSUMPTION LONG-LIFE LED LAMPS, UL LABEL, AND FIVE YEAR TOTAL FIXTURE WARRANTY.	LITHONIA LQC-1-G	SURELITES: CX SERIES PHILIPS EQUAL	LED - GREEN LETTERING	-	LED	120 V	2 W	CLG OR WALL	2
X3	ARCHITECTURAL EDGE-LIT SINGLE FACE LED EXIT SIGN WITH INJECTION-MOLDED PANEL, WHITE BACKGROUND, SURFACE MOUNTED CAST ALUMINUM HOUSING, PLUG-IN POWER CONNECTORS, THREE (3) YEAR UNCONDITIONAL WARRANTY, LED LAMP ASSEMBLY, SOLID-STATE ELECTRONICS. PANEL LETTERS SHALL BE MOLDED AND TEXTURED 6" HIGH WITH 3/4" STROKE.	ISOLITES ELT-AC-G-1W	SURELITES EEX SERIES PHILIPS EQUAL	LED - GREEN LETTERING	-	LED	120 V	2 W	CLG OR WALL	2
X4	ARCHITECTURAL EDGE-LIT DUAL FACE LED EXIT SIGN WITH INJECTION-MOLDED PANEL, WHITE BACKGROUND, SURFACE MOUNTED CAST ALUMINUM HOUSING, PLUG-IN POWER CONNECTORS, THREE (3) YEAR UNCONDITIONAL WARRANTY, LED LAMP ASSEMBLY, SOLID-STATE ELECTRONICS. PANEL LETTERS SHALL BE MOLDED AND TEXTURED 6" HIGH WITH 3/4" STROKE.	ISOLITES ELT-AC-G-2W	SURELIGHTS: CX SERIES	LED - GREEN LETTERING	-	LED	120 V	2 W	CLG OR WALL	2

DESCRIPTION	MOUNTING HEIGHT (TOP OF BOX)	DRAWING SYMBOL
ABBREVIATIONS		
UNLESS OTHERWISE NOTED		UON
OWNER FURNISHED CONTRACTOR INSTALLED		OFCI
OWNER FURNISHED OWNER INSTALLED		OFOI
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFCI
CONTRACTOR FURNISHED OWNER INSTALLED		CFOI
SWITCHES		
LIGHT SWITCH:GENERAL PURPOSE	4'-0"	$
MULTI-BUTTON SWITCH WITH ON/OFF AND RAISER/LOWER OF ZONES INDICATED. # INDICATES NUMBER OF ZONES TO BE CONTROLLED.	4'-0"	$#L
NIGHT LIGHT SWITCH WITH CONSTANTLY ILLUMINATED HANDLE	4'-0"	$N
SURGICAL LIGHT INTENSITY CONTROL	4'-0"	$SL
DIMMER SWITCH	4'-0"	$D
THREE-WAY SWITCH	4'-0"	$3
FOUR-WAY SWITCH	4'-0"	$4
KEYED SWITCH	4'-0"	$K
OCCUPANCY OR VACANCY SENSOR SWITCH	4'-0"	$OS, $VS
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	4'-0"	$U
ILLUMINATED HANDLE LIGHT SWITCH (ILLUMINATED WHEN LOAD IS OFF)	4'-0"	$IL
LOW VOLTAGE MOMENTARY SWITCH	4'-0"	$LV
PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)	4'-0"	$PL
NLIGHT GRAPHIC WALLPOD	4'-0"	$G
MOMENTARY CONTACT SWITCH	4'-0"	$MC
HAND-OFF-AUTO 3-POSTION SWITCH	4'-0"	$HOA
TIMER SWITCH	4'-0"	$T
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CLG	OS, VS
PHOTO-CELL AS NOTED	AS NOTED	PC
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAIL)		ER
LIGHTING		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE OR SUSPENDED CEILING FIXTURE (SLASH INDICATES RECESSED)		
POLE MOUNTED AREA LIGHT		
EMERGENCY BATTERY WALL-PACK		
WALL MOUNT FIXTURE		
FLOODLIGHT		
EXIT LIGHT (CEILING, END, WALL MOUNT)		
STRIP FIXTURE		
CROSS-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-CRITICAL BRANCH		
PARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-LIFE SAFETY BRANCH		
LIGHTING PULL BOX. REFER TO DETAILS.		LPB
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS: HASHMARKS INDICATE # OF CONDUCTORS. DASHED LINE INDICATES CONDUIT BELOW FLOOR.		GROUND, NEUTRAL, PHASE
TAGGED NOTE		
REVISION TAG		
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		WG
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.		WP
EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION.		XP
INDICATES EMERGENCY POWER		E,EM
INDICATES LIGHT FIXTURE WITH 24 HOUR OPERATION		N/L
CONDUIT UP		
CONDUIT DOWN		
LIGHTING CONTROL CABLE (TYPE PER MANUFACTURER)		
0-10V DIMMING CONDUCTORS		

GENERAL LIGHTING NOTES APPLICABLE TO ALL EL SERIES SHEETS.
A. REFER TO SHEET S-101 FOR STRUCTURAL COORDINATION AND FIREPROOFING REQUIREMENTS. REPLACE FIREPROOFING AS REQUIRED. FOR ALL FLOOR PENETRATIONS, SEAL WITH UL LISTED FIRE RATED ASSEMBLY TO MAINTAIN 2-HOUR RATING.
B. REFER TO SHEET S-103 FOR STRUCTURAL HANGING, SEISMIC BRACING, AND SLEEVING REQUIREMENTS.
C. CONTRACTOR IS ADVISED THIS IS A PHASED PROJECT. REFER TO CONSTRUCTION MANAGERS PHASING PLAN. CONTRACTOR RESPONSIBLE FOR REVIEWING DRAWINGS AND UNDERSTANDING PHASING.

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 DD ISSUANCE	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By CJC
Checked By WD
Client Number
Project Number UKR15

STATE OF KENTUCKY ALAN R. KELLUM 20186 LICENSED PROFESSIONAL ENGINEER

DRAWING
PHASE 4 LIGHTING SYMBOLS AND FIXTURE SCHEDULE

SHEET NO.
EL-360

1/11/2021 8:40:14 AM

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION BNLP1 | LOCATION ELECTRICAL-1 043-1 | FLOOR BASEMENT
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM *
MAIN TYPE * | BUS RATING * | FAULT CURRENT RATING * AIC
MAIN RATING * | MOUNTING * | FAULT... * AIC

REMARKS

DESCRIPTION	BRKR AMP, POLES		CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
LOADING DOCK XE01	20 A	1	1	0.84			0.15			2	1	20 A	ELEVATORS A, B, C
LOADING DOCK XE01	20 A	1	3		0.80			0.58		4	1	20 A	ELECTRICAL 043
LOADING DOCK XE01	20 A	1	5			0.84			1.22	6	1	20 A	MECHANICAL 042
LOADING DOCK XE01	20 A	1	7	0.62			0.26			8	1	20 A	UPS 041
LOADING DOCK XE01	20 A	1	9		1.23			0.99		10	1	20 A	MECHANICAL 042
LOADING DOCK XE01	20 A	1	11			0.84			0.72	12	1	20 A	FOOD SERVICE D44
LOADING DOCK XE01	20 A	1	13	0.84			0.05			14	1	20 A	ELEVATOR D PIT
LOADING DOCK XE01	20 A	1	15		0.80			0.05		16	1	20 A	ELEVATOR F
LOADING DOCK XE01	20 A	1	17			0.84			0.11	18	1	20 A	ELEV EQUIP 044A
INTERIOR COURTYARD...	20 A	1	19	0.14			0.67			20	1	20 A	ER ELEC 032
EXTERIOR COURTYARD...	20 A	1	21		0.13			0.59		22	1	20 A	STAIR B
VESTIBULE LIGHTING	20 A	1	23			0.15			0.65	24	1	20 A	ELECTRICAL 043
** SPARE	20 A	1	25	0.00			0.81			26	1	20 A	CORRIDORS 002, 00WS
** SPARE	20 A	1	27		0.00			1.30		28	1	20 A	RM 029, 024, 018, 020, 016
** SPARE	20 A	1	29			0.00			1.07	30	1	20 A	CORRIDOR 00S &...
** SPARE	20 A	1	31	0.00			0.36			32	1	20 A	COURTYARD WALKWAY
** SPARE	20 A	1	33		0.00			1.25		34	1	20 A	
** SPARE	20 A	1	35			0.00			2.72	36	1	20 A	
** SPARE	20 A	1	37	0.00						38			
** SPARE	20 A	1	39		0.00					40			
** SPARE	20 A	1	41			0.00				42			

PHASE SUBTOTALS (KVA): 4.74 | 7.72 | 9.18 — MAX CONNECTED PHASE 80 A
PHASE SUBTOTAL (AMPS): 40 | 68 | 80

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING	20.15	125%	25.19
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE		100% FIRST 10KVA 50% OTHER	
TOTALS	21.64		27.05

NOTES
* REFER TO ELECTRICAL FO PANEL SCHEDULES SHEETS (EF-900 SERIES SHEETS) AND ELECTRICAL RISER DIAGRAMS FOR MORE INFORMATION.
** PROVIDE NEW SPARE 20A/1P BREAKER IN EXISTING PANEL

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION BNLP2 | LOCATION ELECTRICAL-1 022-1 | FLOOR BASEMENT
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM *
MAIN TYPE * | BUS RATING * | FAULT CURRENT RATING * AIC
MAIN RATING * | MOUNTING * | FAULT... * AIC

REMARKS

DESCRIPTION	BRKR AMP, POLES		CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
RM 022, 026 & 030	20 A	1	1	0.84			0.85			2	1	20 A	MECHANICAL 056
MECHANICAL 056	20 A	1	3		0.85			0.39		4	1	20 A	RM 055A & 058
RM 019, 021, & 070	20 A	1	5			0.10			0.77	6	1	20 A	RM 087P, CORR 00N2
SHELL 050, CORRIDOR...	20 A	1	7	0.34			0.31			8	1	20 A	PARKING OF2 SIDEWALK
RM 001 & 002	20 A	1	9		0.84			0.28		10	1	20 A	RM 003, 004, B042, & B044
CORRIDOR 07 & 00SE	20 A	1	11			1.23			0.08	12	1	20 A	LOWER LEVEL...
RM 037, 036, 045	20 A	1	13	0.20			0.66			14	1	20 A	RM 005, 057, 057A, 060, &...
PARKING LOT OF2D	20 A	1	15		0.53			0.41		16	1	20 A	ISOLATION SUITE
RM 008, 009, 010, 012, &...	20 A	1	17			0.00			0.14	18	1	20 A	SECURITY PEDESTAL
CORRIDOR 00N1	20 A	1	19	0.07			0.56			20	1	20 A	PARKING OF1...
COURTYARD SIDEWALK	20 A	1	21		0.22			0.20		22	1	20 A	FEED STORAGE 033
PARKING OF1 CENTER	20 A	1	23			0.28			0.47	24	1	20 A	PARKING OF1 CENTER
LOADING DOCK...	20 A	1	25	1.71			0.14			26	1	20 A	CONCRETE BENCH
CORRIDOR 00NW	20 A	1	27		0.71			0.44		28	1	20 A	RMS 087, 087A1-A6
INTERIOR COURTYARD	20 A	1	29			0.15			0.13	30	1	20 A	OF8 EXTERIOR...
SOILED CAGE WASH 049B	20 A	1	31	0.23			0.46			32	1	20 A	OF3R
CLEAN CAGE 049,...	20 A	1	33		1.15			0.90		34	1	20 A	RMS 005, 007F-007H
RMS 007B-007E, 070, 072	40 A	1	35			0.81			0.39	36	1	20 A	RMS 003, B-042
SPARE	20 A	1	37	0.00			0.00			38	3	400 A	EXISTING
SPARE	20 A	1	39		0.00			0.00		40	--	--	--
EXISTING	20 A	1	41			0.00			0.00	42	--	--	--

PHASE SUBTOTALS (KVA): 6.37 | 6.93 | 4.54 — MAX CONNECTED PHASE 60 A
PHASE SUBTOTAL (AMPS): 55 | 60 | 38

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING	14.69	125%	18.36
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE		100% FIRST 10KVA 50% OTHER	
TOTALS	17.83		22.29

NOTES
* REFER TO ELECTRICAL FO PANEL SCHEDULES SHEETS (EF-900 SERIES SHEETS) AND ELECTRICAL RISER DIAGRAMS FOR MORE INFORMATION.
** PROVIDE NEW SPARE 20A/1P BREAKER IN EXISTING PANEL

PANELBOARD SCHEDULE

PANEL DESIGNATION BCLP6 | LOCATION CORRIDOR 00N2 | FLOOR BASEMENT
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM *
MAIN TYPE * | BUS RATING * | FAULT CURRENT RATING * AIC
MAIN RATING * | MOUNTING * | FAULT... * AIC

REMARKS

DESCRIPTION	BRKR AMP, POLES		CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
LTNG 080C, 084B, 084C,...	20 A	1	1	0.60			0.36			2	1	20 A	PROCEDURE 087F
LTNG BEHAVIOR SUITE	20 A	1	3		0.94			0.20		4	1	20 A	RESEARCH LAB 087D
SPARE	20 A	1	5			0.00			0.20	6	1	20 A	RESEARCH LAB 087B
SPARE	20 A	1	7	0.00			0.36			8	1	20 A	PROCEDURE 087J
SPARE	20 A	1	9		0.00			0.20		10	1	20 A	RESEARCH LAB 087L
SPARE	20 A	1	11			0.00			0.20	12	1	20 A	RESEARCH LAB 087N
SPARE	20 A	1	13	0.00			0.36			14	1	20 A	PROCEDURE 079F
SPARE	20 A	1	15		0.00			0.20		16	1	20 A	RESEARCH LAB 079D
RESEARCH LAB 087G	20 A	1	17			0.20			0.20	18	1	20 A	RESEARCH LAB 079B
RESEARCH LAB 087E	20 A	1	19	0.20			0.42			20	1	20 A	PROCEDURE 083
PROCEDURE 087C	20 A	1	21		0.36			0.27		22	1	20 A	RMS 087A, 087A6
RESEARCH LAB 087H	20 A	1	23			0.20			0.00	24	--	--	SPACE
RESEARCH LAB 087K	20 A	1	25	0.20			0.00			26	--	--	SPACE
PROCDEDURE 087M	20 A	1	27		0.36			0.00		28	--	--	SPACE
RESEARCH LAB 079G	20 A	1	29			0.20			0.00	30	--	--	SPACE
RESEARCH LAB 079E	20 A	1	31	0.20			0.00			32	--	--	SPACE
PROCEDURE 079C	20 A	1	33		0.36			0.00		34	--	--	SPACE
RESEARCH LAB 081	20 A	1	35			0.27			0.00	36	--	--	SPACE
RESEARCH LAB 085	20 A	1	37	0.27			0.00			38	--	--	SPACE
SPACE	--	--	39		0.00			0.00		40	--	--	SPACE
SPACE	--	--	41			0.00			0.00	42	--	--	SPACE

PHASE SUBTOTALS (KVA): 2.98 | 2.90 | 1.47 — MAX CONNECTED PHASE 27 A
PHASE SUBTOTAL (AMPS): 27 | 26 | 12

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING	7.17	125%	8.96
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE		100% FIRST 10KVA 50% OTHER	
TOTALS	7.35		9.19

NOTES
* REFER TO ELECTRICAL FO PANEL SCHEDULES SHEETS (EF-900 SERIES SHEETS) AND ELECTRICAL RISER DIAGRAMS FOR MORE INFORMATION.

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 1NLP1 | LOCATION ELECTRICAL-1 114-1 | FLOOR MEP-LEVEL 01
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM *
MAIN TYPE * | BUS RATING * | FAULT CURRENT RATING * AIC
MAIN RATING * | MOUNTING * | FAULT... * AIC

REMARKS

DESCRIPTION	BRKR AMP, POLES		CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
STAIR A	20 A	1	1	0.53			0.36			2	1	20 A	RM 114 & 142
RM 101, 101D, 101C, 103,...	20 A	1	3		0.47			1.40		4	1	20 A	LOBBY 101
CAFE 160	20 A	1	5			1.36			0.55	6	1	20 A	CONFERENCE RM 110
RM 163, 102, 103, 103A	20 A	1	7	0.37			0.31			8	1	20 A	CAFE SERVING 161
LOBBY 101	20 A	1	9		0.46					10			
OF10 EXTERIOR...	20 A	1	11			0.67			0.00	12	1	20 A	EXISTING SPARE
RMS 150, 150A, 150B	20 A	1	13	0.20			0.00			14	--	--	SPACE
SPACE	--	--	15		0.00			0.00		16	--	--	SPACE
SPACE	--	--	17			0.00			0.00	18	--	--	SPACE
SPACE	--	--	19	0.00			0.00			20	--	--	SPACE
SPACE	--	--	21		0.00			0.00		22	--	--	SPACE
EXISTING SPARE	20 A	1	23			0.00			0.00	24	--	--	SPACE
EXISTING SPARE	20 A	1	25	0.00			0.00			26	--	--	SPACE
EXISTING SPARE	20 A	1	27		0.00			0.00		28	--	--	SPACE
EXISTING SPARE	20 A	1	29			0.00			0.00	30	--	--	SPACE
EXISTING SPARE	20 A	1	31	0.00			0.00			32	--	--	SPACE
EXISTING SPARE	20 A	1	33		0.00			0.00		34	--	--	SPACE
EXISTING SPARE	20 A	1	35			0.00			0.00	36	--	--	SPACE
EXISTING SPARE	20 A	1	37	0.00			0.00			38	--	--	SPACE
EXISTING SPARE	20 A	1	39		0.00			0.00		40	--	--	SPACE
EXISTING	20 A	1	41			0.00			0.00	42	--	--	SPACE

PHASE SUBTOTALS (KVA): 1.78 | 2.33 | 2.58 — MAX CONNECTED PHASE 22 A
PHASE SUBTOTAL (AMPS): 15 | 20 | 22

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING	6.20	125%	7.75
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE		100% FIRST 10KVA 50% OTHER	
TOTALS	6.69		8.37

NOTES
* REFER TO ELECTRICAL FO PANEL SCHEDULES SHEETS (EF-900 SERIES SHEETS) AND ELECTRICAL RISER DIAGRAMS FOR MORE INFORMATION.

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 1LSLP1 | LOCATION ELECTRICAL-1 114-1 | FLOOR MEP-LEVEL 01
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM *
MAIN TYPE * | BUS RATING * | FAULT CURRENT RATING * AIC
MAIN RATING * | MOUNTING * | FAULT... * AIC

REMARKS

DESCRIPTION	BRKR AMP, POLES		CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
ELECTRICAL 128	20 A	1	1	0.03			0.59			2	1	20 A	STAIR A
114, 142	20 A	1	3		0.19			0.28		4	1	20 A	101D, 105, 110, 160
101C, 102, 103, 160	20 A	1	5			0.36			0.51	6	1	20 A	160, 163
LOBBY 101	20 A	1	7	0.13			0.40			8	1	20 A	CAFE-SERVING 161
CONFERENCE RM 110	20 A	1	9		0.09			0.00		10	--	--	SPACE
	20 A	1	11			0.28			0.00	12	--	--	SPACE
SPACE	--	--	13	0.00			0.00			14	--	--	SPACE
EXISTING SPARE	20 A	1	15		0.00			0.00		16	--	--	SPACE
EXISTING SPARE	20 A	1	17			0.00			0.00	18	--	--	SPACE
EXISTING SPARE	20 A	1	19	0.00			0.00			20	--	--	SPACE
EXISTING SPARE	20 A	1	21		0.00			0.00		22	--	--	SPACE
EXISTING SPARE	20 A	1	23			0.00			0.00	24	--	--	SPACE
EXISTING SPARE	20 A	1	25	0.00			0.00			26	--	--	SPACE
EXISTING	20 A	1	27		0.00			0.00		28	--	--	SPACE
EXISTING	20 A	1	29			0.00			0.00	30	1	20 A	EXISTING

PHASE SUBTOTALS (KVA): 1.16 | 0.55 | 1.15 — MAX CONNECTED PHASE 10 A
PHASE SUBTOTAL (AMPS): 10 | 5 | 10

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING	2.14	125%	2.67
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE		100% FIRST 10KVA 50% OTHER	
TOTALS	2.87		3.58

NOTES
* REFER TO ELECTRICAL FO PANEL SCHEDULES SHEETS (EF-900 SERIES SHEETS) AND ELECTRICAL RISER DIAGRAMS FOR MORE INFORMATION.

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 2NLP1 | LOCATION ELECTRICAL-1 214-1 | FLOOR MEP-LEVEL 02
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM *
MAIN TYPE * | BUS RATING * | FAULT CURRENT RATING * AIC
MAIN RATING * | MOUNTING * | FAULT... * AIC

REMARKS

DESCRIPTION	BRKR AMP, POLES		CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
RM 214 & 242	20 A	1	1	0.36			1.56			2	1	20 A	RM 237-241
COLLABORATION 243	20 A	1	3		0.29			1.66		4	1	20 A	RM 215-220
			5						0.73	6	1	20 A	RM 251F & 251G
LOBBY A	20 A	1	7	0.59			1.11			8	1	20 A	LOBBY B
LOBBY C	20 A	1	9		0.67			1.11		10	1	20 A	LOBBY D
STAIR D	20 A	1	11			0.44			1.45	12	1	20 A	CORRIDOR 201A-201D
RM 205-208	20 A	1	13	0.43			0.40			14	1	20 A	TOILET 202-204
RM 208A, 209-210	20 A	1	15		0.79			0.76		16	1	20 A	RM 261-264
CORRIDOR 200S	20 A	1	17			0.48			1.07	18	1	20 A	OPEN OFFICE 200
RM 265/268	20 A	1	19	0.94			0.75			20	1	20 A	OPEN OFFICE 260
RM 251D & 251E	20 A	1	21		0.73			0.34		22	1	20 A	RM 251H1 & 251H2
			23						1.04	24	1	20 A	RM 234, 235, & 236
RM 252A, 252B, & 252C	20 A	1	25	1.21			1.04			26	1	20 A	RM 221, 222, & 223
LAB MODULE 251	20 A	1	27		1.52			1.12		28	1	20 A	RM 252H, 252J, & 252K
RM 251A, 251B, & 251C	20 A	1	29			1.12			1.52	30	1	20 A	LAB MODULE 251
RM 252H, 251J, & 251K	20 A	1	31	1.21						32			
** SPARE	20 A	1	33		0.00			0.00		34	1	20 A	** SPARE
** SPARE	20 A	1	35			0.00			0.00	36	1	20 A	** SPARE
** SPARE	20 A	1	37	0.00			0.00			38	1	20 A	** SPARE
** SPARE	20 A	1	39		0.00			0.00		40	1	20 A	** SPARE
** SPARE	20 A	1	41			0.00			0.00	42	1	20 A	** SPARE

PHASE SUBTOTALS (KVA): 9.60 | 8.98 | 7.84 — MAX CONNECTED PHASE 81 A
PHASE SUBTOTAL (AMPS): 81 | 76 | 65

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING	26.42	125%	33.02
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE		100% FIRST 10KVA 50% OTHER	
TOTALS	26.42		33.02

NOTES
* REFER TO ELECTRICAL FO PANEL SCHEDULES SHEETS (EF-900 SERIES SHEETS) AND ELECTRICAL RISER DIAGRAMS FOR MORE INFORMATION.
** PROVIDE NEW SPARE 20A/1P BREAKER IN EXISTING PANEL

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 2LSLP1 | LOCATION ELECTRICAL-1 214-1 | FLOOR MEP-LEVEL 02
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM *
MAIN TYPE * | BUS RATING * | FAULT CURRENT RATING * AIC
MAIN RATING * | MOUNTING * | FAULT... * AIC

REMARKS

DESCRIPTION	BRKR AMP, POLES		CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
214, 242	20 A	1	1	0.24			0.22			2	1	20 A	201, 250
202, 203, 204, 205, 206,...	20 A	1	3		0.51			0.23		4	1	20 A	201, 210A, 201B, 201C
260, 270	20 A	1	5			0.27			0.11	6	1	20 A	CORRIDOR 200S
STAIR D	20 A	1	7	0.09			0.13			8	1	20 A	Lighting
			9							10			
			11							12			
			13							14			
** SPARE	20 A	1	15		0.00					16			
** SPARE	20 A	1	17			0.00				18			
** SPARE	20 A	1	19	0.00						20			
** SPARE	20 A	1	21		0.00					22			
** SPARE	20 A	1	23			0.00				24			
** SPARE	20 A	1	25	0.00						26			
** SPARE	20 A	1	27		0.00					28			
** SPARE	20 A	1	29			0.00				30			

PHASE SUBTOTALS (KVA): 0.68 | 0.74 | 0.38 — MAX CONNECTED PHASE 7 A
PHASE SUBTOTAL (AMPS): 6 | 7 | 3

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING	1.80	125%	2.25
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE		100% FIRST 10KVA 50% OTHER	
TOTALS	1.80		2.25

NOTES
* REFER TO ELECTRICAL FO PANEL SCHEDULES SHEETS (EF-900 SERIES SHEETS) AND ELECTRICAL RISER DIAGRAMS FOR MORE INFORMATION.
** PROVIDE NEW SPARE 20A/1P BREAKER IN EXISTING PANEL

SCHEDULE MATRIX

BNLP1	BLSLP2	BCLP6
1NLP1	1LSLP1	
2NLP1	2LSLP1	

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - CD REVIEW	12/04/20
2	P4 - BID & PERMIT	01/08/21

Drawn By CJC
Checked By WD
Client Number
Project Number UKR15

STATE OF KENTUCKY — ALAN R. KELLUM — 20186 — LICENSED PROFESSIONAL ENGINEER

DRAWING
PHASE 4 LIGHTING PANEL SCHEDULES

SHEET NO. EL-460

1/11/2021 8:40:19 AM

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 6NLP1 **LOCATION** ELECTRICAL-1 614-1 **FLOOR** MEP-LEVEL 06
VOLTAGE 120/208 Wye **3 PHASE 4 WIRE** **FED FROM** *
MAIN TYPE * **BUS RATING** * **FAULT CURRENT RATING** * AIC
MAIN RATING * **MOUNTING** * **FAULT...** * AIC

REMARKS

DESCRIPTION	BRKR AMP, POLES	CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES	DESCRIPTION
			LEFT SIDE, KVA			RIGHT SIDE, KVA					
~~ELEVATORS A, B, & PIT~~	~~20 A~~	~~1~~	~~1~~	~~0.18~~		~~0.36~~			~~2~~	~~1~~	~~20 A~~ ~~RMS 614, 642~~
~~RMS 620, 650C~~	~~20 A~~	~~1~~	~~3~~		~~1.12~~		~~1.04~~		~~4~~	~~1~~	~~20 A~~ ~~RMS 610, 611, 612~~
RMS 650H, 650J, 650K	20 A	1	5		1.21			0.73	6	1	20 A RMS 650F, 650G
RMS 647, 648, 649	20 A	1	7	1.04		1.20			8	1	20 A RMS 601, 601A, 605
RMS 602-604	20 A	1	9		0.93		1.52		10	1	20 A LAB NEIGHBORRD 650
			11						12		
RMS 606-608	20 A	1	13	0.71		1.52			14	1	20 A LAB NEIGHBORRD 650
			15						16		
			17						18		
			19						20		
			21						22		
			23						24		
			25						26		
			27						28		
			29						30		
			31						32		
			33						34		
			35						36		
			37						38		
			39						40		
LIGHTING CONTROLLER	20 A	1	41		0.00				42		

	A	B	C
PHASE SUBTOTALS (KVA):	4.92	4.60	1.94
PHASE SUBTOTAL (AMPS):	44	42	16

MAX CONNECTED PHASE 44 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING	11.36	125%	14.20
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE		100% FIRST 10KVA 50% OTHER	
TOTALS	11.46		14.33

NOTES
* REFER TO ELECTRICAL FO PANEL SCHEDULES SHEETS (EF-900 SERIES SHEETS) AND ELECTRICAL RISER DIAGRAMS FOR MORE INFORMATION.

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 6LSLP1 **LOCATION** ELECTRICAL-1 614-1 **FLOOR** MEP-LEVEL 06
VOLTAGE 120/208 Wye **3 PHASE 4 WIRE** **FED FROM** *
MAIN TYPE * **BUS RATING** * **FAULT CURRENT RATING** * AIC
MAIN RATING * **MOUNTING** * **FAULT...** * AIC

REMARKS

DESCRIPTION	BRKR AMP, POLES	CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES	DESCRIPTION
			LEFT SIDE, KVA			RIGHT SIDE, KVA					
~~614, 642~~	~~20 A~~	~~1~~	~~1~~	~~0.18~~		0.28			2	1	20 A RMS 602-604
			3				0.34		4	1	20 A RMS 650F-650K
RMS 650A-650E	20 A	1	5		0.34			0.24	6	1	20 A RMS 601, 601A, 605
RMS 612, 647, 650	20 A	1	7	0.54					8		
			9						10		
			11						12		
			13						14		
			15						16		
			17						18		
			19						20		
			21						22		
			23						24		
			25						26		
			27						28		
			29						30		

	A	B	C
PHASE SUBTOTALS (KVA):	1.01	0.34	0.58
PHASE SUBTOTAL (AMPS):	9	3	5

MAX CONNECTED PHASE 9 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING	1.92	125%	2.40
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE		100% FIRST 10KVA 50% OTHER	
TOTALS	1.92		2.40

NOTES
* REFER TO ELECTRICAL FO PANEL SCHEDULES SHEETS (EF-900 SERIES SHEETS) AND ELECTRICAL RISER DIAGRAMS FOR MORE INFORMATION.

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 6NLP2 **LOCATION** ELECTRICAL 628 **FLOOR** MEP-LEVEL 06
VOLTAGE 120/208 Wye **3 PHASE 4 WIRE** **FED FROM** *
MAIN TYPE * **BUS RATING** * **FAULT CURRENT RATING** * AIC
MAIN RATING * **MOUNTING** * **FAULT...** * AIC

REMARKS

DESCRIPTION	BRKR AMP, POLES	CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES	DESCRIPTION
			LEFT SIDE, KVA			RIGHT SIDE, KVA					
~~RMS 628~~	~~20 A~~	~~1~~	~~1~~	~~0.18~~		~~1.14~~			~~2~~	~~1~~	~~20 A~~ ~~RMS 651F, 651G~~
RMS 651H, 651J, 651K	20 A	1	3		1.21		0.73		4	1	20 A 651D, 651E
RMS 651A-651C	20 A	1	5		1.12			1.12	6	1	20 A RMS 652H, 652J, 652K
RMS 652F, 652G	20 A	1	7	0.73		0.77			8	1	20 A RMS 625D, 625E, 629
RMS 652A-652C	20 A	1	9		0.36		0.47		10	1	20 A RMS 624, 625
RMS 621-623	20 A	1	11		1.04			1.04	12	1	20 A RMS 618-620
RMS 637-639	20 A	1	13	1.04		1.04			14	1	20 A RMS 634-636
RMS 609-633	20 A	1	15		0.75		0.55		16	1	20 A RMS 600E-600EN
RMS 600W, 600WN	20 A	1	17		0.66			1.42	18	1	20 A RMS 643-646
RMS 650D, 650E	20 A	1	19	0.73		0.94			20	1	20 A RMS 613, 615-517
LAB NEIGHBORHOOD 651	20 A	1	21		1.52		0.76		22	1	20 A LAB NEIGHBORHOOD 651
LAB NEIGHBORHOOD 652	20 A	1	23			1.52		1.52	24	1	20 A LAB NEIGHBORHOOD 652
			25						26		
			27						28		
			29						30		
			31						32		
			33						34		
			35						36		
			37						38		
			39						40		
			41						42		

	A	B	C
PHASE SUBTOTALS (KVA):	6.49	6.35	9.41
PHASE SUBTOTAL (AMPS):	54	53	79

MAX CONNECTED PHASE 79 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING	22.24	125%	27.81
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE		100% FIRST 10KVA 50% OTHER	
TOTALS	22.24		27.81

NOTES
* REFER TO ELECTRICAL FO PANEL SCHEDULES SHEETS (EF-900 SERIES SHEETS) AND ELECTRICAL RISER DIAGRAMS FOR MORE INFORMATION.

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 6LSLP2 **LOCATION** ELECTRICAL 628 **FLOOR** MEP-LEVEL 06
VOLTAGE 120/208 Wye **3 PHASE 4 WIRE** **FED FROM** *
MAIN TYPE * **BUS RATING** * **FAULT CURRENT RATING** * AIC
MAIN RATING * **MOUNTING** * **FAULT...** * AIC

REMARKS

DESCRIPTION	BRKR AMP, POLES	CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES	DESCRIPTION
			LEFT SIDE, KVA			RIGHT SIDE, KVA					
~~LTNG-PLPT-628~~	~~20 A~~	~~1~~	~~1~~	~~0.07~~		~~0.14~~			~~2~~	~~1~~	~~20 A~~ ~~RMS 651F, 651G, 651~~
RMS 618, 639, 651	20 A	1	3		0.54		0.54		4	1	20 A RMS 623, 634, 652
RMS 651A-652E	20 A	1	5			0.34		0.34	6	1	20 A RMS 652F, 652G, 652H,...
RMS 652A-652E	20 A	1	7	0.34		0.29			8	1	20 A RMS 600E, 400EN
			9				0.25		10	1	20 A RMS 600W, 600WN
			11						12		
			13						14		
			15						16		
			17						18		
			19						20		
			21						22		
			23						24		
			25						26		
			27						28		
			29						30		

	A	B	C
PHASE SUBTOTALS (KVA):	1.13	1.33	0.67
PHASE SUBTOTAL (AMPS):	10	12	6

MAX CONNECTED PHASE 12 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING	3.13	125%	3.91
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE		100% FIRST 10KVA 50% OTHER	
TOTALS	3.13		3.91

NOTES
* REFER TO ELECTRICAL FO PANEL SCHEDULES SHEETS (EF-900 SERIES SHEETS) AND ELECTRICAL RISER DIAGRAMS FOR MORE INFORMATION.

SCHEDULE MATRIX		
6NLP1	6LSLP1	
6NLP2	6LSLP2	

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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 - CD REVIEW	12/04/20
2	P4 - BID & PERMIT	01/08/21

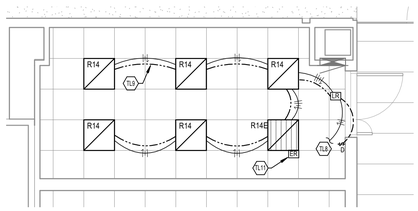
Drawn By CJC
Checked By WD
Client Number
Project Number UKR15

STATE OF KENTUCKY ALAN R. KELLUM 20166 LICENSED PROFESSIONAL ENGINEER

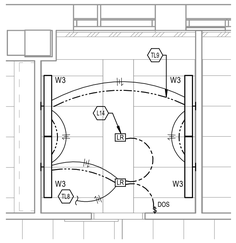
DRAWING
PHASE 4 LIGHTING PANEL SCHEDULES

SHEET NO.
EL-461

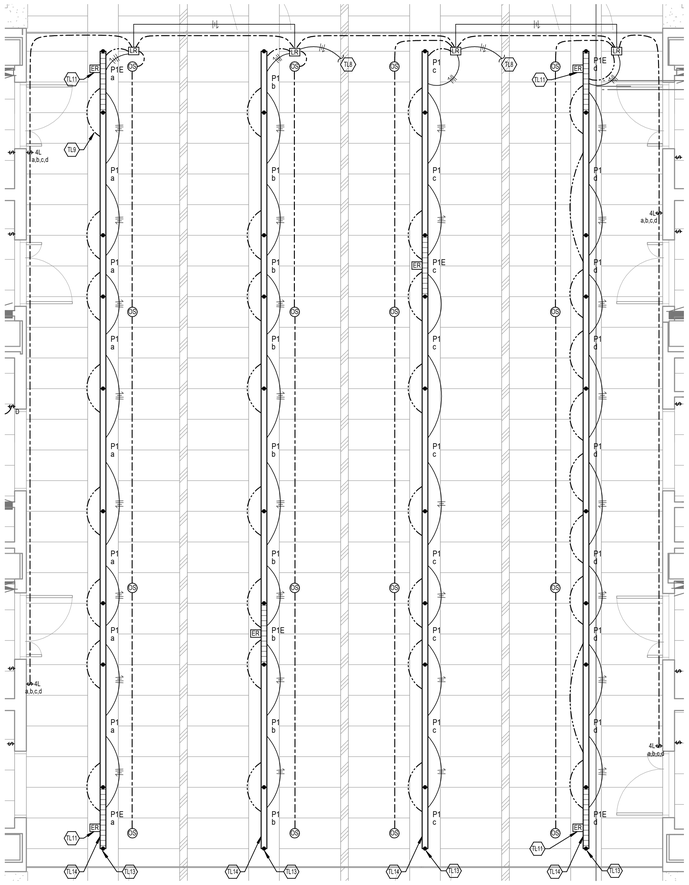
1/11/2021 8:40:22 AM



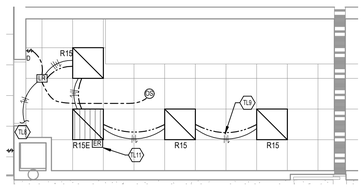
2 PHASE 4 TYPICAL LAB PROCEDURE ROOM LIGHTING PLAN
1/4" = 1'-0"



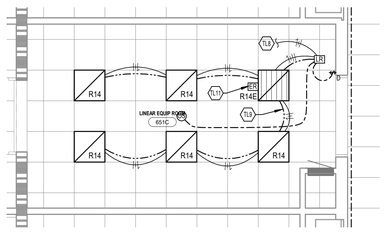
1 PHASE 4 TYPICAL SMALL OFFICE LIGHTING PLAN
1/4" = 1'-0"



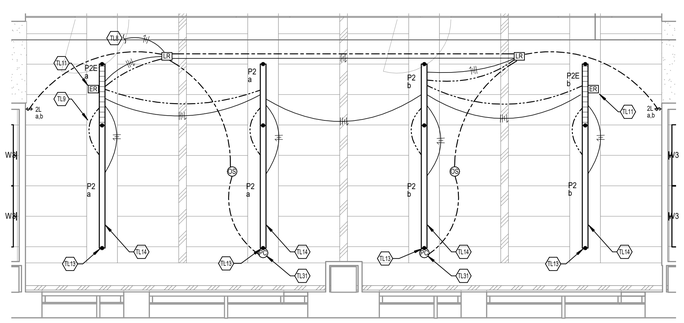
3 PHASE 4 TYPICAL LAB NEIGHBORHOOD MODULE LIGHTING PLAN
1/4" = 1'-0"



4 PHASE 4 TYPICAL FUME HOOD ROOM LIGHTING PLAN
1/4" = 1'-0"



5 PHASE 4 TYPICAL LINEAR EQUIP ROOM LIGHTING PLAN
1/4" = 1'-0"



6 PHASE 4 TYPICAL POST DOC/GRAD TECH LIGHTING PLAN
1/4" = 1'-0"

GENERAL NOTES:

A. ALL VIVARIUM LIGHTING DEVICE PLATES AND COVERS TO BE MANUFACTURER PAINTED WHITE STAINLESS STEEL. THIS INCLUDES RESEARCH LAB, PROCEDURE ROOM, ISOLATION CUBICLE, ISOLATION PREP, AND VIVARIUM CORRIDORS, PHENOTYPING, CARCASS REFRIGERATION, NECROSCOPY, AND ICE STORAGE.

TAGGED NOTES

Key Value	Keynote Text
L14	PROVIDE ADDITIONAL LIGHTING RELAY(S) FOR PLUG LOAD CONTROL. REFER TO POWER SHEETS FOR QUANTITY AND CIRCUIT TO BE CONTROLLED. INTEGRATE INTO LIGHTING CONTROL SYSTEM TO PROVIDE SCHEDULED SHUTOFF OF CIRCUIT.
TL8	CIRCUIT AS INDICATED ON LIGHTING PLANS.
TL9	PROVIDE 0-10V DIMMING WIRE TO ALL FIXTURE DRIVERS INDICATED TO BE DIMMABLE. ROUTE IN CONDUIT TO FIXTURES. (TYPICAL)
TL11	REFER TO LIGHTING PLANS FOR CIRCUITING OF EMERGENCY CIRCUITS. (TYPICAL)
TL13	PENDANT SUSPENSION CABLE LOCATIONS SHOWN ARE DIAGRAMMATIC. CONTRACTOR RESPONSIBLE FOR COORDINATING FIXTURE LENGTHS SUCH THAT SUSPENSION CABLES DO NOT CONFLICT WITH HVAC AND PLUMBING. SUBMIT COORDINATION DRAWINGS FOR LAB NEIGHBORHOOD MODULES WITH LIGHTING SHOP DRAWINGS TO SHOW COORDINATION BETWEEN ALL CEILING MOUNT DEVICES. (TYPICAL)
TL14	CENTER PENDANTS IN GYP STRIP. CAREFULLY COORDINATE LENGTHS OF PENDANTS SUCH THAT SUSPENSION CABLES DO NOT CONFLICT WITH HVAC GRILLES AND CHILLED BEAMS. REFER TO MECHANICAL SHEETS. (TYPICAL)
TL31	PROVIDE DAYLIGHT SENSOR INTEGRAL TO FIXTURE. SENSOR SHALL PROVIDE AUTOMATIC DIMMING CONTROL OF COMPLETE ZONE OF LIGHTING.

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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 DD ISSUANCE	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By CJC

Checked By WD

Client Number

STATE OF KENTUCKY ALAN R. KELLUM 20166 LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

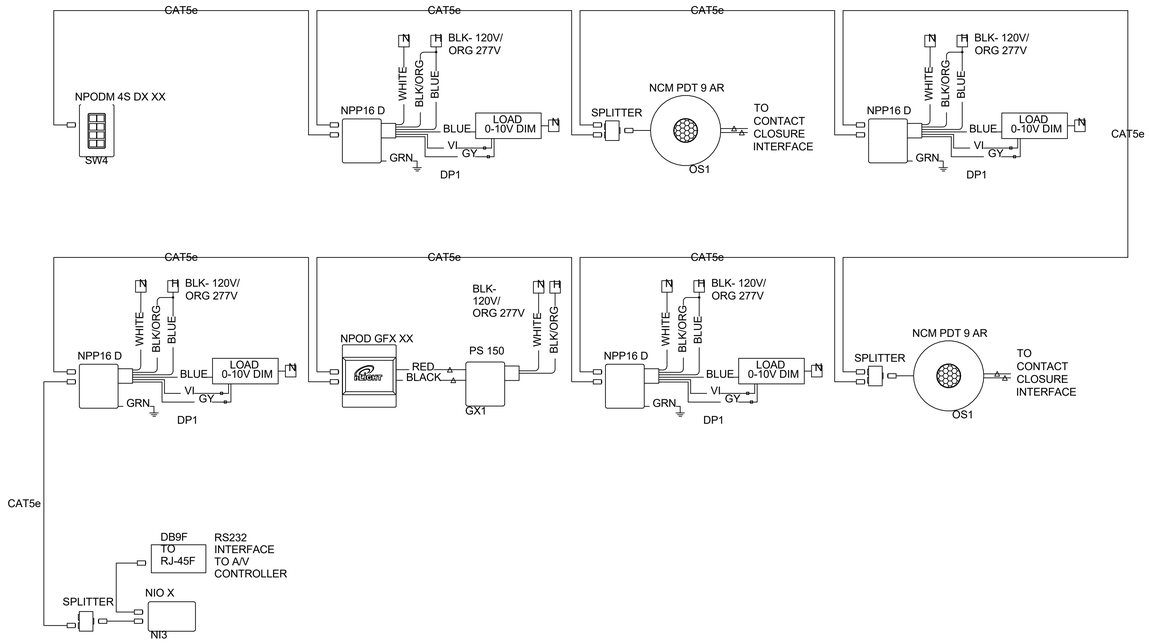
DRAWING

PHASE 4 TYPICAL LIGHTING PLANS

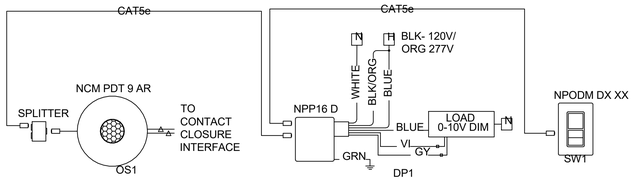
SHEET NO.

EL-560

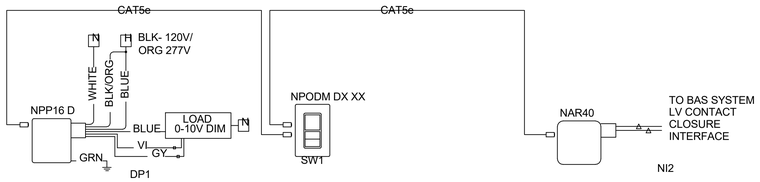
1/11/2021 8:40:43 AM



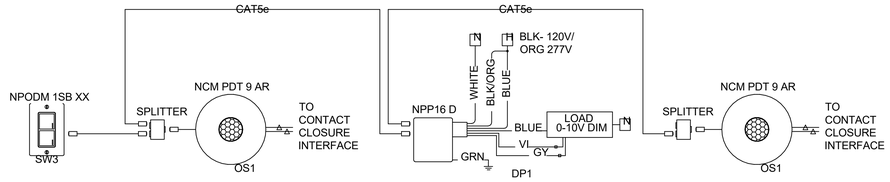
1 CONFERENCE ROOM - TYPICAL
NOT TO SCALE



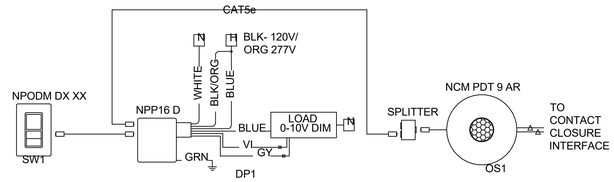
2 FUME HOOD ROOM - TYPICAL
NOT TO SCALE



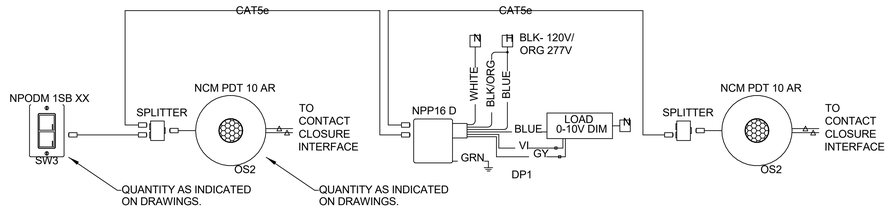
3 LAB PROCEDURE ROOM - TYPICAL
NOT TO SCALE



4 LARGE REST ROOM - TYPICAL
NOT TO SCALE



5 LINEAR EQUIPMENT ROOM - TYPICAL
NOT TO SCALE



6 CORRIDOR - TYPICAL
NOT TO SCALE

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Drawn By CJC

Checked By WD

STATE OF KENTUCKY
ALAN R. KELLUM
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LICENSED
PROFESSIONAL ENGINEER

Client Number

Project Number UKR15

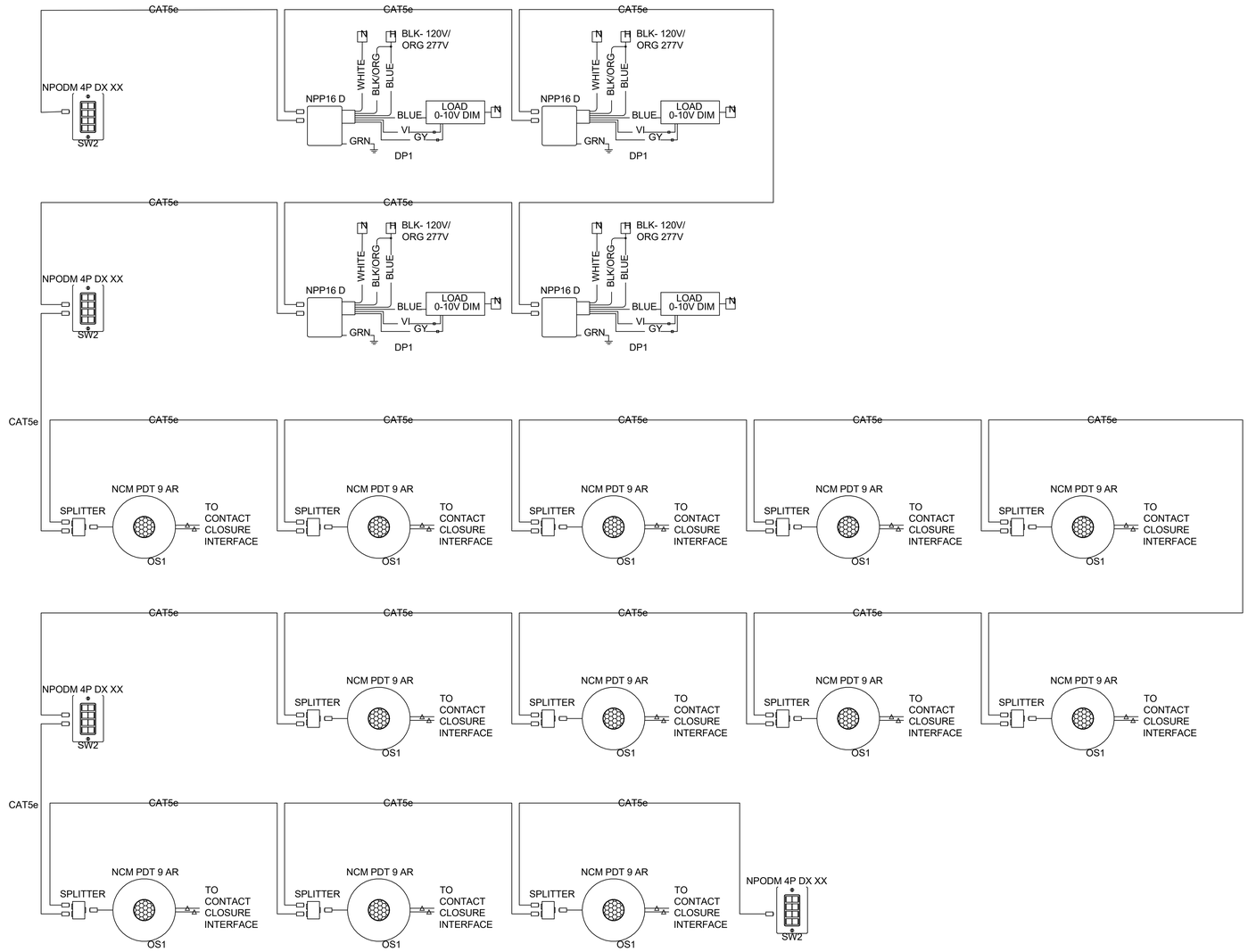
DRAWING

PHASE 4 NETWORK LIGHTING CONTROL RISER DIAGRAMS

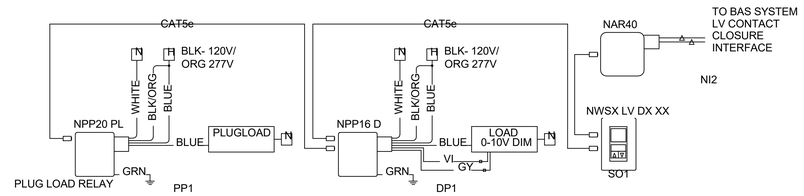
SHEET NO.

EL-660

1/11/2021 8:40:46 AM



1 NEIGHBORHOOD LIGHTING MODULE - TYPICAL
NOT TO SCALE



2 SMALL OFFICE -TYPICAL
NOT TO SCALE

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ISSUANCES

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2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By CJC

Checked By WD

Client Number

STATE OF KENTUCKY ALAN R. KELLUM 20166 LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

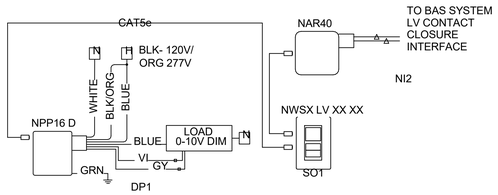
DRAWING

PHASE 4 NETWORK LIGHTING CONTROL RISER DIAGRAMS

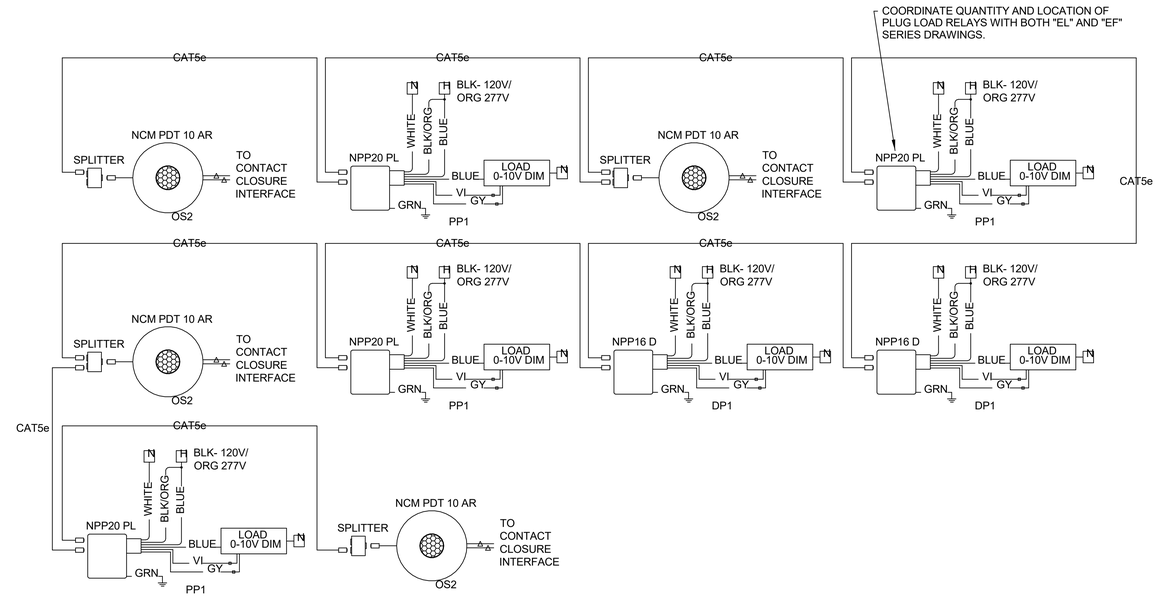
SHEET NO.

EL-661

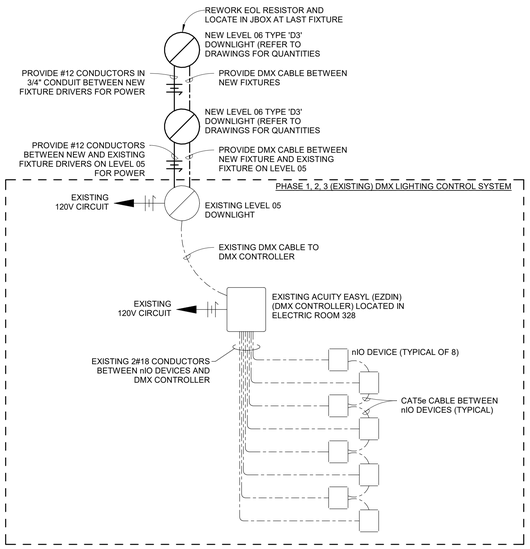
1/11/2021 8:40:49 AM



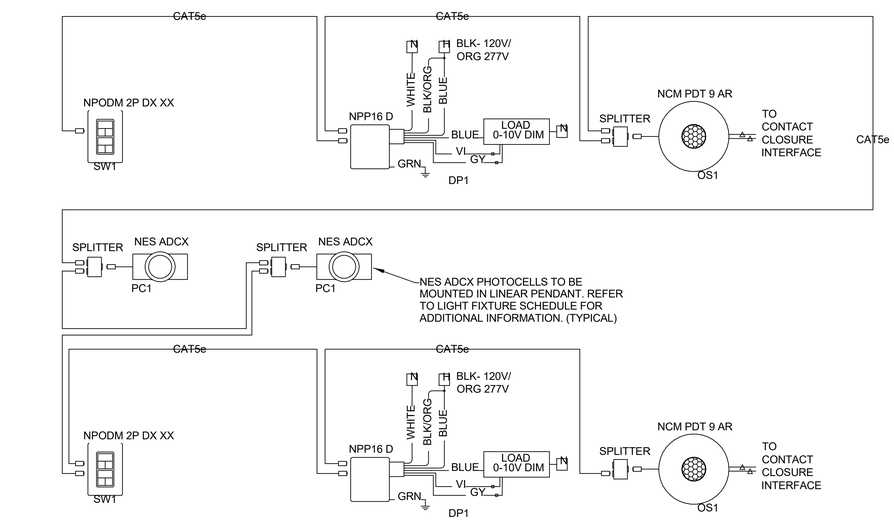
3 SMALL RESTROOM - TYPICAL
NOT TO SCALE



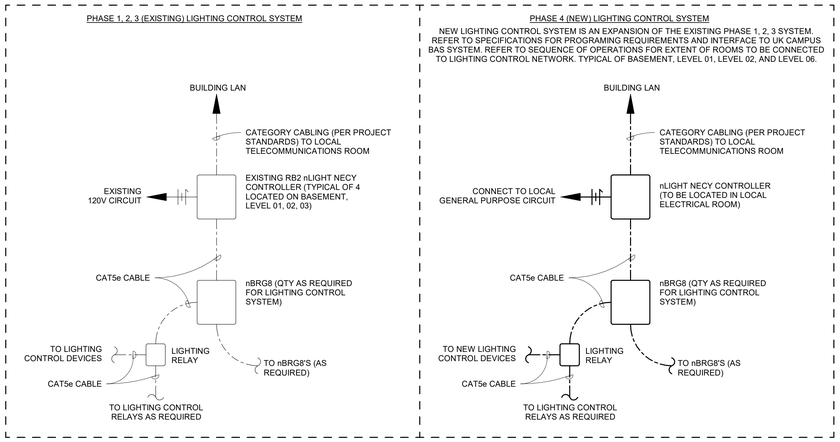
1 OPEN OFFICE - TYPICAL
NOT TO SCALE



5 PHASE 4 - DMX COLOR CHANGING LIGHTING SYSTEM EXPANSION RISER
SCALE: NO SCALE



2 POST DOC/GRAD TECH - TYPICAL
NOT TO SCALE



4 PHASE 4 - nLIGHT SYSTEM EXPANSION RISER
SCALE: NO SCALE

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ISSUANCES

No.	Description	Date
1	P4 DD ISSUANCE	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By CJC

Checked By WD

STATE OF KENTUCKY
ALAN R. KELLUM
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PROFESSIONAL ENGINEER

Client Number

Project Number UKR15

DRAWING

PHASE 4 NETWORK LIGHTING CONTROL RISER DIAGRAMS

SHEET NO.

EL-662

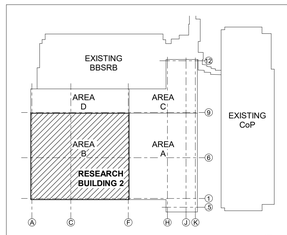
1/11/2021 8:40:52 AM

ESS GENERAL NOTES

A. HALFTONED SYMBOLS SHOWN ON SHEET INDICATE WORK WAS COMPLETED IN PREVIOUS PHASE.

1 ESS - BASEMENT PHASE 4 FITOUT - AREA "B" -ESS
1/8" = 1'-0"

TAGGED NOTES	
ESS3	INSTALL ACCESS CONTROL AT THIS LOCATION. INCLUDE CARD READER, ELECTRIFIED HARDWARE WITH REX AND DOOR POSITION SWITCH.
ESS8	INSTALL ELEVATOR CARD READER. COORDINATE INSTALLATION WITH ELEVATOR CONTRACTOR. COORDINATE WITH OWNER FOR PROGRAMMING OF ELEVATOR ACCESS CONTROL.
ESS13	INSTALL ACCESS CONTROL AT THIS LOCATION INCLUDE EYE SCANNER MOUNTED AT 54" AFF, CARD READER MOUNTED AT 48" AFF, ELECTRICIFIED DOOR HARDWARE WITH REX AND DOOR POSITION SWITCH INCLUDED.
ESS14	INSTALL CARD READER THIS SIDE OF DOORWAY. OPERATION TO REQUIRE SUCCESSFUL CARD READ TO EXIT.
ESS15	INSTALL ACCESS CONTROL PANELS IN THIS CLOSET. SUBMIT WALL EQUIPMENT LAYOUT TO UKCNS FOR APPROVAL BEFORE WORK BEGINS. COORDINATE WITH DIVISION 26 CONTRACTOR FOR LOCATION OF POWER. NO WORK TO BE ALLOWED IN THIS ROOM UNTIL EQUIPMENT LAYOUTS HAVE BEEN APPROVED BY UKCNS.
ESS16	INSTALL CARD READER HERE TO BE USED WITH ESS HARDWARE CALLED OUT ON OTHER SIDE OF DOOR.
ESS28	INSTALL DELAYED EGRESS BUTTON WITH LOCAL DOOR ALARM AT THIS LOCATION. IN ADDITION INSTALL CARD READERS ON BOTH SIDES OF DOOR. PROVIDE PROPER SIGNAGE FOR OPERATION OF THE DOOR. DOOR FUNCTION WILL ALLOW EXIT AFTER 10 SECONDS WHEN BUTTON IS PRESSED. LOCAL ALARM WILL SOUND AND FORCED DOOR ALARM WILL BE SENT WHEN DOOR IS OPENED. A VALID CARD READ ON EITHER SIDE OF THE DOOR WILL ALLOW INGRESSS/EGRESS WITHOUT ALARM SOUNDING.
ESS29	INSTALL ACCESS CONTROL AT THIS LOCATION INCLUDE EYE SCANNER MOUNTED AT 54" AFF. CARD READER MOUNTED AT 48" AFF, ELECTRICIFIED DOOR HARDWARE WITH REX, AND SURFACE MOUNTED DOOR POSITION SWITCHES LOCATED ON SECURE SIDE OF DOOR.
ESS33	REFER TO DIVISION 8 HARDWARE SET 4 FOR CHANGED DETAILS. COORDINATE DELAYED EGRESS FUNCTION WITH ACCESS CONTROL AND FIRE ALARM SYSTEM.
ESS48	INSTALL WAVE TO OPEN TOUCHLESS AUTO DOOR ACTUATOR FOR DOOR 049D AT THIS LOCATION ON WALL.
ESS49	INSTALL WAVE TO OPEN TOUCHLESS AUTO DOOR ACTUATOR FOR DOOR 049B AT THIS LOCATION ON WALL.
ESS50	INSTALL EYE SCANNER FOR USE WITH DOOR SC0A MOUNTED AT 54" AFF.
ESS51	REMOVE CARD READER FROM DOOR 047A IN A MANNER THAT IT MAY BE REUSED AND RELOCATED TO 48" AFF ON WALL AS INDICATED ON PLANS. IF CARD READER IS NOT ABLE TO BE REUSED, REPLACE CARD READER WITH A NEW RP40 CARD READER AND INSTALL AT THIS LOCATION.
ESS59	CARD READER WAS NOT INSTALLED AS INDICATED. PHASE 1 CONTRACTOR SHALL INSTALL CARD READER AS PER THIS DRAWING.
ESS62	PHASE 4 SCOPE BOUNDARY.
ESS63	PROVIDE AND INSTALL LOCAL ALARM AT THIS LOCATION FOR DOOR 080H. ALARM TO SOUND WHEN DOOR IS OPENED WITHOUT VALID CREDENTIAL READ. ALARM VOLUME TO BE ADJUSTED TO ALLOW USERS TO KNOW THE DOOR HAS BEEN OPENED BUT NOT TO DISTURB INSIDE LAB SPACES OR EXPERIMENTS. MOUNT ALARM NEAR CEILING ABOVE NORMAL REACH. COORDINATE OPERATION WITH OWNER AT INSTALL.
ESS64	PROVIDE AND INSTALL LOCAL ALARM AT THIS LOCATION FOR DOOR 088H. ALARM TO SOUND WHEN DOOR IS OPENED WITHOUT VALID CREDENTIAL READ. ALARM VOLUME TO BE ADJUSTED TO ALLOW USERS TO KNOW THE DOOR HAS BEEN OPENED BUT NOT TO DISTURB INSIDE LAB SPACES OR EXPERIMENTS. MOUNT ALARM NEAR CEILING ABOVE NORMAL REACH. COORDINATE OPERATION WITH OWNER AT INSTALL.



KEY PLAN
NTS

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UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 DD ISSUANCE	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By MT

Checked By WW

STATE OF KENTUCKY ALAN R. KELLUM 20166 LICENSED PROFESSIONAL ENGINEER

Client Number

Project Number UKR15

DRAWING

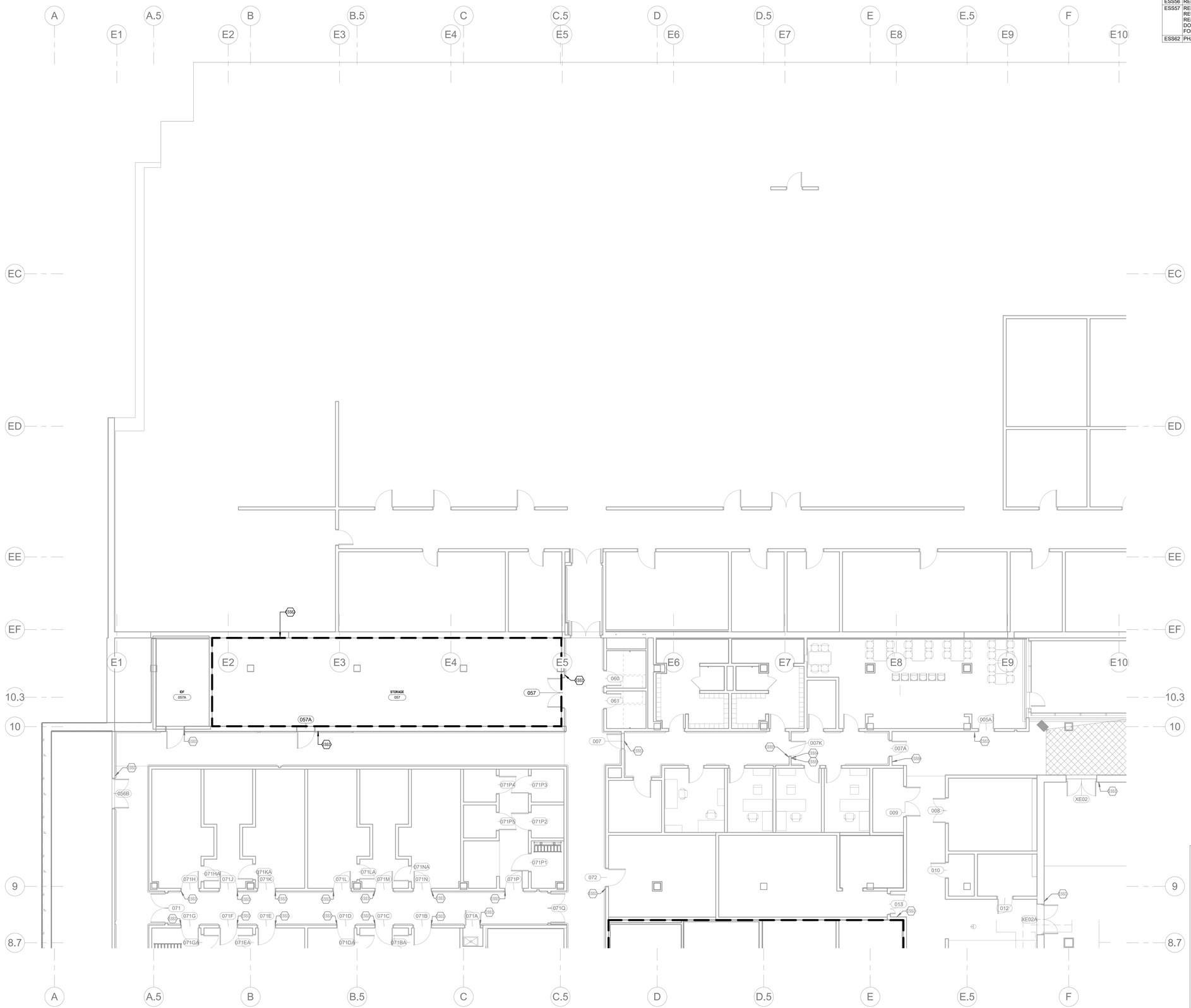
BASEMENT PHASE 4 FITOUT AREA 'B' - ESS PLAN

SHEET NO.

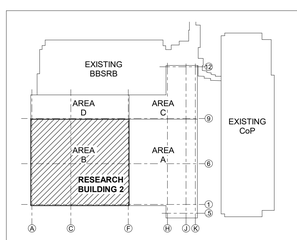
ES-160B

1/8/2021 1:03:02 PM

TAGGED NOTES	
ESS3	INSTALL ACCESS CONTROL AT THIS LOCATION. INCLUDE CARD READER, ELECTRIFIED HARDWARE WITH REX AND DOOR POSITON SWITCH.
ESS54	INSTALL EYE SCANNER RELOCATED FROM DOOR 007 TO DOOR 007K 54" AFF ON WALL AS INDICATED ON PLANS.
ESS55	INSTALL ACCESS CONTROL AT THIS LOCATION. INCLUDE CARD READERS AT 48" AFF ON BOTH SIDES OF THE DOOR, ELECTRIFIED HARDWARE WITH REX AND DOOR POSITON SWITCH.
ESS56	REMOVE EYE SCANNER IN A MANNER THAT IT MAY BE REUSED.
ESS57	REMOVE EYE SCANNER FROM DOOR 007 IN A MANNER THAT IT MAY BE REUSED AND RELOCATED TO INDICATED LOCATION ON DOOR 007K. REMOVE EXISTING ACCESS CONTROL, REX, DPS AND CARD READER FROM DOOR 007 AND RETURN EQUIPMENT TO OWNER. COORDINATE WITH OWNER FOR NEW DOOR FUNCTIONALITY.
ESS62	PHASE 4 SCOPE BOUNDARY.



1 ESS - BASEMENT PHASE 4 FITOUT - AREA "D" - ESS
1/8" = 1'-0"



KEY PLAN
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2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By MT

Checked By WW

Client Number

STATE OF KENTUCKY ALAN R. KELLUM 20186 LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

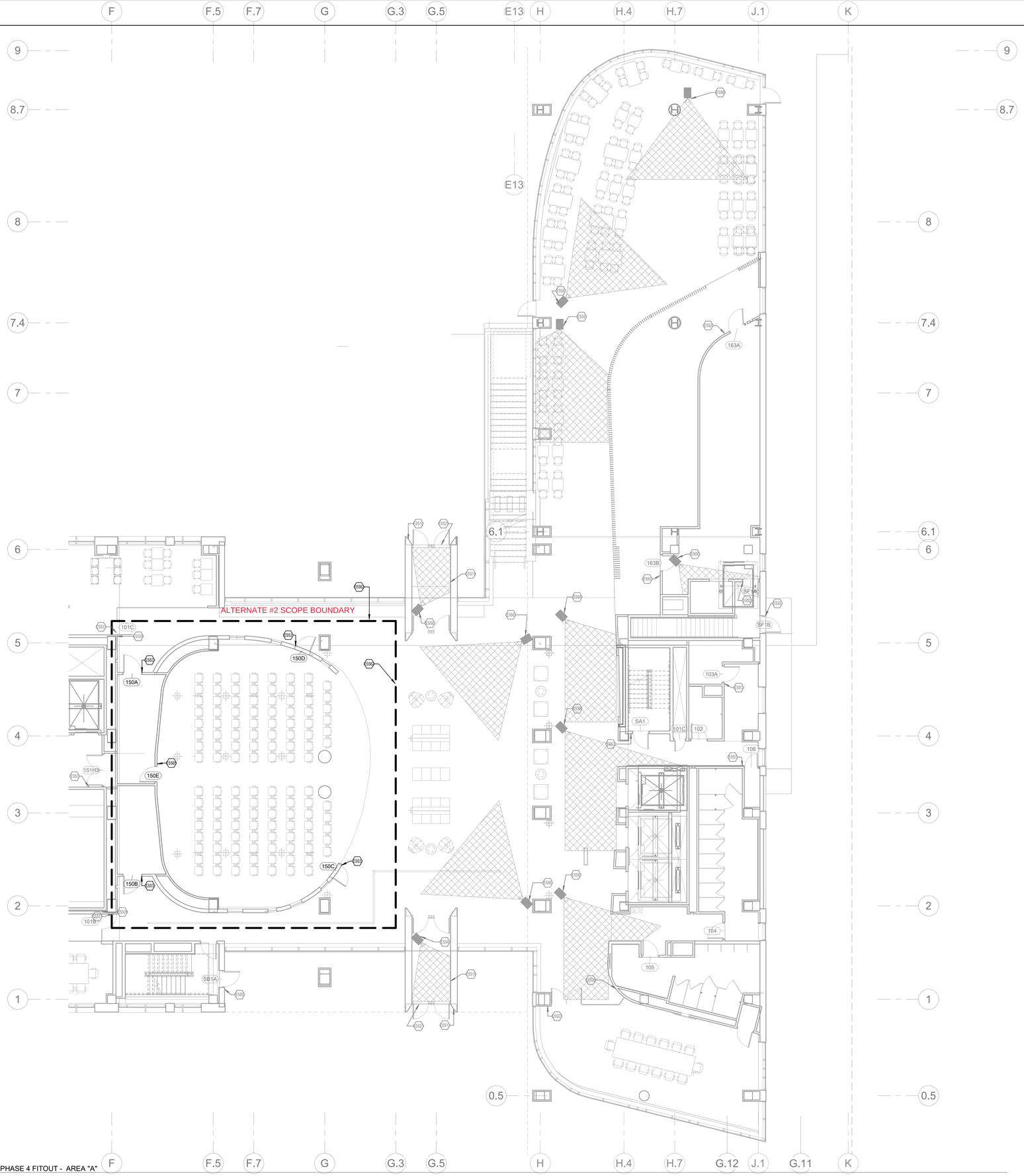
DRAWING

BASEMENT PHASE 4 FITOUT AREA 'D' - ESS PLAN

SHEET NO.

ES-160D

1/8/2021 1:09:09 PM



1 ESS - LEVEL 01 PHASE 4 FITOUT - AREA "A"
1/8" = 1'-0"

ESS GENERAL NOTES

A. HALFTONED SYMBOLS SHOWN ON SHEET INDICATE WORK WAS COMPLETED IN PREVIOUS PHASE.

TAGGED NOTES

Key Value	Keynote Text
ESS3	INSTALL ACCESS CONTROL AT THIS LOCATION. INCLUDE CARD READER, ELECTRIFIED HARDWARE WITH REX AND DOOR POSITON SWITCH.
ESS6	INSTALL CEILING MOUNTED VIDEO CAMERA AT THIS LOCATION. CAMERA VIEW TO MATCH DRAWING, COORDINATE VIEW WITH OWNER BEFORE INSTALLATION AND AGAIN WHEN INSTALLED.
ESS10	INSTALL LONG RANGE CARD READER. 36" ACTUATOR, ACCESS CONTROL REX AND DOOR POSITION SWITCH, INTEGRATE WITH AUTO DOOR OPERATORS.
ESS18	INSTALL TWO (2) 36" HIGH DOOR ACTUATORS WALL MOUNTED FOR OUTSIDE AND INSIDE DOOR CONTROL. COORDINATE WITH DIVISION 08 AND ARCHITECTRUAL PLANS.
ESS21	INSTALL ACCESS CONTROL HARDWARE WITH REX AND DOOR POSITION SWITCH.
ESS26	INSTALL ACCESS CONTROL AT THIS LOCATION. INCLUDE CARD READER, MAGNETIC LOCK AND DOOR POSITON SWITCH.
ESS27	INSTALL PUSH TO EXIT BUTTON AT THIS LOCATION. BUTTON MUST BREAK POWER TO MAGNETIC LOCK.
ESS62	PHASE 4 SCOPE BOUNDARY.
ESS65	

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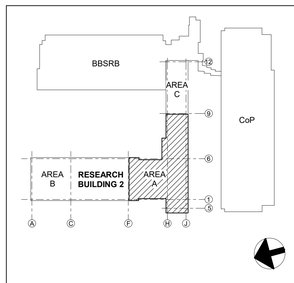
ISSUANCES

No.	Description	Date
1	P4 - CD REVIEW	12/04/20
2	P4 - BID & PERMIT	01/08/21



KEY PLAN
NTS

Drawn By: Author
Checked By: Checker
Client Number:
Project Number: UKR15

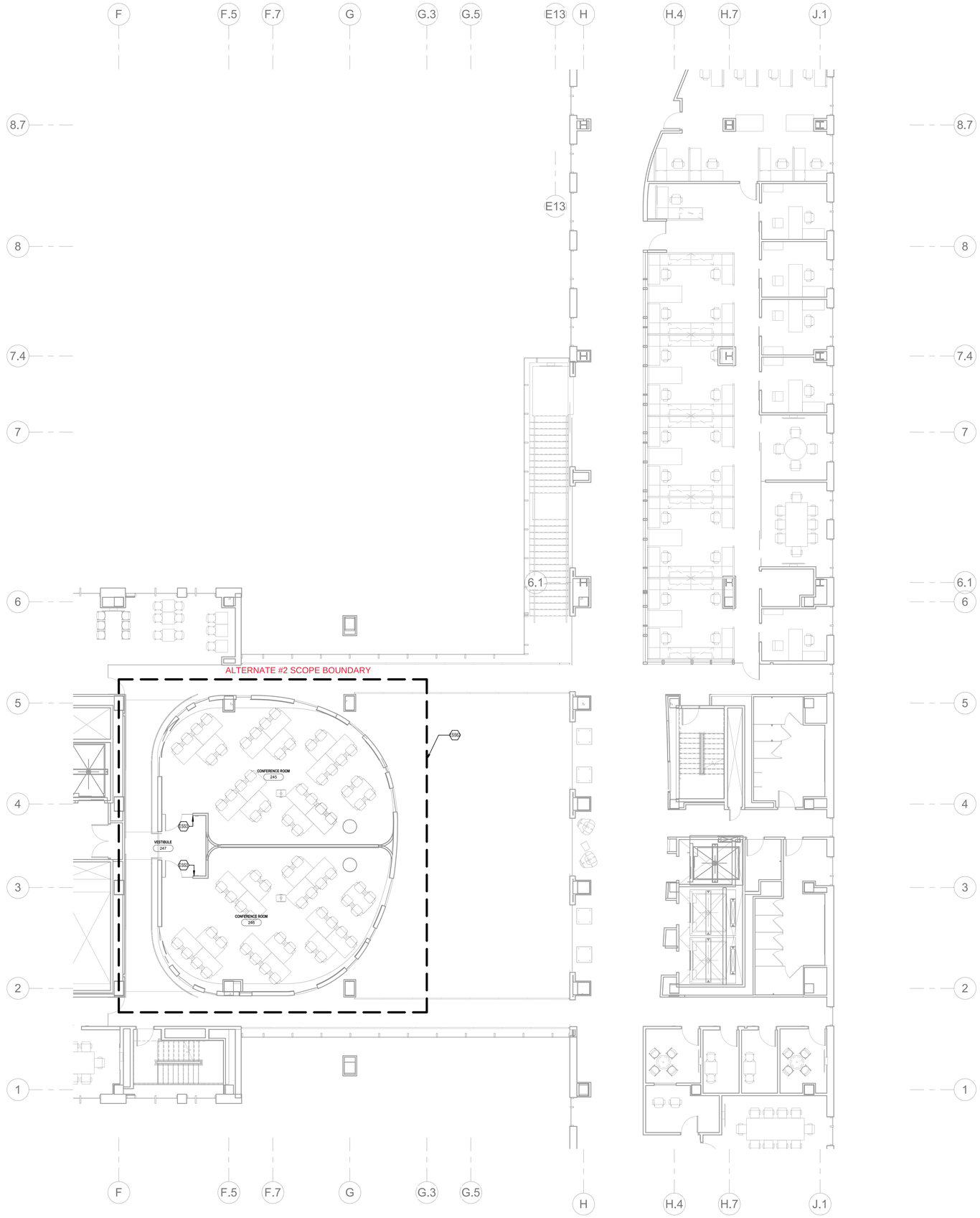
STATE OF KENTUCKY
ALAN R. KELLUM
20166
LICENSED
PROFESSIONAL ENGINEER

DRAWING
LEVEL 01 PHASE 4 FITOUT AREA A - ESS PLAN

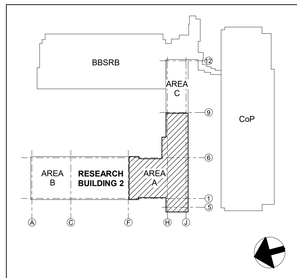
SHEET NO.
ES-161A

1/6/2021 1:09:15 PM

TAGGED NOTES	
ESS3	INSTALL ACCESS CONTROL AT THIS LOCATION. INCLUDE CARD READER, ELECTRIFIED HARDWARE WITH REX AND DOOR POSITON SWITCH.
ESS62	PHASE 4 SCOPE BOUNDARY.



1 ESS - LEVEL 02 PHASE 4 FITOUT AREA "A" - ESS
1/8" = 1'-0"



KEY PLAN
NTS

CHAMPLIN
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720 E Pete Rose Way, Suite 140
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T 513.241.4474 F 513.241.0081
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CMTA

HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
760 Press Avenue, Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 DD ISSUANCE	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By MT

Checked By WW

Client Number

STATE OF KENTUCKY ALAN R. KELLUM 20166 LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

DRAWING

LEVEL 02 PHASE 4 FITOUT AREA 'A' - ESS PLAN

SHEET NO.

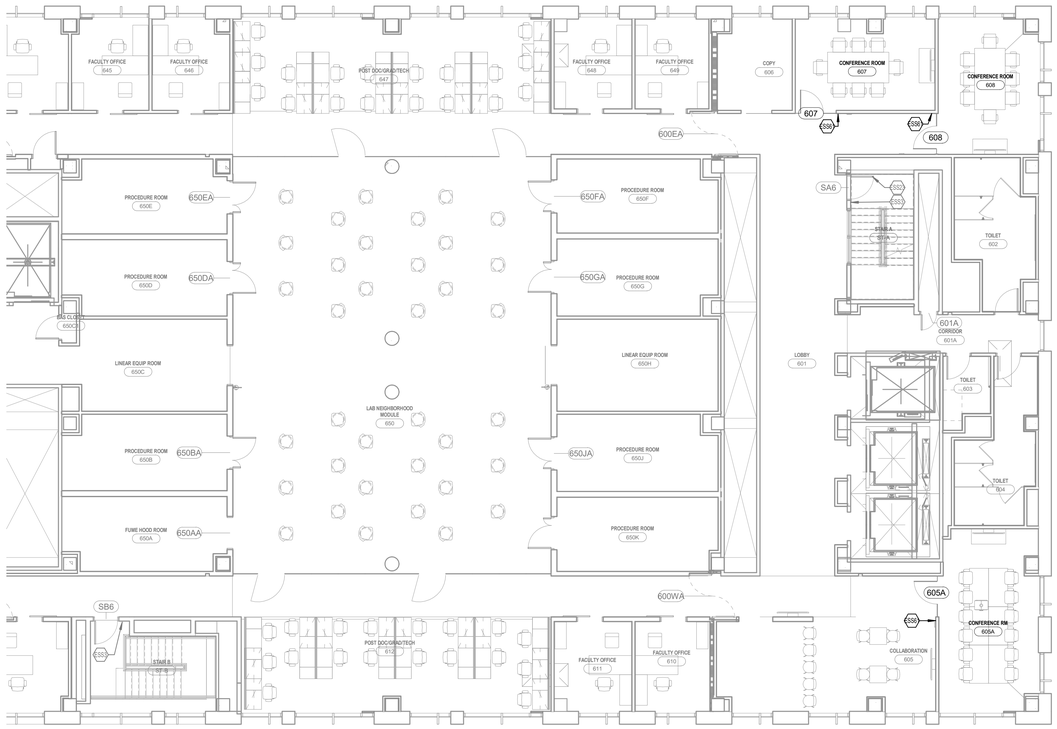
ES-162A

1/6/2021 1:09:23 PM

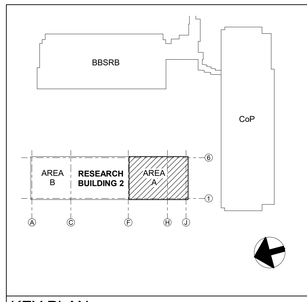
ESS GENERAL NOTES

A. HALFTONED SYMBOLS SHOWN ON SHEET INDICATE WORK WAS COMPLETED IN PREVIOUS PHASE.

TAGGED NOTES	
ESS3	INSTALL ACCESS CONTROL AT THIS LOCATION. INCLUDE CARD READER, ELECTRIFIED HARDWARE WITH REX AND DOOR POSITON SWITCH.
ESS23	INSTALL DOOR HOLD OPEN INTERGRATE WITH FIRE ALARM. COORDINATE WITH FIRE ALARM CONTRACTOR. UPON ACTIVATION OF FIRE ALARM HOLD OPEN WILL RELEASE DOOR.
ESS61	PROVIDE AND INSTALL PATHWAY FOR FUTURE ACCESS CONTROL AT THIS LOCATION. COORDINATE WITH ALL OTHER TRADES PRIOR TO ROUGH-IN.



1 ESS - LEVEL 06 PHASE 4 FITOUT AREA "A" - ESS
1/8" = 1'-0"



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No.	Description	Date
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Drawn By MT

Checked By WW

Client Number

STATE OF KENTUCKY ALAN R. KELLUM 20186 LICENSED PROFESSIONAL ENGINEER

Project Number UKR15

DRAWING

LEVEL 06 PHASE 4 FITOUT AREA 'A' - ESS PLAN

SHEET NO.

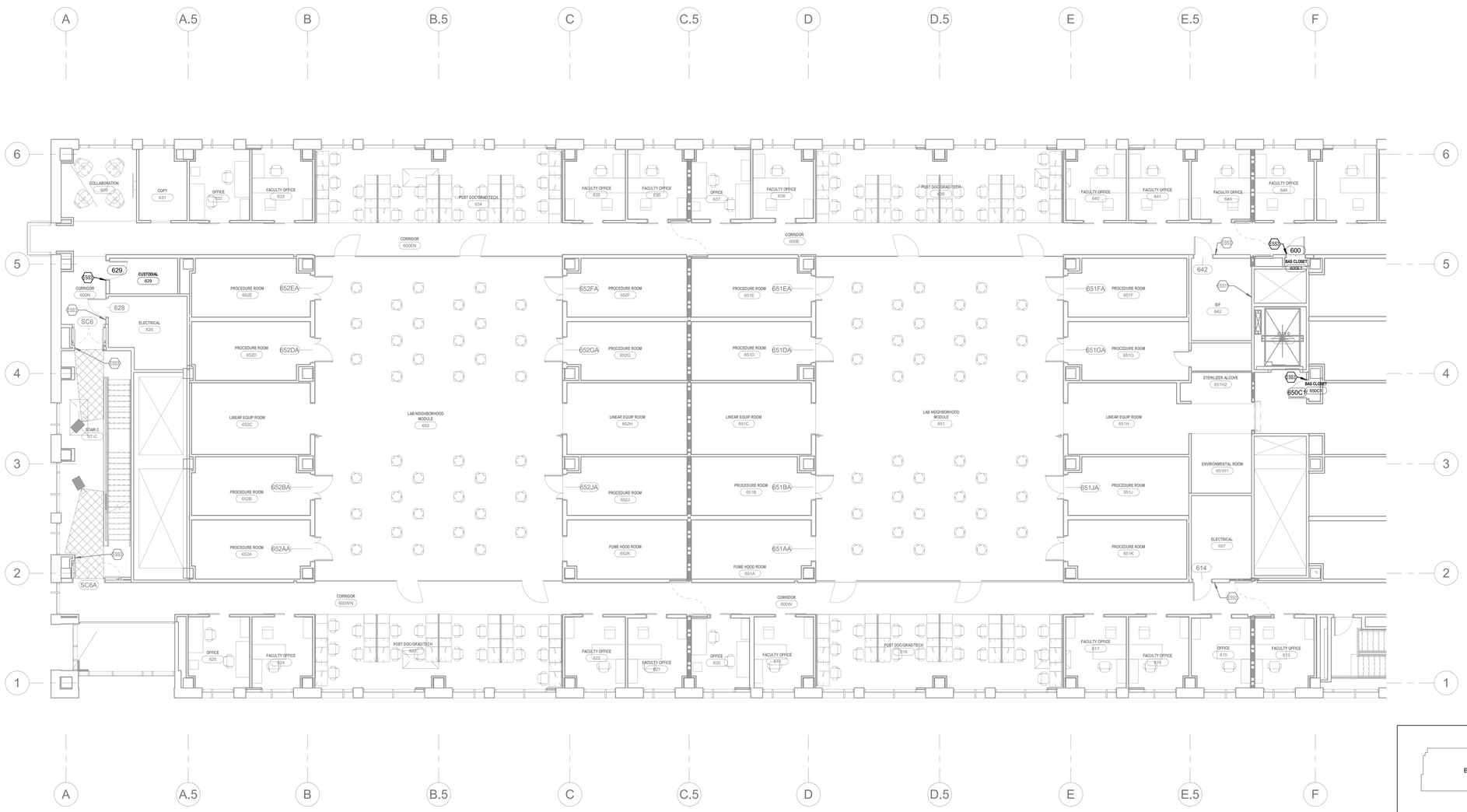
ES-166A

1/6/2021 1:09:30 PM

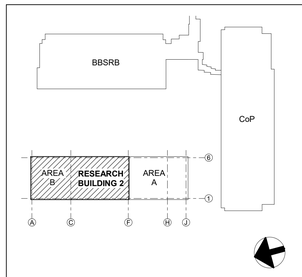
ESS GENERAL NOTES

A. HALFTONED SYMBOLS SHOWN ON SHEET INDICATE WORK WAS COMPLETED IN PREVIOUS PHASE.

TAGGED NOTES	
ESS3	INSTALL ACCESS CONTROL AT THIS LOCATION. INCLUDE CARD READER, ELECTRIFIED HARDWARE WITH REX AND DOOR POSITON SWITCH.
ESS15	INSTALL ACCESS CONTROL PANELS IN THIS CLOSET. SUBMIT WALL EQUIPMENT LAYOUT TO UKCNS FOR APPROVAL BEFORE WORK BEGINS. COORDINATE WITH DIVISION 26 CONTRACTOR FOR LOCATION OF POWER. NO WORK TO BE ALLOWED IN THIS ROOM UNTIL EQUIPMENT LAYOUTS HAVE BEEN APPROVED BY UKCNS.



1 ESS - LEVEL 06 PHASE 4 FITOUT AREA "B" - ESS
1/8" = 1'-0"



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UK Project Number 2552.0

ISSUANCES

No.	Description	Date
1	P4 DD ISSUANCE	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: MT
Checked By: WW
Client Number:
Project Number: UKR15

STATE OF KENTUCKY ALAN R. KELLUM 20186 LICENSED PROFESSIONAL ENGINEER

DRAWING

LEVEL 06 PHASE 4 FITOUT AREA 'B' - ESS PLAN

SHEET NO.
ES-166B

1/6/2021 1:09:48 PM

ELECTRICAL SYMBOLS AND ABBREVIATIONS

NOTES:
1. SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
2. EXISTING TO REMAIN IS SHOWN WITH DASHED LIGHT LINES.
3. NEW WORK IS SHOWN WITH SOLID HEAVY LINES.

EQUIPMENT AND WIRING

- MOTOR
- TRANSFORMER - ONE LINE DIAGRAM
- ISOLATION TRANSFORMER - ONE LINE DIAGRAM
- GROUND CONNECTION
- T — TRANSFORMER
- PANELBOARD - NORMAL SURFACE MOUNTED
- PANELBOARD - NORMAL FLUSH MOUNTED
- PANELBOARD - EMERGENCY/LIFE SAFETY SURFACE MOUNTED
- PANELBOARD - EMERGENCY/LIFE SAFETY FLUSH MOUNTED
- PANELBOARD - CRITICAL SURFACE MOUNTED
- PANELBOARD - CRITICAL FLUSH MOUNTED
- LOW VOLTAGE LIGHTING CONTROL PANEL - SURFACE MOUNTED
- LOW VOLTAGE LIGHTING CONTROL PANEL - FLUSH MOUNTED
- NTS — DISTRIBUTION PANELBOARD
- C/T — CABLE TAP BOX
- BUSWAY PLUG-IN UNIT
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- REVERSE POWER RELAY
- NON FUSED DISCONNECT SWITCH
- F — FUSED DISCONNECT SWITCH
- B — BREAKER DISCONNECT SWITCH
- MAGNETIC MOTOR STARTER
- COMBINATION MOTOR STARTER
- $M — MANUAL STARTER W/OVERLOAD PROTECTION
- J — SURFACE JUNCTION BOX
- J — SURFACE JUNCTION BOX - WALL
- J — FLUSH JUNCTION BOX - CEILING
- J — FLUSH JUNCTION BOX - WALL
- J — FLUSH JUNCTION BOX - FLOOR
- DOWN CONDUCTOR
- STUB
- TEST WELL
- CP — CONTROL PANEL
- TAP BOX
- AUTOMATIC TRANSFER SWITCH
- V / VS — VOLTMETER & SELECTOR SWITCH
- A / AS — AMMETER, SELECTOR SWITCH, & CT'S
- GEN — REMOTE GENERATOR ANNUNCIATOR
- GROUND CONNECTION - PLUG-IN
- T — LINE VOLTAGE THERMOSTAT
- KWH — REVENUE METER, kWh/D
- KWH — METER WITH CURRENT TRANSFORMER
- MOLDED CASE CIRCUIT BREAKER
- LOW VOLTAGE DRAW-OUT AIR CIRCUIT BREAKER

CIRCUIT BREAKER TRIP UNIT FEATURES
- L LONG TIME DELAY
- S SHORT TIME DELAY
- I INSTANTANEOUS
- G GROUND FAULT
- A ARC FLASH REDUCTION

- SWITCH - ONE LINE DIAGRAM
- GROUNDED "Y" SYSTEM
- H — ELECTRIC HEATER
- R — RELAY - TYPE AS NOTED
- TR — TIMING RELAY
- AIR TERMINAL
- PUSH BUTTON
- K — KIRK KEY INTERLOCK
- PM — PHYSIOLOGICAL MONITOR OUTLET
- FUSE
- PANEL DIVISION ARROW
- PANEL DIVISION LINE
- WIRING CONCEALED IN FLOOR
- WIRING IN CEILING/WALLS
- HOMERUN
  - PNL. A1 INDICATES PANEL AND CIRCUIT
  - INDICATES NUMBER OF CONDUCTORS
  - INDICATES NEUTRAL CONDUCTOR
  - INDICATES GROUND CONDUCTOR
- A-1,3,5 - PANEL AND CIRCUITS; PANEL A, CIRCUITS 1,3,5
- GROUNDING ROD
- GROUNDING BUS

RECEPTACLES

- DUPLEX RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- EMERGENCY DUPLEX RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- SINGLE RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- DOUBLE DUPLEX RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- EMERGENCY DOUBLE DUPLEX RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- DUPLEX RECEPTACLE - ABOVE CASEWORK OR 2" ABOVE COUNTERTOP BACKSPLASH MOUNTING LOCATION: WALL MOUNTING HEIGHT: FIELD VERIFY
- EMERGENCY DUPLEX RECEPTACLE - ABOVE CASEWORK OR 2" ABOVE COUNTERTOP BACKSPLASH MOUNTING LOCATION: WALL MOUNTING HEIGHT: FIELD VERIFY
- POWER OUTLET MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- POWER OUTLET, EMERGENCY CIRCUIT MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- FIXED EQUIPMENT CONNECTION - WALL MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- FIXED EQUIPMENT CONNECTION - WALL EMERGENCY CIRCUIT MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- LOCKING RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- SWITCH/ RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
- DUPLEX RECEPTACLE LOCATED IN SURFACE MOUNTED RACEWAY
- EMERGENCY DUPLEX RECEPTACLE LOCATED IN SURFACE MOUNTED RACEWAY
- POWER OUTLET IN SURFACE MOUNTED RACEWAY VOLTAGE AND AMPERAGE AS INDICATED
- EMERGENCY POWER OUTLET IN SURFACE MOUNTED RACEWAY VOLTAGE AND AMPERAGE AS INDICATED
- a — DUPLEX RECEPTACLE, UPPER HALF SWITCHED, LOWER HALF HOT MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- DOUBLE DUPLEX RECEPTACLE - ABOVE CASEWORK OR 2" ABOVE COUNTERTOP BACKSPLASH MOUNTING LOCATION: WALL MOUNTING HEIGHT: FIELD VERIFY
- EMERGENCY DOUBLE DUPLEX RECEPTACLE - ABOVE CASEWORK OR 2" ABOVE COUNTERTOP BACKSPLASH MOUNTING LOCATION: WALL MOUNTING HEIGHT: FIELD VERIFY
- DUPLEX RECEPTACLE - CEILING MOUNTED MOUNTING LOCATION: CEILING
- EMERGENCY DUPLEX RECEPTACLE - CEILING MOUNTED MOUNTING LOCATION: CEILING
- DOUBLE DUPLEX RECEPTACLE - CEILING MOUNTED MOUNTING LOCATION: CEILING
- EMERGENCY DOUBLE DUPLEX RECEPTACLE - CEILING MOUNTED MOUNTING LOCATION: CEILING
- DUPLEX RECEPTACLE - FLOOR MOUNTED MOUNTING LOCATION: FLOOR
- FIXED EQUIPMENT CONNECTION MOUNTING LOCATION: COORDINATE W/ EQUIPMENT
- C — CLOCK RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: 8'-0"
- J (OR) — OUTLETS INSTALLED IN SURFACE MOUNTED RACEWAY
- J A — SURFACE MOUNTED RACEWAY
  - A = 6" OUTLET SPACING
  - B = 9" OUTLET SPACING
  - C = 12" OUTLET SPACING
  - D = 18" OUTLET SPACING
  - E = 30" OUTLET SPACING

NOTE:
1. RECEPTACLES WITH 'A' ARE TO BE WIRED TO LIGHTING SYSTEM FOR AUTOMATIC CONTROL VIA THE LIGHTING CONTROL SYSTEM.
2. RECEPTACLES DENOTED 'GFCI' ARE TO HAVE GROUND FAULT CIRCUIT INTERUPTER.
3. RECEPTACLES DENOTED 'WP' ARE TO HAVE WEATHERPROOF ENCLOSURE.
4. RECEPTACLES DENOTED 'USB' ARE TO INCLUDE USB CHARGING PORTS IN ADDITION TO 5-20R OUTLETS.

FIRE

- F — FIRE ALARM PULL STATION MOUNTING LOCATION: WALL MOUNTING HEIGHT: 4'-0"
- F B — FIRE ALARM BELL MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1
- F B — FIRE ALARM COMBINATION BELL/STROBE MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1
- F H — FIRE ALARM HORN MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1
- F H — FIRE ALARM COMBINATION HORN/STROBE MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1
- F C — FIRE ALARM CHIME MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1
- F C — FIRE ALARM COMBINATION CHIME/STROBE MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1
- F — FIRE ALARM STROBE ONLY MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1
- F S — FIRE ALARM SMOKE DETECTOR MOUNTING LOCATION: CEILING
- S D — FIRE ALARM DUCT SMOKE DETECTOR MOUNTING LOCATION: DUCT
- F AR — ADDRESSABLE RELAY MODULE MOUNTING LOCATION: VARIES
- F PS — FIRE ALARM PRESSURE SWITCH MOUNTING LOCATION: FIELD VERIFY
- F H — FIRE ALARM HEAT DETECTOR MOUNTING LOCATION: CEILING
- F D — FIRE ALARM DOOR HOLDER MOUNTING LOCATION: WALL MOUNTING HEIGHT: FIELD VERIFY
- F DS — FIRE ALARM DOOR HOLDER WITH SMOKE DETECTOR MOUNTING LOCATION: WALL MOUNTING HEIGHT: FIELD VERIFY
- F WF — FIRE ALARM WATERFLOW SWITCH MOUNTING LOCATION: SPRINKLER PIPE MOUNTING HEIGHT: FIELD VERIFY
- F TS — FIRE ALARM TAMPER SWITCH MOUNTING LOCATION: SPRINKLER PIPE MOUNTING HEIGHT: FIELD VERIFY
- F PS — FIRE ALARM PRESSURE SWITCH MOUNTING LOCATION: SPRINKLER PIPE MOUNTING HEIGHT: FIELD VERIFY
- F CP — FIRE ALARM CONTROL PANEL MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- F AP — FIRE ALARM ANNUNCIATOR PANEL MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- F RI — REMOTE INDICATOR TEST SWITCH FOR AHU'S MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- F V — FIRE ALARM COMBINATION VOICE/STROBE MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1
- FIRE FIGHTER TELEPHONE JACK MOUNTING LOCATION: WALL

NOTES:
1. 80" AFF TO BOTTOM OF FACEPLATE OR 6" FROM TOP OF FACEPLATE TO CEILING, WHICH EVER IS LOWER

ELECTRICAL ABBREVIATIONS

A	-	AMPERES
AC	-	ABOVE CEILING/ALTERNATING CURRENT
ADO	-	AUTOMATIC DOOR OPENER
AF	-	AMPERE FRAME
AFF	-	ABOVE FINISHED FLOOR
AIC	-	AMP INTERRUPTING CAPACITY
ALT	-	ALTERNATE
ARCH	-	ARCHITECTURAL
ASC	-	ABOVE SUSPENDED CEILING
AT	-	AMPERE TRIP
ATS	-	AUTOMATIC TRANSFER SWITCH
AUTO	-	AUTOMATIC
BATS	-	BYPASS AUTOMATIC TRANSFER SWITCH
BC	-	BARE COPPER
BFC	-	BELOW FINISH CEILING
BFL	-	BELOW FLOOR LEVEL
BLDG	-	BUILDING
BPIP	-	BOILER PLANT INSTRUMENTATION PANEL
BRKR	-	BREAKER
C	-	CONDUIT
CB	-	CIRCUIT BREAKER
CCTV	-	CLOSED CIRCUIT TELEVISION
CCT	-	CIRCUIT
CCT BKR	-	CIRCUIT BREAKER
CFCI	-	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CLG	-	CEILING
CO	-	CONDUIT ONLY
CONTR	-	CONTRACTOR
CORR	-	CORRIDOR
CR	-	CONTROL RELAY
CT	-	CURRENT TRANSFORMER
DB	-	DIRECT BURIAL
DC	-	DIRECT CURRENT
DED	-	DEDICATED
DET	-	DETAIL
DIA	-	DIAMETER
DISC	-	DISCONNECT
DN	-	DOWN
DP	-	DISTRIBUTION PANEL
DS	-	DISCONNECT SWITCH
EC	-	EMPTY CONDUIT/ELECTRICAL CONTRACTOR
ECL	-	EMERGENCY CRITICAL LIGHTING
ECP	-	EMERGENCY CRITICAL POWER
EDB	-	ELECTRIC DUCT BANK
EG	-	EQUIPMENT GROUND
EGS	-	ENGINE GENERATOR SET
EJ	-	EXPANSION JOINT
ELEC	-	ELECTRIC/ELECTRICAL
ELL	-	EMERGENCY LIFE SAFETY LIGHTING
ELP	-	EMERGENCY LIFE SAFETY POWER
EMER	-	EMERGENCY
EMI	-	ELECTROMAGNETIC INTERFERENCE
EMT	-	ELECTRICAL METALLIC TUBING
EQUIP	-	EQUIPMENT
ESM	-	ELECTRIC STRIP MOLD
ETR	-	EXISTING TO REMAIN
EWC	-	ELECTRIC WATER COOLER
F/FC	-	FLUSH WITH FINISHED CEILING
F/FF	-	FLUSH WITH FINISHED FLOOR
F/FW	-	FLUSH WITH FINISHED WALL
FA	-	FIRE ALARM
FACP	-	FIRE ALARM CONTROL PANEL
FCU	-	FAN COIL UNIT
FDR	-	FEEDER
FDS	-	FUSED DISCONNECT SWITCH
FI	-	FILM ILLUMINATOR
FIXT	-	FIXTURE
FL	-	AT FLOOR LINE
FLA	-	FULL LOAD AMPERES
FLEX	-	FLEXIBLE
FLR	-	FLOOR
FLUOR	-	FLUORESCENT
FPM	-	FLAT PANEL MONITOR
FS	-	FLOW SWITCH
FSS	-	FUSED SAFETY SWITCH
FSCP	-	FLAME SAFEGUARD CONTROL PANEL
FVNR	-	FULL VOLTAGE NON-REVERSING
GC	-	GENERAL CONTRACTOR
GFCI	-	GROUND FAULT CIRCUIT INTERRUPTER
GFP	-	GROUND FAULT PROTECTION
GND	-	GROUND
GEN	-	GENERATOR
GFI	-	GROUND FAULT INTERRUPTER
GTB	-	GROUND TERMINAL BOX
HH	-	HANDHOLE
HOA	-	HAND OFF AUTOMATIC
HP	-	HORSE POWER
HT	-	HEIGHT/HEAT TRACE
HV	-	HIGH VOLTAGE
IMC	-	INTERMEDIATE METAL CONDUIT
INCAND	-	INCANDESCENT
JB	-	JUNCTION BOX
KNAF	-	SYNTHETIC OIL, FAN COOLED
KO	-	KNOCK-OUT
KV	-	KILOVOLT
KVA	-	KILOVOLT-AMPERES
KW	-	KILOWATTS
KWH	-	KILOWATT HOURS
LAN	-	LOCAL AREA NETWORK
LGT	-	LIGHT
LTCP	-	LOCAL TEMPERATURE CONTROL PANEL
LTG	-	LIGHTING
LTS	-	LIGHTS
LV	-	LOW VOLTAGE
MATV	-	MASTER ANTENNA TELEVISION
MC	-	MECHANICAL CONTRACTOR
MCB	-	MAIN CIRCUIT BREAKER
MCC	-	MOTOR CONTROL CENTER
MCP	-	MOTOR CIRCUIT PROTECTOR
MDP	-	MAIN DISTRIBUTION PANEL
MER	-	MECHANICAL EQUIPMENT ROOM
MLO	-	MAIN LUGS ONLY
MH	-	MANHOLE
MPTB	-	MUSIC & PAGE TERMINAL BOX
MTD	-	MOUNTED
MTG	-	MOUNTING
MTG HGT	-	MOUNTING HEIGHT
MTR	-	MOTOR/METER
NA	-	NOT APPLICABLE
NC	-	NEW CONNECTION/NORMALLY CLOSED
NEC	-	NATIONAL ELECTRICAL CODE
NFD	-	NON-FUSED DISCONNECT
NFSS	-	NON-FUSED SAFETY SWITCH
NIC	-	NOT IN CONTRACT
NO	-	NORMALLY OPEN
NTS	-	NOT TO SCALE
OC	-	ON CENTER
OFCI	-	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	-	OWNER FURNISHED OWNER INSTALLED
P	-	POLE
PA	-	PUBLIC ADDRESS
PB	-	PULL BOX/PUSHBUTTON
PBPU	-	PREFABRICATED BEDSIDE PATIENT POWER UNIT
PC	-	PLUMBING CONTRACTOR/PHOTOCELL
PDU	-	POWER DISTRIBUTION UNIT
PF	-	POWER FACTOR
PH	-	PHASE
PLBG	-	PLUMBING
PNL	-	PANEL
POD	-	POWER OPERATED DAMPER
PT	-	POTENTIAL TRANSFORMER
PTRV	-	POWER TYPE ROOF VENTILATOR
PWR	-	POWER
REC	-	RECESSED
RECEP	-	RECEPTACLE
REL	-	RELOCATE
REQD	-	REQUIRED
RGIP	-	REMOTE GROUND INDICATOR PANEL
RMC	-	RIGID METAL CONDUIT
RVAT	-	REDUCED VOLTAGE AUTO TRANSFORMER
SHT	-	SHEET
SIG	-	SIGNAL
SIM	-	SIMILAR
SPEC	-	SPECIFICATION
SPD	-	SURGE PROTECTION DEVICE
SS	-	SAFETY SWITCH
STA	-	STATION
STR	-	STARTER
SW	-	SWITCH
SWBD	-	SWITCHBOARD
SWGR	-	SWITCHGEAR
TEL	-	TELEPHONE
TFA	-	TO FLOOR ABOVE
TFB	-	TO FLOOR BELOW
TS	-	TAMPER SWITCH/TIME SWITCH
TV	-	TELEVISION
TVTC	-	TELEVISION TERMINAL CABINET
TYP	-	TYPICAL
UC	-	UNDER COUNTER
UG	-	UNDERGROUND
UH	-	UNIT HEATER
UNO	-	UNLESS NOTED OTHERWISE
USB	-	UNIVERSAL SERIAL BUS
UPS	-	UNINTERRUPTED POWER SUPPLY
V	-	VOLTAGE
VFD	-	VARIABLE FREQUENCY DRIVE
VP	-	VAPOR PROOF
W	-	WIRE
W/	-	WITH
WP	-	WEATHERPROOF
WS	-	WALL SURFACE
WT	-	WATER TIGHT
X	-	EXISTING
XFMR	-	TRANSFORMER
XP	-	EXPLOSION PROOF

SHEET SYMBOLS

- # — NOTE DESIGNATION
- 1 / X0.0 — DETAIL REFERENCE TOP DESIGNATES DETAIL NUMBER BOTTOM DESIGNATES ON WHICH SHEET DETAIL APPEARS
- REFER / X0.0 — PLAN CONTINUATION DESIGNATION
- 1 / X0.0 — SECTION REFERENCE TOP DESIGNATES SECTION NUMBER BOTTOM DESIGNATES ON WHICH SHEET SECTION APPEARS
- LINE CONTINUE BREAK
- ELEVATION DESIGNATION
- # — REVISION NUMBER DESIGNATION
- NEW WORK CONNECTION TO EXISTING WORK DESIGNATION
- EQ / # — EQUIPMENT DESIGNATION TOP DESIGNATES EQUIPMENT ABBREVIATION BOTTOM DESIGNATES EQUIPMENT NUMBER

UNIT CONVERSIONS

CONDUIT CONVERSION

1/2"	= 16mm	2-1/2"	= 63mm
3/4"	= 21mm	3"	= 78mm
1"	= 27mm	3-1/2"	= 91mm
1-1/4"	= 35mm	4"	= 103mm
1-1/2"	= 41mm	5"	= 129mm
2"	= 53mm	6"	= 155mm

1 / EF-060 **ELECTRICAL FO PHASE 4 SYMBOLS AND ABBREVIATIONS**
12" = 1'-0"

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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: 15576

STATE OF KENTUCKY ANDREW SCHANTZ 30563 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
ELECTRICAL PHASE 4 FO SYMBOLS AND ABBREVIATIONS

SHEET NO.
EF-060

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EQUIPMENT NAMING AND IDENTIFICATION

NOTES:

1. THIS SECTION REPRESENTS HOW EQUIPMENT IS TO BE LABELED ONCE IT IS PHYSICALLY INSTALLED AS PART OF THE CONSTRUCTION PROCESS.
2. ELECTRICAL EQUIPMENT IDENTIFICATION TAGS AND LABELING USED ON THESE DRAWINGS DO NOT CORRESPOND DIRECTLY TO THE LABELEING OF SUCH EQUIPMENT ONCE IT IS INSTALLED. EQUIPMENT HAS BEEN LABELED ON THESE DRAWINGS PER THE AEI ELECTRICAL IDENTIFICATION REQUIREMENTS FOR THE EASE OF REFERENCE. ONCE ELECTRICAL EQUIPMENT HAS BEEN INSTALLED IT'S LABELING SHALL ADHERE SPECIFICALLY TO THE UNIVERSITY OF KENTUCKY ELECTRICAL IDENTIFICATION REQUIREMENTS AS INDICATED BELOW.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PHYSICALLY LABELING ELECTRICAL EQUIPMENT AS IDENTIFIED IN THE UNIVERSITY OF KENTUCKY ELECTRICAL IDENTIFICATION REQUIREMENTS PER THE DIVISION 26 SPECIFICATIONS.
4. ELECTRICAL CONTRACTOR SHALL VERIFY ALL FINAL LABELING OF ALL ELECTRICAL EQUIPMENT WITH THE UNIVERSITY OF KENTUCKTY PRIOR TO INSTALLATION.

260553S01 - ELECTRICAL IDENTIFICATION
GUIDELINES FOR NAMING POWER DISTRIBUTION SYSTEM COMPONENTS

THE PURPOSE OF THIS STANDARD IS TO ESTABLISH CONSISTENCY IN THE NAMING OF COMPONENTS IN THE ELECTRICAL DISTRIBUTION SYSTEM AND MECHANICAL SYSTEMS. IT IS INTENDED TO PROVIDE EASY IDENTIFICATION OF A COMPONENT'S LOCATION, POWER SUPPLY, AND LOAD INFORMATION FROM THE EQUIPMENT LABEL SOLELY AND TO MAKE IT EASY TO TRACE EQUIPMENT POWER SOURCES AND LOADS FOR MAINTENANCE PURPOSES. THE FOLLOWING GUIDELINES SHOULD APPLY IN ALMOST ALL CASES FOR ALL ELECTRIC POWERED EQUIPMENT AND ELECTRICAL GEAR. FOR THOSE ITEMS WHICH CANNOT BE PRODUCED FROM THESE GUIDELINES, THEN FURTHER GUIDANCE SHOULD BE OBTAINED FROM THE APPROPRIATE ELECTRICAL SYSTEMS SUPERVISOR.
ANY LABEL THAT BELONGS TO EQUIPMENT WITHIN THE EMERGENCY POWER SUBSYSTEM SHALL BE RED WITH WHITE LETTERING. ALL OTHER LABELS SHALL BE BLACK WITH WHITE LETTERING. ADDITIONALLY, ALL LABELS WILL HAVE AT LEAST TWO LINES--ONE DESIGNATING THE COMPONENT NAME AND THE OTHER DESIGNATING THE COMPONENT'S POWER SOURCE. IN THE CASE OF A COMPONENT WITH MULTIPLE FEEDS, THERE SHALL BE SEPARATE LINE FOR EACH POWER SOURCE COMPONENT NAME.

FORMAT:
THE COMPONENTS WILL BE LABELED USING THE FOLLOWING FORMAT:

ID: ROOM NO./EQUIPMENT NAME-SPECIFIC DEVICE NUMBER
FED FROM: ROOM NO./EQUIPMENT NAME-SPECIFIC DEVICE NUMBER

EACH FIELD HAS A SPECIFIED NUMBER OF CHARACTERS AND IS DEFINED AS FOLLOWS:
ROOM (UP TO 5 CAPITALIZED CHARACTERS) => THE ROOM IN WHICH THE COMPONENT IS LOCATED; IF COMPONENT IS IN A CORRIDOR USE "CORR".
EQUIPMENT NAME (UP TO 8 CAPITALIZED CHARACTERS) => THE NAME OF THE PARTICULAR TYPE OF EQUIPMENT FROM THE PPDMC EQUIPMENT NAMING CONVENTION LIST SHOWN BELOW.
SPECIFIC NUMBER (UP TO 3 CHARACTERS) => THE NUMBER OF THAT PARTICULAR DEVICE FROM THE DRAWING OR THE NEXT SEQUENTIAL NUMBER IN THAT EQUIPMENT TYPE.

EQUIPMENT DESCRIPTION / EQUIPMENT NAME

AIR CONDITIONING UNITS / ACU-X
AIR HANDLER UNITS / AHU-X
BACKFLOW PREVENTOR / BFP-X
CHILLED WATER PUMP / CHW/PMP-X
CHILLERS / CHL-X
COMPACTOR / CPT-X
CONDENSATE PUMP / CND/PMP-X
CONTROL AIR COMPRESSOR / CA/CMP-X
CONVEYOR / CNV-X
CRITICAL BRANCH AUTOMATIC TRANSFER SWITCH / C/ATS-X
CRITICAL BRANCH DISTRIBUTION PANEL / C/DP-X
CRITICAL BRANCH MOTOR CONTROL CTR / C/MCC-X
CRITICAL BRANCH PANEL / C/P-X
CRITICAL BRANCH SWITCHBOARD / C/SWBD-X
CRITICAL BRANCH SWITCHGEAR / C/SWGR-X
CRITICAL BRANCH TRANSFORMER / C/T-X
DOMESTIC COLD WATER PUMP / DCW/PMP-X
DOMESTIC HOT WATER PUMP / DHW/PMP-X
DUMB WAITERS / DUM-X
ELEVATORS / ELEV-X
EMERGENCY AUTOMATIC TRANSFER SWITCH / E/ATS-X
EMERGENCY DISTRIBUTION PANEL / E/DP-X
EMERGENCY GENERATOR / EG-X
EMERGENCY MOTOR CONTROL CTR / E/MCC-X
EMERGENCY PANEL / E/P-X
EMERGENCY SWITCHBOARD / E/SWBD-X
EMERGENCY SWITCHGEAR / E/SWGR-X
EMERGENCY TRANSFORMER / E/T-X
EXHAUST FANS / EXF-X
FAN COIL UNIT / FCU-X
FIRE PUMP / SPR/PMP-X
HEAT EXCHANGER / HTX-X
HOT WATER HEATER / HWH-X
LABORATORY AIR COMPRESSOR / LA/CMP-X
LABORATORY VACUUM PUMP / LV/PMP-X
LIFE SAFETY AUTOMATIC TRANSFER SWITCH / LS/ATS-X
LIFE SAFETY DISTRIBUTION PANEL / LS/DP-X
LIFE SAFETY PANEL / LS/P-X
LIFE SAFETY SWITCHBOARD / LS/SWBD-X
LIFE SAFETY SWITCHGEAR / LS/SWGR-X
LIFE SAFETY TRANSFORMER / LS/T-X
MEDICAL AIR COMPRESSOR / AIR/CMP-X
MEDICAL VACUUM PUMP / VAC/PMP-X
NORMAL POWER AUTOMATIC TRANSFER SWITCH / N/ATS-X
NORMAL POWER DISTRIBUTION PANEL / N/DP-X
NORMAL POWER MOTOR CONTROL CTR / N/MCC-X
NORMAL POWER PANEL / N/P-X
NORMAL POWER SWITCHBOARD / N/SWBD-X
NORMAL POWER SWITCHGEAR / N/SWGR-X
NORMAL POWER TRANSFORMER / N/T-X
REHEAT PUMP / RHT/PMP-X
TUBE SYSTEM TRANSFER STATION / TUBE/STN-X
VARIABLE SPEED DRIVE / VSD-X

EXAMPLES:
A TYPICAL NORMAL POWER DISTRIBUTION PANEL ON THE SECOND FLOOR OF THE MAIN HOSPITAL IN ROOM H-201 MIGHT BE LABELED H201/N/DP-1.
A MOTOR CONTROL CENTER IN THE PENTHOUSE OF THE COMBS BUILDING MIGHT BE LABELED 401/N/MCC-1.
A CHILLED WATER PUMP IN H-46 MIGHT BE LABELED AS H46/CHW/PMP-1 FOR THE LOAD DESIGNATION AND H46/N/P-3 FOR THE SOURCE DESIGNATION.

NOTE: THE COMPONENT IDENTIFICATION NUMBER, OR SEQUENCE NUMBER, IS JUST A SIMPLE NUMBERING OF SIMILAR EQUIPMENT ON THE SAME FLOOR NUMBERED FROM LEFT TO RIGHT AS SEEN ON THE ELECTRICAL DISTRIBUTION RISER DIAGRAM PROVIDED BY THE ARCHITECTS. THEREFORE, IT IS IMPORTANT TO NOTE THE BUILDING AND FLOOR WHEN REFERRING TO A COMPONENT TO DETERMINE ITS LOCATION. IF THE COMPONENTS TO BE LABELED ARE EXISTING EQUIPMENT OR NEW EQUIPMENT IN AN EXISTING BUILDING, THE COMPONENT SEQUENCE NUMBER SHOULD BE OBTAINED FROM THE APPROPRIATE ELECTRICAL SYSTEMS SUPERVISOR. IF THE EQUIPMENT IS BEING INSTALLED AS PART OF A NEW BUILDING CONSTRUCTION PROJECT, THEN THE CONTRACTOR MAY DETERMINE THE SEQUENCE NUMBERS.

1 / EF-061 **ELECTRICAL PHASE 4 FO EQUIPMENT NAMING GUIDELINES**
12" = 1'-0"

AEI ELECTRICAL IDENTIFICATION REQUIREMENTS

NOTES: THIS DIAGRAM REPRESENTS HOW EQUIPMENT IS LABELED ON THE DIVISION 26 ELECTRICAL DRAWINGS AND SPECIFICATIONS.

* KEYPLAN RISER DESIGNATION ONLY APPLIES TO EQUIPMENT LOCATED IN OR BEING SERVED DIRECTLY FROM AN ELECTRICAL ROOM/CLOSET LOCATED IN ONE OF THE BUILDING AREAS AS IDENTIFIED BY THE KEY PLANS FOUND ON EACH SHEET.

01NLPA2

LEVEL
B - BASEMENT FLOOR
1 - FIRST FLOOR
2 - SECOND FLOOR
3 - THIRD FLOOR
4 - FOURTH FLOOR
5 - FIFTH FLOOR
6 - SIXTH FLOOR
P - PENTHOUSE

APPLICATION
N - NORMAL
LS - LIFE SAFETY (EM)
C - CRITICAL (EM)
E - EQUIPMENT (EM)
U - UNINTERRUPTIBLE (UPS-EM)
L - LAB (NON-CRITICAL)
K - KITCHEN
V - VIVARIUM

VOLTAGE
H - 480V, 480Y/277V
L - 240V, 208Y/120V
15 - 12,470 V
5 - 4160 V

PANEL #
1
2
3
4
... ETC

KEY PLAN RISER
A
B
C
D
... ETC

EQUIPMENT
U - UNIT SUBSTATION
S - SWITCHBOARD
D - DISTRIBUTION PANEL
P - BRANCH CIRCUIT PANELBOARD
A - AUTOMATIC TRANSFER SWITCH
T - TRANSFORMER
G - SWITCHGEAR
B - BUSWAY
R - RISER

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UK Project Number 2499.0

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Drawn By Author
Checked By Checker
Client Number 514
Project Number 15576

STATE OF KENTUCKY ANDREW SCHNEIDER 22353 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
ELECTRICAL PHASE 4 FO EQUIPMENT NAMING GUIDELINES

SHEET NO.
EF-061

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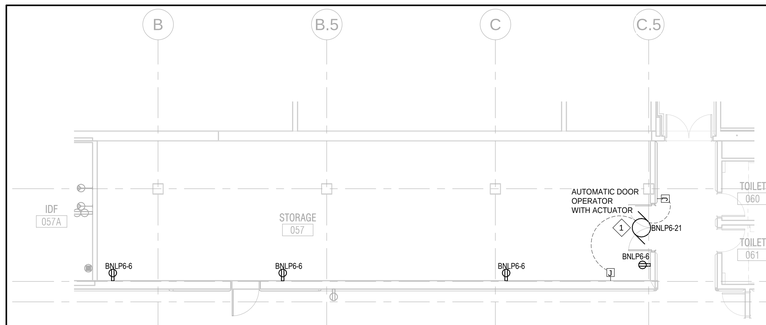
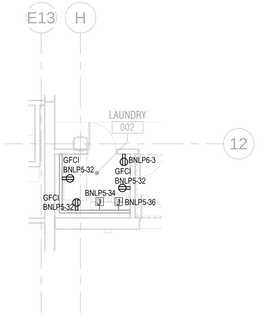


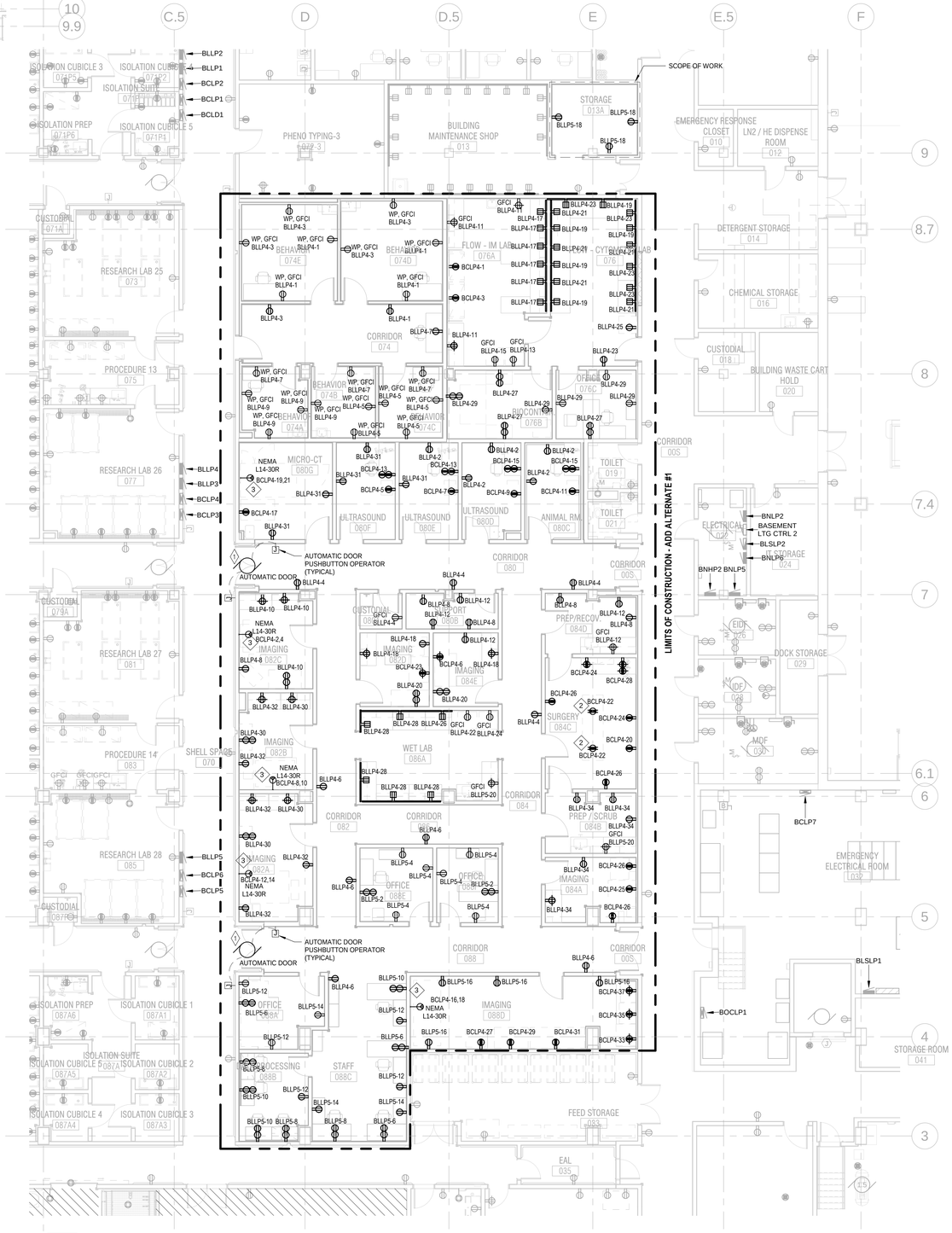
2 EF-260 **ELECTRICALPOWER FLOOR PLAN LOWER LEVEL - STORAGE 057**

1/8" = 1'-0"



3 EF-260 **ELECTRICAL FLOOR PLAN LOWER LEVEL-LAUNDRY 002**

1/8" = 1'-0"



1 EF-260 **ELECTRICAL PHASE 4 FO POWER FLOOR PLAN LOWER LEVEL**

1/8" = 1'-0"

GENERAL NOTES

1. REFER TO 'TF' SERIES OF DRAWINGS FOR DATA LOCATIONS AND CONDUIT REQUIREMENTS.
2. REFER TO 'AVF' SERIES OF DRAWINGS FOR AV DEVICE LOCATIONS AND CONDUIT REQUIREMENTS.
3. REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHTS.
4. COORDINATE EXACT FLOORBOX LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
5. RECEPTACLES DENOTED WITH 'A' ARE TO BE WIRED TO LIGHTING CONTROL SYSTEM FOR AUTOMATIC CONTROL VIA THE LIGHTING CONTROL SYSTEM.
6. PROVIDE HOSPITAL GRADE RECEPTACLES WITHIN WET LABS.
7. PROVIDE 3.5" CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
8. MAINTAIN CEILING ACCESS TO EXISTING ELECTRICAL FLOOR BOXES AND OTHER MEP EQUIPMENT INSTALLED TIGHT TO DECK, WHICH WERE INSTALLED IN PREVIOUS CONSTRUCTION PHASES.

KEYED NOTES

1. CARD READERS AND OPERATORS TO BE COORDINATED WITH SECURITY DRAWINGS AND ARCHITECTURAL HARDWARE SCHEDULES.
2. PROVIDE CEILING MOUNTED POWER CORD REEL INSTALLED ADJACENT TO CEILING MOUNTED RECEPTACLE. PROVIDE POWER CORD REEL PART #HBL25123C20 AS MANUFACTURED BY HUBBELL (WHITE, 25' LENGTH, 120V, 20A).
3. CONFIRM POWER REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT. PROVIDE NECESSARY RECEPTACLE / CIRCUITRY TO ACCOMMODATE OWNER FURNISHED EQUIPMENT. NEMA RECEPTACLE TYPE AND CIRCUITS SHOWN AS A PLACEHOLDER.

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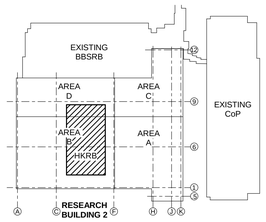

KEY PLAN

Drawn By	
Author	
Checked By	
Checker	
Client Number	514
Project Number	15576

STATE OF KENTUCKY ANDREW SCHILL LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING

ELECTRICAL PHASE 4 FO POWER FLOOR PLAN - LOWER LEVEL

SHEET NO.

EF-260

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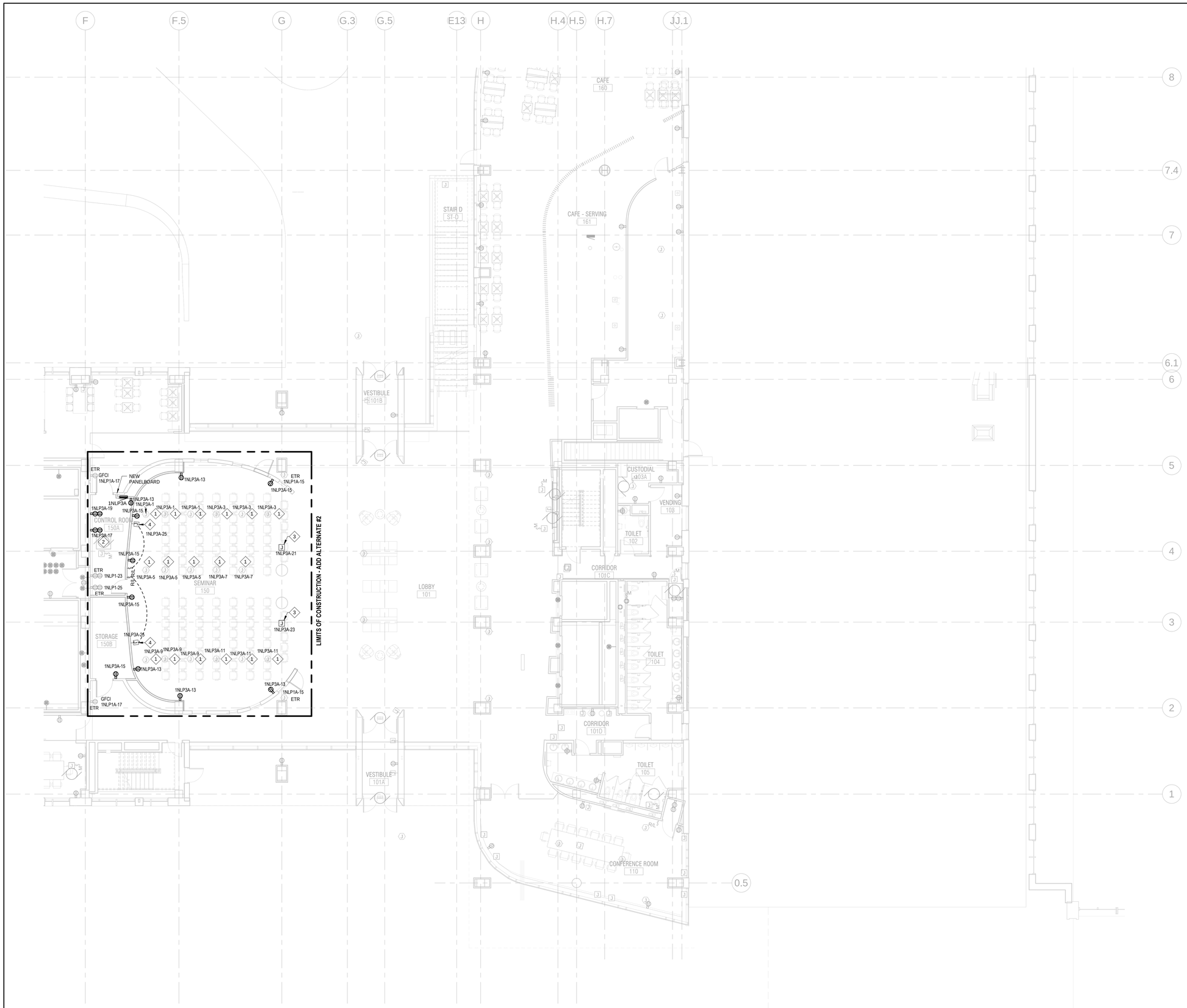


1 EF-261A **ELECTRICAL PHASE 4 FO POWER FLOOR PLAN - LEVEL 01 AREA A**
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO 'TF' SERIES OF DRAWINGS FOR DATA LOCATIONS AND CONDUIT REQUIREMENTS.
2. REFER TO 'AVF' SERIES OF DRAWINGS FOR AV DEVICE LOCATIONS AND CONDUIT REQUIREMENTS.
3. REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHTS.
4. COORDINATE EXACT FLOORBOX LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
5. RECEPTACLES DENOTED WITH 'A' ARE TO BE WIRED TO LIGHTING CONTROL SYSTEM FOR AUTOMATIC CONTROL VIA THE LIGHTING CONTROL SYSTEM.
6. PROVIDE HOSPITAL GRADE RECEPTACLES WITHIN WET LABS.
7. PROVIDE 3.5" CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
8. MAINTAIN CEILING ACCESS TO EXISTING ELECTRICAL FLOOR BOXES AND OTHER MEP EQUIPMENT INSTALLED TIGHT TO DECK, WHICH WERE INSTALLED IN PREVIOUS CONSTRUCTION PHASES.

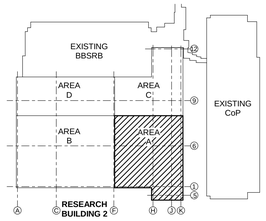
KEYED NOTES

1 UTILIZE EXISTING POKE-THRU FOR POWER AND DATA. PROVIDE DUPLEX RECEPTACLES INSIDE FLOOR BOX. EXTEND CONDUIT FROM EXISTING STUB-UP LOCATION BACK TO PANELBOARD. PROVIDE WIRING BACK TO PANEL/CIRCUIT IDENTIFIED. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.

2 UNIT HEATER TO BE DEMOLISHED.

3 CEILING MOUNTED PROJECTOR. PROVIDE CEILING MOUNTED AV BOX EQUIPPED WITH (1) DUPLEX RECEPTACLE WIRED TO CIRCUIT INDICATED ON DRAWINGS. REFER TO AV DRAWINGS FOR MOUNTING PLATE REQUIREMENTS AND SPECIFICATIONS. REFER TO TECHNOLOGY AND AV DRAWINGS FOR ADDITIONAL REQUIREMENTS.

4 MOTORIZED PROJECTION SCREEN. PROVIDE LOW VOLTAGE WIRING TO RAISE/LOWER SWITCH.



KEY PLAN

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STATE OF KENTUCKY ANDREW SCHAFER 25363 LICENSED PROFESSIONAL ENGINEER
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DRAWING
ELECTRICAL PHASE 4 FO POWER FLOOR PLAN - LEVEL 01 AREA A

SHEET NO.
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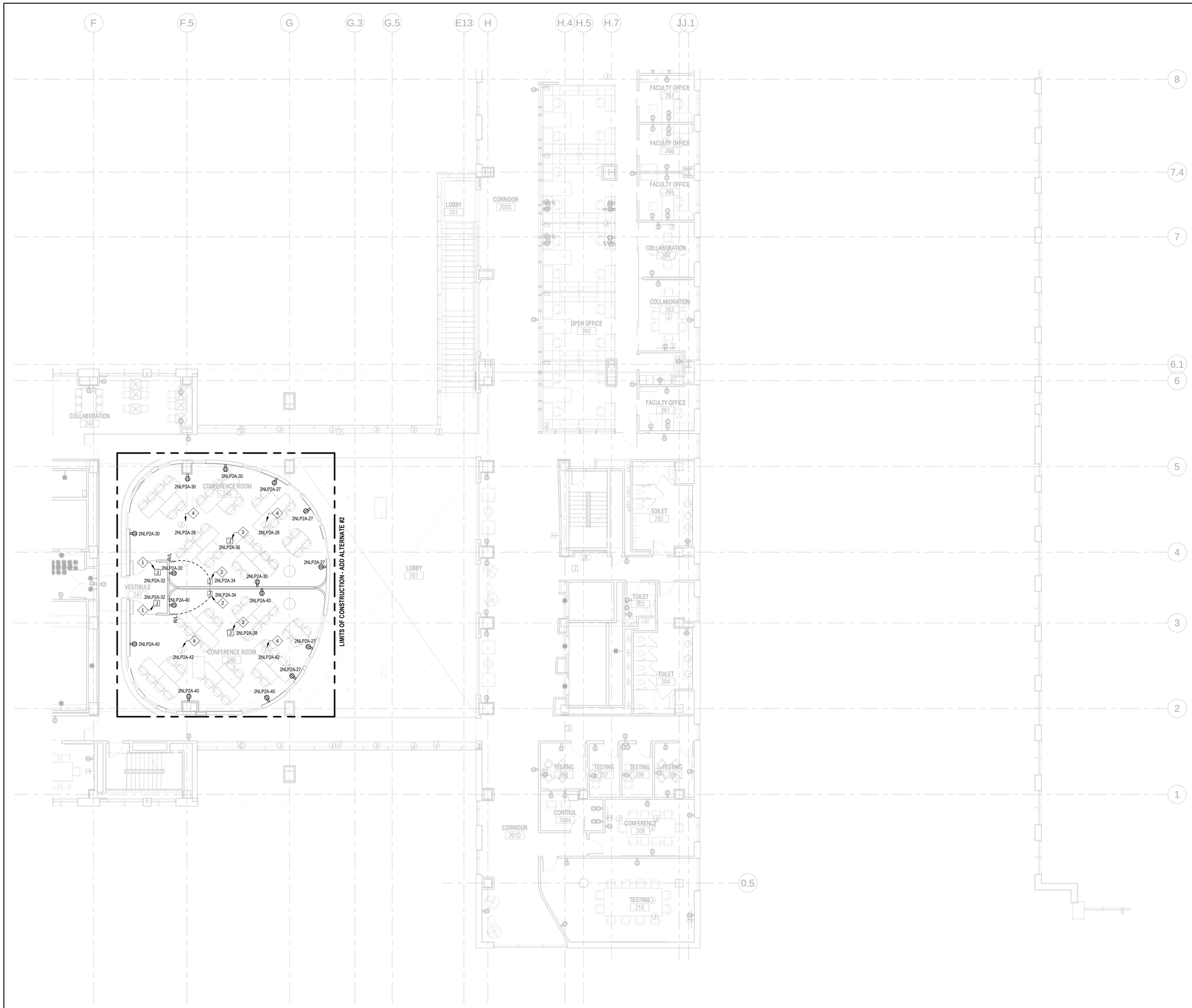


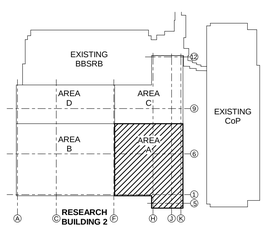
1 ELECTRICAL PHASE 4 FO POWER FLOOR PLAN - LEVEL 02 AREA A
EF-262A 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO 'TF' SERIES OF DRAWINGS FOR DATA LOCATIONS AND CONDUIT REQUIREMENTS.
2. REFER TO 'AVF' SERIES OF DRAWINGS FOR AV DEVICE LOCATIONS AND CONDUIT REQUIREMENTS.
3. REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHTS.
4. COORDINATE EXACT FLOORBOX LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
5. RECEPTACLES DENOTED WITH 'A' ARE TO BE WIRED TO LIGHTING CONTROL SYSTEM FOR AUTOMATIC CONTROL VIA THE LIGHTING CONTROL SYSTEM.
6. PROVIDE HOSPITAL GRADE RECEPTACLES WITHIN WET LABS.
7. PROVIDE 3.5" CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
8. MAINTAIN CEILING ACCESS TO EXISTING ELECTRICAL FLOOR BOXES AND OTHER MEP EQUIPMENT INSTALLED TIGHT TO DECK, WHICH WERE INSTALLED IN PREVIOUS CONSTRUCTION PHASES.

KEYED NOTES

1. PROVIDE POWER FROM ABOVE TO MAGLOCK. COORDINATE WITH SECURITY DRAWING AND ARCHITECTURAL HARDWARE SCHEDULES.
2. MOTORIZED PROJECTION SCREEN. PROVIDE LOW VOLTAGE WIRING TO RAISE/LOWER SWITCH.
3. CEILING MOUNTED PROJECTOR. PROVIDE CEILING MOUNTED AV BOX EQUIPPED WITH (1) DUPLEX RECEPTACLE WIRED TO CIRCUIT INDICATED ON DRAWINGS. REFER TO AV DRAWINGS FOR MOUNTING PLATE REQUIREMENTS AND SPECIFICATIONS. REFER TO TECHNOLOGY AND AV DRAWINGS FOR ADDITIONAL REQUIREMENTS.
4. UTILIZE EXISTING POKE-THRU FOR POWER AND DATA. PROVIDE DUPLEX RECEPTACLES INSIDE FLOOR BOX. EXTEND CONDUIT FROM EXISTING STUB-UP LOCATION BACK TO PANELBOARD. PROVIDE WIRING BACK TO PANEL/CIRCUIT IDENTIFIED. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.



KEY PLAN

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STATE OF KENTUCKY ANDREW SCOTT COX 23 LICENSED PROFESSIONAL ENGINEER
1/7/2021

DRAWING
ELECTRICAL PHASE 4 FO POWER FLOOR PLAN - LEVEL 02 AREA A

SHEET NO.
EF-262A

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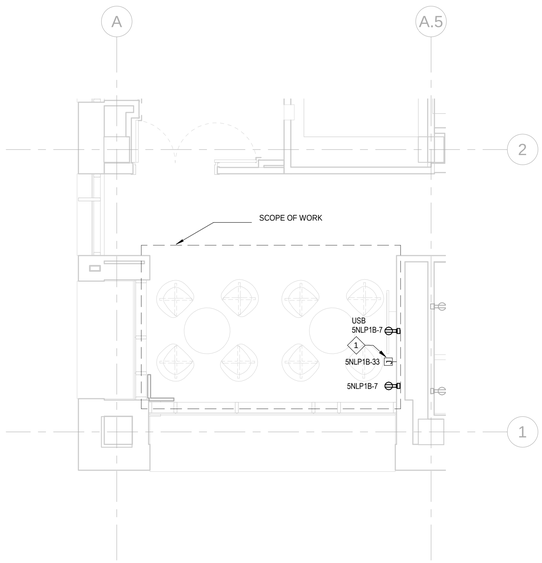
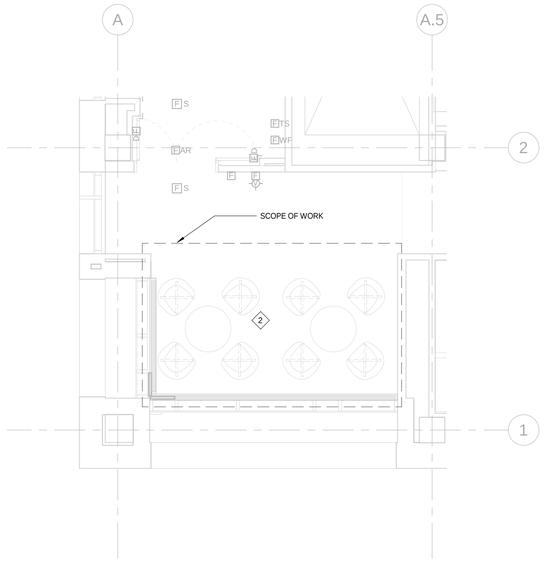


1 EF-265 **PHASE 4 FO POWER PLAN - LEVEL 05 - COLLABORATION 526**
1/4" = 1'-0"



2 EF-265 **PHASE 4 FO FIRE ALARM PLAN - LEVEL 05 - COLLABORATION 526**
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO 'TF' SERIES OF DRAWINGS FOR DATA LOCATIONS AND CONDUIT REQUIREMENTS.
2. REFER TO 'AVF' SERIES OF DRAWINGS FOR AV DEVICE LOCATIONS AND CONDUIT REQUIREMENTS.
3. REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHTS.
4. COORDINATE EXACT FLOORBOX LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
5. RECEPTACLES DENOTED WITH 'A' ARE TO BE WIRED TO LIGHTING CONTROL SYSTEM FOR AUTOMATIC CONTROL VIA THE LIGHTING CONTROL SYSTEM.
6. PROVIDE HOSPITAL GRADE RECEPTACLES WITHIN WET LABS.
7. PROVIDE 3.5' CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
8. MAINTAIN CEILING ACCESS TO EXISTING ELECTRICAL FLOOR BOXES AND OTHER MEP EQUIPMENT INSTALLED TIGHT TO DECK, WHICH WERE INSTALLED IN PREVIOUS CONSTRUCTION PHASES.

KEYED NOTES X

1 PROVIDE A WALL MOUNTED AV BOX WITH (4) NEMA 5-20 RECEPTACLES. REFER TO AV DRAWINGS FOR AV BOX SPECIFICATIONS. REFER TO TECHNOLOGY AND AV DRAWINGS FOR ADDITIONAL REQUIREMENTS. COORDINATE MOUNTING HEIGHT AND EXACT FLAT PANEL MONITOR LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.

2 NO FIRE ALARM WORK IN THE SCOPE OF WORK. FIRE ALARM IS SHOWN FOR REFERENCE ONLY.

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HEALTHY KENTUCKY RESEARCH BUILDING

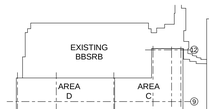
UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - BID & PERMIT	01/08/21



KEY PLAN

Drawn By Author	
Checked By Checker	
Client Number 514	
Project Number 15576	

STATE OF KENTUCKY ANDREW SCHWARTZ 23 LICENSED PROFESSIONAL ENGINEER 1/7/2021

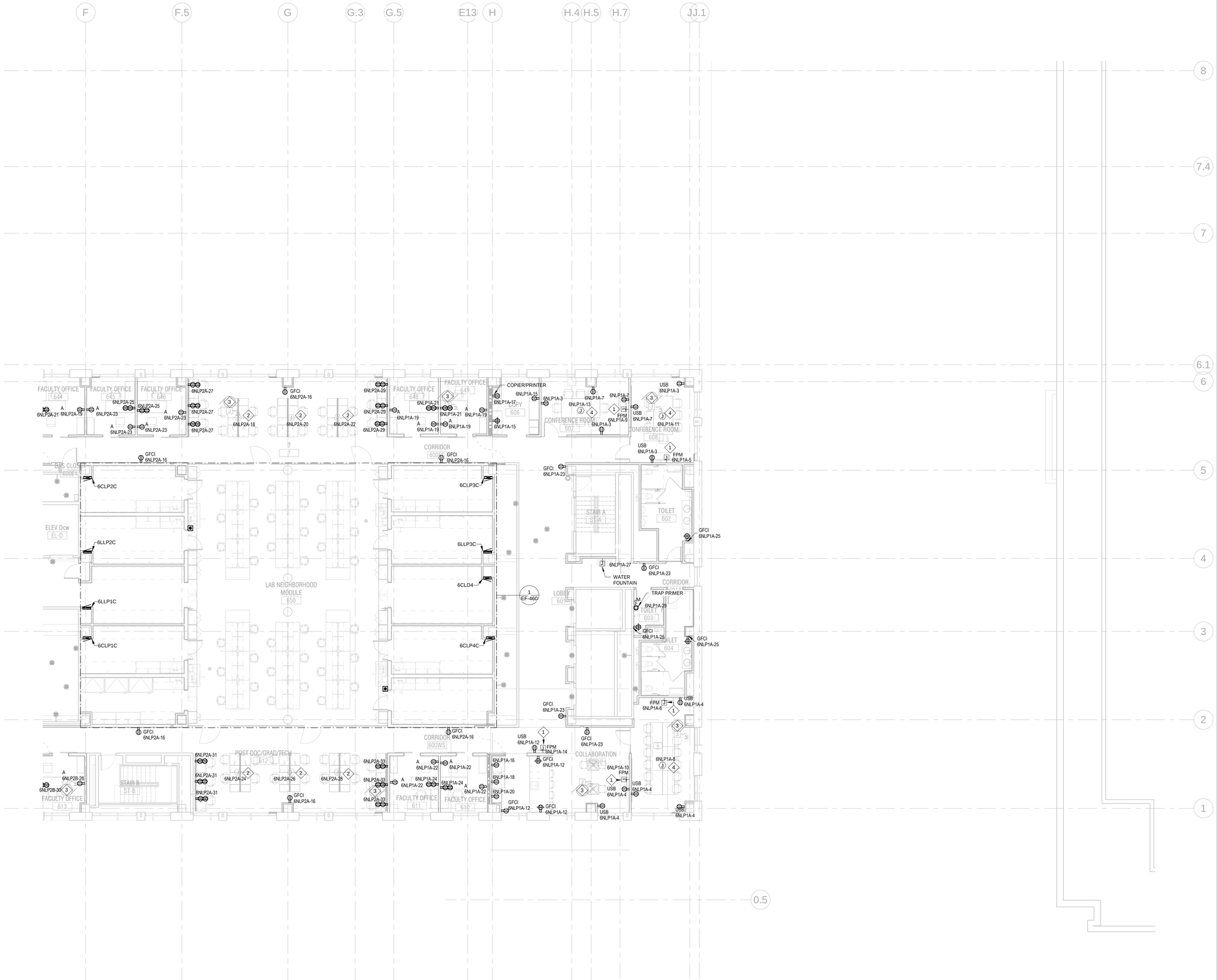
DRAWING

ELECTRICAL PHASE 4 FO POWER FLOOR PLAN - LEVEL 05

SHEET NO.

EF-265

1/8/2021 10:30:10 AM



1 EF-266A **PHASE 4 FO POWER PLAN - LEVEL 06 - AREA A**

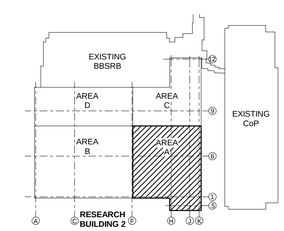
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO 'TF' SERIES OF DRAWINGS FOR DATA LOCATIONS AND CONDUIT REQUIREMENTS.
2. REFER TO 'AVF' SERIES OF DRAWINGS FOR AV DEVICE LOCATIONS AND CONDUIT REQUIREMENTS.
3. REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHTS.
4. COORDINATE EXACT FLOORBOX LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
5. RECEPTACLES DENOTED WITH 'A' ARE TO BE WIRED TO LIGHTING CONTROL SYSTEM FOR AUTOMATIC CONTROL VIA THE LIGHTING CONTROL SYSTEM.
6. PROVIDE HOSPITAL GRADE RECEPTACLES WITHIN WET LABS.
7. PROVIDE 3.5" CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
8. MAINTAIN CEILING ACCESS TO EXISTING ELECTRICAL FLOOR BOXES AND OTHER MEP EQUIPMENT INSTALLED TIGHT TO DECK, WHICH WERE INSTALLED IN PREVIOUS CONSTRUCTION PHASES.

KEYED NOTES

1. PROVIDE A WALL MOUNTED AV BOX WITH (4) NEMA 5-20 RECEPTACLES. REFER TO AV DRAWINGS FOR AV BOX SPECIFICATIONS. REFER TO TECHNOLOGY AND AV DRAWINGS FOR ADDITIONAL REQUIREMENTS. COORDINATE MOUNTING HEIGHT AND EXACT FLAT PANEL MONITOR LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
2. UTILIZE EXISTING POKE-THRU FOR POWER AND DATA TO PRE-WIRED FURNITURE SYSTEM. PROVIDE FLEX CONDUIT FOR POWER BETWEEN POKE-THU AND ENTRY OF FURNITURE SYSTEM. COORDINATE POWER FEEDS WITH FURNITURE MANUFACTURER. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.
3. UNIT HEATER TO BE DEMOLISHED.
4. PROVIDE NEW COMBINATION POWER/DATA FLOOR BOX, RACEWAY AND WIRING. COORDINATE CORE DRILLING WITH OWNER. CONTRACTOR IS RESPONSIBLE FOR RESTORING CEILING ON FLOOR BELOW TO PREVIOUSLY FINISHED CONDITIONS, AFTER WORK ABOVE CEILING IS COMPLETE.



KEY PLAN

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UK Project Number 2499.0

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2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

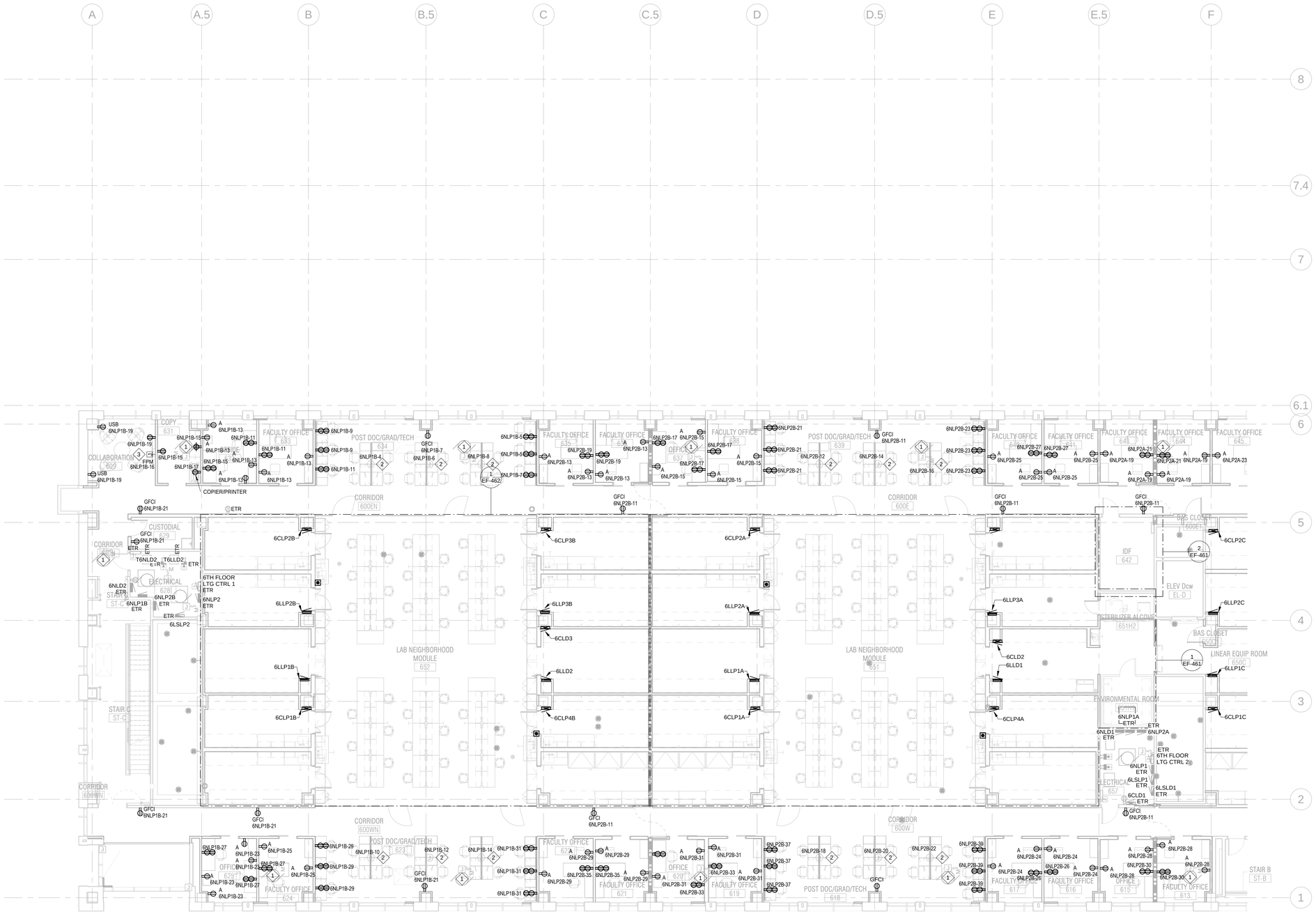
Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	15576

STATE OF KENTUCKY ANDREW SCOTT WILLIS 23 LICENSED PROFESSIONAL ENGINEER
1/7/2021

DRAWING
ELECTRICAL PHASE 4 FO POWER FLOOR PLAN - LEVEL 06 AREA A

SHEET NO.
EF-266A

1/8/2021 10:30:21 AM



1 EF-266B **PHASE 4 FO POWER PLAN - LEVEL 06 - AREA B**

1/8" = 1'-0"

GENERAL NOTES

1. REFER TO 'TF' SERIES OF DRAWINGS FOR DATA LOCATIONS AND CONDUIT REQUIREMENTS.
2. REFER TO 'AVF' SERIES OF DRAWINGS FOR AV DEVICE LOCATIONS AND CONDUIT REQUIREMENTS.
3. REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHTS.
4. COORDINATE EXACT FLOORBOX LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
5. RECEPTACLES DENOTED WITH 'A' ARE TO BE WIRED TO LIGHTING CONTROL SYSTEM FOR AUTOMATIC CONTROL VIA THE LIGHTING CONTROL SYSTEM.
6. PROVIDE HOSPITAL GRADE RECEPTACLES WITHIN WET LABS.
7. PROVIDE 3.5" CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
8. MAINTAIN CEILING ACCESS TO EXISTING ELECTRICAL FLOOR BOXES AND OTHER MEP EQUIPMENT INSTALLED TIGHT TO DECK, WHICH WERE INSTALLED IN PREVIOUS CONSTRUCTION PHASES.

KEYED NOTES X

1 UNIT HEATER TO BE DEMOLISHED.

2 UTILIZE EXISTING POKE-THRU FOR POWER AND DATA TO PRE-WIRED FURNITURE SYSTEM. PROVIDE FLEX CONDUIT FOR POWER BETWEEN POKE-THRU AND ENTRY OF FURNITURE SYSTEM. COORDINATE POWER FEEDS WITH FURNITURE MANUFACTURER. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.

3 PROVIDE A WALL MOUNTED AV BOX WITH (4) NEMA 5-20 RECEPTACLES. REFER TO AV DRAWINGS FOR AV BOX SPECIFICATIONS. REFER TO TECHNOLOGY AND AV DRAWINGS FOR ADDITIONAL REQUIREMENTS. COORDINATE MOUNTING HEIGHT AND EXACT FLAT PANEL MONITOR LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.

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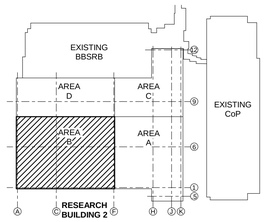


KEY PLAN

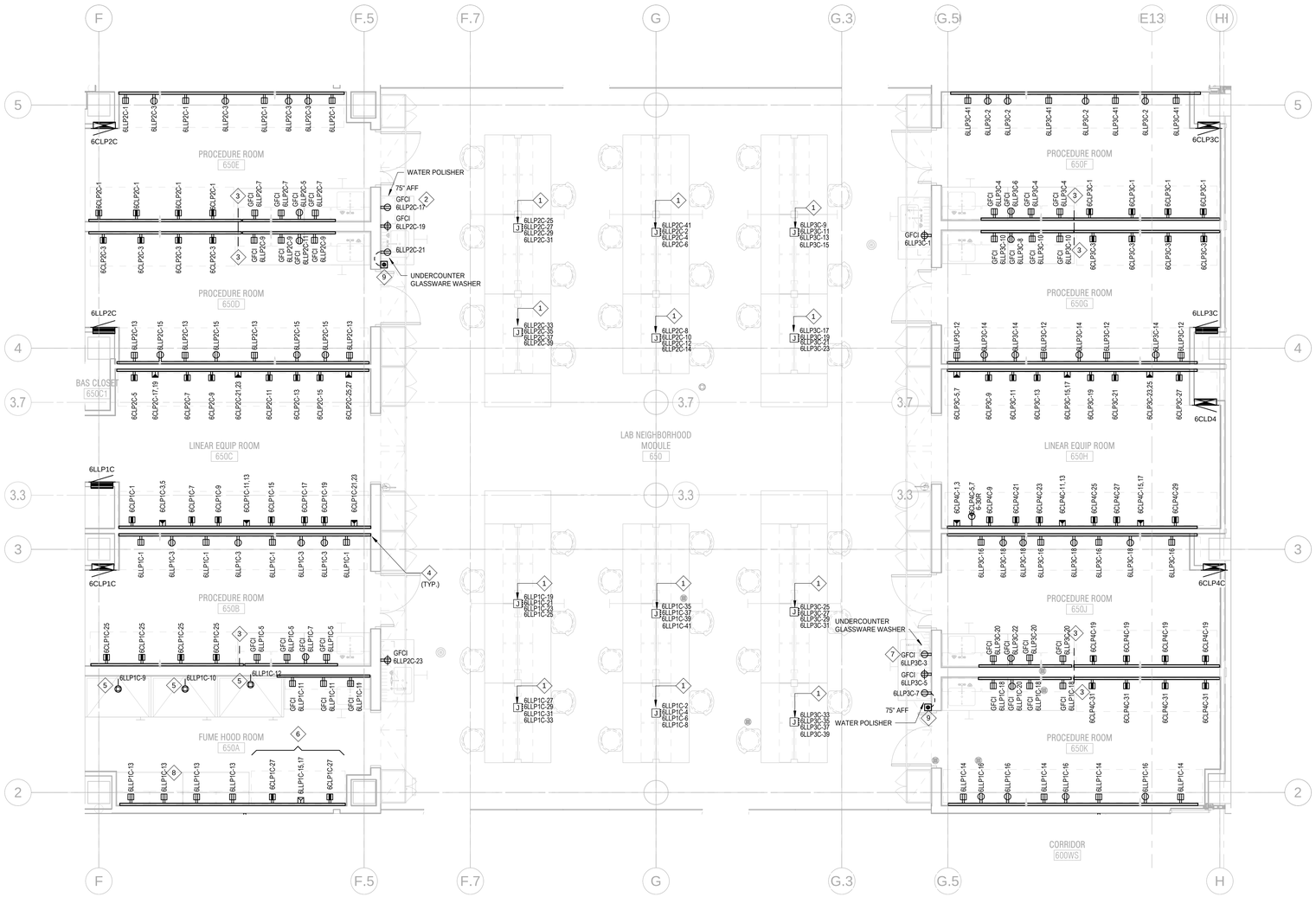
Drawn By	
Author	
Checked By	
Checker	
Client Number 514	
Project Number 15576	

STATE OF KENTUCKY ADAM C. SCHWARTZ 25351 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
ELECTRICAL PHASE 4 FO POWER FLOOR PLAN - LEVEL 06 AREA B

SHEET NO.
EF-266B

1/8/2021 10:30:33 AM



1 EF-460 **ELEC FO PH 4 LAB NEIGHBORHOOD 650 ENLARGED POWER PLAN**

1/4" = 1'-0"

GENERAL NOTES

1. REFER TO 'QL' SERIES OF DRAWINGS FOR LAB EQUIPMENT SCHEDULES, LAB FURNITURE ELEVATIONS, AND DETAILS.
2. REFER TO 'TF' SERIES OF DRAWINGS FOR DATA LOCATIONS AND CONDUIT REQUIREMENTS.
3. REFER TO 'AVF' SERIES OF DRAWINGS FOR AV DEVICE LOCATIONS AND CONDUIT REQUIREMENTS.
4. REFER TO ARCHITECTURAL ('AI') AND LAB ('QL') ELEVATIONS FOR DEVICE MOUNTING HEIGHTS.
5. MAINTAIN CEILING ACCESS TO EXISTING ELECTRICAL FLOOR BOXES AND OTHER MEP EQUIPMENT INSTALLED TIGHT TO DECK, WHICH WERE INSTALLED IN PREVIOUS CONSTRUCTION PHASES.

KEYED NOTES

1. CEILING SERVICE PANEL WITH (4) NEMA L5-20R RECEPTACLES. PROVIDE A DEDICATED 120V, 1PH CIRCUIT FOR EACH L5-20R RECEPTACLE AS INDICATED ON PLAN. CEILING SERVICE PANEL TO BE PROVIDED WITH KNOCKOUT FOR FUTURE 208V RECEPTACLE. ROUTE SPARE 3/4"C FROM PANELBOARD SERVING 120V CIRCUITS TO CEILING SERVICE PANEL FOR FUTURE USE. LABEL CONDUIT AT BOTH ENDS AND PROVIDE PULL STRING. EACH LAB TABLE SYSTEM TO BE PRE-WIRED AND PROVIDED WITH (2) L5-20P PLUG & CORD TO TERMINATE ON CEILING SERVICE PANEL. REFER TO 'QL' SERIES OF DRAWINGS FOR ADDITIONAL INFORMATION.
2. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.
3. PROVIDE SEPARATE RACEWAYS FOR NORMAL POWER (LLP) BRANCH CIRCUITS AND CRITICAL STANDBY POWER ('CLP') BRANCH CIRCUITS.
4. PROVIDE DUAL CHANNEL, SURFACE MOUNTED METAL RACEWAY (WIREMOLD G4000 SERIES OR APPROVED EQUAL) WITH ELECTRICAL OUTLETS IN UPPER CHANNEL. LOWER CHANNEL RESERVED FOR DATA CABLE. REFER TO TECHNOLOGY DRAWINGS FOR DATA REQUIREMENTS.
5. SINGLE POINT CONNECTION FOR PREWIRED RECEPTACLES, LIGHTS, AND SWITCH MOUNTED TO FUME HOOD. REFER TO FUME HOOD DETAILS ON DRAWING QL-404.
6. PROVIDE SINGLE CHANNEL, SURFACE MOUNTED RACEWAY (WIREMOLD G3000 SERIES OR APPROVED EQUAL) FOR CRITICAL POWER ('CLP') BRANCH CIRCUIT IN ORDER TO KEEP SEPARATE FROM NORMAL POWER BRANCH CIRCUITS.
7. PROVIDE A GFCI CIRCUIT BREAKER FOR STANDARD RECEPTACLE BEHIND GLASSWARE WASHER AND ICE FLAKER EQUIPMENT.
8. BOND METAL SURFACES IN FUME HOOD ROOM VIA #4 INSULATED COPPER WIRE FOR STATIC GROUNDING. ROUTE GROUND CONDUCTOR IN 3/4"C FROM FUME HOOD ROOM TO NORTH ELECTRICAL ROOM AND CONNECT TO LABORATORY GROUND BAR (LGB).
9. PROVIDE FACELESS GFCI FOR DEDICATED WASHER RECEPTACLE WITH LABEL THAT READS "WASHER RESET". GFCI SHALL BE WIRED IN SERIES AND ON LINE SIDE OF DEDICATED RECEPTACLE CIRCUIT. INSTALL FACELESS GFCI IN AN ACCESSIBLE LOCATION.

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3	P4 - BID & PERMIT	01/08/21

Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	15576

STATE OF KENTUCKY ... LICENSED PROFESSIONAL ENGINEER 1/7/2021

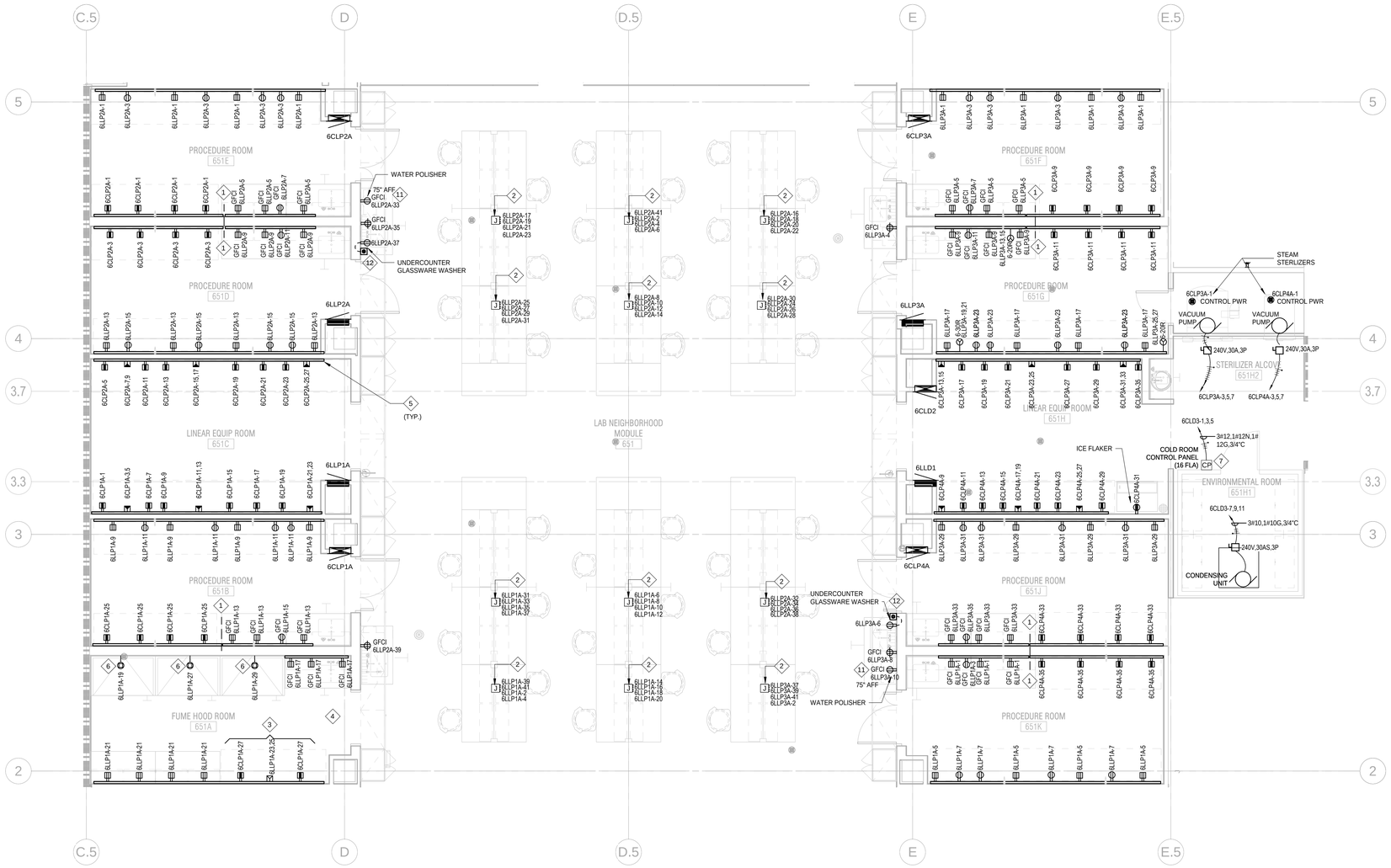
DRAWING

ELECTRICAL PHASE 4 LAB NEIGHBORHOOD 650 ENLARGED PLAN

SHEET NO.

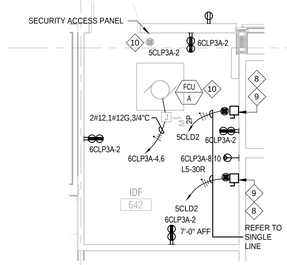
EF-460

1/8/2021 10:30:38 AM



1 EF-461 **ELEC FO PH 4 LAB NEIGHBORHOOD 651 ENLARGED POWER PLAN**

1/4" = 1'-0"



2 EF-461 **LEVEL 06 - IDF 642 ENLARGED POWER PLAN**

1/4" = 1'-0"

GENERAL NOTES

1. REFER TO 'QL' SERIES OF DRAWINGS FOR LAB EQUIPMENT SCHEDULES, LAB FURNITURE ELEVATIONS, AND DETAILS.
2. REFER TO 'TF' SERIES OF DRAWINGS FOR DATA LOCATIONS AND CONDUIT REQUIREMENTS.
3. REFER TO 'AVF' SERIES OF DRAWINGS FOR AV DEVICE LOCATIONS AND CONDUIT REQUIREMENTS.
4. REFER TO ARCHITECTURAL ('AI') AND LAB ('QL') ELEVATIONS FOR DEVICE MOUNTING HEIGHTS.
5. MAINTAIN CEILING ACCESS TO EXISTING ELECTRICAL FLOOR BOXES AND OTHER MEP EQUIPMENT INSTALLED TIGHT TO DECK, WHICH WERE INSTALLED IN PREVIOUS CONSTRUCTION PHASES.

KEYED NOTES

1. PROVIDE SEPARATE RACEWAYS FOR NORMAL POWER ('LLP') BRANCH CIRCUITS AND CRITICAL STANDBY POWER ('CLP') BRANCH CIRCUITS.
2. CEILING SERVICE PANEL WITH (4) NEMA L5-20R RECEPTACLES. PROVIDE A DEDICATED 120V, 1PH CIRCUIT FOR EACH L5-20R RECEPTACLE AS INDICATED ON PLAN. CEILING SERVICE PANEL TO BE PROVIDED WITH KNOCKOUT FOR FUTURE 208V RECEPTACLE. ROUTE SPARE 3/4"C FROM PANELBOARD SERVING 120V CIRCUITS TO CEILING SERVICE PANEL FOR FUTURE USE. LABEL CONDUIT AT BOTH ENDS AND PROVIDE PULL STRING. EACH LAB TABLE SYSTEM TO BE PRE-WIRED AND PROVIDED WITH (2) L5-20P PLUG & CORD TO TERMINATE ON CEILING SERVICE PANEL. REFER TO 'QL' SERIES OF DRAWINGS FOR ADDITIONAL INFORMATION.
3. PROVIDE SINGLE CHANNEL, SURFACE MOUNTED RACEWAY (WIREMOLD G3000 SERIES OR APPROVED EQUAL) FOR CRITICAL POWER ('CLP') BRANCH CIRCUIT IN ORDER TO KEEP SEPARATE FROM NORMAL POWER BRANCH CIRCUITS.
4. BOND METAL SURFACES IN FUME HOOD ROOM VIA #4 INSULATED COPPER WIRE FOR STATIC GROUNDING. ROUTE GROUND CONDUCTOR IN 3/4"C FROM FUME HOOD ROOM TO NORTH ELECTRICAL ROOM AND CONNECT TO LABORATORY GROUND BAR (LGB).
5. PROVIDE DUAL CHANNEL, SURFACE MOUNTED METAL RACEWAY (WIREMOLD G4000 SERIES OR APPROVED EQUAL) WITH ELECTRICAL OUTLETS IN UPPER CHANNEL. LOWER CHANNEL RESERVED FOR DATA CABLE. REFER TO TECHNOLOGY DRAWINGS FOR DATA REQUIREMENTS.
6. SINGLE POINT CONNECTION FOR PREWIRED RECEPTACLES, LIGHTS, AND SWITCH MOUNTED TO FUME HOOD. REFER TO FUME HOOD DETAILS ON DRAWING QL-404.
7. PROVIDE SINGLE POINT OF CONNECTION TO COLD ROOM CONTROL CONSOLE. COLD ROOM ELECTRICAL LOADS (LIGHTING, RECEPTACLES, AND EQUIPMENT) TO BE POWERED VIA COLD ROOM CONTROL CONSOLE. DISCONNECT INTEGRAL TO CONTROL CONSOLE BY MANUFACTURER.
8. COORDINATE DISCONNECT LOCATION WITH UK IT PRIOR TO INSTALLATION.
9. PROVIDE DUAL CONNECTION TO OWNER FURNISHED RACK MOUNTED UPS VIA ENCLOSED CIRCUIT BREAKER DISCONNECT. REFER TO DRAWING EF-503 FOR DISCONNECT AND WIRE SIZING.
10. INSTALLED DURING PHASE 1, RE-FEED FROM CRITICAL POWER AS PART OF PHASE 2.
11. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.
12. PROVIDE FACELESS GFCI FOR DEDICATED WASHER RECEPTACLE WITH LABEL THAT READS "WASHER RESET". GFCI SHALL BE WIRED IN SERIES AND ON LINE SIDE OF DEDICATED RECEPTACLE CIRCUIT. INSTALL FACELESS GFCI IN AN ACCESSIBLE LOCATION.

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UNIVERSITY OF KENTUCKY
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Drawn By: Author	
Checked By: Checker	
Client Number: 514	STATE OF KENTUCKY ANDREW SCHMIDT LICENSED PROFESSIONAL ENGINEER 1/7/2021
Project Number: 15576	

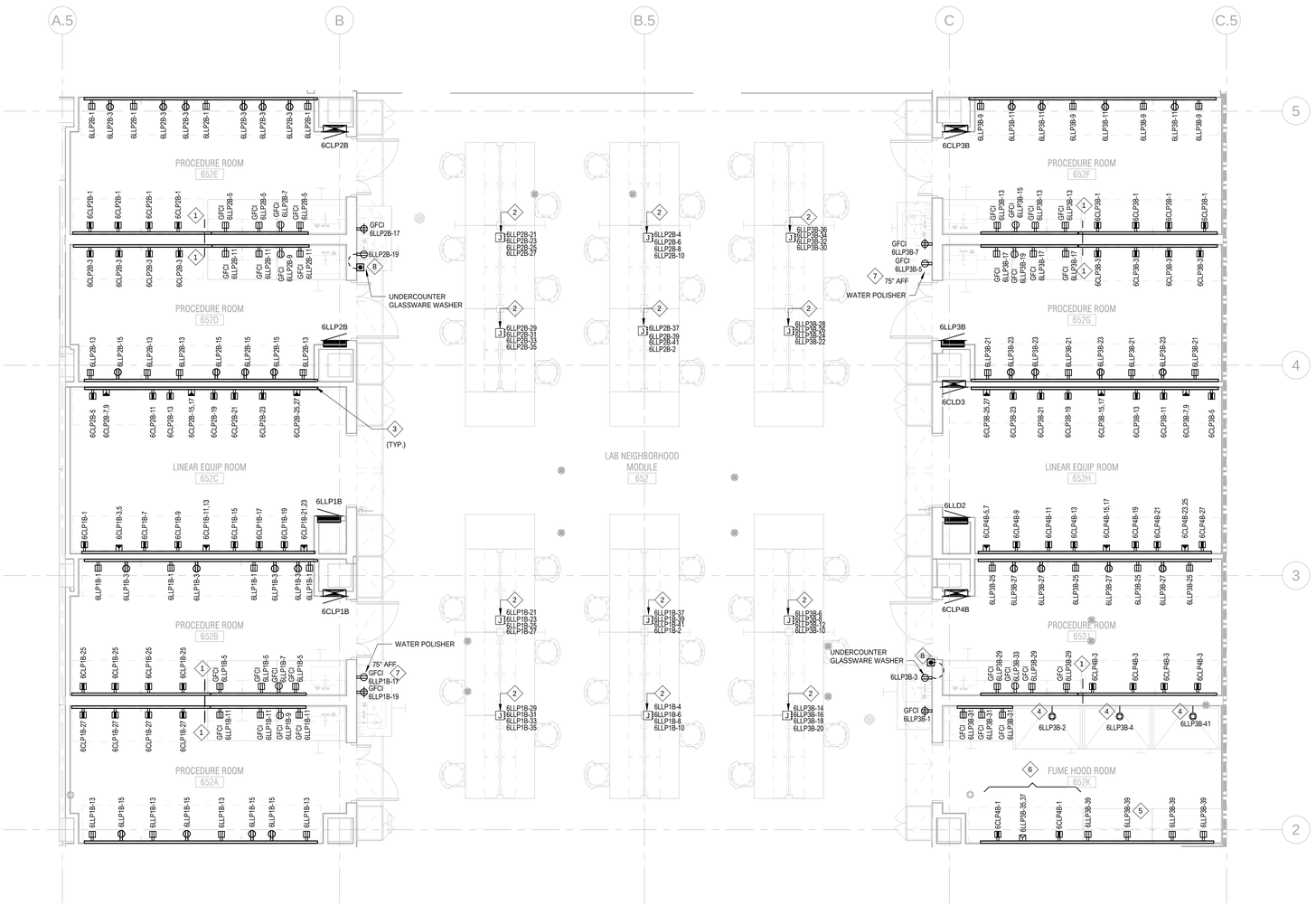
DRAWING

ELECTRICAL PHASE 4 LAB NEIGHBORHOOD 651 ENLARGED PLAN

SHEET NO.

EF-461

1/8/2021 10:30:44 AM



1 EF-462 **ELEC FO PH 4 LAB NEIGHBORHOOD 652 ENLARGED POWER PLAN**

1/4" = 1'-0"

GENERAL NOTES

1. REFER TO 'QL' SERIES OF DRAWINGS FOR LAB EQUIPMENT SCHEDULES, LAB FURNITURE ELEVATIONS, AND DETAILS.
2. REFER TO 'TF' SERIES OF DRAWINGS FOR DATA LOCATIONS AND CONDUIT REQUIREMENTS.
3. REFER TO 'AVF' SERIES OF DRAWINGS FOR AV DEVICE LOCATIONS AND CONDUIT REQUIREMENTS.
4. REFER TO ARCHITECTURAL ('AI') AND LAB ('QL') ELEVATIONS FOR DEVICE MOUNTING HEIGHTS.
5. MAINTAIN CEILING ACCESS TO EXISTING ELECTRICAL FLOOR BOXES AND OTHER MEP EQUIPMENT INSTALLED TIGHT TO DECK, WHICH WERE INSTALLED IN PREVIOUS CONSTRUCTION PHASES.

KEYED NOTES

1. PROVIDE SEPARATE RACEWAYS FOR NORMAL POWER ('LLP') BRANCH CIRCUITS AND CRITICAL STANDBY POWER ('CLP') BRANCH CIRCUITS.
2. CEILING SERVICE PANEL WITH (4) NEMA L5-20R RECEPTACLES. PROVIDE A DEDICATED 120V, 1PH CIRCUIT FOR EACH L5-20R RECEPTACLE AS INDICATED ON PLAN. CEILING SERVICE PANEL TO BE PROVIDED WITH KNOCKOUT FOR FUTURE 208V RECEPTACLE. ROUTE SPARE 3/4"C FROM PANELBOARD SERVING 120V CIRCUITS TO CEILING SERVICE PANEL FOR FUTURE USE. LABEL CONDUIT AT BOTH ENDS AND PROVIDE PULL STRING. EACH LAB TABLE SYSTEM TO BE PRE-WIRED AND PROVIDED WITH (2) L5-20P PLUG & CORD TO TERMINATE ON CEILING SERVICE PANEL. REFER TO 'QL' SERIES OF DRAWINGS FOR ADDITIONAL INFORMATION.
3. PROVIDE DUAL CHANNEL, SURFACE MOUNTED METAL RACEWAY (WIREMOLD G4000 SERIES OR APPROVED EQUAL) WITH ELECTRICAL OUTLETS IN UPPER CHANNEL. LOWER CHANNEL RESERVED FOR DATA CABLE. REFER TO TECHNOLOGY DRAWINGS FOR DATA REQUIREMENTS.
4. SINGLE POINT CONNECTION FOR PREWIRED RECEPTACLES, LIGHTS, AND SWITCH MOUNTED TO FUME HOOD. REFER TO FUME HOOD DETAILS ON DRAWING QL-404.
5. BOND METAL SURFACES IN FUME HOOD ROOM VIA #4 INSULATED COPPER WIRE FOR STATIC GROUNDING. ROUTE GROUND CONDUCTOR IN 3/4"C FROM FUME HOOD ROOM TO NORTH ELECTRICAL ROOM AND CONNECT TO LABORATORY GROUND BAR (LGB).
6. PROVIDE SINGLE CHANNEL, SURFACE MOUNTED RACEWAY (WIREMOLD G3000 SERIES OR APPROVED EQUAL) FOR CRITICAL POWER ('CLP') BRANCH CIRCUIT IN ORDER TO KEEP SEPARATE FROM NORMAL POWER BRANCH CIRCUITS.
7. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.
8. PROVIDE FACELESS GFCI FOR DEDICATED WASHER RECEPTACLE WITH LABEL THAT READS "WASHER RESET". GFCI SHALL BE WIRED IN SERIES AND ON LINE SIDE OF DEDICATED RECEPTACLE CIRCUIT. INSTALL FACELESS GFCI IN AN ACCESSIBLE LOCATION.

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Drawn By
Author

Checked By
Checker

Client Number
514

Project Number
15576

STATE OF KENTUCKY
ANDREW SCOTT
LICENSED
PROFESSIONAL ENGINEER
1/7/2021

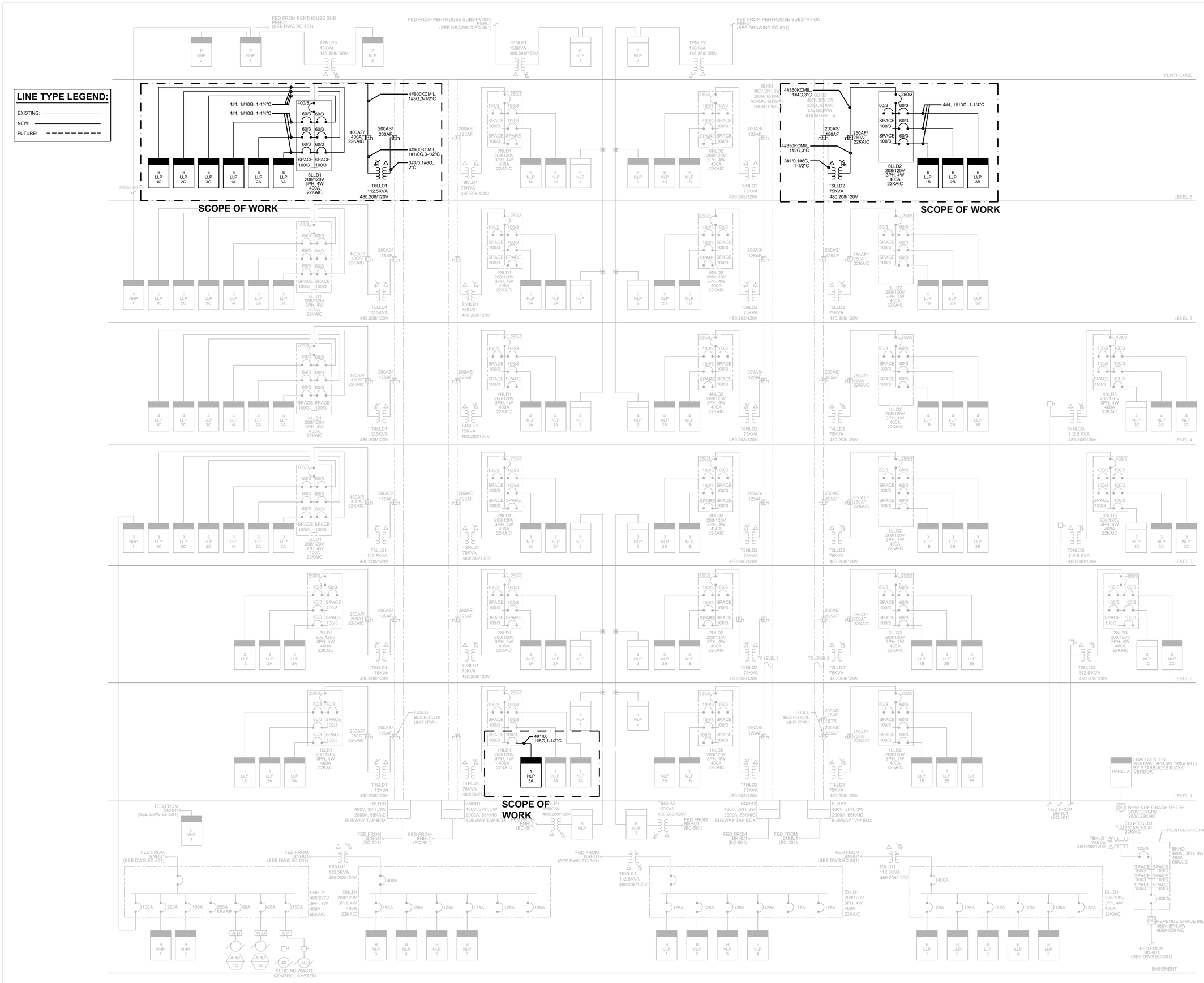
DRAWING

ELECTRICAL PHASE 4
LAB NEIGHBORHOOD
652 ENLARGED PLAN

SHEET NO.

EF-462

1/8/2021 10:30:45 AM



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3	P4 - BID & PERMIT	01/08/21

Drawn By: EM

Checked By: JS

Client Number: 514

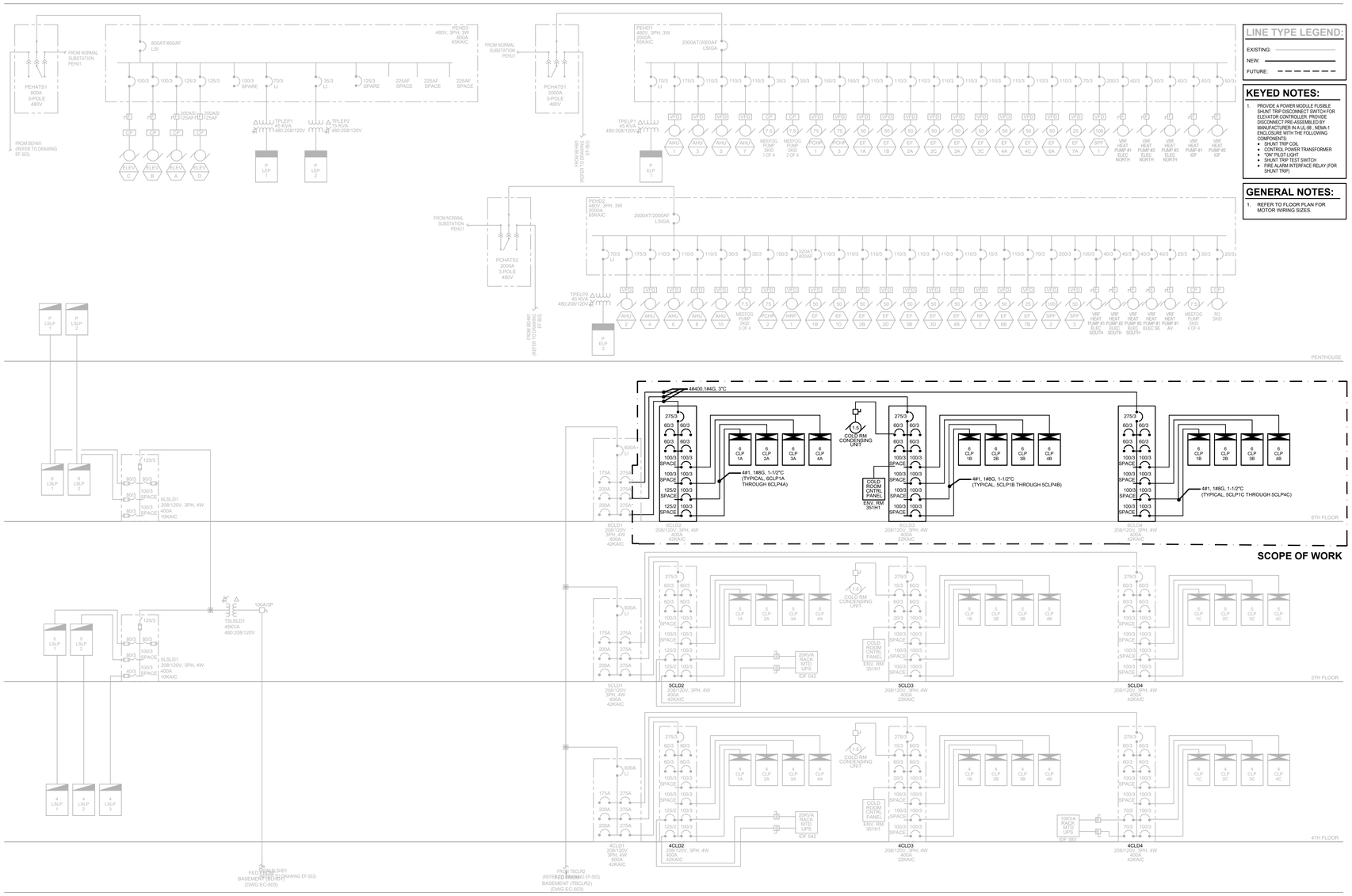
Project Number: 5350

STATE OF KENTUCKY ANDREW SCHAEFER 33 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING TITLE
ELECTRICAL PHASE 4 FO NORMAL POWER RISER

SHEET NO.
EF-556

02/05/2020 10:00:00 AM



LINE TYPE LEGEND:

EXISTING:

NEW:

FUTURE:

KEYED NOTES:

1. PROVIDE A POWER MODULE FUSIBLE SHUNT TRIP DISCONNECT SWITCH FOR ELEVATOR CONTROLLER. PROVIDE DISCONNECT PRE-ASSEMBLED BY MANUFACTURER IN A UL-98, NEMA-1 ENCLOSURE WITH THE FOLLOWING COMPONENTS:
   - SHUNT TRIP COIL
   - CONTROL POWER TRANSFORMER
   - "ON" PILOT LIGHT
   - SHUNT TRIP TEST SWITCH
   - FIRE ALARM INTERFACE RELAY (FOR SHUNT TRIP)

GENERAL NOTES:

1. REFER TO FLOOR PLAN FOR MOTOR WIRING SIZES.

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: EM

Checked By: JS

Client Number: 514

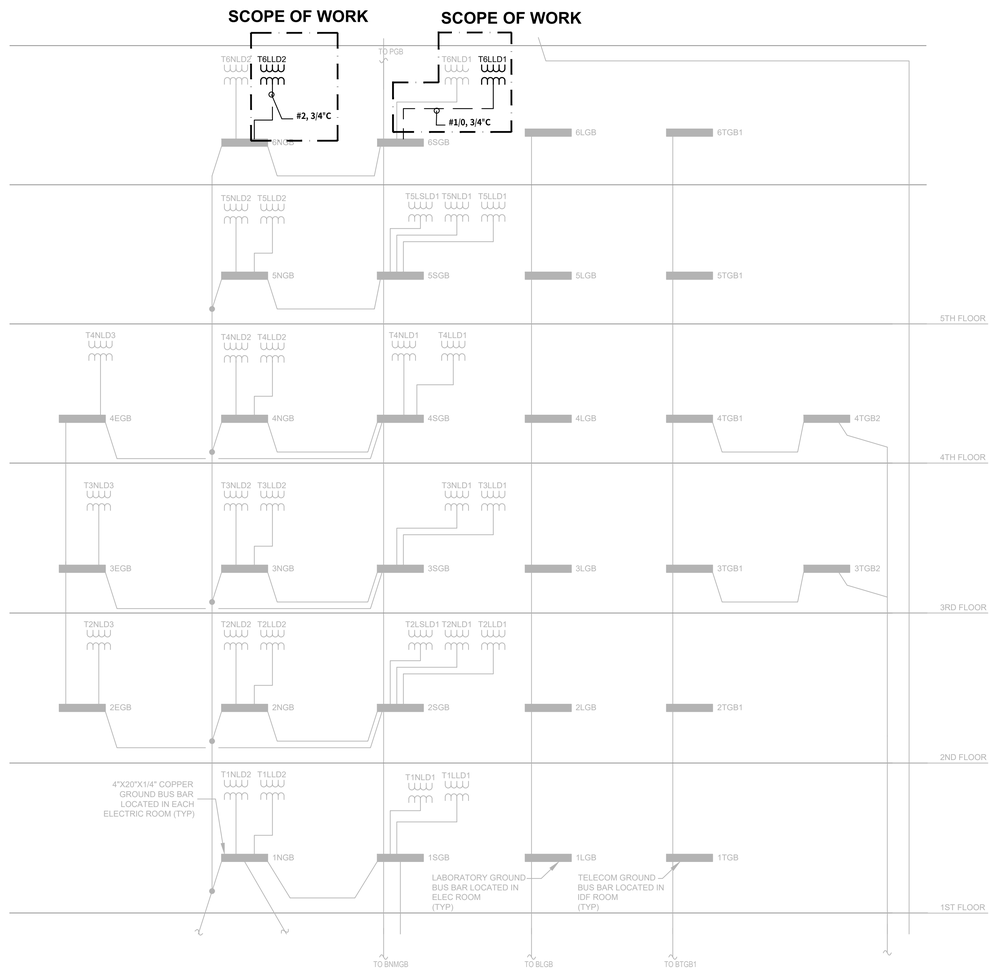
Project Number: 5350

STATE OF KENTUCKY ANDREW SCHWARTZ 20353 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING TITLE
ELECTRICAL PHASE 4 FO EMERGENCY AND CRITICAL POWER RISER

SHEET NO.
EF-557

02/05/2020 10:00:00 AM



LINE TYPE LEGEND:

EXISTING:
NEW:
FUTURE:

CHAMPLIN ARCHITECTURE
720 E Pete Rose Way, Suite 140
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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
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3	P4 - BID & PERMIT	01/08/21

Drawn By EM

Checked By JS

Client Number 514

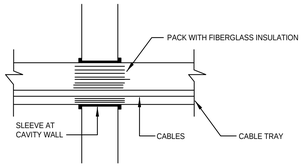
Project Number 5350

STATE OF KENTUCKY JAMES SCHWARTZ 23 LICENSED PROFESSIONAL ENGINEER
1/7/2021

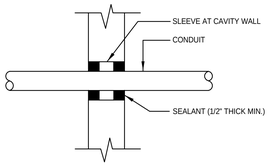
DRAWING TITLE
ELECTRICAL PHASE 4
FO GROUNDING RISER

SHEET NO.
EF-558

02/05/2020 10:00:00 AM



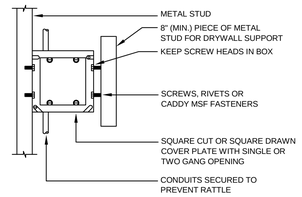
CABLE TRAY



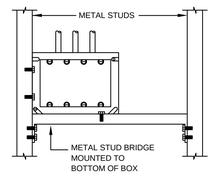
CONDUIT

8 / EF-860 ELECTRICAL FIRE SEAL DETAIL

N.T.S.



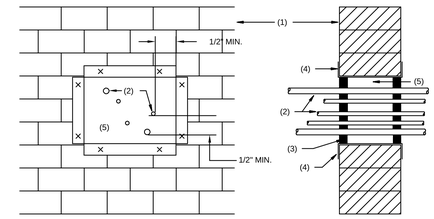
TWO GANG BOX MOUNTING



MULTIPLE GANG BOX MOUNTING

4 / EF-860 METAL STUD WALL BOX INSTALLATION

N.T.S.



NOTES:

(1) WALL

(2) CABLE/CONDUIT. FOR MULTIPLE CABLE/CONDUITS PROVIDE 1/2" MINIMUM SEPARATION USING THERMO-FIBER INSULATION

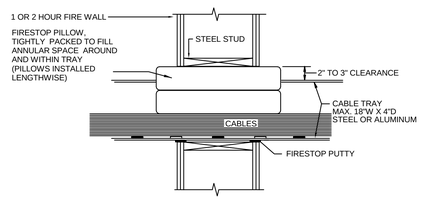
(3) FIRE RESISTANT FOAM SEALANT

(4) FIELD FABRICATED GALVANIZED SHEET METAL COLLAR (FOR CABLE TRAY PROVIDE MINIMUM 10" W x 5" H OPENING)

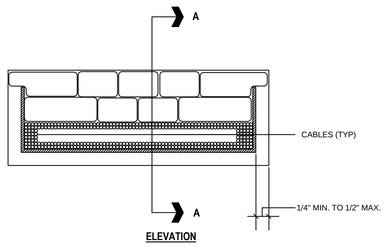
(5) DAMMING METHOD - PER FOAM MANUFACTURER'S RECOMMENDATIONS

1 / EF-860 PENETRATION OF 2 HOUR FIRE RATED OR SMOKE PARTITION

N.T.S.



SECTION A-A

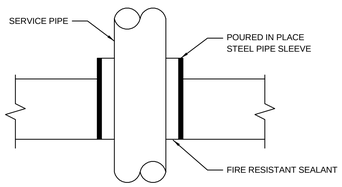


ELEVATION

NOTES:
INSTALL PUTTY AS REQUIRED TO FILL OBVIOUS OPENINGS BETWEEN CABLES OR BETWEEN TRAY AND PERIPHERY OF OPENING. INSTALL ON BOTH SIDES OF WALL.

5 / EF-860 METAL CABLE TRAY PENETRATION OF 1 OR 2 HOUR FIRE RATED GYPSUM WALLBOARD WALL

N.T.S.



NOTES:

(1) AT CORED HOLES INSTALL SLEEVE SMALLER THAN HOLE. FILL SPACE BETWEEN HOLE AND SLEEVE WITH HYDRAULIC CEMENT.

7 / EF-860 PENETRATION THROUGH FIRE RATED FLOOR

N.T.S.

TOP 3 ROWS: 3/4" LETTERS
BOTTOM ROW: 1/2" LETTERS

AREA IN FRONT OF THIS
ELECTRICAL PANEL MUST BE
KEPT CLEAR FOR 36 INCHES
OSHA-NEC REGULATIONS

3-1/2"

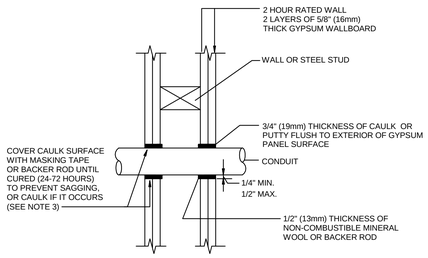
10"

BLACK LETTERING ON WHITE BACKGROUND

NOTES:
(1) SUBSTITUTE "42 INCHES" FOR 480V OR 480/277V PANELS.

2 / EF-860 OSHA/NEC PLACARD

N.T.S.



SECTION VIEW

NOTES:

(1) INSTALL FIRESTOP ON BOTH SIDES OF WALL.

(2) RECOMMENDATIONS BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) TIME TEMPERATURE FIRE ENCLOSURE CURVE.

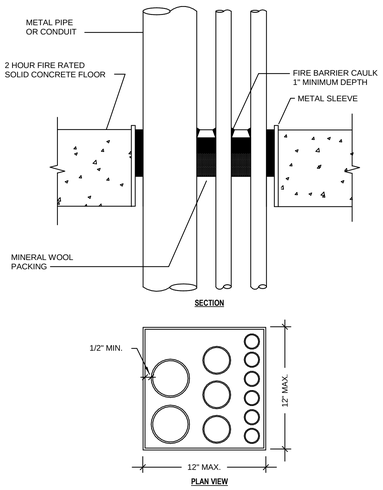
(3) OPTIONS FOR MASKING TAPE TO PREVENT SAGGING:

A. INSTALL ADDITIONAL DAMMING MATERIAL INSIDE WALL AND OVER PRODUCT TO HOLD WITHIN OPENING.

B. REMOVE PRODUCT FROM CONTAINER AND ALLOW TO AIR CURE IN SMALL BATCHES FOR 12 HOURS, THEN HAND FORM INTO OPENING.

6 / EF-860 SINGLE CONDUIT PENETRATION OF 2 HOUR FIRE RATE GYPSUM WALLBOARD WALL

N.T.S.



3 / EF-860 MULTIPLE CONDUIT PENETRATIONS OF 2 HOUR FIRE RATED CONCRETE FLOOR

N.T.S.

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UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By
Author
Checked By
Checker
Client Number 514
Project Number 15576

STATE OF KENTUCKY ADAM SCOTT BOWLES 25353 LICENSED PROFESSIONAL ENGINEER 1/7/2021

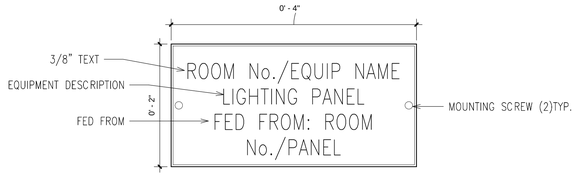
DRAWING

ELECTRICAL PHASE 4 FO DETAILS

SHEET NO.

EF-860

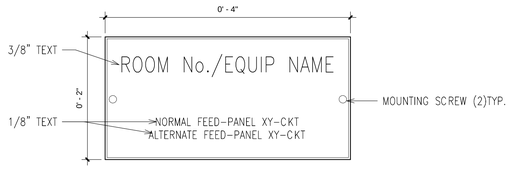
1/8/2021 10:30:55 AM



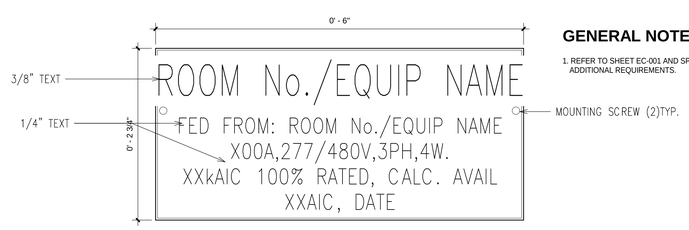
6 EF-861 **TYPICAL EQUIPMENT NAMEPLATE**
12" = 1'-0"

7 EF-861 **TYPICAL LARGE BREAKER NAMEPLATE**
12" = 1'-0"

8 EF-861 **TYPICAL SMALL BREAKER NAMEPLATE**
12" = 1'-0"



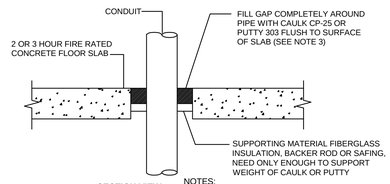
9 EF-861 **TYPICAL EQUIPMENT NAMEPLATE WITH MULTIPLE POWER SOURCES**
12" = 1'-0"



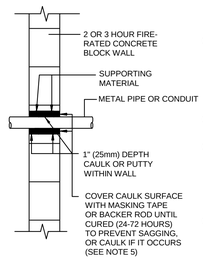
10 EF-861 **TYPICAL SWITCHBOARD NAMEPLATE**
12" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET EC-001 AND SPECIFICATION SECTION 260553 FOR ADDITIONAL REQUIREMENTS.



SECTION VIEW



SECTION VIEW

NOTES:

(1) FOR CONCRETE BLOCK WALLS, CENTER CAULK OR PUTTY WITHIN WALL WITH DAMMING ON BOTH SIDES.

(2) RECOMMENDATIONS BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) FIRE TEST AND UL CLASSIFICATION FIRESTOP SYSTEMS 49, 33 AND 91.

(3) WET INSTALLED DEPTH OF CAULK OR PUTTY DEPENDS ON TYPE AND SIZE OF PIPE:

WET DEPTH	PIPE SIZE	FIRE RATING
1/2" (13mm)	MAX 8" (200mm)	2 HOURS
1" (25mm)	MAX 6" (150mm)	3 HOURS

(4) UP TO 40% SHRINKAGE OF CAULK OR PUTTY IS ACCEPTABLE AFTER WET DEPTH INSTALLATION.

(5) OPTIONS TO MASKING TAPE TO PREVENT SAGGING:

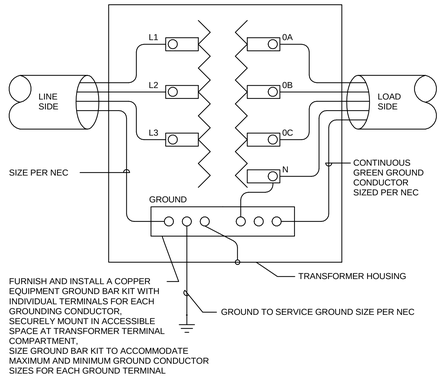
A. INSTALL ADDITIONAL DAMMING MATERIAL OVER PRODUCT TO HOLD WITHIN OPENING.

B. REMOVE PRODUCT FROM CONTAINER AND ALLOW TO AIR CURE IN SMALL BATCHES FOR 12 HOURS. THEN HAND FORM INTO OPENING.

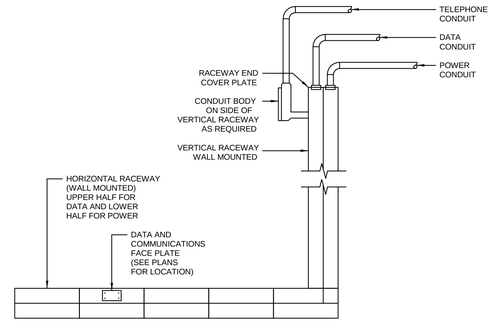
(6) WHEN ANNULAR SPACE EXCEEDS 3/4" (19mm), A 28 AWG METAL COVER PLATE MUST BE MECHANICALLY SECURED ATOP THE FIRE BARRIER APPLICATION, OR TIGHTLY PACK A NON-COMBUSTIBLE DAMMING MATERIAL ATOP INSTALLED CAULK OR PUTTY. COVER PLATE NOT REQUIRED FOR 2 HOUR RATING UP TO 1 7/8" (48mm) ANNULAR SPACE.

4 EF-861 **SINGLE CONDUIT PENETRATION OF 2 OR 3 HOUR FIRE RATED GYPSUM WALLBOARD WALL**
N.T.S.

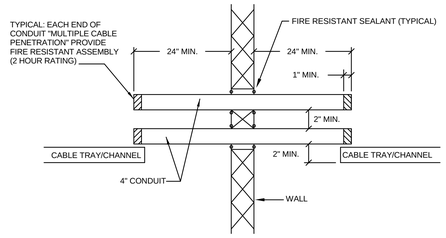
NOTES:
TYPICAL DRY TYPE TRANSFORMER 480V DELTA PRIMARY
208Y/120V SECONDARY - SEE SPECIFICATIONS.



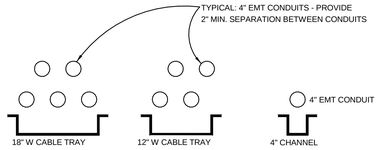
5 EF-861 **TYPICAL TRANSFORMER GROUNDING**
N.T.S.



3 EF-861 **RACEWAY FEED THROUGH VERTICAL RACEWAY**
N.T.S.

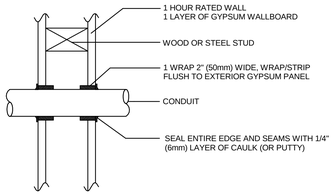


SECTION AT FIRE RATED WALL
SCALE: NONE



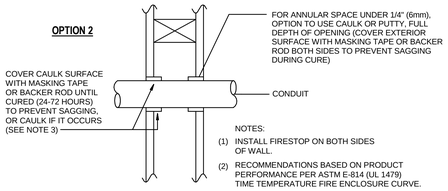
2 EF-861 **CABLE TRAY PENETRATION OF FIRE RATED WALL**
N.T.S.

OPTION 1



SECTION VIEW

OPTION 2



SECTION VIEW

NOTES:

(1) INSTALL FIRESTOP ON BOTH SIDES OF WALL.

(2) RECOMMENDATIONS BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) TIME TEMPERATURE FIRE ENCLOSURE CURVE.

(3) OPTIONS FOR MASKING TAPE TO PREVENT SAGGING:

A. INSTALL ADDITIONAL DAMMING MATERIAL INSIDE WALL AND OVER PRODUCT TO HOLD WITHIN OPENING.

B. REMOVE PRODUCT FROM CONTAINER AND ALLOW TO AIR CURE IN SMALL BATCHES FOR 12 HOURS, THEN HAND FORM INTO OPENING.

1 EF-861 **SINGLE CONDUIT PENETRATION OF 1 HOUR FIRE RATED GYPSUM WALLBOARD WALL**
N.T.S.

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Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
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2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: 15576

STATE OF KENTUCKY ANDREW SCHMIDT 22553 LICENSED PROFESSIONAL ENGINEER
1/7/2021

DRAWING

ELECTRICAL PHASE 4 FO DETAILS

SHEET NO.
EF-861

1/8/2021 10:31:04 AM

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 6NLP1A **LOCATION** ELECTRICAL-1 614-1 **FLOOR** LEVEL 06
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** 6NLD1
MAIN TYPE MLO **BUS RATING** 225 A **FAULT CURRENT RATING** 10K AIC
MAIN RATING 225 A **MOUNTING** SURFACE **FAULT...** 5.7 K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT A	LEFT B	LEFT C	RIGHT A	RIGHT B	RIGHT C	CKT NO	POLES	BRKR AMP	DESCRIPTION
REC RM 614	20 A	1	1	0.18			0.50			2	1	20 A	NAC RM 614
RECEPTACLE CONFERENCE...	20 A	1	3		0.72			0.90		4	1	20 A	RECEPTACLE SPACE 099
POWER CONFERENCE ROOM-...	20 A	1	5			0.18			0.18	6	1	20 A	POWER CONF. ROOM 099
RECEPTACLE CONFERENCE...	20 A	1	7	0.54			0.50			8	1	20 A	FLOOR BOX 099
POWER CONFERENCE ROOM-...	20 A	1	9		0.18			0.18		10	1	20 A	POWER
FLOOR BOX 632	20 A	1	11			0.50			0.72	12	1	20 A	RECEPTACLE
FLOOR BOX 607-2	20 A	1	13	0.50			0.18			14	1	20 A	POWER
RECEPTACLE COPY-2 606-2	20 A	1	15		0.36			0.18		16	1	20 A	RECEPTACLE
RECEPTACLE COPY-2 606-2	20 A	1	17			0.18			0.18	18	1	20 A	RECEPTACLE
RECEPTACLE ROOM 649-2,...	20 A	1	19	0.72			0.18			20	1	20 A	RECEPTACLE
RECEPTACLE FACULTY...	20 A	1	21		0.72			0.72		22	1	20 A	RECEPTACLE ROOM 610-2,...
RECEPTACLE CORRIDOR-2...	20 A	1	23			0.72			0.72	24	1	20 A	RECEPTACLE FACULTY...
RECEPTACLE TOILET-2 602-2	20 A	1	25	0.54			0.00			26	1	20 A	SPARE
WATER COOLER 601A-2	20 A	1	27		0.18			0.00		28	1	20 A	SPARE
TRAP PRIMER	20 A	1	29			0.04			0.00	30	1	20 A	SPARE
SPARE	20 A	1	31	0.00			0.00			32	1	20 A	SPARE
SPARE	20 A	1	33		0.00			0.00		34	1	20 A	SPARE
SPARE	20 A	1	35			0.00			0.00	36	1	20 A	SPARE
SPARE	20 A	1	37	0.00			0.00			38	1	20 A	SPARE
SPARE	20 A	1	39		0.00			0.00		40	1	20 A	SPARE
SPARE	20 A	1	41			0.00			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 3.84 | 4.14 | 3.42 MAX CONNECTED PHASE 35 A
PHASE SUBTOTAL (AMPS): 33 | 35 | 28

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	8.32	100% FIRST 10KVA 50% OTHER	8.32
TOTALS	11.40		11.40

NOTES
1. PANEL IS PROTECTED BY 100A UPSTREAM OCPD.

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 6NLP2A **LOCATION** ELECTRICAL-1 614-1 **FLOOR** LEVEL 06
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** 6NLD1
MAIN TYPE MLO **BUS RATING** 225 A **FAULT CURRENT RATING** 10K AIC
MAIN RATING 225 A **MOUNTING** SURFACE **FAULT...** 5.7 K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT A	LEFT B	LEFT C	RIGHT A	RIGHT B	RIGHT C	CKT NO	POLES	BRKR AMP	DESCRIPTION
VRF	20 A	2	1	0.07						2			
			3		0.07					4			
UH 16-6	20 A	1	5			0.03			0.03	6	1	20 A	UH 16-5
UH 16-4	20 A	1	7	0.03			0.03			8	1	20 A	UH 16-3
UH 16-2	20 A	1	9		0.03			0.03		10	1	20 A	UH 16-1
UH 16-17	20 A	1	11			0.03			0.03	12	1	20 A	UH 16-16
UH 16-15	20 A	1	13	0.03			0.03			14	1	20 A	UH 16-14
UH 16-13	20 A	1	15		0.03			1.08		16	1	20 A	RECEPTACLE POST...
BAS PANEL LEVEL 6	20 A	1	17			0.50			0.50	18	1	20 A	WORKSTATION 632
RECEPTACLE ROOM...	20 A	1	19	0.72			0.50			20	1	20 A	WORKSTATION 632
RECEPTACLE FACULTY...	20 A	1	21		0.72			0.50		22	1	20 A	WORKSTATION 632
RECEPTACLE FACULTY...	20 A	1	23			0.72			0.50	24	1	20 A	WORKSTATION 632
RECEPTACLE FACULTY...	20 A	1	25	0.72			0.50			26	1	20 A	WORKSTATION 632
RECEPTACLE POST...	20 A	1	27		1.08			0.50		28	1	20 A	WORKSTATION 632
RECEPTACLE POST...	20 A	1	29			1.08				30			
RECEPTACLE POST...	20 A	1	31	1.08			0.00			32	--	--	SPACE
RECEPTACLE POST...	20 A	1	33		1.08			0.00		34	--	--	SPACE
SPACE	--	--	35			0.00			0.00	36	--	--	SPACE
SPACE	--	--	37	0.00			0.00			38	--	--	SPACE
SPACE	--	--	39		0.00			0.00		40	--	--	SPACE
SPACE	--	--	41			0.00			0.00	42	--	--	SPACE

PHASE SUBTOTALS (KVA): 3.69 | 5.11 | 3.40 MAX CONNECTED PHASE 43 A
PHASE SUBTOTAL (AMPS): 31 | 43 | 28

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR	0.00	125% LARGEST 100% OTHER	0.00
RECEPTACLE	8.28	100% FIRST 10KVA 50% OTHER	8.28
TOTALS	12.20		12.20

NOTES
1. NOT USED.
2. PANEL IS PROTECTED BY 100A UPSTREAM OCPD.

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 6NLP1B **LOCATION** ELECTRICAL-1 628-1 **FLOOR** LEVEL 06
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** 6NLD2
MAIN TYPE MLO **BUS RATING** 225 A **FAULT CURRENT RATING** 10K AIC
MAIN RATING 225 A **MOUNTING** SURFACE **FAULT...** 5.7 K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT A	LEFT B	LEFT C	RIGHT A	RIGHT B	RIGHT C	CKT NO	POLES	BRKR AMP	DESCRIPTION
REC RM 628	20 A	1	1	0.18			0.50			2	1	20 A	NAC RM 628
MOTORIZED SHADES	20 A	1	3		0.96			0.50		4	1	20 A	WORKSTATIONS 632
RECEPTACLE POST...	20 A	1	5			0.72			0.50	6	1	20 A	WORKSTATIONS 632
RECEPTACLE POST...	20 A	1	7	0.54			0.50			8	1	20 A	WORKSTATIONS 632
RECEPTACLE POST...	20 A	1	9		0.72			0.50		10	1	20 A	WORKSTATIONS 632
RECEPTACLE POST...	20 A	1	11			1.08			0.50	12	1	20 A	WORKSTATIONS 632
RECEPTACLE FACULTY...	20 A	1	13	1.08			0.50			14	1	20 A	WORKSTATIONS 632
RECEPTACLE OFFICE-2...	20 A	1	15		0.72			0.18		16	1	20 A	POWER COLLABORATIO...
RECEPTACLE COPY-2...	20 A	1	17			0.18			0.00	18	1	20 A	SPARE
RECEPTACLE...	20 A	1	19	0.54			0.00			20	1	20 A	SPARE
RECEPTACLE ROOM-53...	20 A	1	21		0.90			0.00		22	1	20 A	SPARE
RECEPTACLE OFFICE-2...	20 A	1	23			0.72			0.00	24	1	20 A	SPARE
RECEPTACLE FACULTY...	20 A	1	25	0.36			0.00			26	1	20 A	SPARE
RECEPTACLE OFFICE-2...	20 A	1	27		1.08			0.00		28	1	20 A	SPARE
RECEPTACLE POST...	20 A	1	29			1.08			0.00	30	1	20 A	SPARE
RECEPTACLE POST...	20 A	1	31	1.08			0.00			32	1	20 A	SPARE
SPARE	20 A	1	33		0.00			0.00		34	1	20 A	SPARE
SPARE	20 A	1	35			0.00			0.00	36	1	20 A	SPARE
SPARE	20 A	1	37	0.00			0.00			38	1	20 A	SPARE
SPARE	20 A	1	39		0.00			0.00		40	1	20 A	SPARE
SPARE	20 A	1	41			0.00			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 5.28 | 5.56 | 4.78 MAX CONNECTED PHASE 47 A
PHASE SUBTOTAL (AMPS): 45 | 47 | 40

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	10.98	100% FIRST 10KVA 50% OTHER	10.49
TOTALS	15.62		15.13

NOTES
1. PANEL IS PROTECTED BY 100A UPSTREAM OCPD.

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 6NLP2B **LOCATION** ELECTRICAL-1 628-1 **FLOOR** LEVEL 06
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** 6NLD2
MAIN TYPE MLO **BUS RATING** 225 A **FAULT CURRENT RATING** 10K AIC
MAIN RATING 225 A **MOUNTING** SURFACE **FAULT...** 5.7 K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT A	LEFT B	LEFT C	RIGHT A	RIGHT B	RIGHT C	CKT NO	POLES	BRKR AMP	DESCRIPTION
VRF	20 A	2	1	0.07			0.07			2	2	20 A	VRF
			3		0.07			0.07		4			
UH 16-9	20 A	1	5			0.03			0.03	6	1	20 A	UH 16-7
UH 16-11	20 A	1	7	0.03			0.03			8	1	20 A	UH 16-8
UH 16-12	20 A	1	9		0.03			0.03		10	1	20 A	UH 16-10
RECEPTACLE ROOM-53...	20 A	1	11			1.08			0.50	12	1	20 A	WORKSTATIONS 632
RECEPTACLE ROOM...	20 A	1	13	0.72			0.50			14	1	20 A	WORKSTATIONS 632
RECEPTACLE OFFICE-2...	20 A	1	15		0.72			0.50		16	1	20 A	WORKSTATIONS 632
RECEPTACLE OFFICE-2...	20 A	1	17			1.08			0.50	18	1	20 A	WORKSTATIONS 632
RECEPTACLE FACULTY...	20 A	1	19	0.72			0.50			20	1	20 A	WORKSTATIONS 632
RECEPTACLE POST...	20 A	1	21		1.08			0.50		22	1	20 A	WORKSTATIONS 632
RECEPTACLE POST...	20 A	1	23			1.08			0.72	24	1	20 A	RECEPTACLE ROOM...
RECEPTACLE ROOM...	20 A	1	25	0.72			0.72			26	1	20 A	RECEPTACLE FACULTY...
RECEPTACLE FACULTY...	20 A	1	27		0.72			0.72		28	1	20 A	RECEPTACLE ROOM...
RECEPTACLE ROOM...	20 A	1	29			0.72			0.72	30	1	20 A	RECEPTACLE FACULTY...
RECEPTACLE ROOM...	20 A	1	31	0.72			0.00			32	1	20 A	SPARE
RECEPTACLE OFFICE-2...	20 A	1	33		0.72			0.00		34	1	20 A	SPARE
RECEPTACLE FACULTY...	20 A	1	35			0.72			0.00	36	1	20 A	SPARE
RECEPTACLE POST...	20 A	1	37	1.08			0.00			38	1	20 A	SPARE
RECEPTACLE POST...	20 A	1	39		1.08			0.00		40	1	20 A	SPARE
SPARE	20 A	1	41			0.00			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 5.87 | 6.23 | 7.17 MAX CONNECTED PHASE 60 A
PHASE SUBTOTAL (AMPS): 49 | 52 | 60

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR	0.00	125% LARGEST 100% OTHER	0.00
RECEPTACLE	15.84	100% FIRST 10KVA 50% OTHER	12.92
TOTALS	19.28		16.36

NOTES
1. NOT USED.
2. PANEL IS PROTECTED BY A 100A UPSTREAM OCPD.

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION BLLP4 **LOCATION** CORRIDOR-1 00N2-1 **FLOOR** LOWER LEVEL
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** BLLD1
MAIN TYPE MCB **BUS RATING** 225 A **FAULT CURRENT RATING** 10K AIC
MAIN RATING 125 A **MOUNTING** RECESSED **FAULT...** 1.9 K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT A	LEFT B	LEFT C	RIGHT A	RIGHT B	RIGHT C	CKT NO	POLES	BRKR AMP	DESCRIPTION
REC.	20 A	1	1	0.90			0.90			2	1	20 A	TG
RECEPTACLE	20 A	1	3		0.90			0.90		4	1	20 A	REC. CORRIDOR
RECEPTACLE	20 A	1	5			0.90			0.90	6	1	20 A	RECEPTACLE CORRIDOR
RECEPTACLE	20 A	1	7	0.72			0.90			8	1	20 A	RECEPTACLE
RECEPTACLE	20 A	1	9		0.72			0.72		10	1	20 A	RECEPTACLES RM.082C
REC. RM 076A	20 A	1	11			0.54			0.90	12	1	20 A	RECEPTACLE
REC. REF RM.076A	20 A	1	13	0.50						14			
REC. REF RM.076A	20 A	1	15		0.50					16			
RACEWAY RM. 076A	20 A	1	17			1.08			0.54	18	1	20 A	RECEPTACLE
RACEWAY RM. 076	20 A	1	19	0.90			0.72			20	1	20 A	RECEPTACLE
RACEWAY RM. 076	20 A	1	21		0.90			0.60		22	1	20 A	REC. REF RM.086A
RACEWAY RM. 076	20 A	1	23			0.90			0.60	24	1	20 A	REC. FREEZER RM.086A
REC. REF RM.076	20 A	1	25	0.18			1.80			26	1	20 A	INCUBATOR RM. 086A
RECEPTACLE	20 A	1	27		1.08			0.90		28	1	20 A	RACEWAY RM.086A
RECEPTACLE	20 A	1	29			1.08			1.08	30	1	20 A	RECEPTACLE
RECEPTACLE	20 A	1	31	0.90			0.90			32	1	20 A	RECEPTACLE
SPACE	--	--	33		0.00			0.90		34	1	20 A	RECEPTACLE
SPACE	--	--	35			0.00			0.00	36	--	--	SPACE
SPACE	--	--	37	0.00			0.00			38	--	--	SPACE
SPACE	--	--	39		0.00			0.00		40	--	--	SPACE
SPACE	--	--	41			0.00			0.00	42	--	--	SPACE

PHASE SUBTOTALS (KVA): 9.32 | 8.12 | 8.52 MAX CONNECTED PHASE 78 A
PHASE SUBTOTAL (AMPS): 78 | 68 | 72

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	25.96	100% FIRST 10KVA 50% OTHER	17.98
TOTALS	25.96		17.98

NOTES

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION BCLP4 **LOCATION** CORRIDOR-1 00N2-1 **FLOOR** LOWER LEVEL
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** BCLD1
MAIN TYPE MCB **BUS RATING** 100 A **FAULT CURRENT RATING** 22K AIC
MAIN RATING 100 A **MOUNTING** RECESSED **FAULT...** 5.7 K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT A	LEFT B	LEFT C	RIGHT A	RIGHT B	RIGHT C	CKT NO	POLES	BRKR AMP	DESCRIPTION
REC. FUM HOOD RM.076A	20 A	1	1	0.25			0.50			2	2	30 A	POWER IMAGING 082C
REC. FUM HOOD RM.076A	20 A	1	3		0.25			0.50		4			
REC. ULTRASOUND...	20 A	1	5			0.60			0.50	6	1	20 A	REC. ZEISS PAL...
REC. ULTRASOUND...	20 A	1	7	0.60			0.75			8	2	30 A	POWER IMAGING 082B
REC. ULTRASOUND RM....	20 A	1	9		0.60			0.75		10			
REC. ULTRASOUND...	20 A	1	11			0.60			1.25	12	2	30 A	POWER IMAGING 082A
REC.	20 A	1	13	0.72			1.25			14			
REC.	20 A	1	15		0.72			1.25		16	2	30 A	POWER IMAGING 088D
REC. MICRO CT RM. 080G	20 A	1	17			0.50			1.25	18			
POWER MICRO-CT 080G	30 A	2	19	1.15			0.18			20	1	20 A	RECEPTACLE SURGERY...
			21		1.15			0.36		22	1	20 A	RECEPTACLE SURGERY...
REC. NIKON MICROSCO...	20 A	1	23			0.50			0.36	24	1	20 A	RECEPTACLE
RECEPTACLE IMAGING...	20 A	1	25	0.18			0.72			26	1	20 A	REC.
REC. CRYOTOME RM.088D	20 A	1	27		1.40			0.36		28	1	20 A	REC. 086K1
REC. TISSUE CLEARING...	20 A	1	29			0.31			0.00	30	--	--	SPACE
REC. AXIOSCAN...	20 A	1	31	0.26			0.00			32	--	--	SPACE
REC. ZEISS MICROSCOP...	20 A	1	33		0.30			0.00		34	--	--	SPACE
REC. VIBRATOME...	20 A	1	35			0.18			0.00	36	--	--	SPACE
REC. OLYMPUS...	20 A	1	37	0.50			0.00			38	--	--	SPACE
SPACE	--	--	39		0.00			0.00		40	--	--	SPACE
SPACE	--	--	41			0.00			0.00	42	--	--	SPACE

PHASE SUBTOTALS (KVA): 7.06 | 7.64 | 6.05 MAX CONNECTED PHASE 65 A
PHASE SUBTOTAL (AMPS): 60 | 65 | 50

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	10.95	100% FIRST 10KVA 50% OTHER	10.48
TOTALS	20.75		20.28

NOTES

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION BLLP5 **LOCATION** CORRIDOR-1 00N2-1 **FLOOR** LOWER LEVEL
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** BLLD1
MAIN TYPE MCB **BUS RATING** 225 A **FAULT CURRENT RATING** 10K AIC
MAIN RATING 125 A **MOUNTING** RECESSED **FAULT...** 2.2 K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT A	LEFT B	LEFT C	RIGHT A	RIGHT B	RIGHT C	CKT NO	POLES	BRKR AMP	DESCRIPTION
REC-RESEARCH LAB 19 085	20 A	1	1	0.77			0.72			2	1	20 A	REC. OFFICE 088E&088F
REC-RESEARCH LAB 23 087N	20 A	1	3		0.72			1.08		4	1	20 A	REC. OFFICE 088E&088F
REC-PROCEDURE 12 087M	20 A	1	5			1.08			1.08	6	1	20 A	REC. RM.088
PROCEDURE LIGHT 12 087M	20 A	1	7	0.18			1.08			8	1	20 A	REC. RM.088B
REC-RESEARCH LAB 22 087L	20 A	1	9		0.72			1.08		10	1	20 A	REC. RM 088B
REC-RESEARCH LAB 21 087K	20 A	1	11			1.26			0.90	12	1	20 A	REC. RMS088
REC-PROCEDURE 11 087J	20 A	1	13	1.26			0.54			14	1	20 A	REC. RM 088
REC-RESEARCH LAB 24 087G	20 A	1	15		0.72			0.72		16	1	20 A	REC. RM088D
PROCEDURE LIGHT 11 087J	20 A	1	17			0.18			0.54	18	1	20 A	RECEPTACLE STORAGE...
REC-PROCEDURE 13 087F	20 A	1	19	1.08			0.36			20	1	20 A	RECEPTACLE WET LAB...
PROCEDURE LIGHT 13 087F	20 A	1	21		0.18			0.00		22	1	20 A	SPARE
REC-RESEARCH LAB 25 087E	20 A	1	23			0.72			0.00	24	--	--	SPACE
REC-RESEARCH LAB 26 087D	20 A	1	25	0.72			0.00			26	--	--	SPACE
REC-PROCEDURE 14 087C	20 A	1	27		1.08			0.00		28	--	--	SPACE
POWER PROCEDURE 14 087C	20 A	1	29			0.18			0.00	30	--	--	SPACE
REC-RESEARCH LAB 27 087B	20 A	1	31	0.90			0.00			32	--	--	SPACE
ISO. PROCEDURE LIGHT 087A6	20 A	1	33		0.18			0.00		34	--	--	SPACE
SPARE	20 A	1	35			0.00			0.00	36	--	--	SPACE
SPARE	20 A	1	37	0.00			0.00			38	--	--	SPACE
SPARE	20 A	1	39		0.00			0.00		40	--	--	SPACE
SPARE	20 A	1	41			0.00			0.00	42	--	--	SPACE

PHASE SUBTOTALS (KVA): 7.61 | 6.48 | 5.94 MAX CONNECTED PHASE 64 A
PHASE SUBTOTAL (AMPS): 64 | 55 | 50

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	19.08	100% FIRST 10KVA 50% OTHER	14.54
TOTALS	20.03		15.49

NOTES

(EXISTING) PANELBOARD SCHEDULE

PANEL DESIGNATION 2NLP2A **LOCATION** ELECTRICAL 214 **FLOOR** LEVEL 01
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** 2NLD1
MAIN TYPE MLO **BUS RATING** 225 A **FAULT CURRENT RATING** 10K AIC
MAIN RATING 225 A **MOUNTING** SURFACE **FAULT...** 5.8 K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT A	LEFT B	LEFT C	RIGHT A	RIGHT B	RIGHT C	CKT NO	POLES	BRKR AMP	DESCRIPTION
OFFICE SWITCHED REC	20 A	1	1	0.72			0.72			2	1	20 A	OFFICE WORKSTATIONS
REC CONFERENCE 215	20 A	1	3		1.04			0.18		4	1	20 A	FPM CONF 215
REC LOBBY 201	20 A	1	5			0.54			0.72	6	1	20 A	OFFICE WORKSTATIONS
OFFICE SWITCHED REC	20 A	1	7	0.72			0.72			8	1	20 A	REC BREAK AREA
MICROWAVE	20 A	1	9		0.18			0.72		10	1	20 A	REC COLLABORATION 243
FPM COLLABORATION 243	20 A	1	11			0.18			0.18	12	1	20 A	COFFEE MAKER
MICROWAVE	20 A	1	13	0.18			1.00			14	1	20 A	REFRIGERATOR
REFRIGERATOR	20 A	1	15		1.00			0.18		16	1	20 A	MICROWAVE
MICROWAVE	20 A	1	17			0.18			0.36	18	1	20 A	GENERAL RECEPTACLES
MOTORIZED SHADES	20 A	1	19	0.48			0.18			20	1	20 A	REC CORRIDOR
MOTORIZED SHADES	20 A	1	21		0.48			0.48		22	1	20 A	MOTORIZED SHADES
wt	20 A	1	23			0.48			0.48	24	1	20 A	MOTORIZED SHADES
MOTORIZED SHADES	20 A	1	25	0.48			0.36			26	1	20 A	AV RACK
RECEPTACLE	20 A	1	27		0.90			1.00		28	1	20 A	POWER
SPARE	20 A	1	29			0.00			0.90	30	1	20 A	RECEPTACLE
SPARE	20 A	1	31	0.00			0.96			32	1	20 A	POWER CORRIDOR 247
SPARE	20 A	1	33		0.00			0.36		34	1	20 A	POWER CORRIDOR 247
SPARE	20 A	1	35			0.00			0.50	36	1	20 A	POWER
SPACE	--	--	37	0.00			0.50			38	1	20 A	POWER
SPACE	--	--	39		0.00			0.90		40	1	20 A	RECEPTACLE
SPACE	--	--	41			0.00			1.00	42	1	20 A	POWER

PHASE SUBTOTALS (KVA): 7.02 | 7.42 | 5.52 MAX CONNECTED PHASE 64 A
PHASE SUBTOTAL (AMPS): 60 | 64 | 46

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	11.90	100% FIRST 10KVA 50% OTHER	10.95
TOTALS	19.96		19.01

NOTES
1. NOT USED.
2. PANEL IS PROTECTED BY 100A UPSTREAM OCPD.

PANELBOARD SCHEDULE

PANEL DESIGNATION 1NLP3A **LOCATION** CONTROL ROOM 150A **FLOOR** LEVEL 01
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** 1NLD1
MAIN TYPE MCB **BUS RATING** 100 A **FAULT CURRENT RATING** 10K AIC
MAIN RATING 100 A **MOUNTING** RECESSED **FAULT...** 5.8 K AIC

REMARKS NEW PANELBOARD

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT A	LEFT B	LEFT C	RIGHT A	RIGHT B	RIGHT C	CKT NO	POLES	BRKR AMP	DESCRIPTION
POWER SHELL SPACE 150	20 A	1	1	1.50			0.00			2	1	20 A	SPARE
POWER SHELL SPACE 150	20 A	1	3		1.50			0.00		4	1	20 A	SPARE
POWER SHELL SPACE 150	20 A	1	5			1.50			0.00	6	1	20 A	SPARE
POWER SHELL SPACE 150	20 A	1	7	1.00			0.00			8	1	20 A	SPARE
POWER SHELL SPACE 150	20 A	1	9		1.50			0.00		10	1	20 A	SPARE
POWER SHELL SPACE 150	20 A	1	11			1.50			0.00	12	1	20 A	SPARE
RECEPTACLE SEMINAR...	20 A	1	13	0.90			0.00			14	1	20 A	SPARE
RECEPTACLE SEMINAR...	20 A	1	15		0.90			0.00		16	1	20 A	SPARE
RECEPTACLE CONTROL...	20 A	1	17			0.36			0.00	18	1	20 A	SPARE
RECEPTACLE CONTROL...	20 A	1	19	0.36			0.00			20	1	20 A	SPARE
POWER SEMINAR 150	20 A	1	21		0.50			0.00		22	1	20 A	SPARE
POWER SEMINAR 150	20 A	1	23			0.50			0.00	24	1	20 A	SPARE
POWER SEMINAR 150	20 A	1	25	0.36			0.00			26	1	20 A	SPARE
SPARE	20 A	1	27		0.00			0.00		28	1	20 A	SPARE
SPARE	20 A	1	29			0.00			0.00	30	1	20 A	SPARE
SPARE	20 A	1	31	0.00			0.00			32	1	20 A	SPARE
SPARE	20 A	1	33		0.00			0.00		34	1	20 A	SPARE
SPARE	20 A	1	35			0.00			0.00	36	1	20 A	SPARE
SPARE	20 A	1	37	0.00			0.00			38	1	20 A	SPARE
SPARE	20 A	1	39		0.00			0.00		40	1	20 A	SPARE
SPARE	20 A	1	41			0.00			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 4.12 | 4.40 | 3.86 MAX CONNECTED PHASE 37 A
PHASE SUBTOTAL (AMPS): 35 | 37 | 32

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	2.52	100% FIRST 10KVA 50% OTHER	2.52
TOTALS	12.38		12.38

NOTES
1. PANEL IS PROTECTED BY 100A UPSTREAM OCPD.

GENERAL NOTES

1. REFER TO SINGLE LINES FOR INDICATION OF NEW AND EXISTING PANELBOARDS.
2. AVAILABLE FAULT CURRENT VALUES ARE PRELIMINARY VALUES THAT WERE CALCULATED USING ESTIMATED INPUT DATA (FEEDER LENGTHS, TRANSFORMER IMPEDANCES, ETC). PROVIDE FINAL AVAILABLE FAULT CURRENT VALUES CALCULATED USING AS-BUILT INPUT DATA.

6NLP1A	6NLP2A	6NLP1B
6NLP2B	BLLP4	BCLP4
BLLP5	2NLP2A	1NLP3A

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: 15576

STATE OF KENTUCKY ANDREW SCHAFER 30363 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
ELECTRICAL PHASE 4 FO PANEL SCHEDULES

SHEET NO.
EF-960

1/8/2021 10:31:09 AM

PANELBOARD SCHEDULE

PANEL DESIGNATION 6LLP1A **LOCATION** LINEAR EQUIP ROOM 651C **FLOOR** LEVEL 06
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** 6LLD1
MAIN TYPE MCB **BUS RATING** 100 A **FAULT CURRENT RATING** 22K AIC
MAIN RATING 60 A **MOUNTING** Recessed **FAULT...** 5.7K AIC

REMARKS

LEFT SIDE, KVA **RIGHT SIDE, KVA**

DESCRIPTION	BRKR AMP, POLES		CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
RECEPTACLE FUME...	20 A	1	1	0.54			0.50			2	1	20 A	POWER LAB...
RECEPTACLE FUME...	20 A	1	3		0.18			0.50		4	1	20 A	POWER LAB...
RECEPTACLE FUME...	20 A	1	5			0.72			0.50	6	1	20 A	POWER LAB...
RECEPTACLE FUME...	20 A	1	7	0.72			0.50			8	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	9		0.72			0.50		10	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	11			0.72			0.50	12	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	13	0.54			0.50			14	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	15		0.18			0.50		16	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	17			0.54			0.50	18	1	20 A	POWER LAB...
POWER PROCEDURE...	20 A	1	19	0.41			0.50			20	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	21		0.72			0.00		22	1	20 A	SPARE
RECEPTACLE PROCEDURE ROOM-2...	20 A	2	23			0.09			0.00	24	1	20 A	SPARE
			25	0.09			0.00			26	1	20 A	SPARE
POWER PROCEDURE...	20 A	1	27		0.41			0.00		28	1	20 A	SPARE
POWER PROCEDURE...	20 A	1	29			0.41			0.00	30	1	20 A	SPARE
POWER LAB...	20 A	1	31	0.50			0.00			32	1	20 A	SPARE
POWER LAB...	20 A	1	33		0.50			0.00		34	1	20 A	SPARE
POWER LAB...	20 A	1	35			0.50			0.00	36	1	20 A	SPARE
POWER LAB...	20 A	1	37	0.50			0.00			38	1	20 A	SPARE
POWER LAB...	20 A	1	39		0.50			0.00		40	1	20 A	SPARE
POWER LAB...	20 A	1	41			0.50			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 5.30 | 4.71 | 4.98 MAX CONNECTED PHASE 45 A
PHASE SUBTOTAL (AMPS): 45 | 39 | 42

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	5.76	100% FIRST 10KVA 50% OTHER	5.76
TOTALS	14.99		14.99

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION 6LLP2A **LOCATION** PROCEDURE ROOM 651D **FLOOR** LEVEL 06
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** 6LLD1
MAIN TYPE MCB **BUS RATING** 100 A **FAULT CURRENT RATING** 22K AIC
MAIN RATING 60 A **MOUNTING** Recessed **FAULT...** 3.7K AIC

REMARKS

LEFT SIDE, KVA **RIGHT SIDE, KVA**

DESCRIPTION	BRKR AMP, POLES		CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
RECEPTACLE...	20 A	1	1	0.72			0.50			2	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	3		0.72			0.50		4	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	5			0.54			0.50	6	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	7	0.18			0.50			8	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	9		0.54			0.50		10	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	11			0.18			0.50	12	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	13	0.72			0.50			14	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	15		0.72			0.50		16	1	20 A	POWER LAB...
POWER LAB...	20 A	1	17			0.50			0.50	18	1	20 A	POWER LAB...
POWER LAB...	20 A	1	19	0.50			0.50			20	1	20 A	POWER LAB...
POWER LAB...	20 A	1	21		0.50			0.50		22	1	20 A	POWER LAB...
POWER LAB...	20 A	1	23			0.50			0.50	24	1	20 A	POWER LAB...
POWER LAB...	20 A	1	25	0.50			0.50			26	1	20 A	POWER LAB...
POWER LAB...	20 A	1	27		0.50			0.50		28	1	20 A	POWER LAB...
POWER LAB...	20 A	1	29			0.50			0.50	30	1	20 A	POWER LAB...
POWER LAB...	20 A	1	31	0.50			0.50			32	1	20 A	POWER LAB...
RECEPTACLE LAB...	20 A	1	33		0.18			0.50		34	1	20 A	POWER LAB...
RECEPTACLE LAB...	20 A	1	35			0.18			0.50	36	1	20 A	POWER LAB...
RECEPTACLE LAB...	20 A	1	37	0.18			0.50			38	1	20 A	POWER LAB...
RECEPTACLE LAB...	20 A	1	39		0.18			0.00		40	1	20 A	SPARE
POWER LAB...	20 A	1	41			0.50			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 6.80 | 6.34 | 5.90 MAX CONNECTED PHASE 57 A
PHASE SUBTOTAL (AMPS): 57 | 53 | 49

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	5.04	100% FIRST 10KVA 50% OTHER	5.04
TOTALS	19.04		19.04

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION 6LLP3A **LOCATION** PROCEDURE ROOM 651G **FLOOR** LEVEL 06
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** 6LLD1
MAIN TYPE MCB **BUS RATING** 100 A **FAULT CURRENT RATING** 22K AIC
MAIN RATING 60 A **MOUNTING** Recessed **FAULT...** 3.7K AIC

REMARKS

LEFT SIDE, KVA **RIGHT SIDE, KVA**

DESCRIPTION	BRKR AMP, POLES		CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
RECEPTACLE...	20 A	1	1	0.72			0.50			2	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	3		0.72			0.18		4	1	20 A	RECEPTACLE LAB...
RECEPTACLE...	20 A	1	5			0.54			0.18	6	1	20 A	RECEPTACLE LAB...
RECEPTACLE...	20 A	1	7	0.18			0.18			8	1	20 A	RECEPTACLE LAB...
RECEPTACLE...	20 A	1	9		0.54			0.18		10	1	20 A	RECEPTACLE LAB...
RECEPTACLE...	20 A	1	11			0.18			0.00	12	1	20 A	SPARE
RECEPTACLE PROCEDURE ROOM-2...	20 A	2	13	1.25			0.00			14	1	20 A	SPARE
			15		1.25			0.00		16	1	20 A	SPARE
RECEPTACLE...	20 A	1	17			0.72			0.00	18	1	20 A	SPARE
RECEPTACLE PROCEDURE ROOM-2...	20 A	2	19	1.25			0.00			20	1	20 A	SPARE
			21		1.25			0.00		22	1	20 A	SPARE
RECEPTACLE...	20 A	1	23			0.72			0.00	24	1	20 A	SPARE
RECEPTACLE PROCEDURE ROOM-2...	20 A	2	25	1.25			0.00			26	1	20 A	SPARE
			27		1.25			0.00		28	1	20 A	SPARE
RECEPTACLE...	20 A	1	29			0.72			0.00	30	1	20 A	SPARE
RECEPTACLE...	20 A	1	31	0.72			0.00			32	1	20 A	SPARE
RECEPTACLE...	20 A	1	33		0.54			0.00		34	1	20 A	SPARE
RECEPTACLE...	20 A	1	35			0.18			0.00	36	1	20 A	SPARE
POWER LAB...	20 A	1	37	0.50			0.00			38	1	20 A	SPARE
POWER LAB...	20 A	1	39		0.50			0.00		40	1	20 A	SPARE
POWER LAB...	20 A	1	41			0.50			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 6.54 | 6.40 | 3.74 MAX CONNECTED PHASE 58 A
PHASE SUBTOTAL (AMPS): 58 | 57 | 31

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	14.69	100% FIRST 10KVA 50% OTHER	12.34
TOTALS	16.69		14.34

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION 6LLP1B **LOCATION** LINEAR EQUIP ROOM 652C **FLOOR** LEVEL 06
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** 6LLD2
MAIN TYPE MCB **BUS RATING** 100 A **FAULT CURRENT RATING** 22K AIC
MAIN RATING 60 A **MOUNTING** Recessed **FAULT...** 5.2K AIC

REMARKS

LEFT SIDE, KVA **RIGHT SIDE, KVA**

DESCRIPTION	BRKR AMP, POLES		CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
RECEPTACLE...	20 A	1	1	0.72			0.50			2	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	3		0.72			0.50		4	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	5			0.54			0.50	6	1	20 A	POWER LAB...
RECEPTACLE	20 A	1	7	0.18			0.50			8	1	20 A	POWER LAB...
RECEPTACLE	20 A	1	9		0.18			0.50		10	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	11			0.54			0.00	12	1	20 A	SPARE
RECEPTACLE...	20 A	1	13	0.72			0.00			14	1	20 A	SPARE
RECEPTACLE...	20 A	1	15		0.72			0.00		16	1	20 A	SPARE
RECEPTACLE LAB...	20 A	1	17			0.18			0.00	18	1	20 A	SPARE
RECEPTACLE LAB...	20 A	1	19	0.18			0.00			20	1	20 A	SPARE
POWER LAB...	20 A	1	21		0.50			0.00		22	1	20 A	SPARE
POWER LAB...	20 A	1	23			0.50			0.00	24	1	20 A	SPARE
POWER LAB...	20 A	1	25	0.50			0.00			26	1	20 A	SPARE
POWER LAB...	20 A	1	27		0.50			0.00		28	1	20 A	SPARE
POWER LAB...	20 A	1	29			0.50			0.00	30	1	20 A	SPARE
POWER LAB...	20 A	1	31	0.50			0.00			32	1	20 A	SPARE
POWER LAB...	20 A	1	33		0.50			0.00		34	1	20 A	SPARE
POWER LAB...	20 A	1	35			0.50			0.00	36	1	20 A	SPARE
POWER LAB...	20 A	1	37	0.50			0.00			38	1	20 A	SPARE
POWER LAB...	20 A	1	39		0.50			0.00		40	1	20 A	SPARE
POWER LAB...	20 A	1	41			0.50			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 4.30 | 4.62 | 3.76 MAX CONNECTED PHASE 39 A
PHASE SUBTOTAL (AMPS): 37 | 39 | 31

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	4.68	100% FIRST 10KVA 50% OTHER	4.68
TOTALS	12.68		12.68

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION 6LLP2B **LOCATION** PROCEDURE ROOM 652D **FLOOR** LEVEL 06
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** 6LLD2
MAIN TYPE MCB **BUS RATING** 100 A **FAULT CURRENT RATING** 22K AIC
MAIN RATING 60 A **MOUNTING** Recessed **FAULT...** 3.4K AIC

REMARKS

LEFT SIDE, KVA **RIGHT SIDE, KVA**

DESCRIPTION	BRKR AMP, POLES		CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
RECEPTACLE...	20 A	1	1	0.72			0.50			2	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	3		1.08			0.50		4	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	5			0.54			0.50	6	1	20 A	POWER LAB...
RECEPTACLE	20 A	1	7	0.18			0.50			8	1	20 A	POWER LAB...
RECEPTACLE	20 A	1	9		0.18			0.50		10	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	11			0.54			0.00	12	1	20 A	SPARE
RECEPTACLE...	20 A	1	13	0.72			0.00			14	1	20 A	SPARE
RECEPTACLE...	20 A	1	15		0.72			0.00		16	1	20 A	SPARE
RECEPTACLE LAB...	20 A	1	17			0.18			0.00	18	1	20 A	SPARE
RECEPTACLE LAB...	20 A	1	19	0.18			0.00			20	1	20 A	SPARE
POWER LAB...	20 A	1	21		0.50			0.00		22	1	20 A	SPARE
POWER LAB...	20 A	1	23			0.50			0.00	24	1	20 A	SPARE
POWER LAB...	20 A	1	25	0.50			0.00			26	1	20 A	SPARE
POWER LAB...	20 A	1	27		0.50			0.00		28	1	20 A	SPARE
POWER LAB...	20 A	1	29			0.50			0.00	30	1	20 A	SPARE
POWER LAB...	20 A	1	31	0.50			0.00			32	1	20 A	SPARE
POWER LAB...	20 A	1	33		0.50			0.00		34	1	20 A	SPARE
POWER LAB...	20 A	1	35			0.50			0.00	36	1	20 A	SPARE
POWER LAB...	20 A	1	37	0.50			0.00			38	1	20 A	SPARE
POWER LAB...	20 A	1	39		0.50			0.00		40	1	20 A	SPARE
POWER LAB...	20 A	1	41			0.50			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 4.30 | 4.98 | 3.76 MAX CONNECTED PHASE 42 A
PHASE SUBTOTAL (AMPS): 37 | 42 | 31

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	5.04	100% FIRST 10KVA 50% OTHER	5.04
TOTALS	13.04		13.04

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION 6LLP3B **LOCATION** PROCEDURE ROOM 652G **FLOOR** LEVEL 06
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** 6LLD2
MAIN TYPE MCB **BUS RATING** 100 A **FAULT CURRENT RATING** 22K AIC
MAIN RATING 60 A **MOUNTING** Recessed **FAULT...** 3.4K AIC

REMARKS

LEFT SIDE, KVA **RIGHT SIDE, KVA**

DESCRIPTION	BRKR AMP, POLES		CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
RECEPTACLE LAB...	20 A	1	1	0.18			0.41			2	1	20 A	POWER FUME HOOD...
RECEPTACLE LAB...	20 A	1	3		0.18			0.41		4	1	20 A	POWER FUME HOOD...
RECEPTACLE LAB...	20 A	1	5			0.18			0.50	6	1	20 A	POWER LAB...
RECEPTACLE LAB...	20 A	1	7	0.18			0.50			8	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	9		0.72			0.50		10	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	11			0.72			0.50	12	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	13	0.54			0.50			14	1	20 A	POWER LAB...
RECEPTACLE	20 A	1	15		0.18			0.50		16	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	17			0.54			0.50	18	1	20 A	POWER LAB...
RECEPTACLE	20 A	1	19	0.18			0.50			20	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	21		0.72			0.50		22	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	23			0.72			0.50	24	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	25	0.72			0.50			26	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	27		0.72			0.50		28	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	29			0.54			0.50	30	1	20 A	POWER LAB...
RECEPTACLE FUME...	20 A	1	31	0.54			0.50			32	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	33		0.18			0.50		34	1	20 A	POWER LAB...
RECEPTACLE FUME HOOD ROOM-2 652K-2	20 A	2	35			0.09			0.50	36	1	20 A	POWER LAB...
			37	0.09			0.00			38	1	20 A	SPARE
RECEPTACLE FUME...	20 A	1	39		0.72			0.00		40	1	20 A	SPARE
POWER FUME HOOD...	20 A	1	41			0.41			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 5.34 | 6.33 | 6.20 MAX CONNECTED PHASE 54 A
PHASE SUBTOTAL (AMPS): 45 | 54 | 53

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	8.64	100% FIRST 10KVA 50% OTHER	8.64
TOTALS	17.87		17.87

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION 6LLP1C **LOCATION** LINEAR EQUIP ROOM 650C **FLOOR** LEVEL 06
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** 6LLD1
MAIN TYPE MCB **BUS RATING** 100 A **FAULT CURRENT RATING** 22K AIC
MAIN RATING 60 A **MOUNTING** Recessed **FAULT...** 3.7K AIC

REMARKS

LEFT SIDE, KVA **RIGHT SIDE, KVA**

DESCRIPTION	BRKR AMP, POLES		CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
RECEPTACLE...	20 A	1	1	0.72			0.50			2	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	3		0.72			0.50		4	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	5			0.54			0.50	6	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	7	0.18			0.50			8	1	20 A	POWER LAB...
POWER PROCEDURE...	20 A	1	9		0.41			0.41		10	1	20 A	HOOD,FUME HOOD ROO...
RECEPTACLE...	20 A	1	11			0.54			0.41	12	1	20 A	HOOD,FUME HOOD ROO...
RECEPTACLE...	20 A	1	13	0.72			0.72			14	1	20 A	RECEPTACLE FUME...
RECEPTACLE PROCEDURE ROOM-2...	20 A	2	15		0.09			0.72		16	1	20 A	RECEPTACLE FUME...
			17			0.09			0.54	18	1	20 A	RECEPTACLE FUME...
POWER LAB...	20 A	1	19	0.50			0.18			20	1	20 A	RECEPTACLE FUME...
POWER LAB...	20 A	1	21		0.50			0.00		22	1	20 A	SPARE
POWER LAB...	20 A	1	23			0.50			0.00	24	1	20 A	SPARE
POWER LAB...	20 A	1	25	0.50			0.00			26	1	20 A	SPARE
POWER LAB...	20 A	1	27		0.50			0.00		28	1	20 A	SPARE
POWER LAB...	20 A	1	29			0.50			0.00	30	1	20 A	SPARE
POWER LAB...	20 A	1	31	0.50			0.00			32	1	20 A	SPARE
POWER LAB...	20 A	1	33		0.50			0.00		34	1	20 A	SPARE
POWER LAB...	20 A	1	35			0.50			0.00	36	1	20 A	SPARE
POWER LAB...	20 A	1	37	0.50			0.00			38	1	20 A	SPARE
POWER LAB...	20 A	1	39		0.50			0.00		40	1	20 A	SPARE
POWER LAB...	20 A	1	41			0.50			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 5.52 | 4.85 | 4.62 MAX CONNECTED PHASE 46 A
PHASE SUBTOTAL (AMPS): 46 | 41 | 39

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	5.76	100% FIRST 10KVA 50% OTHER	5.76
TOTALS	14.99		14.99

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION 6LLP2C **LOCATION** PROCEDURE ROOM 650D **FLOOR** LEVEL 06
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** 6LLD1
MAIN TYPE MCB **BUS RATING** 100 A **FAULT CURRENT RATING** 22K AIC
MAIN RATING 60 A **MOUNTING** Recessed **FAULT...** 3.7K AIC

REMARKS

LEFT SIDE, KVA **RIGHT SIDE, KVA**

DESCRIPTION	BRKR AMP, POLES		CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
REC. PROCEDURE...	20 A	1	1	0.72			0.50			2	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	3		0.72			0.50		4	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	5			0.18			0.50	6	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	7	0.54			0.50			8	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	9		0.54			0.50		10	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	11			0.18			0.50	12	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	13	0.72			0.50			14	1	20 A	POWER LAB...
RECEPTACLE...	20 A	1	15		0.72			0.00		16	1	20 A	SPARE
RECEPTACLE LAB...	20 A	1	17			0.18			0.00	18	1	20 A	SPARE
RECEPTACLE LAB...	20 A	1	19	0.18			0.00			20	1	20 A	SPARE
RECEPTACLE LAB...	20 A	1	21		0.18			0.00		22	1	20 A	SPARE
RECEPTACLE LAB...	20 A	1	23			0.18			0.00	24	1	20 A	SPARE
POWER LAB...	20 A	1	25	0.50			0.00			26	1	20 A	SPARE
POWER LAB...	20 A	1	27		0.50			0.00		28	1	20 A	SPARE
POWER LAB...	20 A	1	29			0.50			0.00	30	1	20 A	SPARE
POWER LAB...	20 A	1	31	0.50			0.00			32	1	20 A	SPARE
POWER LAB...	20 A	1	33		0.50			0.00		34	1	20 A	SPARE
POWER LAB...	20 A	1	35			0.50			0.00	36	1	20 A	SPARE
POWER LAB...	20 A	1	37	0.50			0.00			38	1	20 A	SPARE
POWER LAB...	20 A	1	39		0.50			0.00		40	1	20 A	SPARE
POWER LAB...	20 A	1	41			0.50			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 5.16 | 4.66 | 3.22 MAX CONNECTED PHASE 45 A
PHASE SUBTOTAL (AMPS): 45 | 41 | 27

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	5.04	100% FIRST 10KVA 50% OTHER	5.04
TOTALS	13.04		13.04

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION 6LLP3C **LOCATION** PROCEDURE ROOM 650G **FLOOR** LEVEL 06
VOLTAGE 120/208 Wye 3 **PHASE** 4 **WIRE** **FED FROM** 6LLD1
MAIN TYPE MCB **BUS RATING** 100 A **FAULT CURRENT RATING** 22K AIC
MAIN RATING 60 A **MOUNTING** Recessed **FAULT...** 3.7K AIC

REMARKS

LEFT SIDE, KVA **RIGHT SIDE, KVA**

DESCRIPTION	BRKR AMP, POLES		CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES		DESCRIPTION
RECEPTACLE LAB...	20 A	1	1	0.18			0.72			2	1	20 A	RECEPTACLE...
RECEPTACLE LAB...	20 A	1	3		0.18			0.54		4	1	20 A	RECEPTACLE...
RECEPTACLE LAB...	20 A	1	5			0.18			0.18	6	1	20 A	RECEPTACLE...
RECEPTACLE LAB...	20 A	1	7	0.18			0.18			8	1	20 A	RECEPTACLE...
POWER LAB...	20 A	1	9		0.50			0.54		10	1	20 A	RECEPTACLE...
POWER LAB...	20 A	1	11			0.50			0.72	12	1	20 A	RECEPTACLE...
POWER LAB...	20 A	1	13	0.50			0.72			14	1	20 A	RECEPTACLE...
POWER LAB...	20 A	1	15		0.50			0.72		16	1	20 A	RECEPTACLE...
POWER LAB...	20 A	1	17			0.50			0.72	18	1	20 A	RECEPTACLE...
POWER LAB...	20 A	1	19	0.50			0.54			20	1	20 A	RECEPTACLE...
POWER LAB...	20 A	1	21		0.50			0.18		22	1	20 A	RECEPTACLE...
POWER LAB...	20 A	1	23			0.50			0.00	24	1	20 A	SPARE
POWER LAB...	20 A	1	25	0.50			0.00			26	1	20 A	SPARE
POWER LAB...	20 A	1	27		0.50			0.00		28	1	20 A	SPARE
POWER LAB...	20 A	1	29			0.50			0.00	30	1	20 A	SPARE
POWER LAB...	20 A	1	31	0.50			0.00			32	1	20 A	SPARE
POWER LAB...	20 A	1	33		0.50			0.00		34	1	20 A	SPARE
POWER LAB...	20 A	1	35			0.50			0.00	36	1	20 A	SPARE
POWER LAB...	20 A	1	37	0.50			0.00			38	1	20 A	SPARE
POWER LAB...	20 A	1	39		0.50			0.00		40	1	20 A	SPARE
RECEPTACLE...	20 A	1	41			0.72			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 5.02 | 5.16 | 5.02 MAX CONNECTED PHASE 43 A
PHASE SUBTOTAL (AMPS): 42 | 43 | 42

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	7.20	100% FIRST 10KVA 50% OTHER	7.20
TOTALS	15.20		15.20

NOTES

GENERAL NOTES

1. REFER TO SINGLE LINES FOR INDICATION OF NEW AND EXISTING PANELBOARDS.
2. AVAILABLE FAULT CURRENT VALUES ARE PRELIMINARY VALUES THAT WERE CALCULATED USING ESTIMATED INPUT DATA (FEEDER LENGTHS, TRANSFORMER IMPEDANCES, ETC). PROVIDE FINAL AVAILABLE FAULT CURRENT VALUES CALCULATED USING AS-BUILT INPUT DATA.

6LLP1A	6LLP2A	6LLP3A
6LLP1B	6LLP2B	6LLP3B
6LLP1C	6LLP2B	6LLP3C

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By Author
Checked By Checker
Client Number 514
Project Number 15576

DRAWING
ELECTRICAL PHASE 4 FO NORMAL LAB PANEL SCHEDULES

SHEET NO. EF-974

1/8/2021 10:34:17 AM

PANELBOARD SCHEDULE

PANEL DESIGNATION **6CLP1A** | LOCATION PROCEDURE ROOM 651B | FLOOR LEVEL 06
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM 6CLD2
MAIN TYPE MCB | BUS RATING 100 A | FAULT CURRENT RATING 22K AIC
MAIN RATING 100 A | MOUNTING Recessed | FAULT... 9.8K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	POLES	BRKR AMP	DESCRIPTION
RECEPTACLE LINEAR...	20 A	1	1	0.18			0.00			2	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 651C-2	20 A	2	3		1.25			0.00		4	1	20 A	SPARE
			5			1.25			0.00	6	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	7	0.18			0.00			8	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	9		0.18			0.00		10	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 651C-2	20 A	2	11			1.25			0.00	12	1	20 A	SPARE
			13	1.25			0.00			14	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	15		0.18			0.00		16	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	17			0.18			0.00	18	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	19	0.18			0.00			20	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 651C-2	20 A	2	21		1.25			0.00		22	1	20 A	SPARE
			23			1.25			0.00	24	1	20 A	SPARE
RECEPTACLE...	20 A	1	25	0.72			0.00			26	1	20 A	SPARE
RECEPTACLE...	20 A	1	27		0.36			0.00		28	1	20 A	SPARE
SPARE	20 A	1	29			0.00			0.00	30	1	20 A	SPARE
SPARE	20 A	1	31	0.00			0.00			32	1	20 A	SPARE
SPARE	20 A	1	33		0.00			0.00		34	1	20 A	SPARE
SPARE	20 A	1	35			0.00			0.00	36	1	20 A	SPARE
SPARE	20 A	1	37	0.00			0.00			38	1	20 A	SPARE
SPARE	20 A	1	39		0.00			0.00		40	1	20 A	SPARE
SPARE	20 A	1	41			0.00			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 2.51 | 3.22 | 3.92 — MAX CONNECTED PHASE 34 A
PHASE SUBTOTAL (AMPS): 21 | 28 | 34

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	9.65	100% FIRST 10KVA 50% OTHER	9.65
TOTALS	9.65		9.65

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION **6CLP2A** | LOCATION PROCEDURE ROOM 651E | FLOOR LEVEL 06
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM 6CLD2
MAIN TYPE MCB | BUS RATING 100 A | FAULT CURRENT RATING 22K AIC
MAIN RATING 100 A | MOUNTING Recessed | FAULT... 6.0K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	POLES	BRKR AMP	DESCRIPTION
RECEPTACLE...	20 A	1	1	0.72			0.00			2	1	20 A	SPARE
RECEPTACLE...	20 A	1	3		0.72			0.00		4	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	5			0.18			0.00	6	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 651C-2	20 A	2	7	1.25			0.00			8	1	20 A	SPARE
			9		1.25			0.00		10	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	11			0.18			0.00	12	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	13	0.18			0.00			14	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 651C-2	20 A	2	15		1.25			0.00		16	1	20 A	SPARE
			17			1.25			0.00	18	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	19	0.18			0.00			20	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	21		0.18			0.00		22	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	23			0.18			0.00	24	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 651C-2	20 A	2	25	1.25			0.00			26	1	20 A	SPARE
			27		1.25			0.00		28	1	20 A	SPARE
SPARE	20 A	1	29			0.00			0.00	30	1	20 A	SPARE
SPARE	20 A	1	31	0.00			0.00			32	1	20 A	SPARE
SPARE	20 A	1	33		0.00			0.00		34	1	20 A	SPARE
SPARE	20 A	1	35			0.00			0.00	36	1	20 A	SPARE
SPARE	20 A	1	37	0.00			0.00			38	1	20 A	SPARE
SPARE	20 A	1	39		0.00			0.00		40	1	20 A	SPARE
SPARE	20 A	1	41			0.00			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 3.58 | 4.64 | 1.79 — MAX CONNECTED PHASE 41 A
PHASE SUBTOTAL (AMPS): 32 | 41 | 15

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	10.01	100% FIRST 10KVA 50% OTHER	10.00
TOTALS	10.01		10.00

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION **6CLP3A** | LOCATION PROCEDURE ROOM 651F | FLOOR LEVEL 06
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM 6CLD2
MAIN TYPE MCB | BUS RATING 100 A | FAULT CURRENT RATING 22K AIC
MAIN RATING 100 A | MOUNTING Recessed | FAULT... 6.0K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	POLES	BRKR AMP	DESCRIPTION
RECEPTACLE	20 A	1	1	0.50			1.44			2	1	20 A	RECEPTACLE
POWER	20 A	3	3		1.11			0.07		4	2	20 A	VRF
			5			1.11			0.07	6			
			7	1.11			1.50			8	2	20 A	RECEPTACLE
RECEPTACLE...	20 A	1	9		0.72			1.50		10			
RECEPTACLE...	20 A	1	11			0.72			0.00	12	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 651H-2	20 A	2	13	1.25			0.00			14	1	20 A	SPARE
			15		1.25			0.00		16	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	17			0.18			0.00	18	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	19	0.18			0.00			20	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	21		0.18			0.00		22	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 651H-2	20 A	2	23			1.25			0.00	24	1	20 A	SPARE
			25	1.25			0.00			26	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	27		0.18			0.00		28	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	29			0.18			0.00	30	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 651H-2	20 A	2	31	1.25			0.00			32	1	20 A	SPARE
			33		1.25			0.00		34	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	35			0.18			0.00	36	1	20 A	SPARE
SPARE	20 A	1	37	0.00			0.00			38	1	20 A	SPARE
SPARE	20 A	1	39		0.00			0.00		40	1	20 A	SPARE
SPARE	20 A	1	41			0.00			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 8.47 | 6.26 | 3.69 — MAX CONNECTED PHASE 74 A
PHASE SUBTOTAL (AMPS): 74 | 55 | 31

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	14.95	100% FIRST 10KVA 50% OTHER	12.47
TOTALS	18.42		15.95

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION **6CLP4A** | LOCATION PROCEDURE ROOM 651J | FLOOR LEVEL 06
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM 6CLD2
MAIN TYPE MCB | BUS RATING 100 A | FAULT CURRENT RATING 22K AIC
MAIN RATING 100 A | MOUNTING Recessed | FAULT... 6.0K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	POLES	BRKR AMP	DESCRIPTION
REC.STERILIZER ALCOVE	20 A	1	1	0.50			0.00			2	1	20 A	SPARE
POWER	20 A	3	3		1.11			0.00		4	1	20 A	SPARE
			5			1.11			0.00	6	1	20 A	SPARE
			7	1.11			0.00			8	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	9		2.50			0.00		10	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	11			1.00			0.00	12	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	13	0.18			0.00			14	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	15		0.18			0.00		16	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 651H-2	20 A	2	17			1.25			0.00	18	1	20 A	SPARE
			19	1.25			0.00			20	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	21		0.18			0.00		22	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	23			0.18			0.00	24	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 651H-2	20 A	2	25	1.25			0.00			26	1	20 A	SPARE
			27		1.25			0.00		28	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	29			0.18			0.00	30	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	31	0.65			0.00			32	1	20 A	SPARE
RECEPTACLE...	20 A	1	33		0.72			0.00		34	1	20 A	SPARE
RECEPTACLE FUME...	20 A	1	35			0.72			0.00	36	1	20 A	SPARE
SPARE	20 A	1	37	0.00			0.00			38	1	20 A	SPARE
SPARE	20 A	1	39		0.00			0.00		40	1	20 A	SPARE
SPARE	20 A	1	41			0.00			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 4.94 | 5.93 | 4.44 — MAX CONNECTED PHASE 50 A
PHASE SUBTOTAL (AMPS): 42 | 50 | 37

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR	0.00	125% LARGEST 100% OTHER	0.00
RECEPTACLE	11.98	100% FIRST 10KVA 50% OTHER	10.99
TOTALS	15.31		14.32

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION **6CLP1B** | LOCATION PROCEDURE ROOM 652B | FLOOR LEVEL 06
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM 6CLD3
MAIN TYPE MCB | BUS RATING 100 A | FAULT CURRENT RATING 22K AIC
MAIN RATING 100 A | MOUNTING Recessed | FAULT... 7.0K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	POLES	BRKR AMP	DESCRIPTION
RECEPTACLE LINEAR...	20 A	1	1	0.18			0.00			2	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 652C-2	20 A	2	3		0.09			0.00		4	1	20 A	SPARE
			5			0.09			0.00	6	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	7	0.18			0.00			8	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	9		0.18			0.00		10	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 652C-2	20 A	2	11			0.09			0.00	12	1	20 A	SPARE
			13	0.09			0.00			14	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	15		0.18			0.00		16	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	17			0.18			0.00	18	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	19	0.18			0.00			20	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 652C-2	20 A	2	21		0.09			0.00		22	1	20 A	SPARE
			23			0.09			0.00	24	1	20 A	SPARE
RECEPTACLE...	20 A	1	25	0.72			0.00			26	1	20 A	SPARE
RECEPTACLE...	20 A	1	27		0.72			0.00		28	1	20 A	SPARE
SPARE	20 A	1	29			0.00			0.00	30	1	20 A	SPARE
SPARE	20 A	1	31	0.00			0.00			32	1	20 A	SPARE
SPARE	20 A	1	33		0.00			0.00		34	1	20 A	SPARE
SPARE	20 A	1	35			0.00			0.00	36	1	20 A	SPARE
SPARE	20 A	1	37	0.00			0.00			38	1	20 A	SPARE
SPARE	20 A	1	39		0.00			0.00		40	1	20 A	SPARE
SPARE	20 A	1	41			0.00			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 1.35 | 1.26 | 0.45 — MAX CONNECTED PHASE 12 A
PHASE SUBTOTAL (AMPS): 12 | 12 | 4

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	3.06	100% FIRST 10KVA 50% OTHER	3.06
TOTALS	3.06		3.06

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION **6CLP2B** | LOCATION PROCEDURE ROOM 652E | FLOOR LEVEL 06
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM 6CLD3
MAIN TYPE MCB | BUS RATING 100 A | FAULT CURRENT RATING 22K AIC
MAIN RATING 100 A | MOUNTING Recessed | FAULT... 4.1K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	POLES	BRKR AMP	DESCRIPTION
RECEPTACLE...	20 A	1	1	0.72			0.00			2	1	20 A	SPARE
RECEPTACLE...	20 A	1	3		0.72			0.00		4	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	5			0.18			0.00	6	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 652C-2	20 A	2	7	0.09			0.00			8	1	20 A	SPARE
			9		0.09			0.00		10	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	11			0.18			0.00	12	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	13	0.18			0.00			14	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 652C-2	20 A	2	15		0.09			0.00		16	1	20 A	SPARE
			17			0.09			0.00	18	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	19	0.18			0.00			20	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	21		0.18			0.00		22	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	23			0.18			0.00	24	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 652C-2	20 A	2	25	0.09			0.00			26	1	20 A	SPARE
			27		0.09			0.00		28	1	20 A	SPARE
SPARE	20 A	1	29			0.00			0.00	30	1	20 A	SPARE
SPARE	20 A	1	31	0.00			0.00			32	1	20 A	SPARE
SPARE	20 A	1	33		0.00			0.00		34	1	20 A	SPARE
SPARE	20 A	1	35			0.00			0.00	36	1	20 A	SPARE
SPARE	20 A	1	37	0.00			0.00			38	1	20 A	SPARE
SPARE	20 A	1	39		0.00			0.00		40	1	20 A	SPARE
SPARE	20 A	1	41			0.00			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 1.26 | 1.17 | 0.63 — MAX CONNECTED PHASE 11 A
PHASE SUBTOTAL (AMPS): 11 | 10 | 5

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	3.06	100% FIRST 10KVA 50% OTHER	3.06
TOTALS	3.06		3.06

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION **6CLP3B** | LOCATION PROCEDURE ROOM 652F | FLOOR LEVEL 06
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM 6CLD3
MAIN TYPE MCB | BUS RATING 100 A | FAULT CURRENT RATING 10K AIC
MAIN RATING 100 A | MOUNTING Recessed | FAULT... 4.1K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	POLES	BRKR AMP	DESCRIPTION
RECEPTACLE...	20 A	1	1	0.72			0.00			2	1	20 A	SPARE
RECEPTACLE...	20 A	1	3		0.72			0.00		4	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	5			0.18			0.00	6	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 652H-2	20 A	2	7	0.09			0.00			8	1	20 A	SPARE
			9		0.09			0.00		10	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	11			0.18			0.00	12	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	13	0.18			0.00			14	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 652H-2	20 A	2	15		0.09			0.00		16	1	20 A	SPARE
			17			0.09			0.00	18	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	19	0.18			0.00			20	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	21		0.18			0.00		22	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	23			0.18			0.00	24	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 652H-2	20 A	2	25	0.09			0.00			26	1	20 A	SPARE
			27		0.09			0.00		28	1	20 A	SPARE
SPARE	20 A	1	29			0.00			0.00	30	1	20 A	SPARE
SPARE	20 A	1	31	0.00			0.00			32	1	20 A	SPARE
SPARE	20 A	1	33		0.00			0.00		34	1	20 A	SPARE
SPARE	20 A	1	35			0.00			0.00	36	1	20 A	SPARE
SPARE	20 A	1	37	0.00			0.00			38	1	20 A	SPARE
SPARE	20 A	1	39		0.00			0.00		40	1	20 A	SPARE
SPARE	20 A	1	41			0.00			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 1.26 | 1.17 | 0.63 — MAX CONNECTED PHASE 11 A
PHASE SUBTOTAL (AMPS): 11 | 10 | 5

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	3.06	100% FIRST 10KVA 50% OTHER	3.06
TOTALS	3.06		3.06

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION **6CLP4B** | LOCATION PROCEDURE ROOM 652J | FLOOR LEVEL 06
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM 6CLD3
MAIN TYPE MCB | BUS RATING 100 A | FAULT CURRENT RATING 10K AIC
MAIN RATING 100 A | MOUNTING Recessed | FAULT... 4.1K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	POLES	BRKR AMP	DESCRIPTION
RECEPTACLE FUME...	20 A	1	1	0.36			0.00			2	1	20 A	SPARE
RECEPTACLE...	20 A	1	3		0.72			0.00		4	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 652H-2	20 A	2	5			0.09			0.00	6	1	20 A	SPARE
			7	0.09			0.00			8	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	9		0.18			0.00		10	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	11			0.18			0.00	12	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	13	0.18			0.00			14	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 652H-2	20 A	2	15		0.09			0.00		16	1	20 A	SPARE
			17			0.09			0.00	18	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	19	0.18			0.00			20	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	21		0.18			0.00		22	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 652H-2	20 A	2	23			0.09			0.00	24	1	20 A	SPARE
			25	0.09			0.00			26	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	27		0.18			0.00		28	1	20 A	SPARE
SPARE	20 A	1	29			0.00			0.00	30	1	20 A	SPARE
SPARE	20 A	1	31	0.00			0.00			32	1	20 A	SPARE
SPARE	20 A	1	33		0.00			0.00		34	1	20 A	SPARE
SPARE	20 A	1	35			0.00			0.00	36	1	20 A	SPARE
SPARE	20 A	1	37	0.00			0.00			38	1	20 A	SPARE
SPARE	20 A	1	39		0.00			0.00		40	1	20 A	SPARE
SPARE	20 A	1	41			0.00			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 0.90 | 1.35 | 0.45 — MAX CONNECTED PHASE 12 A
PHASE SUBTOTAL (AMPS): 8 | 12 | 4

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	2.70	100% FIRST 10KVA 50% OTHER	2.70
TOTALS	2.70		2.70

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION **6CLP1C** | LOCATION PROCEDURE ROOM 650B | FLOOR LEVEL 06
VOLTAGE 120/208 Wye | 3 PHASE 4 WIRE | FED FROM 6CLD4
MAIN TYPE MCB | BUS RATING 100 A | FAULT CURRENT RATING 10K AIC
MAIN RATING 100 A | MOUNTING Recessed | FAULT... 9.7K AIC

REMARKS

DESCRIPTION	BRKR AMP	POLES	CKT NO	LEFT SIDE, KVA A	B	C	RIGHT SIDE, KVA A	B	C	CKT NO	POLES	BRKR AMP	DESCRIPTION
RECEPTACLE LINEAR...	20 A	1	1	0.18			0.00			2	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 650C-2	20 A	2	3		1.25			0.00		4	1	20 A	SPARE
			5			1.25			0.00	6	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	7	0.18			0.00			8	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	9		0.18			0.00		10	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 650C-2	20 A	2	11			1.25			0.00	12	1	20 A	SPARE
			13	1.25			0.00			14	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	15		0.18			0.00		16	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	17			0.18			0.00	18	1	20 A	SPARE
RECEPTACLE LINEAR...	20 A	1	19	0.18			0.00			20	1	20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 650C-2	20 A	2	21		1.25			0.00		22	1	20 A	SPARE
			23			1.25			0.00	24	1	20 A	SPARE
RECEPTACLE...	20 A	1	25	0.72			0.00			26	1	20 A	SPARE
RECEPTACLE...	20 A	1	27		0.36			0.00		28	1	20 A	SPARE
SPARE	20 A	1	29			0.00			0.00	30	1	20 A	SPARE
SPARE	20 A	1	31	0.00			0.00			32	1	20 A	SPARE
SPARE	20 A	1	33		0.00			0.00		34	1	20 A	SPARE
SPARE	20 A	1	35			0.00			0.00	36	1	20 A	SPARE
SPARE	20 A	1	37	0.00			0.00			38	1	20 A	SPARE
SPARE	20 A	1	39		0.00			0.00		40	1	20 A	SPARE
SPARE	20 A	1	41			0.00			0.00	42	1	20 A	SPARE

PHASE SUBTOTALS (KVA): 2.51 | 3.22 | 3.92 — MAX CONNECTED PHASE 34 A
PHASE SUBTOTAL (AMPS): 21 | 28 | 34

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	9.65	100% FIRST 10KVA 50% OTHER	9.65
TOTALS	9.65		9.65

NOTES

GENERAL NOTES

1. REFER TO SINGLE LINES FOR INDICATION OF NEW AND EXISTING PANELBOARDS.
2. AVAILABLE FAULT CURRENT VALUES ARE PRELIMINARY VALUES THAT WERE CALCULATED USING ESTIMATED INPUT DATA (FEEDER LENGTHS, TRANSFORMER IMPEDANCES, ETC). PROVIDE FINAL AVAILABLE FAULT CURRENT VALUES CALCULATED USING AS-BUILT INPUT DATA.

6CLP1A	6CLP2A	6CLP3A
6CLP4A	6CLP1B	6CLP2B
6CLP3B	6CLP4B	6CLP1C

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AEI Affiliated Engineers

CMTA

HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: 15576

STATE OF KENTUCKY — ANDREW SCHAUT — 30353 — LICENSED PROFESSIONAL ENGINEER — 1/7/2021

DRAWING
ELECTRICAL PHASE 4 FO CRITICAL LAB PANEL SCHEDULES

SHEET NO.
EF-985

1/8/2021 10:31:10 AM

PANELBOARD SCHEDULE

PANEL DESIGNATION 6CLP2C
VOLTAGE 120/208 Wye
MAIN TYPE MCB
MAIN RATING 100 A

LOCATION PROCEDURE ROOM 650E
3 **PHASE** 4 **WIRE**
BUS RATING 100 A
MOUNTING Recessed

FLOOR LEVEL 06
FED FROM 6CLD4
FAULT CURRENT RATING 22K AIC
FAULT... 4.8K AIC

REMARKS

			LEFT SIDE, KVA			RIGHT SIDE, KVA						
DESCRIPTION	**BRKR AMP, POLES**	**CKT NO**	**A**	**B**	**C**	**A**	**B**	**C**	**CKT NO**	**BRKR AMP, POLES**	**DESCRIPTION**
RECEPTACLE...	20 A 1	1	0.72			0.00			2	1 20 A	SPARE
RECEPTACLE...	20 A 1	3		0.72			0.00		4	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	5			0.18			0.00	6	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	7	0.18			0.00			8	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	9		0.18			0.00		10	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	11			0.18			0.00	12	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	13	0.18			0.00			14	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	15		0.18			0.00		16	1 20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 650C-2	20 A 2	17			1.25			0.00	18	1 20 A	SPARE
		19	1.25			0.00			20	1 20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 650C-2	20 A 2	21		1.25			0.00		22	1 20 A	SPARE
		23			1.25			0.00	24	1 20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 650C-2	20 A 2	25	1.25			0.00			26	1 20 A	SPARE
		27		1.25			0.00		28	1 20 A	SPARE
SPARE	20 A 1	29			0.00			0.00	30	1 20 A	SPARE
SPARE	20 A 1	31	0.00			0.00			32	1 20 A	SPARE
SPARE	20 A 1	33		0.00			0.00		34	1 20 A	SPARE
SPARE	20 A 1	35			0.00			0.00	36	1 20 A	SPARE
SPARE	20 A 1	37	0.00			0.00			38	1 20 A	SPARE
SPARE	20 A 1	39		0.00			0.00		40	1 20 A	SPARE
SPARE	20 A 1	41			0.00			0.00	42	1 20 A	SPARE

PHASE SUBTOTALS (KVA):	3.58	3.58	2.86	MAX CONNECTED PHASE 31 A
PHASE SUBTOTAL (AMPS):	31	31	24	

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	10.01	100% FIRST 10KVA 50% OTHER	10.00
TOTALS	10.01		10.00

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION 6CLP3C
VOLTAGE 120/208 Wye
MAIN TYPE MCB
MAIN RATING 100 A

LOCATION PROCEDURE ROOM 650F
3 **PHASE** 4 **WIRE**
BUS RATING 100 A
MOUNTING Recessed

FLOOR LEVEL 06
FED FROM 6CLD4
FAULT CURRENT RATING 22K AIC
FAULT... 4.8K AIC

REMARKS

			LEFT SIDE, KVA			RIGHT SIDE, KVA						
DESCRIPTION	**BRKR AMP, POLES**	**CKT NO**	**A**	**B**	**C**	**A**	**B**	**C**	**CKT NO**	**BRKR AMP, POLES**	**DESCRIPTION**
RECEPTACLE...	20 A 1	1	0.72			0.00			2	1 20 A	SPARE
RECEPTACLE...	20 A 1	3		0.72			0.00		4	1 20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 650H-2	20 A 2	5			1.25			0.00	6	1 20 A	SPARE
		7	1.25			0.00			8	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	9		0.18			0.00		10	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	11			0.18			0.00	12	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	13	0.18			0.00			14	1 20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 650H-2	20 A 2	15		1.25			0.00		16	1 20 A	SPARE
		17			1.25			0.00	18	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	19	0.18			0.00			20	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	21		0.18			0.00		22	1 20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 650H-2	20 A 2	23			1.25			0.00	24	1 20 A	SPARE
		25	1.25			0.00			26	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	27		0.18			0.00		28	1 20 A	SPARE
SPARE	20 A 1	29			0.00			0.00	30	1 20 A	SPARE
SPARE	20 A 1	31	0.00			0.00			32	1 20 A	SPARE
SPARE	20 A 1	33		0.00			0.00		34	1 20 A	SPARE
SPARE	20 A 1	35			0.00			0.00	36	1 20 A	SPARE
SPARE	20 A 1	37	0.00			0.00			38	1 20 A	SPARE
SPARE	20 A 1	39		0.00			0.00		40	1 20 A	SPARE
SPARE	20 A 1	41			0.00			0.00	42	1 20 A	SPARE

PHASE SUBTOTALS (KVA):	3.58	2.51	3.92	MAX CONNECTED PHASE 34 A
PHASE SUBTOTAL (AMPS):	31	21	34	

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	10.01	100% FIRST 10KVA 50% OTHER	10.00
TOTALS	10.01		10.00

NOTES

PANELBOARD SCHEDULE

PANEL DESIGNATION 6CLP4C
VOLTAGE 120/208 Wye
MAIN TYPE MCB
MAIN RATING 100 A

LOCATION PROCEDURE ROOM 650J
3 **PHASE** 4 **WIRE**
BUS RATING 100 A
MOUNTING Recessed

FLOOR LEVEL 06
FED FROM 6CLD4
FAULT CURRENT RATING 22K AIC
FAULT... 4.8K AIC

REMARKS

			LEFT SIDE, KVA			RIGHT SIDE, KVA						
DESCRIPTION	**BRKR AMP, POLES**	**CKT NO**	**A**	**B**	**C**	**A**	**B**	**C**	**CKT NO**	**BRKR AMP, POLES**	**DESCRIPTION**
RECEPTACLE LINEAR EQUIP ROOM-2 650H-2	20 A 2	1	1.25			0.00			2	1 20 A	SPARE
		3		1.25			0.00		4	1 20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 650H-2	30 A 2	5			1.87			0.00	6	1 20 A	SPARE
		7	1.87			0.00			8	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	9		0.18			0.00		10	1 20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 650H-2	20 A 2	11			1.25			0.00	12	1 20 A	SPARE
		13	1.25			0.00			14	1 20 A	SPARE
RECEPTACLE LINEAR EQUIP ROOM-2 650H-2	20 A 2	15		1.25			0.00		16	1 20 A	SPARE
		17			1.25			0.00	18	1 20 A	SPARE
RECEPTACLE...	20 A 1	19	0.72			0.00			20	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	21		0.18			0.00		22	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	23			0.18			0.00	24	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	25	0.18			0.00			26	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	27		0.18			0.00		28	1 20 A	SPARE
RECEPTACLE LINEAR...	20 A 1	29			0.18			0.00	30	1 20 A	SPARE
RECEPTACLE FUME...	20 A 1	31	0.72			0.00			32	1 20 A	SPARE
SPARE	20 A 1	33		0.00			0.00		34	1 20 A	SPARE
SPARE	20 A 1	35			0.00			0.00	36	1 20 A	SPARE
SPARE	20 A 1	37	0.00			0.00			38	1 20 A	SPARE
SPARE	20 A 1	39		0.00			0.00		40	1 20 A	SPARE
SPARE	20 A 1	41			0.00			0.00	42	1 20 A	SPARE

PHASE SUBTOTALS (KVA):	5.99	3.04	4.73	MAX CONNECTED PHASE 52 A
PHASE SUBTOTAL (AMPS):	52	25	42	

LOAD CLASSIFICATION	CONNECTED (KVA)	DESIGN FACTOR	DESIGN (KVA)
APPLIANCE		100%	
LIGHTING		125%	
MOTOR		125% LARGEST 100% OTHER	
RECEPTACLE	13.75	100% FIRST 10KVA 50% OTHER	11.88
TOTALS	13.75		11.88

NOTES

GENERAL NOTES

1. REFER TO SINGLE LINES FOR INDICATION OF NEW AND EXISTING PANELBOARDS.
2. AVAILABLE FAULT CURRENT VALUES ARE PRELIMINARY VALUES THAT WERE CALCULATED USING ESTIMATED INPUT DATA (FEEDER LENGTHS, TRANSFORMER IMPEDANCES, ETC). PROVIDE FINAL AVAILABLE FAULT CURRENT VALUES CALCULATED USING AS-BUILT INPUT DATA.

6CLP2C	6CLP3C	6CLP4C
-	-	-
-	-	-

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JACOBS Consultancy

AEI Affiliated Engineers

CMTA

HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By Author
Checked By Checker
Client Number 514
Project Number 15576

STATE OF KENTUCKY ... LICENSED PROFESSIONAL ENGINEER
1/7/2021

DRAWING
ELECTRICAL PHASE 4 FO CRITICAL LAB PANEL SCHEDULES

SHEET NO.
EF-986

1/8/2021 10:31:11 AM

TECHNOLOGY SYMBOLS AND ABBREVIATIONS

NOTE: SYMBOLS AND ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE CONTRACT DOCUMENTS. ALL MEASUREMENTS FROM AFF ARE TO THE CENTER OF OUTLET.

INFORMATION TECHNOLOGY

W — WALL TELEPHONE OUTLETS
MOUNTING LOCATION: FLUSH WALL
MOUNTING HEIGHT: 4'-0" AFF UON
CONFIGURATION: REFER TO CHART BELOW

X — WORKSTATION OUTLETS
CONFIGURATION: X=REFER TO CHART BELOW
MOUNTING LOCATION: FLUSH WALL
MOUNTING HEIGHT: 1'-6" AFF

X — WORKSTATION OUTLETS
CONFIGURATION: X=REFER TO CHART BELOW
MOUNTING LOCATION: CASEWORK OR ABOVE BACKSPLASH
MOUNTING HEIGHT: FIELD VERIFY

X — WORKSTATION OUTLETS - CEILING MOUNTED
CONFIGURATION: X=REFER TO CHART BELOW
MOUNTING LOCATION: ABOVE CEILING/STRUCTURE
MOUNTING HEIGHT: FIELD VERIFY

X — WORKSTATION OUTLETS
CONFIGURATION: X=REFER TO CHART BELOW
MOUNTING LOCATION: RACEWAY
MOUNTING HEIGHT: MATCH ELECTRICAL

X — WORKSTATION OUTLETS - FLOOR BOX/POKE-THRU
CONFIGURATION: X=REFER TO CHART BELOW
MOUNTING LOCATION: FLUSH FLOOR
MOUNTING HEIGHT: F/FF

IC — INTERCOM OUTLETS - WALL MOUNTED
CONFIGURATION: REFER TO CHART BELOW
MOUNTING LOCATION: FLUSH WALL
MOUNTING HEIGHT: FIELD VERIFY

E — EMERGENCY TELEPHONE/CAMERA EXTERIOR COLUMN/STANCHION
CONFIGURATION: 2 CAT 6 PE JACKETED & 1 RG-6 CCTV PE JACKETED
MOUNTING LOCATION: EXTERIOR COLUMN
MOUNTING HEIGHT: AS SPECIFIED

X — EXISTING TO REMAIN WALL OUTLET

X — EXISTING TO ABOVE COUNTER OUTLET

X — EXISTING TO REMAIN CEILING MOUNTED WORKSTATION OUTLET

X — EXISTING TO RACEWAY OUTLET

X — EXISTING TO REMAIN - FLOOR BOX/POKE-THRU/FOOR OUTLET

CONVENIENCE POWER RECEPTACLE PROVIDED BY DIVISION 26 (ELEVATION VIEW)

WALL PHONE OUTLET (ELEVATION VIEW)

2 RACK UNIT 48 PORT PATCH PANEL (ELEVATION VIEW)
CABLE TYPE
IDF: CAT. 6A, UON

2 RACK UNIT HORIZONTAL CABLE MANAGER (ELEVATION VIEW)

RACK MOUNTED FIBER OPTIC PATCH PANEL

S — 12-STRAND SINGLE MODE FIBER OPTIC CONNECTOR PANEL. REFER TO DETAIL SHEETS AND SPECS FOR CONNECTOR TYPE.

M — 12-STRAND MULTIMODE FIBER OPTIC CONNECTOR PANEL. REFER TO DETAIL SHEETS AND SPECS FOR CONNECTOR TYPE.

CROSS CONNECT POINT (NEW)

TGB — TELECOMMUNICATIONS GROUNDING BUSBAR PROVIDED BY DIVISION 26 (PLAN VIEW)

TELECOMMUNICATIONS GROUNDING BUSBAR PROVIDED BY DIVISION 26 (ELEVATION VIEW)

TYPICAL CABLE TRAY WIDTH AS NOTED (END VIEW)

TYPICAL STACKED CABLE TRAY (INDICATES ABOVE CABLE TRAY)

(TOP VIEW)

(SIDE VIEW)

NEW

FUTURE

EXISTING

CONDUIT STUB-UP MOUNTING LOCATION: FLOOR

CONDUIT STUB MOUNTING LOCATION: WALL

TYPICAL ABOVE CEILING TRADE ZONES

NOTE TRADE CONTRACTOR SHALL ROUTE SERVICES THROUGH THEIR RESPECTIVE ZONES AND COORDINATE ALL PATHWAYS WITH OTHER TRADES. PHASE INSTALLATION AS NECESSARY TO ALLOW OTHER TRADES TO INSTALL SERVICES AS INDICATED ON PLANS.

STRUCTURE

HVAC/DRAINAGE PIPING ZONE

PIPING/FIRE PROTECTION ZONE

ELECTRICAL CONDUIT/IT/CABLE TRAY ZONE

LIGHTING ZONE

CEILING

FLOOR

REFER / SHT # — GENERAL REFERENCE DESIGNATES SHEET NUMBER

DET # / SHT # — DETAIL REFERENCE
TOP DESIGNATES DETAIL NUMBER
BOTTOM DESIGNATES SHEET NUMBER

/ SHT # — SECTION REFERENCE
TOP DESIGNATES SECTION NUMBER
BOTTOM DESIGNATES SHEET NUMBER

ELEVATION SYMBOL

NEW CONNECTION TO EXISTING

NAME / # — EQUIPMENT NAME AND NUMBER

— LAB EQUIPMENT NUMBER

— PLAN NOTE NUMBER

— REVISION NUMBER

— CONSTRUCTION BULLETIN NUMBER

CONFIGURATION TYPE (X)	DESCRIPTION	# OF DATA JACKS	# OF COAX JACKS	# OF FIBER JACKS	DATA CABLE TYPE	CABLE COLOR	FACEPLATE	ICON COLOR	DEFAULT MOUNTING HEIGHT (REFER TO ARCHITECTURAL ELEVATIONS)	CONDUIT	CABLE SOURCE
W	WALL TELEPHONE	1			CAT. 6A F/UTP	GREEN	SS 1-PORT	GREEN	48" AFF	(1) 1"	IDF ROOM
1		1			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	18" AFF	(1) 1"	IDF ROOM
2		2			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	18" AFF	(1) 1"	IDF ROOM
3		3			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	18" AFF	(1) 1"	IDF ROOM
4		4			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	18" AFF	(2) 1"	IDF ROOM
AVC	AV CAMERA	1			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	FLUSH CEILING	(1) 1"	IDF ROOM
IC	INTERCOM	1			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	48" AFF	(1) 1"	IDF ROOM
TV	TELEVISION	2	1		CAT. 6A F/UTP	GREEN	1-GANG	GREEN	84" AFF (UNO)	(1) 1"	IDF ROOM
SC	SECURITY CAMERA	1			CAT. 6A F/UTP	GREEN	1-GANG	GRAY	ABOVE CEILING	(1) 1"	IDF ROOM
AC	ACCESS CONTROLLER	1			CAT. 6A F/UTP	GREEN	1-GANG	GRAY	ABOVE CEILING ADJACENT TO DOOR CONTROLLER	(1) 1"	IDF ROOM
TC	TIME CLOCK	1			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	48" AFF	(1) 1"	IDF ROOM
P	PROJECTOR	1			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	FLUSH CEILING	(1) 1"	IDF ROOM
C	COMMUNICATIONS ACCESS POINT	2			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	ABOVE CEILING	(1) 1"	IDF ROOM
GW	BAS GATEWAY	2			CAT. 6A F/UTP	GREEN	1-GANG	BLUE	ABOVE CEILING	(1) 1"	IDF ROOM
ELEV	ELEVATOR PHONE & MONITOR	3			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	36" AFF	(1) 1"	IDF ROOM
EM	EMERGENCY PHONE	1			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	36" AFF	(1) 1"	IDF ROOM
ATS	AUTOMATIC TRANSFER SWITCH	2			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	36" AFF	(1) 1"	IDF ROOM
PT	PNEUMATIC TUBE	1			CAT. 6A F/UTP	GREEN	1-GANG	BLACK	SEE DRAWINGS	(1) 1"	IDF ROOM
S	OVERHEAD PAGING SPEAKER	1			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	ABOVE CEILING	(1) 1"	IDF ROOM
AVTV	AV TV	2	1		CAT. 6A F/UTP	GREEN	1-GANG	GREEN	AS NOTED ON AV DRAWINGS	MIN (2) 1.25" OR AS NOTED ON AV DRAWINGS	IDF ROOM OR AS NOTED ON AV DRAWINGS
B	WIRELESS ACCESS POINT, BOLLARD	1			CAT. 6A F/UTP	GREEN	NA	GREEN	EXTERIOR BOLLARD	(1) 1"	IDF ROOM

NOTES:

1. MOUNTING HEIGHTS ARE AS LISTED, UNLESS OTHERWISE NOTED ON DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT ELEVATIONS.
2. PROVIDE BLANK MODULES OR INSERTS AS REQUIRED TO FILL EMPTY FACEPLATE PORTS.
3. ALL CONDUIT, CABLE TRAY, SURFACE RACEWAY, FLOOR BOXES, AND BACK BOXES PROVIDED BY ELECTRICAL CONTRACTOR.
4. ALL COMMUNICATIONS FACEPLATES, JACKS, CABLE, TERMINATION HARDWARE, AND HORIZONTAL CABLE MANAGEMENT BY COMMUNICATIONS CONTRACTOR.
5. FOR FLOOR-MOUNTED OUTLETS, TERMINATE CABLES AT IDF ON SAME LEVEL AS OUTLET.
6. COORDINATE BAS GATEWAY OUTLET LOCATIONS WITH BAS CONTRACTOR PRIOR TO BEGINNING WORK.
7. IP OVERHEAD PAGING SPEAKERS ARE OFOI, IF APPLICABLE.
8. ALL FLOOR BOXES SERVING DATA LOCATIONS SHALL BE SERVED BY MINIMUM TWO (2) 1" CONDUITS. CONDUITS SHALL BE SIZED LARGER WHERE REQUIRED.
9. ALL FLOOR BOXES SERVING COMBINED AV AND DATA LOCATIONS SHALL BE SERVED BY MINIMUM THREE (3) 1.25" CONDUITS. CONDUITS SHALL BE SIZED LARGER WHERE REQUIRED.
10. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT AND HEIGHTS FOR ALL TV/WALL MONITOR LOCATIONS. REFER TO CHART ON AVF-000 FOR ADDITIONAL RACEWAY REQUIREMENTS.
10. "WP" WITH A NUMBER INDICATES THE QUANTITY OF DATA OUTLETS FOR THAT LOCATION AND CONTRACTOR SHALL PROVIDE A WEATHERPROOF COVER THAT LOCATION.

ABBREVIATIONS

10GBASE-T	10 GIGABIT ETHERNET OVER TWISTED PAIR COPPER
10/100BaseTX	ETHERNET/FAST ETHERNET
1000BaseSX	GIGABIT ETHERNET (SHORT WAVELENGTH)
1000BaseLX	GIGABIT ETHERNET (LONG WAVELENGTH)
AC	ABOVE CEILING/ALTERNATING CURRENT
ACT	ACOUSTICAL CEILING TILE
ADO	AUTOMATIC DOOR OPENER
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ARCH	ARCHITECTURAL
ASC	ABOVE SUSPENDED CEILING
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BCS	BUILDING CONTROL SYSTEM
BEF	(BUILDING) ENTRANCE FACILITY
BFC	BELOW FINISH CEILING
BFL	BELOW FLOOR LEVEL
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
BRKR	BREAKER
C	CONDUIT
CATV	COMMUNITY ACCESS TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CCT	CIRCUIT
CCT BKR	CIRCUIT BREAKER
CLG	CEILING
CONTR	CONTRACTOR
CORR	CORRIDOR
CP	CONSOLIDATION POINT
CT	CABLE TRAY
DB	DIRECT BURIAL
DC	DIRECT CURRENT
DED	DEDICATED
DET	DETAIL
DIA	DIAMETER
DN	DOWN
DS	DISCONNECT SWITCH
EC	EMPTY CONDUIT/ELECTRICAL CONTRACTOR
EDB	ELECTRIC DUCT BANK
EG	EQUIPMENT GROUND
EGS	ENGINE GENERATOR SET
EIDF	EQUIPMENT INTERMEDIATE DISTRIBUTION FRAME
EJ	EXPANSION JOINT
ELEC	ELECTRIC/ELECTRICAL
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
ER	EQUIPMENT ROOM
ETR	EXISTING TO REMAIN
F/FC	FLUSH WITH FINISHED CEILING
F/FF	FLUSH WITH FINISHED FLOOR
F/FW	FLUSH WITH FINISHED WALL
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FL	AT FLOOR LINE
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FS	FLOW SWITCH
FSS	FUSED SAFETY SWITCH
FSCP	FLAME SAFEGUARD CONTROL PANEL
FVNR	FULL VOLTAGE NON-REVERSING
GBIC	GIGABIT INTERFACE CONVERTER
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GEN	GENERATOR
GRC	GALVANIZED RIGID CONDUIT
HH	HANDHOLE
HT	HEIGHT/HEAT TRACE
HV	HIGH VOLTAGE
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KO	KNOCK-OUT
KV	KILOVOLT
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
KWH	KILOWATT HOURS
LAN	LOCAL AREA NETWORK
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION
MC	MECHANICAL CONTRACTOR
MDF	MAIN DISTRIBUTION FRAME
MER	MECHANICAL EQUIPMENT ROOM
MH	MANHOLE
MM	MULTIMODE
MP	MUSIC & PAGE
MTD	MOUNTED
MTG	MOUNTING
MTG HGT	MOUNTING HEIGHT
NA	NOT APPLICABLE
NC	NURSE CALL
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
PM	PHYSIOLOGICAL MONITORING
PB	PULL BOX/PUSHBUTTON
PBX	PRIVATE BRANCH EXCHANGE
PC	PLUMBING CONTRACTOR/PHOTOCELL/PERSONAL COMPUTER
PDU	POWER DISTRIBUTION UNIT
PF	POWER FACTOR
PH	PHASE
PLBG	PLUMBING
PNL	PANEL
PWR	POWER
REC	RECESSED
RECEP	RECEPTACLE
REL	RELOCATE
REQD	REQUIRED
RFID	RADIO FREQUENCY IDENTIFICATION
RU	RACK UNIT
SHT	SHEET
SIG	SIGNAL
SIM	SIMILAR
SM	SINGLEMODE
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STA	STATION
SW	SWITCH
TB	TERMINAL BOX
TEL	TELEPHONE
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TO	TELECOMMUNICATIONS OUTLET
TR	TELECOMMUNICATIONS ROOM
TS	TAMPER SWITCH/TIME SWITCH
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTAGE
W	WIRE
WAO	WORK AREA OUTLET
W/	WITH
WP	WEATHERPROOF
WS	WALL SURFACE
WT	WATER TIGHT
X-XFMR	EXISTING TRANSFORMER
XP	EXPLOSION PROOF

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

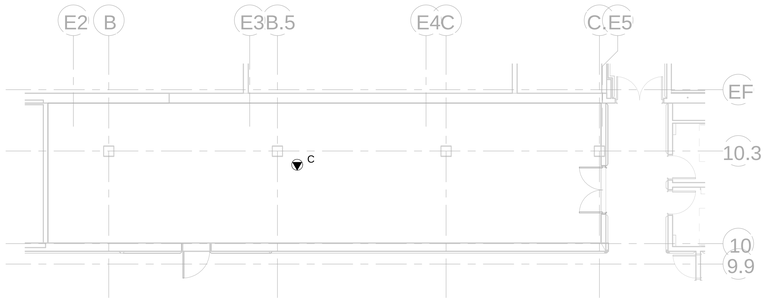
No.	Description	Date
1	P4 - CD REVIEW	12/04/20
2	P4 - BID & PERMIT	01/08/21

Drawn By KO
Checked By AS
Client Number 514
Project Number 15576

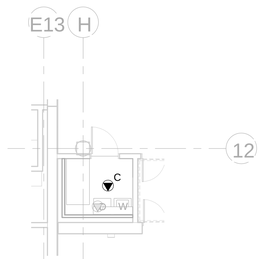
DRAWING
TECHNOLOGY PHASE 4 FO SYMBOLS AND ABBREVIATIONS

SHEET NO.
TF-060

1/7/2021 3:46:30 PM



2 TF-260 **TECHNOLOGY PHASE 4 FO PLAN LOWER LEVEL - STORAGE 057**
1/8" = 1'-0"



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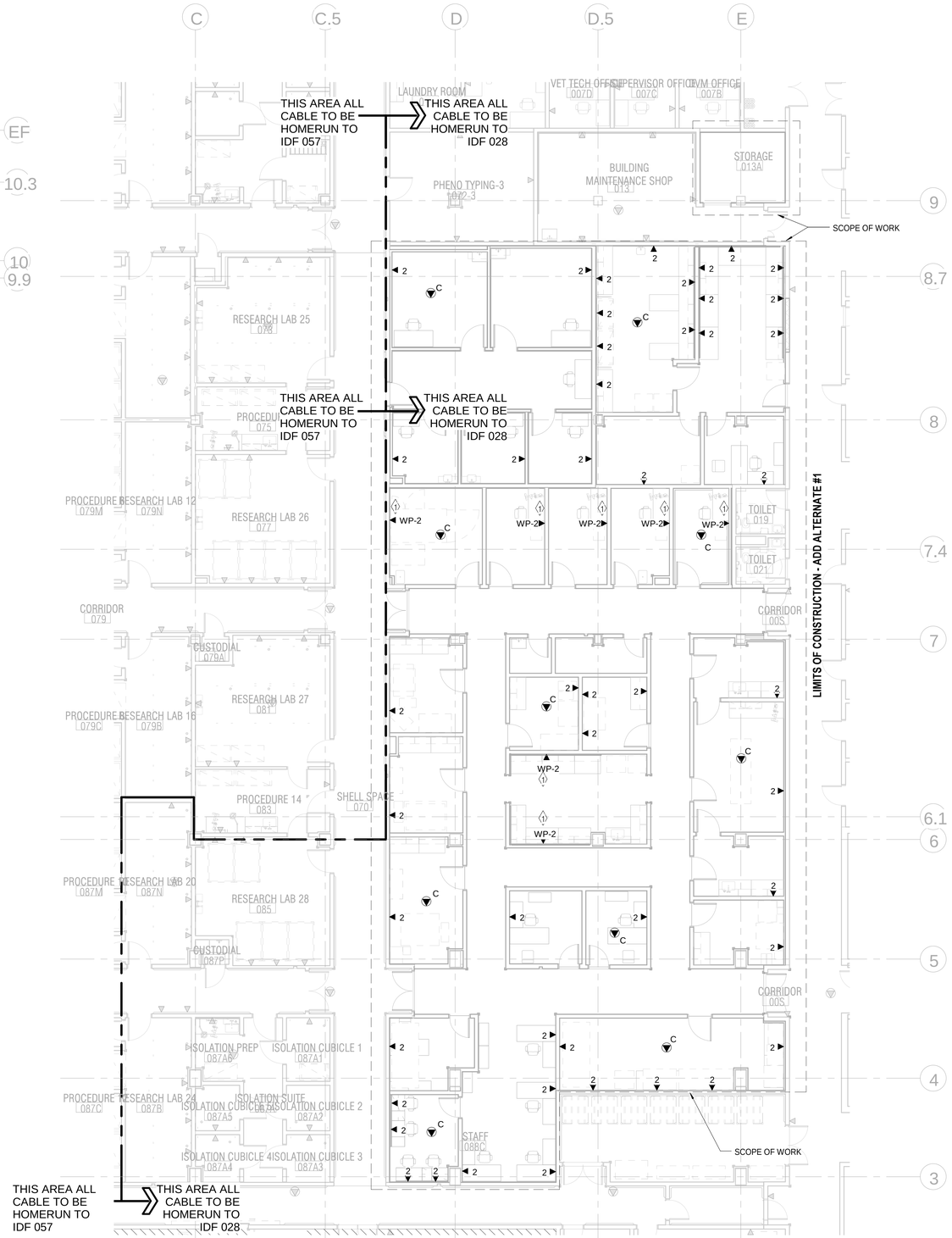
1/8" = 1'-0"



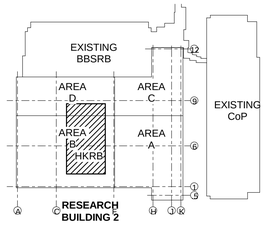
1 TF-260 **TECHNOLOGY PHASE 4 FO PLAN LOWER LEVEL**
1/8" = 1'-0"

GENERAL NOTES

1. ALL WORK AND MATERIAL SHALL COMPLY WITH UNIVERSITY OF KENTUCKY COMMUNICATIONS AND NETWORK SYSTEMS (CNS) TELECOMMUNICATION STANDARDS (LATEST VERSION).
2. CABLES ON THIS SHEET SHALL TERMINATE IN THE DESIGNATED ID AS LISTED ON THE SHEET OR IN THE KEYNOTES.
3. CABLE TRAY, CONDUIT RACEWAYS, CONDUIT BACKBOXES, FLOOR AND WALL SLEEVES SHALL BE PROVIDED BY THE DIVISION 26 CONTRACTOR. CONDUIT RACEWAY SHALL BE PROVIDED FROM BACKBOX TO NEAREST ACCESSIBLE CABLE TRAY. THE EXCEPTION THIS RULE WILL BE THAT THE DIVISION 27 CONTRACTOR SHALL PROVIDE ALL CABLE TRAY WITHIN THE BDF, MDF, EIDF, AND ALL IDFS.
4. COORDINATE WITH ARCHITECTURAL ELEVATION DRAWINGS FOR EXACT OUTLET LOCATIONS AND HEIGHTS. ALL OUTLET LOCATIONS AND WALLBOX PLACEMENT SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS.
5. PLYWOOD ON WALLS IN THE BDF, MDF, IDFS, AND EIDF SHALL BE IN COMPLIANCE WITH CNS STANDARDS. THE FIRE RATING STAMP ON PLYWOOD SHEETS SHALL NOT BE PAINTED OVER OR COVERED ANY MANNER. THE FIRE RATING STAMP SHALL FACE OUT AND B READILY VISIBLE.
6. COORDINATE INSTALLATION OF REQUIRED CABLE LOCATIONS W SECURITY, AV SYSTEMS, LIGHTING CONTROL, EQUIPMENT MONITORING, ETC. WITH SYSTEM VENDORS AND INTEGRATORS REFER TO SYSTEMS VENDORS CONTRACT AND PROJECT DOCUMENTS FOR ADDITIONAL INFORMATION.
7. CABLE TRAY AND SUPPORTING INFRASTRUCTURE SHOWN IN H... PREVIOUS PHASE AND IS EXISTING TO REMAIN.

KEYED NOTES

1



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ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

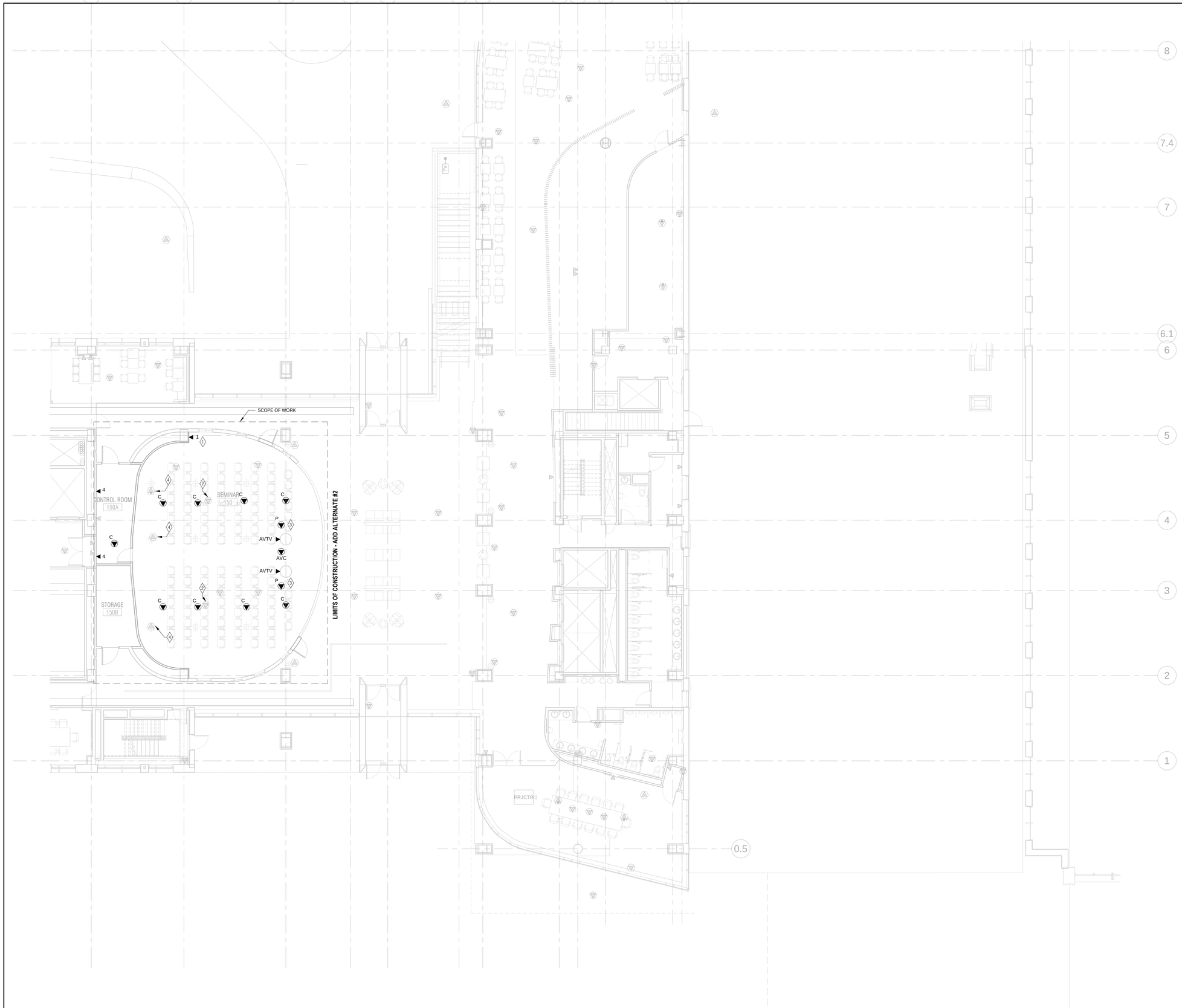
Drawn By Author
Checked By Checker
Client Number 514
Project Number 15576

STATE OF KENTUCKY ANDREW SCHLOSS LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
TECHNOLOGY PHASE 4 FO PLAN LOWER LEVEL

SHEET NO.
TF-260

1/11/2021 4:38:20 PM



1 TF-261A **TECHNOLOGY PHASE 4 FO PLAN LEVEL 01 AREA A**

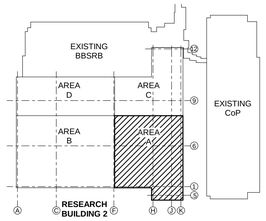
1/8" = 1'-0"

GENERAL NOTES

1. ALL WORK AND MATERIAL SHALL COMPLY WITH UNIVERSITY OF KENTUCKY COMMUNICATIONS AND NETWORK SYSTEMS (CNS) TELECOMMUNICATION STANDARDS (LATEST VERSION).
2. CABLES ON THIS SHEET SHALL TERMINATE IN THE DESIGNATED IDF AS LISTED ON THE SHEET OR IN THE KEYNOTES.
3. CABLE TRAY, CONDUIT RACEWAYS, CONDUIT BACKBOXES, FLOOR AND WALL SLEEVES SHALL BE PROVIDED BY THE DIVISION 26 CONTRACTOR. CONDUIT RACEWAY SHALL BE PROVIDED FROM BACKBOX TO NEAREST ACCESSIBLE CABLE TRAY. THE EXCEPTION TO THIS RULE WILL BE THAT THE DIVISION 27 CONTRACTOR SHALL PROVIDE ALL CABLE TRAY WITHIN THE BDF, MDF, EIDF, AND ALL IDFS.
4. COORDINATE WITH ARCHITECTURAL ELEVATION DRAWINGS FOR EXACT OUTLET LOCATIONS AND HEIGHTS. ALL OUTLET LOCATIONS AND WALLBOX PLACEMENT SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS.
5. PLYWOOD ON WALLS IN THE BDF, MDF, IDFS, AND EIDF SHALL BE IN COMPLIANCE WITH CNS STANDARDS. THE FIRE RATING STAMP ON PLYWOOD SHEETS SHALL NOT BE PAINTED OVER OR COVERED IN ANY MANNER. THE FIRE RATING STAMP SHALL FACE OUT AND BE READILY VISIBLE.
6. COORDINATE INSTALLATION OF REQUIRED CABLE LOCATIONS WITH SECURITY, AV SYSTEMS, LIGHTING CONTROL, EQUIPMENT MONITORING, ETC. WITH SYSTEM VENDORS AND INTEGRATORS. REFER TO SYSTEMS VENDORS CONTRACT AND PROJECT DOCUMENTS FOR ADDITIONAL INFORMATION.
7. CABLE TRAY AND SUPPORTING INFRASTRUCTURE SHOWN IN HALF-TONE PROVIDED DURING PREVIOUS PHASE AND IS EXISTING TO REMAIN.

KEYED NOTES

1. MOUNT DATA OUTLET AT 48" AFF FOR TOUCHSCREEN PANEL DATA CONNECTION.
2. EXISTING RACEWAY AND JUNCTION BOX FOR OVERHEAD PROJECTOR FROM PREVIOUS PHASE. EXTEND NEW RACEWAY FROM EXISTING LOCATION TO NEW LOCATION OF OVERHEAD PROJECTOR.
3. NEW LOCATION FOR OVERHEAD PROJECTOR.
4. PROVIDE (2) DATA CABLES AT THIS FLOORBOX LOCATION THIS PHASE. FLOORBOX INSTALLED DURING PREVIOUS PHASE.



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Checked By Checker
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Project Number 15576

DRAWING
TECHNOLOGY PHASE 4 FO PLAN LEVEL 01 AREA A

SHEET NO.
TF-261A

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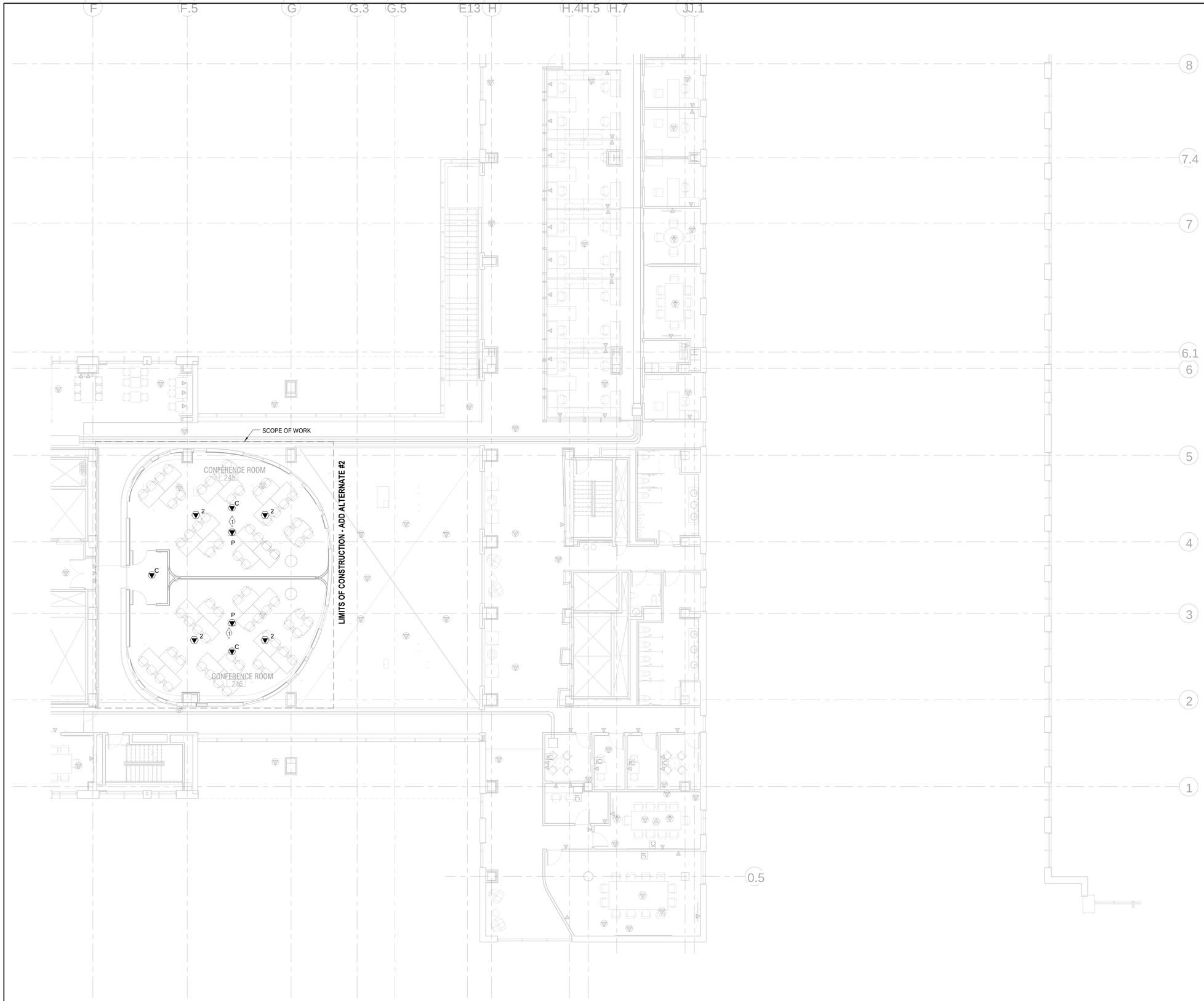

1 TF-262A 1/8" = 1'-0"

TECHNOLOGY PHASE 4 FO PLAN LEVEL 02 AREA A

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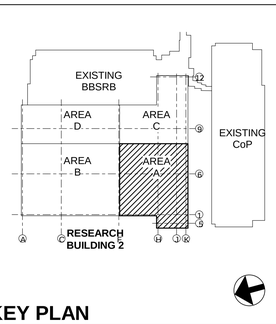
7. CABLE TRAY AND SUPPORTING INFRASTRUCTURE SHOWN IN H [illegible] DURING PREVIOUS PHASE AND IS EXISTING TO REMAIN.

KEYED NOTES

1 PROJECTOR DATA LOCATION PROVIDED DURING PREVIOUS PHASE.



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2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By	Author
Checked By	Checker
Client Number	514
Project Number	15576

STATE OF KENTUCKY ANDREW SCOTT LICENSED PROFESSIONAL ENGINEER 1/7/2021

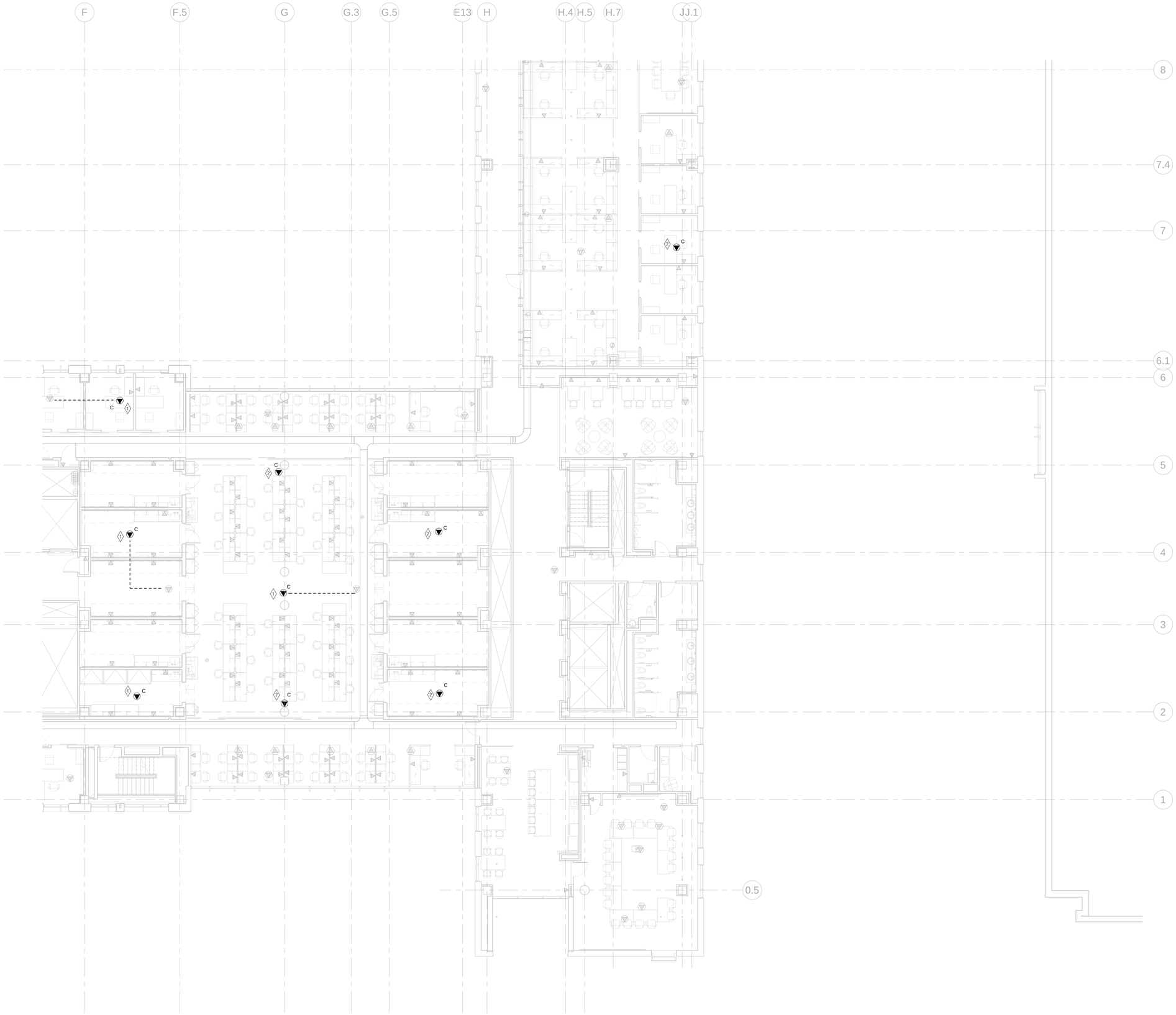
DRAWING

TECHNOLOGY PHASE 4 FO PLAN LEVEL 02 AREA A

SHEET NO.

TF-262A

1/7/2021 4:44:17 PM



1 TF-264A 1/8" = 1'-0"

TECH_04-PH4_A

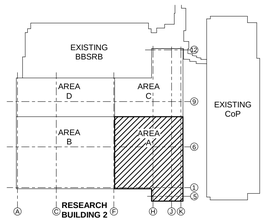
GENERAL NOTES

1. ALL WORK AND MATERIAL SHALL COMPLY WITH UNIVERSITY OF KENTUCKY COMMUNICATIONS AND NETWORK SYSTEMS (CNS) TELECOMMUNICATION STANDARDS (LATEST VERSION).
2. CABLES ON THIS SHEET SHALL TERMINATE IN THE DESIGNATED IDF AS LISTED ON THE SHEET OR IN THE KEYNOTES.
3. CABLE TRAY, CONDUIT RACEWAYS, CONDUIT BACKBOXES, FLOOR AND WALL SLEEVES SHALL BE PROVIDED BY THE DIVISION 26 CONTRACTOR. CONDUIT RACEWAY SHALL BE PROVIDED FROM BACKBOX TO NEAREST ACCESSIBLE CABLE TRAY. THE EXCEPTION TO THIS RULE WILL BE THAT THE DIVISION 27 CONTRACTOR SHALL PROVIDE ALL CABLE TRAY WITHIN THE BDF, MDF, EIDF, AND ALL IDFS.
4. COORDINATE WITH ARCHITECTURAL ELEVATION DRAWINGS FOR EXACT OUTLET LOCATIONS AND HEIGHTS. ALL OUTLET LOCATIONS AND WALLBOX PLACEMENT SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS.
5. PLYWOOD ON WALLS IN THE BDF, MDF, IDFS, AND EIDF SHALL BE IN COMPLIANCE WITH CNS STANDARDS. THE FIRE RATING STAMP ON PLYWOOD SHEETS SHALL NOT BE PAINTED OVER OR COVERED IN ANY MANNER. THE FIRE RATING STAMP SHALL FACE OUT AND BE READILY VISIBLE.
6. COORDINATE INSTALLATION OF REQUIRED CABLE LOCATIONS WITH SECURITY, AV SYSTEMS, LIGHTING CONTROL, EQUIPMENT MONITORING, ETC. WITH SYSTEM VENDORS AND INTEGRATORS. REFER TO SYSTEMS VENDORS CONTRACT AND PROJECT DOCUMENTS FOR ADDITIONAL INFORMATION.
7. CABLE TRAY AND SUPPORTING INFRASTRUCTURE SHOWN IN HALF-TONE PROVIDED DURING PREVIOUS PHASE AND IS EXISTING TO REMAIN.

KEYED NOTES

1 MOUNT OFCI WIRELESS ACCESS POINT ENCLOSURE THIS LOCATION. PROVIDE 1" CONDUIT RACEWAY ABOVE CEILING FRON ENCLOSURE TO EXISTING WAP LOCATION FOR INSTALLATION OF OFCI PATCH CABLE FROM EXISTING WAP LOCATION.

2 MOUNT OFCI WIRELESS ACCESS POINT ENCLOSURE THIS LOCATION. PROVIDE 1" CONDUIT RACEWAY ABOVE CEILING FROM ENCLOSURE TO CABLE TRAY IN ACCESSIBLE ADJACENT CEILING FOR NEW WAP CABLING.



KEY PLAN

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THINK CREATE REALIZE

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JACOBS Consultancy

AEI Affiliated Engineers

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HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - CD REVIEW	12/04/20
2	P4 - BID & PERMIT	01/08/21

Drawn By KO

Checked By AS

Client Number 514

Project Number 15576

DRAWING

TECHNOLOGY PHASE 4 FO PLAN LEVEL 04 AREA A

SHEET NO.

TF-264A

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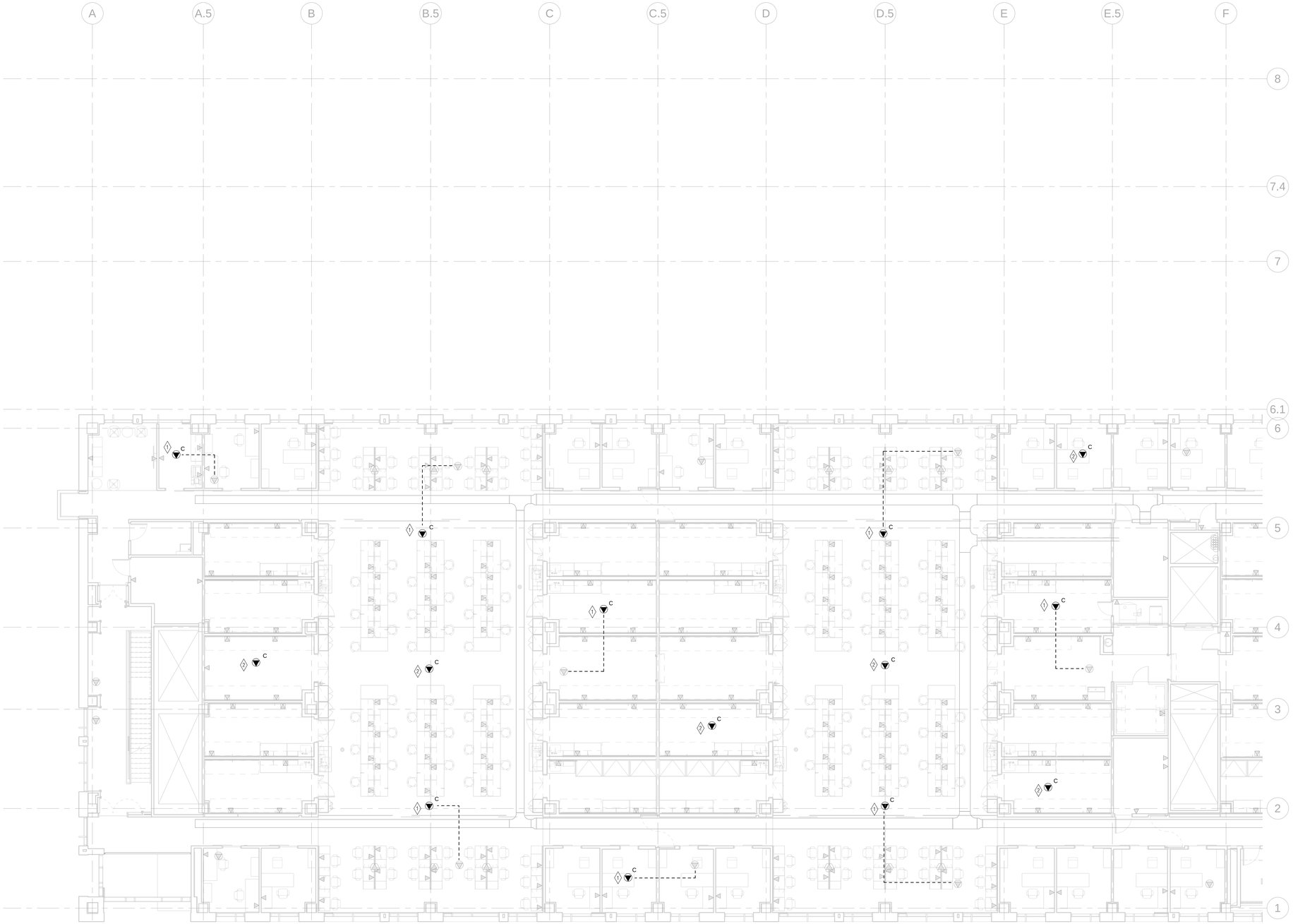

1 TF-264B **TECH_04-PH4_B**
1/8" = 1'-0"

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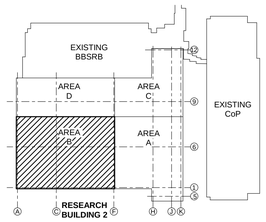

KEY PLAN

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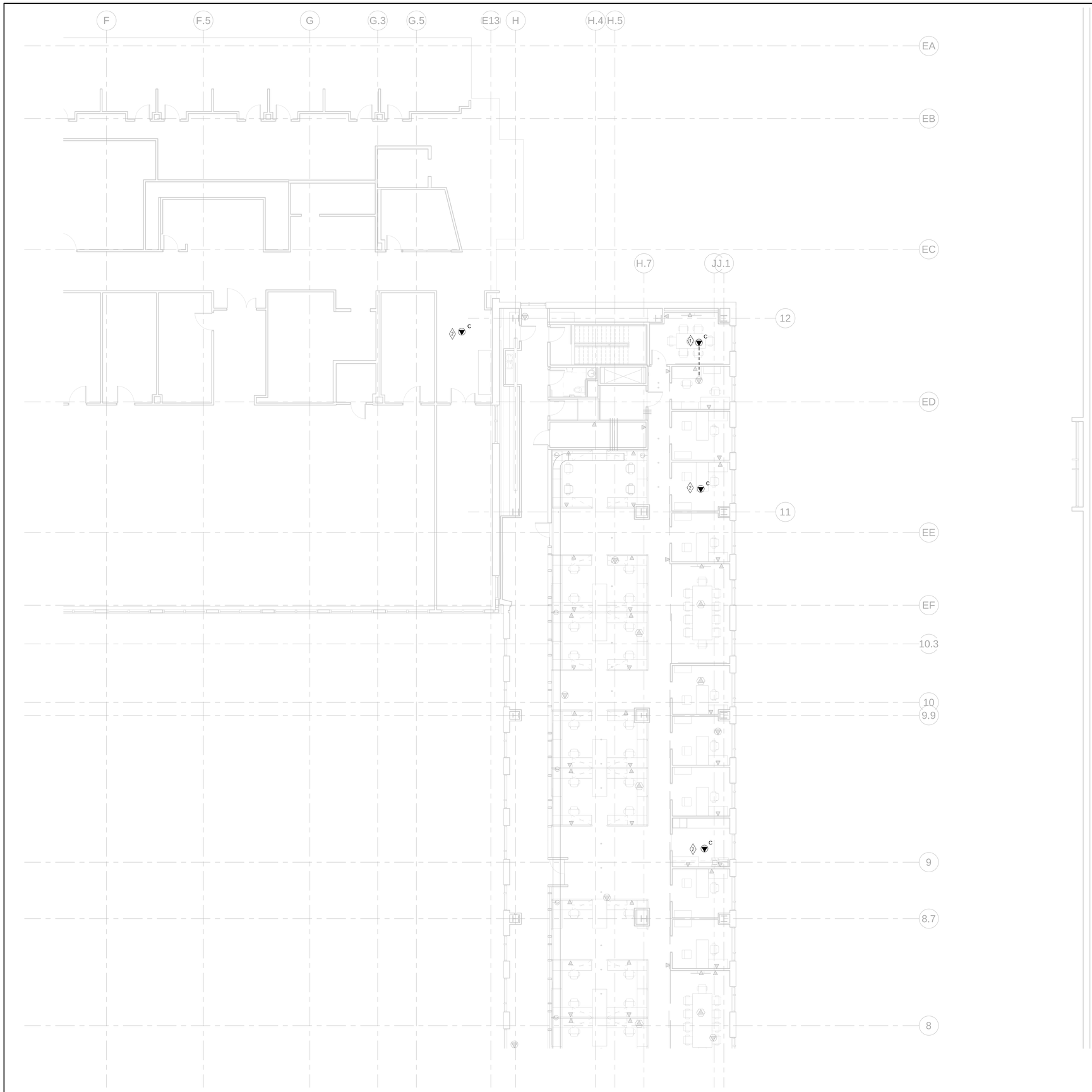
2	P4 - BID & PERMIT	01/08/21

Drawn By KO
Checked By AS
Client Number 514
Project Number 15576

DRAWING
TECHNOLOGY PHASE 4 FO PLAN LEVEL 04 AREA B

SHEET NO.
TF-264B

1/7/2021 3:47:34 PM



1 TF-264C **TECH_04-PH4_C**
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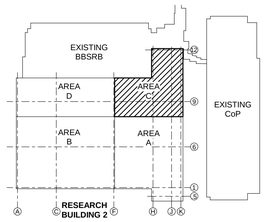

KEY PLAN

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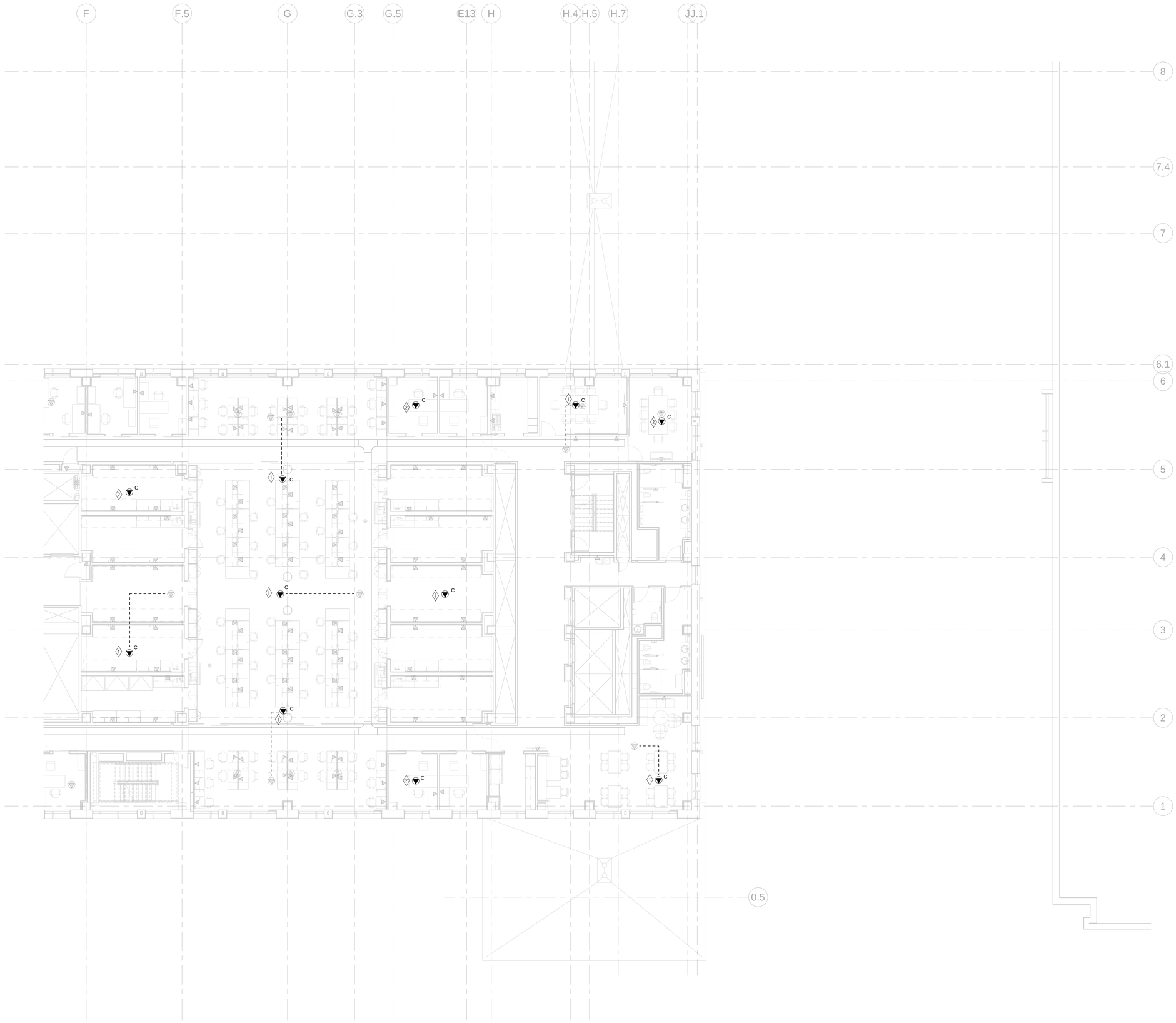
1	P4 - CD REVIEW	12/04/20
2	P4 - BID & PERMIT	01/08/21

Drawn By KO
Checked By AS
Client Number 514
Project Number 15576

DRAWING
TECHNOLOGY PHASE 4 FO PLAN LEVEL 04 AREA C

SHEET NO.
TF-264C

1/7/2021 3:47:44 PM



1 TF-265A **TECH_05-PH4_A**
1/8" = 1'-0"

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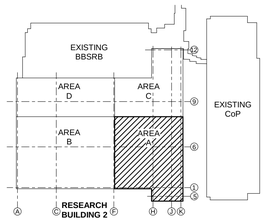

KEY PLAN

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Drawn By	KO
Checked By	AS
Client Number	514
Project Number	15576

DRAWING

TECHNOLOGY PHASE 4 FO PLAN LEVEL 05 AREA A

SHEET NO.

TF-265A

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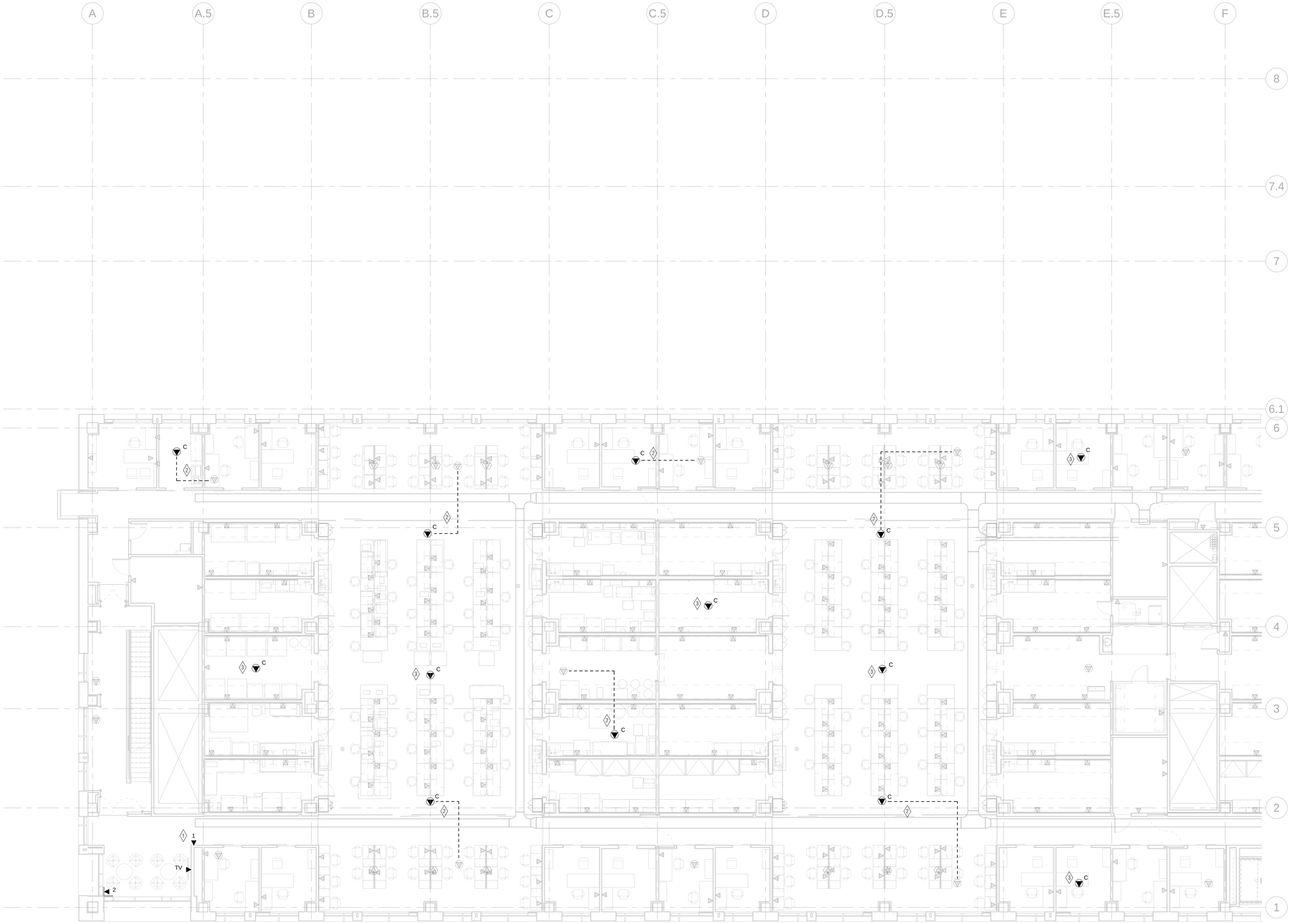

1 TECH_05-PH4_B
TF-265B 1/8" = 1'-0"

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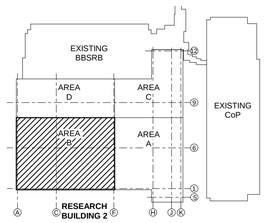
7. CABLE TRAY AND SUPPORTING INFRASTRUCTURE SHOWN IN HALF-TONE PROVIDED DURING PREVIOUS PHASE AND IS EXISTING TO REMAIN.

KEYED NOTES

1 PROVIDE DATA LOCATION AT 48" HEIGHT FOR FUTURE SCHEDULING DISPLAY DEVICE.

2 MOUNT OFCI WIRELESS ACCESS POINT ENCLOSURE THIS LOCATION. PROVIDE 1" CONDUIT RACEWAY ABOVE CEILING FRON ENCLOSURE TO EXISTING WAP LOCATION FOR INSTALLATION OF OFCI PATCH CABLE FROM EXISTING WAP LOCATION.

3 MOUNT OFCI WIRELESS ACCESS POINT ENCLOSURE THIS LOCATION. PROVIDE 1" CONDUIT RACEWAY ABOVE CEILING FROM ENCLOSURE TO CABLE TRAY IN ACCESSIBLE ADJACENT CEILING FOR NEW WAP CABLING.



KEY PLAN

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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

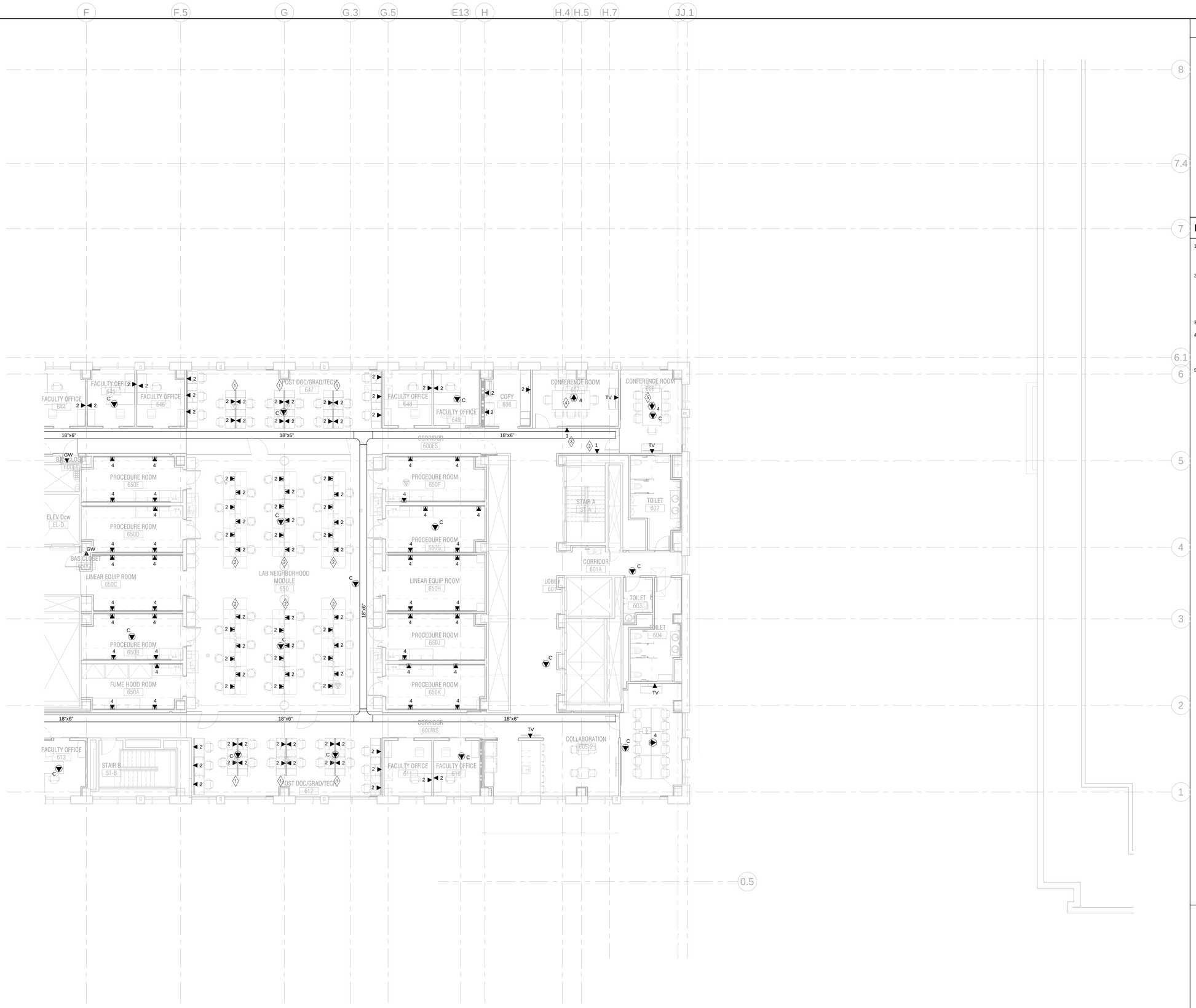
No.	Description	Date
1	P4 - CD REVIEW	12/04/20
2	P4 - BID & PERMIT	01/08/21

Drawn By KO
Checked By AS
Client Number 514
Project Number 15576

DRAWING
TECHNOLOGY PHASE 4 FO PLAN LEVEL 05 AREA B

SHEET NO.
TF-265B

1/7/2021 3:48:07 PM



1 TF-266A **TECHNOLOGY PHASE 4 FO PLAN LEVEL 06 AREA A**

1/8" = 1'-0"

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7. CABLE TRAY AND SUPPORTING INFRASTRUCTURE SHOWN IN HALF-TONE PROVIDED DURING PREVIOUS PHASE AND IS EXISTING TO REMAIN.

KEYED NOTES

1. UTILIZE EXISTING POKE-THRU FLOOR BOX FOR NEW DATA CABLING TO FURNITURE SYSTEM. PROVIDE FLEX CONDUIT SIZED ACCORDING TO UNIVERSITY OF KENTUCKY IT STANDARDS. COORDINATE ROUTING THROUGH WITH FURNITURE FEED SYSTEM WITH ARCHITECTURAL DRAWINGS AND FURNITURE MANUFACTURER DOCUMENTS PRIOR TO INSTALLATION.
2. TERMINATE DATA CABLES FROM IDF AT 4-PORT MODULAR WIRING PANELS IN CEILING. CONTRACTRO SHALL LEAVE A MINIMUM OF 5' SERVICE LOOP COILED NEATLY IN THE CEILING. PRE WIRED FURNITURE FEED SYSTEM SHALL INTERFACE WITH 4-PORT DATA PANELS IN CEILING. CONTRATOR SHALL PROVIDE AND INSTALL SPIRAL WRAP FOR DATA CABLE ROUTING FROM CEILING MODULAR PANEL INTERFACE TO DESK WORKSTATION. COORDINATE WITH ELECTRICAL DRAWINGS FOR MORE INFORMATION. COORDINATE WITH PRE WIRED FURNITURE SYSTEM MANUFACTURER PRIOR TO INSTALLATION.
3. PROVIDE DATA LOCATION AT 48" HEIGHT FOR FUTURE SCHEDULING DISPLAY DEVICE.
4. EC TO PROVIDE NEW POKE-THRU FLOOR BOX FOR AV FEED TO FURNITURE SYSTEM. PROVIDE FLEX CONDUIT SIZED ACCORDING TO UNIVERSITY OF KENTUCKY IT STANDARDS. COORDINATE ROUTING THROUGH WITH FURNITURE FEED SYSTEM AND EXACT POINT OF TERMINATION WITH ARCHITECTURAL DRAWINGS AND FURNITURE MANUFACTURER DOCUMENTS PRIOR TO INSTALLATION.
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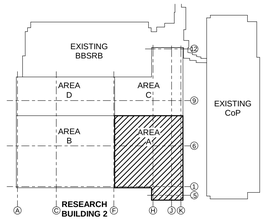

KEY PLAN

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UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

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3	P4 - BID & PERMIT	01/08/21

Drawn By KO

Checked By AS

Client Number 514

Project Number 15576

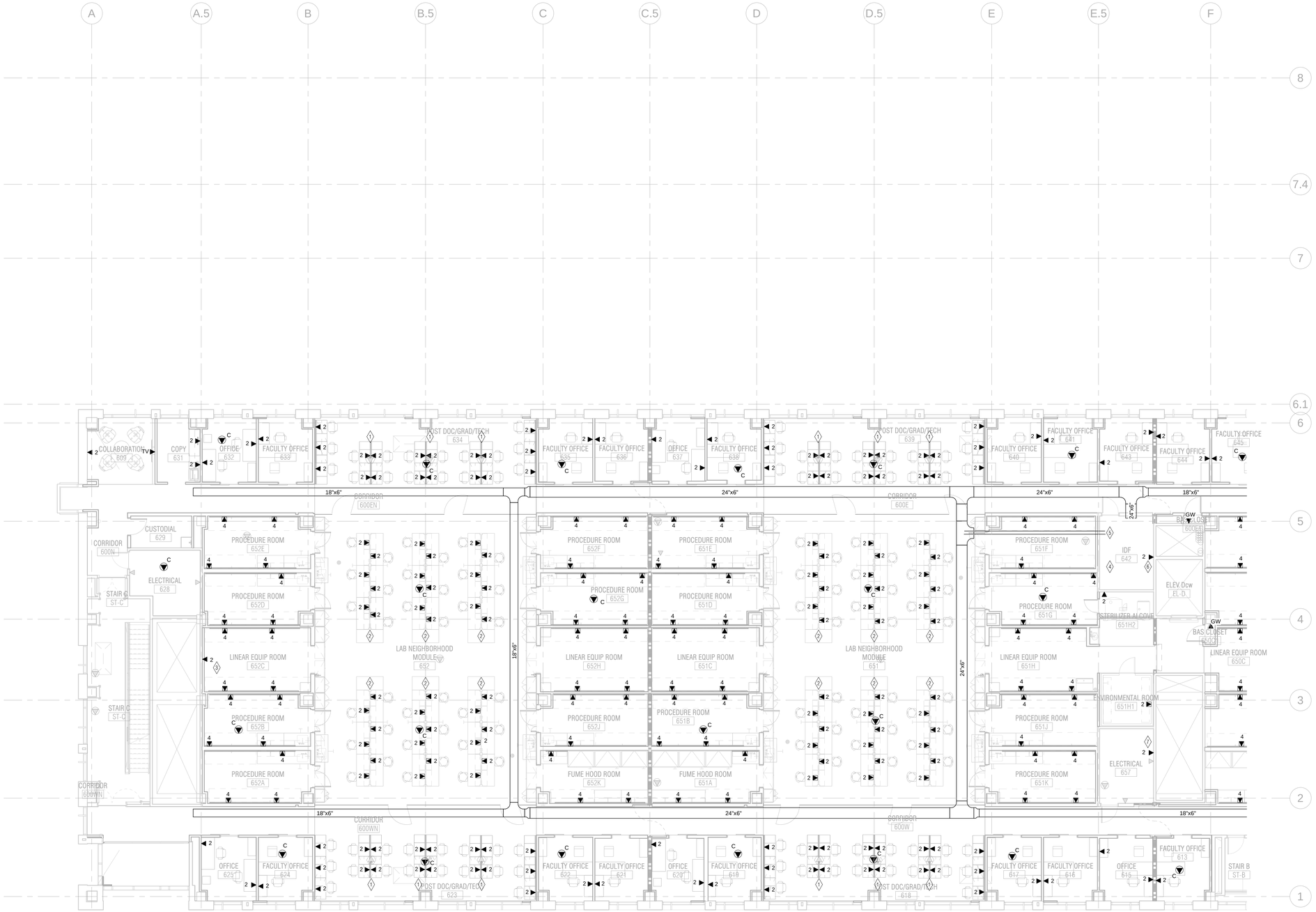
DRAWING

TECHNOLOGY PHASE 4 FO PLAN LEVEL 06 AREA A

SHEET NO.

TF-266A

1/7/2021 3:48:19 PM



1 TF-266B **TECHNOLOGY PHASE 4 FO PLAN LEVEL 06 AREA B**

1/8" = 1'-0"

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1. ALL WORK AND MATERIAL SHALL COMPLY WITH UNIVERSITY OF KENTUCKY COMMUNICATIONS AND NETWORK SYSTEMS (CNS) TELECOMMUNICATION STANDARDS (LATEST VERSION).
2. CABLES ON THIS SHEET SHALL TERMINATE IN THE DESIGNATED IDF AS LISTED ON THE SHEET OR IN THE KEYNOTES.
3. CABLE TRAY, CONDUIT RACEWAYS, CONDUIT BACKBOXES, FLOOR AND WALL SLEEVES SHALL BE PROVIDED BY THE DIVISION 26 CONTRACTOR. CONDUIT RACEWAY SHALL BE PROVIDED FROM BACKBOX TO NEAREST ACCESSIBLE CABLE TRAY. THE EXCEPTION TO THIS RULE WILL BE THAT THE DIVISION 27 CONTRACTOR SHALL PROVIDE ALL CABLE TRAY WITHIN THE BDF, MDF, EIDF, AND ALL IDFS.
4. COORDINATE WITH ARCHITECTURAL ELEVATION DRAWINGS FOR EXACT OUTLET LOCATIONS AND HEIGHTS. ALL OUTLET LOCATIONS AND WALLBOX PLACEMENT SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS.
5. PLYWOOD ON WALLS IN THE BDF, MDF, IDFS, AND EIDF SHALL BE IN COMPLIANCE WITH CNS STANDARDS. THE FIRE RATING STAMP ON PLYWOOD SHEETS SHALL NOT BE PAINTED OVER OR COVERED IN ANY MANNER. THE FIRE RATING STAMP SHALL FACE OUT AND BE READILY VISIBLE.
6. COORDINATE INSTALLATION OF REQUIRED CABLE LOCATIONS WITH SECURITY, AV SYSTEMS, LIGHTING CONTROL, EQUIPMENT MONITORING, ETC. WITH SYSTEM VENDORS AND INTEGRATORS. REFER TO SYSTEMS VENDORS CONTRACT AND PROJECT DOCUMENTS FOR ADDITIONAL INFORMATION.
7. CABLE TRAY AND SUPPORTING INFRASTRUCTURE SHOWN IN HALF-TONE PROVIDED DURING PREVIOUS PHASE AND IS EXISTING TO REMAIN.

KEYED NOTES

1 UTILIZE EXISTING POKE-THRU FLOOR BOX FOR NEW DATA CABLING TO FURNITURE SYSTEM. PROVIDE FLEX CONDUIT SIZED ACCORDING TO UNIVERSITY OF KENTUCKY IT STANDARDS. COORDINATE ROUTING THROUGH WITH FURNITURE FEED SYSTEM WITH ARCHITECTURAL DRAWINGS AND FURNITURE MANUFACTURER DOCUMENTS PRIOR TO INSTALLATION.

2 TERMINATE DATA CABLES FROM IDF AT 4-PORT MODULAR WIRING PANELS IN CEILING. CONTRACTRO SHALL LEAVE A MINIMUM OF 5' SERVICE LOOP COILED NEATLY IN THE CEILING. PRE WIRED FURNITURE FEED SYSTEM SHALL INTERFACE WITH 4-PORT DATA PANELS IN CEILING. CONTRATOR SHALL PROVIDE AND INSTALL SPIRAL WRAP FOR DATA CABLE ROUTING FROM CEILING MODULAR PANEL INTERFACE TO DESK WORKSTATION. COORDINATE WITH ELECTRICAL DRAWINGS FOR MORE INFORMATION. COORDINATE WITH PRE WIRED FURNITURE SYSTEM MANUFACTURER PRIOR TO INSTALLATION.

3 OUTLET TO BE MOUNTED ABOVE CEILING TILE. COORDINATE EXACT MOUNTING HEIGHT IN FIELD.

4 EQUIPMENT ROOM INFRASTRUCTURE INCLUDING CABLE RUNWAY, RACKS, AND VERTICAL WIRE MANAGEMENT WITHING EXISTING IDF WAS PROVIDED IN PREVIOUS PHASE. CONTRACTOR SHALL PROVIDE NEW MODULAR PATCH PANELS AND HORIZONTAL WIRE MANAGEMENT AS NECESSARY TO ACCOMODATE NEW WORK FOR THIS PHASE. COORDINATE PLACEMENT OR PATCH PANELS WITH CNS PRIOR TO FINAL TERMINATIONS.

5 CONTRACTOR SHALL PROVIDE AND INSTALL (4) 4" EMT CONDUIT RACEWAYS FROM THE CABLE TRAY IN THE CORRIDOR OF LAB NEIGHBORHOOD MODULE 451 TO THE CABLE RUNWAY IN IDF 442. TERMINATE CONDUIT ENDS WITH BUSHINGS PER UK IT STANDARDS. FIRESTOP ALL WALL PENETRATIONS PER PROJECT SPECIFICATIONS.

6 DATA LOCATION FOR SECURITY PANEL. COORDINATE EXACT MOUNTING LOCATION WITH SECURITY CONTRACTOR.

7 PROVIDE DATA LOCATION FOR LIGHTING CONTROL NETWORK PANEL.

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HEALTHY KENTUCKY RESEARCH BUILDING

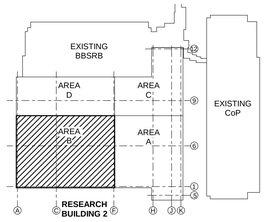
UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21



KEY PLAN

Drawn By	Author
Checked By	AS
Client Number	514
Project Number	15576

DRAWING

TECHNOLOGY PHASE 4 FO PLAN LEVEL 06 AREA B

SHEET NO.

TF-266B

1/7/2021 3:48:33 PM

AUDIO VISUAL SYMBOLS AND ABBREVIATIONS

NOTE: SYMBOLS AND ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE CONTRACT DOCUMENTS. ALL MEASUREMENTS FROM AFF ARE TO THE CENTER OF OUTLET.

X — WORKSTATION OUTLETS
CONFIGURATION: X=REFER TO CHART BELOW
MOUNTING LOCATION: REFER TO CHART BELOW
MOUNTING HEIGHT: REFER TO CHART BELOW

IC — INTERCOM OUTLETS - WALL MOUNTED
CONFIGURATION: REFER TO CHART BELOW
MOUNTING LOCATION: FLUSH WALL
MOUNTING HEIGHT: FIELD VERIFY

CONVENIENCE POWER RECEPTACLE PROVIDED BY DIVISION 26 (ELEVATION VIEW)

TGB — CROSS CONNECT POINT (NEW)

NEW

FUTURE

EXISTING

CONDUIT STUB-UP MOUNTING
LOCATION: FLOOR

CONDUIT STUB
MOUNTING LOCATION:
WALL

REFER / SHT # — GENERAL REFERENCE
DESIGNATES SHEET NUMBER

DET # / SHT # — DETAIL REFERENCE
TOP DESIGNATES DETAIL NUMBER
BOTTOM DESIGNATES SHEET NUMBER

/ SHT # — SECTION REFERENCE
TOP DESIGNATES SECTION NUMBER
BOTTOM DESIGNATES SHEET NUMBER

ELEVATION SYMBOL

NEW CONNECTION TO EXISTING

NAME / # — EQUIPMENT NAME AND NUMBER

— LAB EQUIPMENT NUMBER

— PLAN NOTE NUMBER

— REVISION NUMBER

— CONSTRUCTION BULLETIN NUMBER

TYPICAL ABOVE CEILING TRADE ZONES

NOTE TRADE CONTRACTOR SHALL ROUTE SERVICES THROUGH THEIR RESPECTIVE ZONES AND COORDINATE ALL PATHWAYS WITH OTHER TRADES. PHASE INSTALLATION AS NECESSARY TO ALLOW OTHER TRADES TO INSTALL SERVICES AS INDICATED ON PLANS.

STRUCTURE

HVAC/DRAINAGE PIPING ZONE

PIPING/FIRE PROTECTION ZONE

ELECTRICAL CONDUIT/IT/CABLE TRAY ZONE

LIGHTING ZONE

CEILING

FLOOR

CONFIGURATION TYPE (X)	DESCRIPTION	# OF DATA JACKS	# OF COAX JACKS	# OF FIBER JACKS	DATA CABLE TYPE	CABLE COLOR	FACEPLATE	ICON COLOR	DEFAULT MOUNTING HEIGHT (REFER TO ARCHITECTURAL ELEVATIONS)	CONDUIT	CABLE SOURCE
AVC	AV CAMERA	1			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	FLUSH CEILING	(1) 1"	IDF ROOM
AVTV	AV TV	2	1		CAT. 6A F/UTP	GREEN	1-GANG	GREEN	AS NOTED ON AV DRAWINGS	MIN (2) 1.25" OR AS NOTED ON AV DRAWINGS	IDF ROOM OR AS NOTED ON AV DRAWINGS
IC	INTERCOM	1			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	48" AFF	(1) 1"	IDF ROOM
-	-	1			CAT. 6A F/UTP	GREEN	1-GANG	GREEN	FLUSH CEILING	(1) 1"	IDF ROOM
-	-										
-	-										

NOTES:
1. MOUNTING HEIGHTS ARE AS LISTED, UNLESS OTHERWISE NOTED ON DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT ELEVATIONS.
2. PROVIDE BLANK MODULES OR INSERTS AS REQUIRED TO FILL EMPTY FACEPLATE PORTS.
3. ALL CONDUIT, CABLE TRAY, SURFACE RACEWAY, FLOOR BOXES, AND BACK BOXES PROVIDED BY ELECTRICAL CONTRACTOR.
4. ALL COMMUNICATIONS FACEPLATES, JACKS, CABLE, TERMINATION HARDWARE, AND HORIZONTAL CABLE MANAGEMENT BY COMMUNICATIONS CONTRACTOR.
5. FOR FLOOR-MOUNTED OUTLETS, TERMINATE CABLES AT IDF ON SAME LEVEL AS OUTLET.
6. IP OVERHEAD PAGING SPEAKERS ARE OFOI, IF APPLICABLE.
7. ALL FLOOR BOXES SERVING DATA LOCATIONS SHALL BE SERVED BY MINIMUM TWO (2) 1" CONDUITS. CONDUITS SHALL BE SIZED LARGER WHERE REQUIRED.
8. ALL FLOOR BOXES SERVING AV LOCATIONS SHALL BE SERVED BY MINIMUM TWO (2) 1.25" CONDUITS. CONDUITS SHALL BE SIZED LARGER WHERE REQUIRED.

AUDIO VISUAL - FLAT PANEL DISPLAY SCHEDULE PHASE 4 FO

OUTLET ID	Level	Comments
101	LEVEL 01	
102	LEVEL 01	
103	LEVEL 01	
104	LEVEL 01	
105	LEVEL 01	
404	LEVEL 04	
405	LEVEL 04	
407	LEVEL 04	
408	LEVEL 04	
409	LEVEL 04	
411	LEVEL 04	
501	LEVEL 05	
502	LEVEL 05	
503	LEVEL 05	
504	LEVEL 05	
505	LEVEL 05	
506	LEVEL 05	
	LEVEL 06	
	LEVEL 06	
	LEVEL 06	
	LEVEL 06	
	LEVEL 06	
	LEVEL 06	

CABLING SCHEDULE

A	(1) Pre-terminated HDMI cord
B	(2) CAT-6 cables for HDMI over Cat6
C	Low voltage control cables for automated motorized screen control
D	No cabling, conduit infrastructure only

CONDUIT SIZE SCHEDULE

1	1" EMT
2	1-1/4" EMT
3	1-1/2" EMT
4	2" EMT

AUDIO VISUAL - PROJECTOR SCREEN SCHEDULE PHASE 4 FO

Mark	Level	LENGTH	Comments
	LEVEL 01	6' - 0"	
	LEVEL 01	6' - 0"	LEVEL

AUDIO VISUAL SYMBOL LIST

X# — CABLING-CONDUIT CALL OUT. LETTER FOR CABLING. NUMBER FOR CONDUIT SIZE. SEE CABLING AND CONDUIT SIZE TABLES ON THIS SHEET.

AV — MULTI-SERVICE FLOOR BOX. POWER, DATA, AV

TV — FLAT PANEL CONNECTION WALL BOX. PROVIDE FULL SINGLE GANG FACE PLATE FOR DATA AND AV CONNECTION

AV — AV CONNECTION WALL BOX. PROVIDE FULL SINGLE GANG FACE PLATE FOR DATA AND AV CONNECTION. CONNECTION TO SUPPORT TV CONNECTIVITY TO AV OUTLET. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.

PRJCTR — CEILING MOUNTED PROJECTOR

AV-F — AV FLOOR JUNCTION BOX

AV FOUR POST RACK

CEILING MOUNTED MOTORIZED PROJECTOR SCREEN

CEILING MOUNTED AV CAMERA

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UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - CD REVIEW	12/04/20
2	P4 - BID & PERMIT	01/08/21

Drawn By KO
Checked By AS
Client Number 514
Project Number 15576

DRAWING
AUDIO VISUAL PHASE 4 FO SYMBOLS AND ABBREVIATIONS

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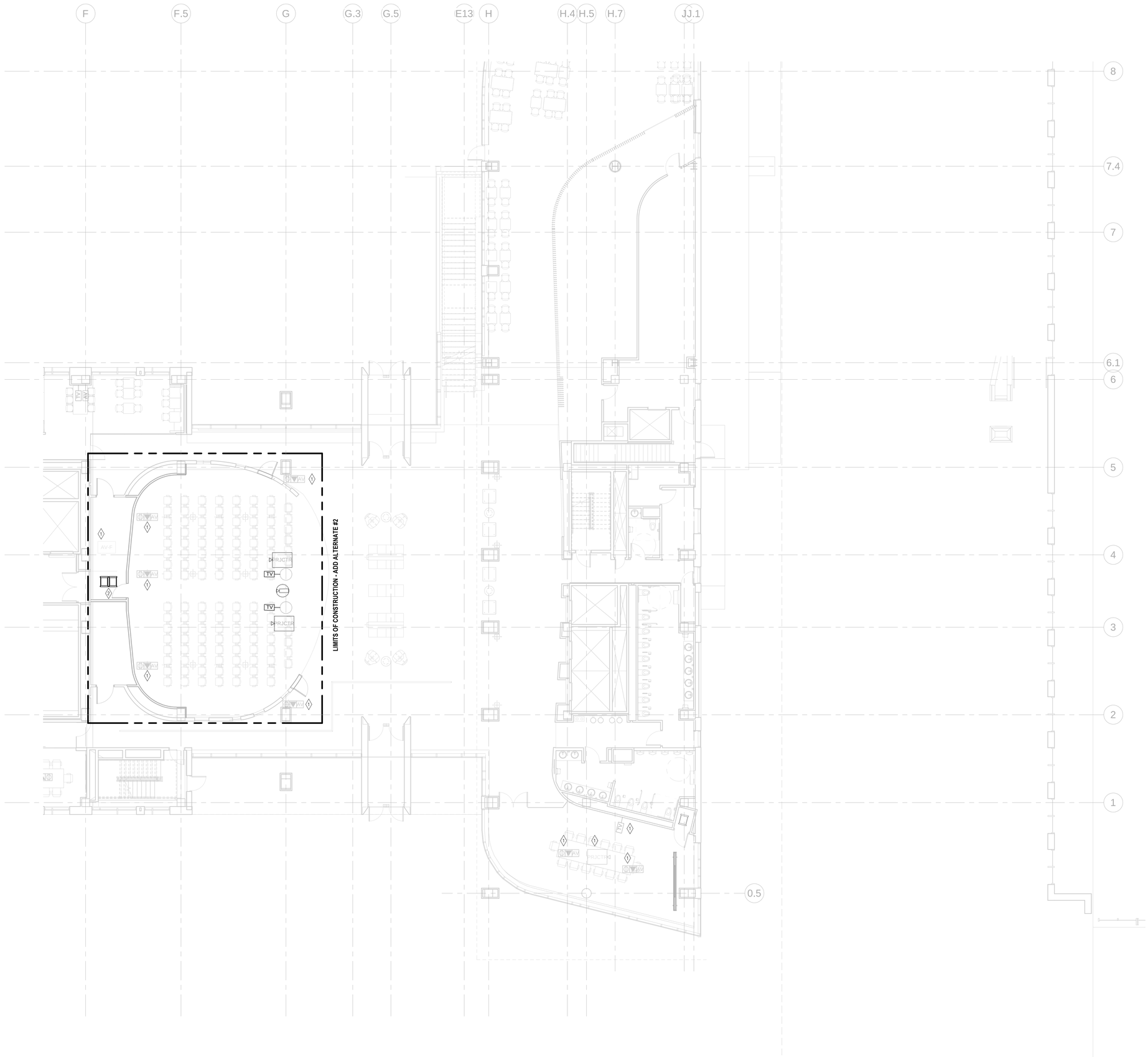
AVF-060

1/7/2021 3:45:36 PM



1 AVF-261A **AV_01-PH4 - Area A**
1/8" = 1'-0"

GENERAL NOTES

1. ALL WORK AND MATERIAL SHALL COMPLY WITH UNIVERSITY OF KENTUCKY COMMUNICATIONS AND NETWORK SYSTEMS (CNS) TELECOMMUNICATION STANDARDS (LATEST VERSION).
2. CABLE TRAY, CONDUIT RACEWAYS, CONDUIT BACKBOXES, FLOOR AND WALL SLEEVES SHALL BE PROVIDED BY THE DIVISION 26 CONTRACTOR. CONDUIT RACEWAY SHALL BE PROVIDED FROM BACKBOX TO NEAREST ACCESSIBLE CABLE TRAY. THE EXCEPTION TO THIS RULE WILL BE THAT THE DIVISION 27 CONTRACTOR SHALL PROVIDE ALL CABLE TRAY WITHIN THE BDF, MDF, EIDF, AND ALL IDFS.
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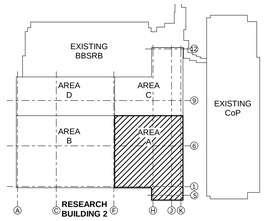
4. COORDINATE INSTALLATION OF REQUIRED CABLE LOCATIONS WITH EQUIPMENT AND SYSTEM VENDORS. REFER TO SYSTEM VENDOR CONTRACT AND PROJECT DOCUMENTS FOR ADDITIONAL INFORMATION.
5. CABLE TRAY AND SUPPORTING INFRASTRUCTURE SHOWN IN HALF-TONE PROVIDED DURING PREVIOUS PHASE AND IS EXISTING TO REMAIN.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING INSFRASTRUCTURE SHOWN ON DRAWINGS THAT IS REQUIRED TO SUPPORT SCOPE OF NEW WORK FOR THIS PHASE.

KEYED NOTES

1 ITEMS PROVIDED IN PREVIOUS PHASE.
2 PROVIDE NEW 84"HX19"WX36"D AV RACKS. COORDINATE REQUIREMENTS WITH UK AV AND ITS DEPARTMENTS.



KEY PLAN

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UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - CD REVIEW	12/04/20
2	P4 - BID & PERMIT	01/08/21

Drawn By KO
Checked By AS
Client Number 514
Project Number 15576

DRAWING
AUDIO VISUAL PHASE 4 FO PLAN LEVEL 01 AREA A

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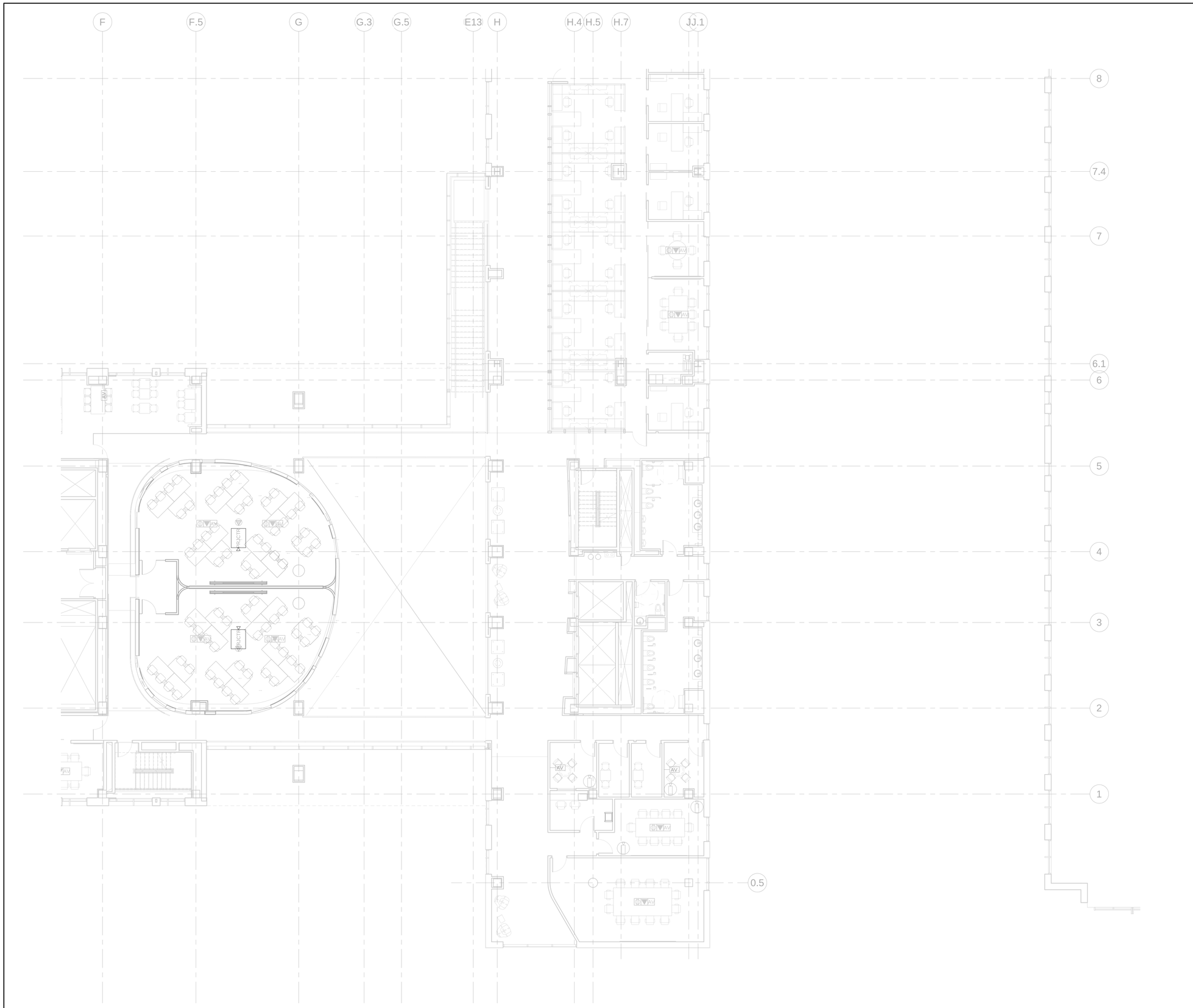

1 AV_02-PH4 - Area A
AVF-262A 1/8" = 1'-0"

GENERAL NOTES

1. ALL WORK AND MATERIAL SHALL COMPLY WITH UNIVERSITY OF KENTUCKY COMMUNICATIONS AND NETWORK SYSTEMS (CNS) TELECOMMUNICATION STANDARDS (LATEST VERSION).
2. CABLE TRAY, CONDUIT RACEWAYS, CONDUIT BACKBOXES, FLOOR AND WALL SLEEVES SHALL BE PROVIDED BY THE DIVISION 26 CONTRACTOR. CONDUIT RACEWAY SHALL BE PROVIDED FROM BACKBOX TO NEAREST ACCESSIBLE CABLE TRAY. THE EXCEPTION TO THIS RULE WILL BE THAT THE DIVISION 27 CONTRACTOR SHALL PROVIDE ALL CABLE TRAY WITHIN THE BDF, MDF, EIDF, AND ALL IDFS.
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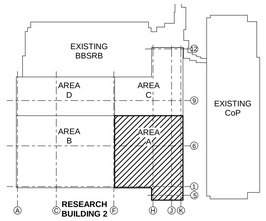
4. COORDINATE INSTALLATION OF REQUIRED CABLE LOCATIONS WITH EQUIPMENT AND SYSTEM VENDORS. REFER TO SYSTEM VENDOR CONTRACT AND PROJECT DOCUMENTS FOR ADDITIONAL INFORMATION.
5. CABLE TRAY AND SUPPORTING INFRASTRUCTURE SHOWN IN HALF-TONE PROVIDED DURING PREVIOUS PHASE AND IS EXISTING TO REMAIN.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING INSFRASTRUCTURE SHOWN ON DRAWINGS THAT IS REQUIRED TO SUPPORT SCOPE OF NEW WORK FOR THIS PHASE.



KEY PLAN

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UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - CD REVIEW	12/04/20
2	P4 - BID & PERMIT	01/08/21

Drawn By KO
Checked By AS
Client Number 514
Project Number 15576

DRAWING
AUDIO VISUAL PHASE 4 FO PLAN LEVEL 02 AREA A

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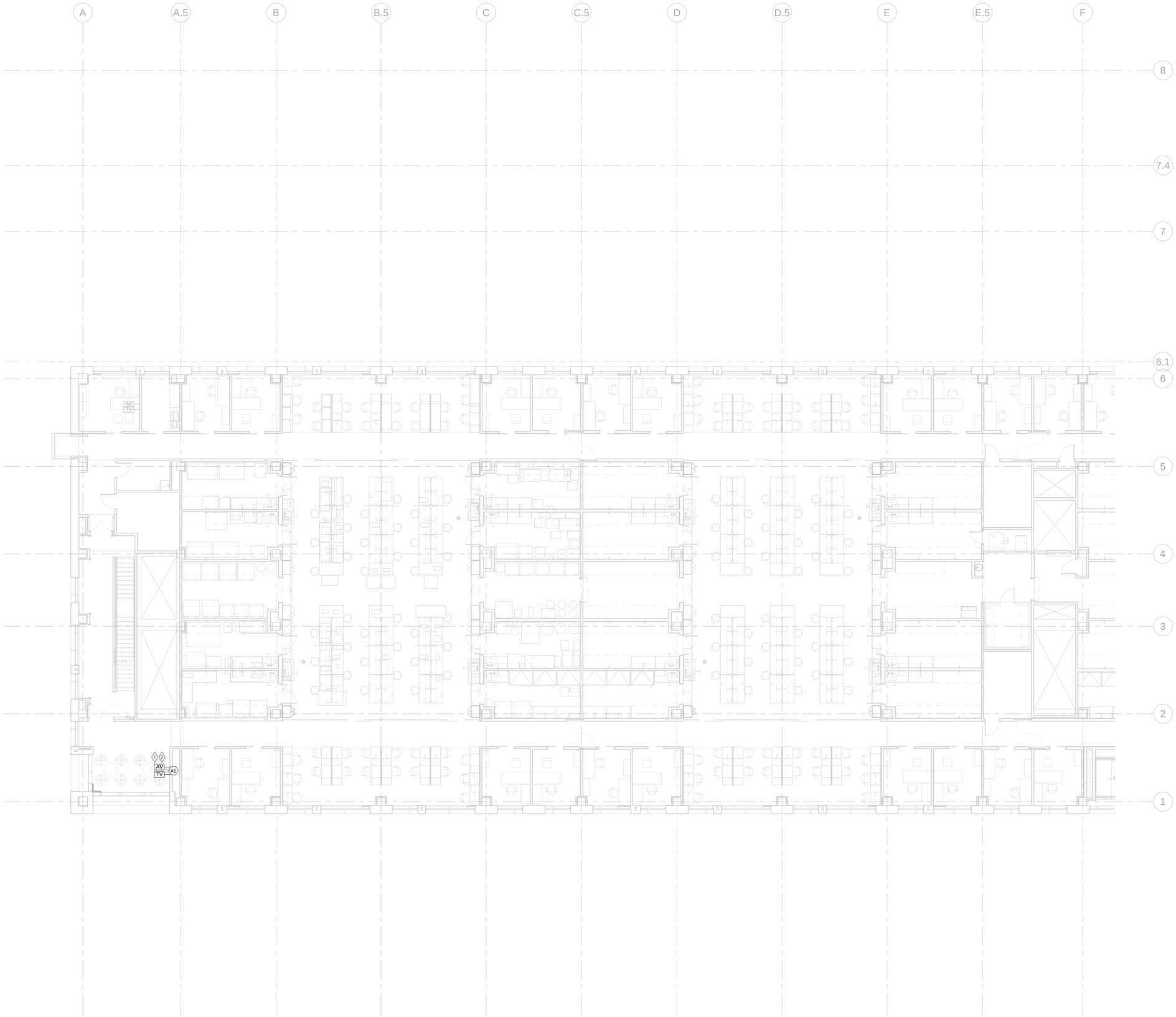

1 AVF-265B **AV_05-PH4 - Area B**
1/8" = 1'-0"

GENERAL NOTES

1. ALL WORK AND MATERIAL SHALL COMPLY WITH UNIVERSITY OF KENTUCKY COMMUNICATIONS AND NETWORK SYSTEMS (CNS) TELECOMMUNICATION STANDARDS (LATEST VERSION).
2. CABLE TRAY, CONDUIT RACEWAYS, CONDUIT BACKBOXES, FLOOR AND WALL SLEEVES SHALL BE PROVIDED BY THE DIVISION 26 CONTRACTOR. CONDUIT RACEWAY SHALL BE PROVIDED FROM BACKBOX TO NEAREST ACCESSIBLE CABLE TRAY. THE EXCEPTION TO THIS RULE WILL BE THAT THE DIVISION 27 CONTRACTOR SHALL PROVIDE ALL CABLE TRAY WITHIN THE BDF, MDF, EIDF, AND ALL IDFS.
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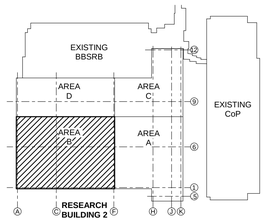
6. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING INSFRASTRUCTURE SHOWN ON DRAWINGS THAT IS REQUIRED TO SUPPORT SCOPE OF NEW WORK FOR THIS PHASE.

KEYED NOTES

1. EC TO PROVIDE WALL MOUNTED AV BOX. COORDINATE LOCATION OF TV DATA OUTLET WITH ARCHITECTURAL DRAWINGS.
2. EC TO PROVIDE RACEWAY AS NOTED BETWEEN AV WALLBOX AND TV WALLBOX.



KEY PLAN

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UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - BID & PERMIT	01/08/21

Drawn By KO
Checked By AS
Client Number 514
Project Number 15576

DRAWING
AUDIO VISUAL PHASE 4 FO PLAN LEVEL 05 AREA B

SHEET NO.
AVF-265B

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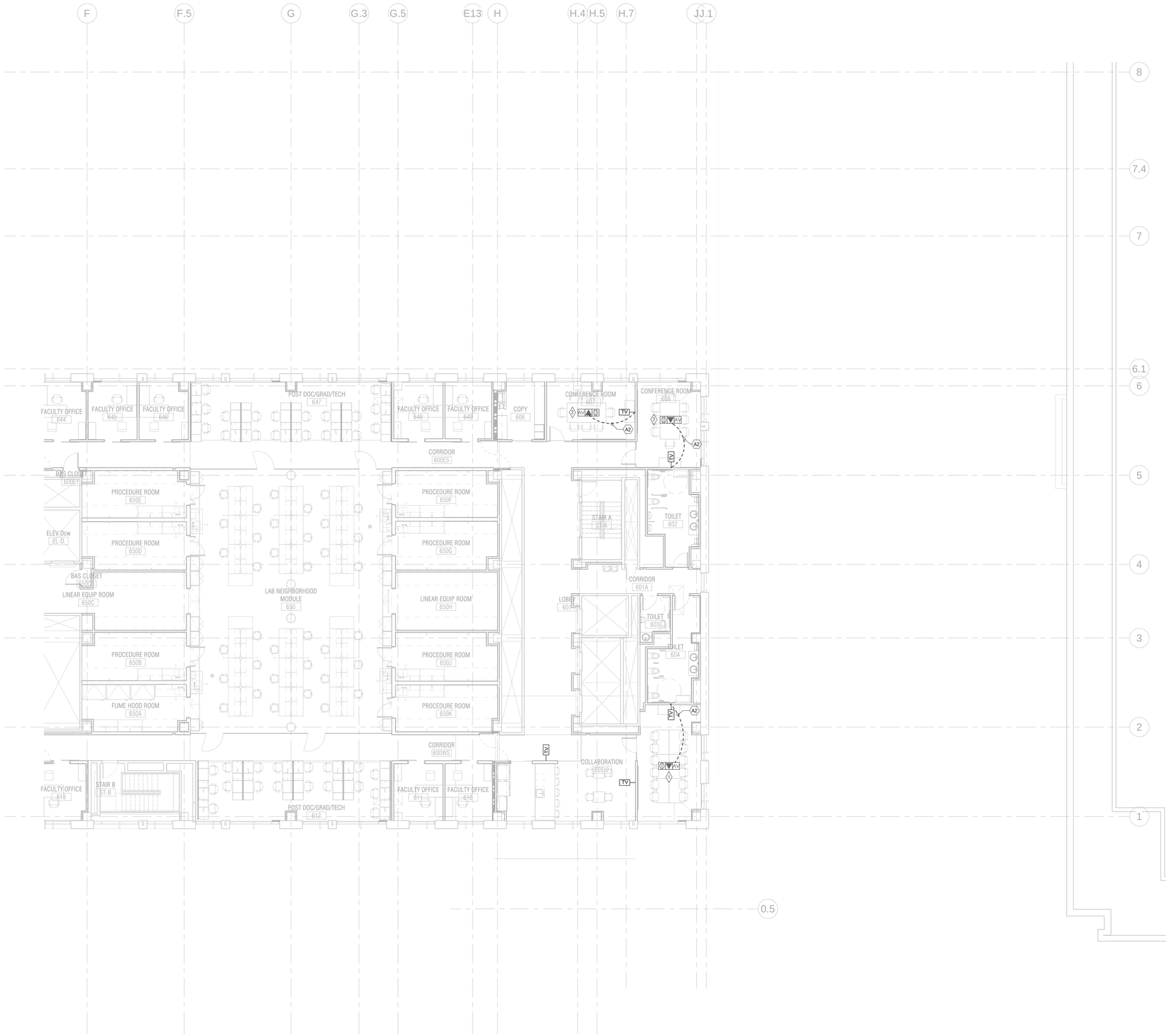

1 TECHNOLOGY PHASE 4 FO PLAN LEVEL 06 AREA A
AVF-266A 1/8" = 1'-0"

GENERAL NOTES

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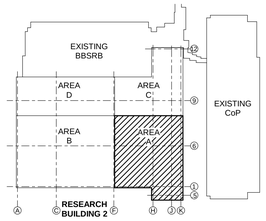
6. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING INSFRASTRUCTURE SHOWN ON DRAWINGS THAT IS REQUIRED TO SUPPORT SCOPE OF NEW WORK FOR THIS PHASE.

KEYED NOTES

1. ELECTRICAL CONTRACTOR TO PROVIDE NEW FLOOR BOX FOR POWER, DATA, AND AV. COORDINATE ALL REQUIREMENTS WITH TECHNOLOGY CONTRACTOR AND AV INTEGRATOR. COORDINATE REQUIREMENTS FOR ACCESSIBILITY BELOW ON LEVEL 5 FOR EXISTING HARD CEILING. PROVIDE RACEWAYS RACEWAYS FROM FLOORBOX TO ACCESSIBLE CEILING BELOW.
2. UTILIZE EXISTING POKE-THRU FLOOR BOX FOR NEW AV CABLING TO FURNITURE SYSTEM. PROVIDE FLEX CONDUIT SIZED ACCORDING TO UNIVERSITY OF KENTUCKY IT STANDARDS. COORDINATE ROUTING THROUGH WITH FURNITURE FEED SYSTEM AND EXACT POINT OF TERMINATION WITH ARCHITECTURAL DRAWINGS AND FURNITURE MANUFACTURER DOCUMENTS PRIOR TO INSTALLATION.



KEY PLAN

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ISSUANCES

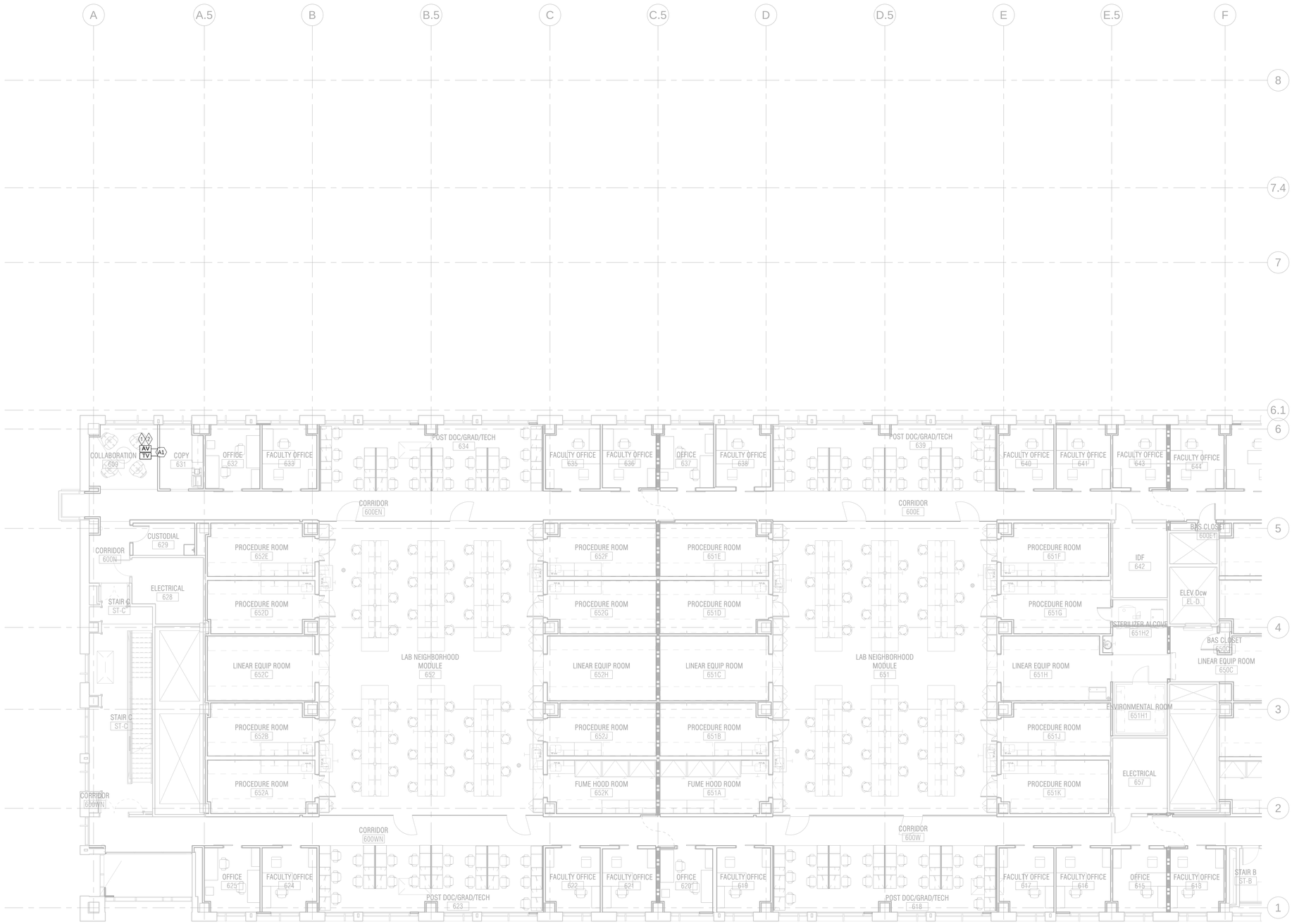
No.	Description	Date
1	P4 - CD REVIEW	12/04/20
2	P4 - BID & PERMIT	01/08/21

Drawn By KO
Checked By AS
Client Number 514
Project Number 15576

DRAWING
AUDIO VISUAL PHASE 4 FO PLAN LEVEL 06 AREA A

SHEET NO.
AVF-266A

1/7/2021 4:36:28 PM



1 AVF-266B **TECHNOLOGY PHASE 4 FO PLAN LEVEL 06 AREA A**
1/8" = 1'-0"

GENERAL NOTES

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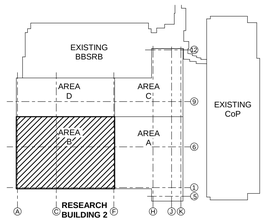
2. CABLE TRAY, CONDUIT RACEWAYS, CONDUIT BACKBOXES, FLOOR AND WALL SLEEVES SHALL BE PROVIDED BY THE DIVISION 26 CONTRACTOR. CONDUIT RACEWAY SHALL BE PROVIDED FROM BACKBOX TO NEAREST ACCESSIBLE CABLE TRAY. THE EXCEPTION TO THIS RULE WILL BE THAT THE DIVISION 27 CONTRACTOR SHALL PROVIDE ALL CABLE TRAY WITHIN THE BDF, MDF, EIDF, AND ALL IDFS.
3. COORDINATE WITH ARCHITECTURAL ELEVATION DRAWINGS FOR EXACT OUTLET LOCATIONS AND HEIGHTS. ALL OUTLET LOCATIONS AND WALLBOX PLACEMENT SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS.
4. COORDINATE INSTALLATION OF REQUIRED CABLE LOCATIONS WITH EQUIPMENT AND SYSTEM VENDORS. REFER TO SYSTEM VENDOR CONTRACT AND PROJECT DOCUMENTS FOR ADDITIONAL INFORMATION.
5. CABLE TRAY AND SUPPORTING INFRASTRUCTURE SHOWN IN HALF-TONE PROVIDED DURING PREVIOUS PHASE AND IS EXISTING TO REMAIN.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING INSFRASTRUCTURE SHOWN ON DRAWINGS THAT IS REQUIRED TO SUPPORT SCOPE OF NEW WORK FOR THIS PHASE.

KEYED NOTES

1 EC TO PROVIDE WALL MOUNTED AV BOX. COORDINATE LOCATION OF TV DATA OUTLET WITH ARCHITECTURAL DRAWINGS.

2 EC TO PROVIDE RACEWAY AS NOTED BETWEEN AV WALLBOX AND TV WALLBOX.



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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - CD REVIEW	12/04/20
2	P4 - BID & PERMIT	01/08/21

Drawn By KO
Checked By AS
Client Number 514
Project Number 15576

DRAWING
AUDIO VISUAL PHASE 4 FO PLAN LEVEL 06 AREA B

SHEET NO.
AVF-266B

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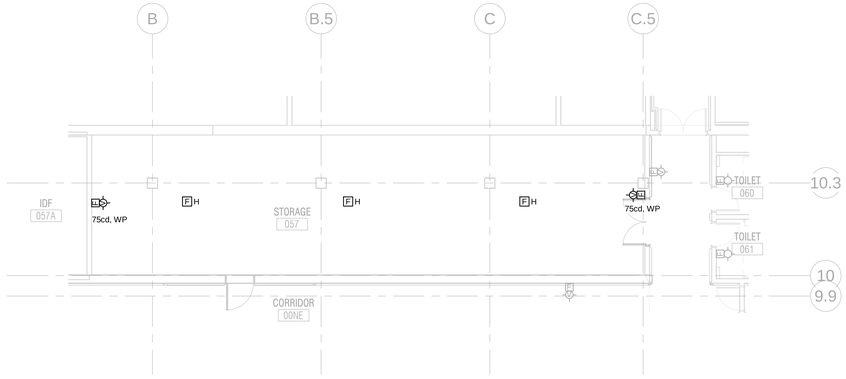
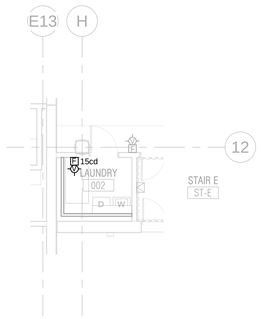


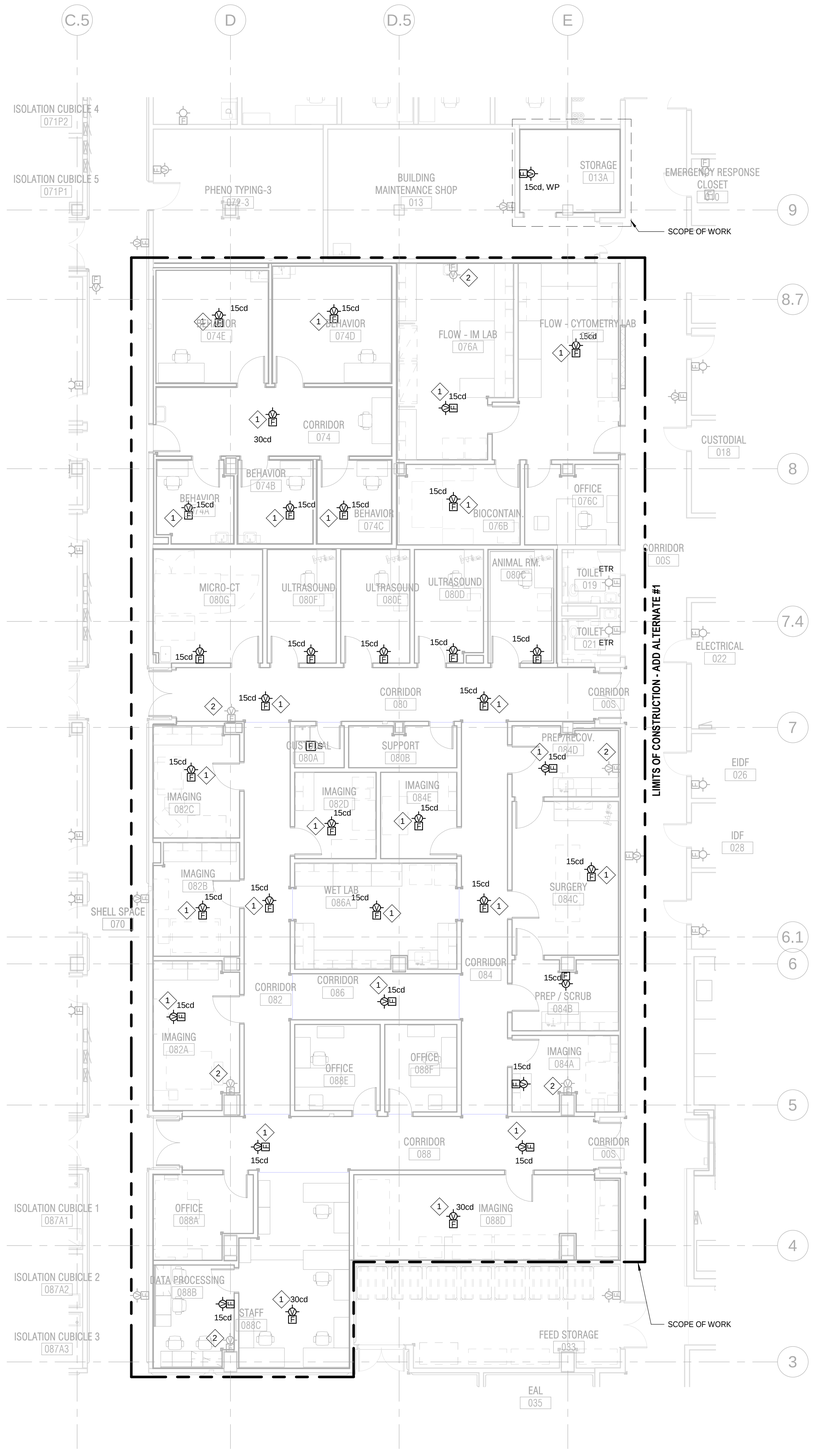
2 FAF-260 **FIRE ALARM PHASE 4 FO FLOOR PLAN LOWER LEVEL - STORAGE 057**

1/8" = 1'-0"



3 FAF-260 **FIRE ALARM PHASE 4 FO FLOOR PLAN LOWER LEVEL - LAUNDRY 002**

1/8" = 1'-0"



1 FAF-260 **FIRE ALARM PHASE 4 FO FLOOR PLAN LOWER LEVEL**

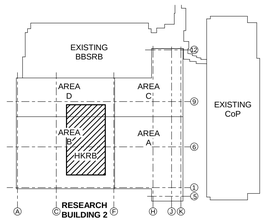
1/8" = 1'-0"

GENERAL NOTES

1. FIRE ALARM DRAWINGS ARE TO CONVEY DESIGN INTENT OF HOW THE BUILDING IS TO BE OPERATED. VARIATIONS IN MANUFACTURER'S SYSTEM COMPONENTS, LAYOUTS, AND PROGRAMMING REQUIRE THE MANUFACTURER TO DESIGN A SYSTEM SPECIFICALLY FOR THIS FACILITY BASED ON ITS SYSTEM'S PERFORMANCE.
2. ALL NECESSARY RELAYS MAY NOT BE SHOWN ON THIS PLAN; PROVIDE RELAYS WHERE REQUIRED FOR PROPER OPERATION OF THE SYSTEM.
3. FIRE ALARM VENDOR MUST PROVIDE A REMOTE INDICATOR DEVICE WITH FOR EACH HEAT AND/OR SMOKE DETECTOR THAT IS NOT VISIBLE FROM THE FLOOR, AND FOR EACH DUCT SMOKE DETECTOR DEVICE. REMOTE INDICATOR DEVICES ARE TO BE MOUNTED AT 46" AFF AS CLOSE TO DETECTOR AS POSSIBLE. VERIFY FINAL LOCATION WITH ARTHITECT PRIOR TO INSTALLATION.
4. PROVIDE FIRE ALARM CONNECTIONS TO FIRE/SMOKE DAMPERS AT LOCATIONS SHOWN ON THE MECHANICAL DRAWINGS AND AS SPECIFIED.
5. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF SUPPLY AND RETURN DUCTWORK REQUIRING DUCT SMOKE DETECTOR INSTALLATIONS.
6. ALL ALARM SEQUENCES FOR FIRE ALARM SYSTEM MUST BE COORDINATED AND VERIFIED WITH OWNER.
7. ALL FIRE WIRING MUST BE INSTALLED IN CONDUIT. PROVIDE EXPANSION FITTINGS TO ACCOMMODATE EXPANSION AND CONTRACTION WHERE CONDUITS CROSS BUILDING EXPANSION JOINTS.
8. SMOKE DETECTORS SHOWN ON PLAN ARE SPOT TYPE DETECTORS, UNLESS OTHERWISE NOTED.
9. NEW DEVICES SHOULD REPLACE EXISTING DEVICES WHERE INSTALLED ON FINISHED SURFACES.

KEYED NOTES

1 CEILING MOUNTED DEVICE.
2 FIRE ALARM STROBE TO BE DEMOLISHED.



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UK Project Number 2499.0

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No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By	
Author	
Checked By	
Checker	
Client Number 514	
Project Number 15576	

STATE OF KENTUCKY ANDREW SCHWARTZ LICENSED PROFESSIONAL ENGINEER 1/7/2021

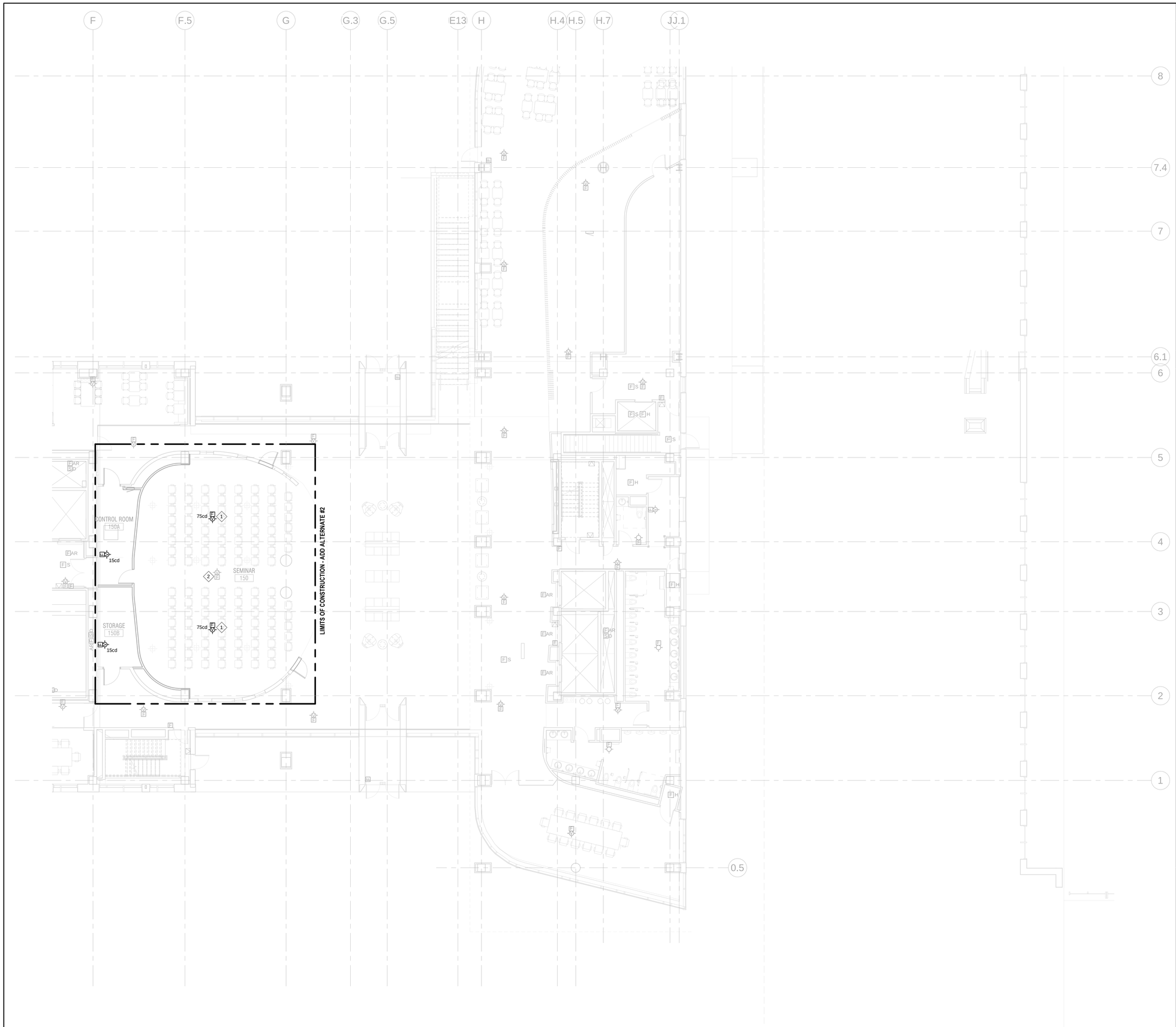
DRAWING

FIRE ALARM PHASE 4 FO FLOOR PLAN - LOWER LEVEL

SHEET NO.

FAF-260

1/8/2021 12:04:02 PM



1 FAF-261A **FIRE ALARM PHASE 4 FO FLOOR PLAN - LEVEL 01 AREA A**
1/8" = 1'-0"

GENERAL NOTES

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4. PROVIDE FIRE ALARM CONNECTIONS TO FIRE/SMOKE DAMPERS AT LOCATIONS SHOWN ON THE MECHANICAL DRAWINGS AND AS SPECIFIED.
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6. ALL ALARM SEQUENCES FOR FIRE ALARM SYSTEM MUST BE COORDINATED AND VERIFIED WITH OWNER.
7. ALL FIRE WIRING MUST BE INSTALLED IN CONDUIT. PROVIDE EXPANSION FITTINGS TO ACCOMMODATE EXPANSION AND CONTRACTION WHERE CONDUITS CROSS BUILDING EXPANSION JOINTS.
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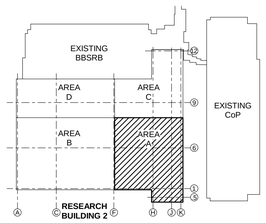
KEYED NOTES

1 CEILING MOUNTED DEVICE.
2 FIRE ALARM STROBE TO BE DEMOLISHED.



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Drawn By Author
Checked By Checker
Client Number 514
Project Number 15576

STATE OF KENTUCKY ANDREW SCOTT LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING
FIRE ALARM PHASE 4 FO FLOOR PLAN - LEVEL 01 AREA A

SHEET NO.
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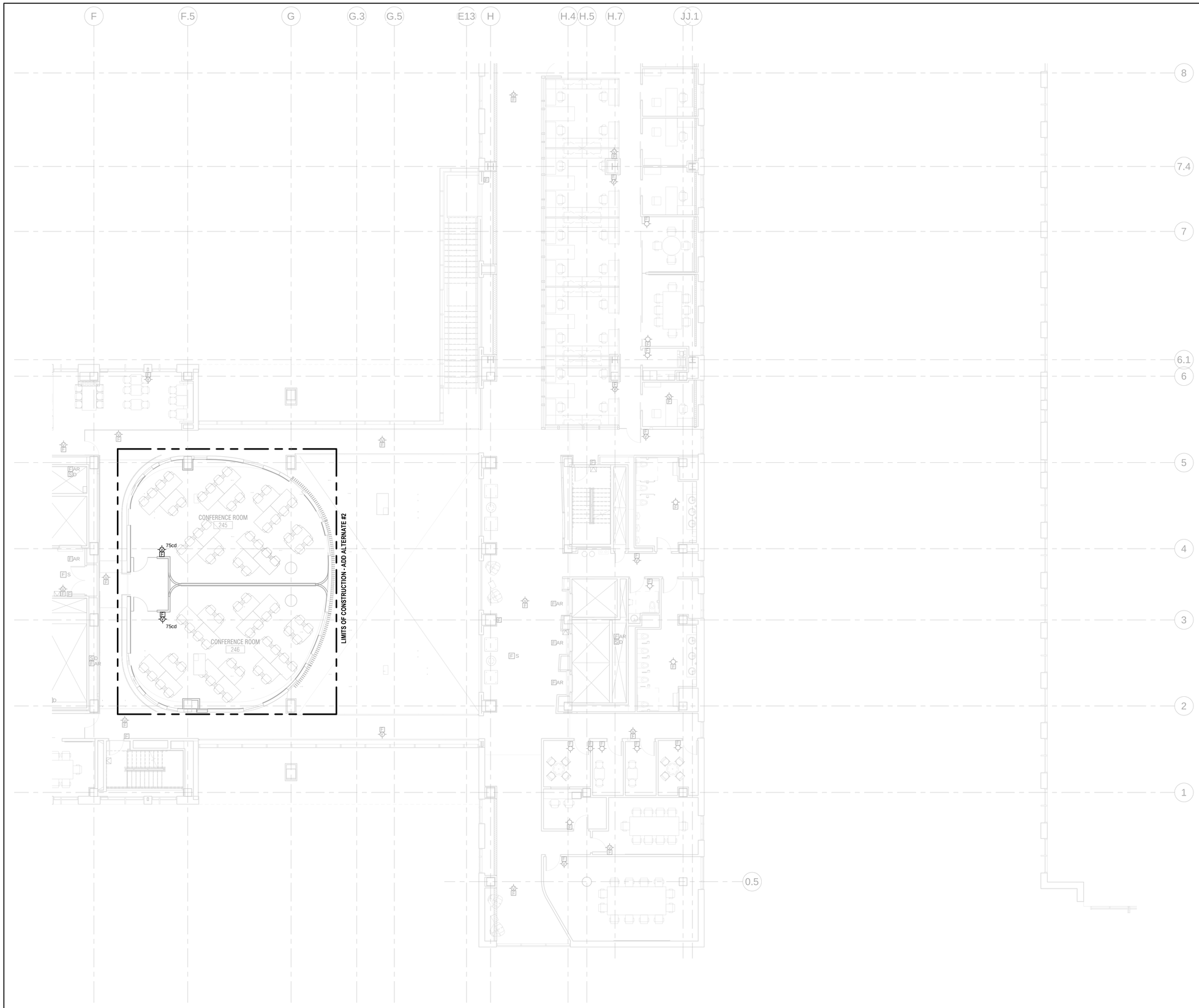

1 FAF-262A **FIRE ALARM PHASE 4 FO FLOOR PLAN - LEVEL 02 AREA A**
1/8" = 1'-0"

GENERAL NOTES

1. FIRE ALARM DRAWINGS ARE TO CONVEY DESIGN INTENT OF HOW THE BUILDING IS TO BE OPERATED. VARIATIONS IN MANUFACTURER'S SYSTEM COMPONENTS, LAYOUTS, AND PROGRAMMING REQUIRE THE MANUFACTURER TO DESIGN A SYSTEM SPECIFICALLY FOR THIS FACILITY BASED ON ITS SYSTEM'S PERFORMANCE.
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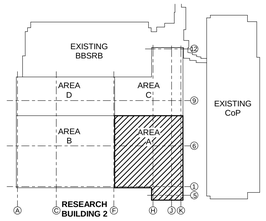
9. NEW DEVICES SHOULD REPLACE EXISTING DEVICES WHERE INSTALLED ON FINISHED SURFACES.



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Drawn By: Author
Checked By: Checker
Client Number: 514
Project Number: 15576

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DRAWING
FIRE ALARM PHASE 4 FO FLOOR PLAN - LEVEL 02 AREA A

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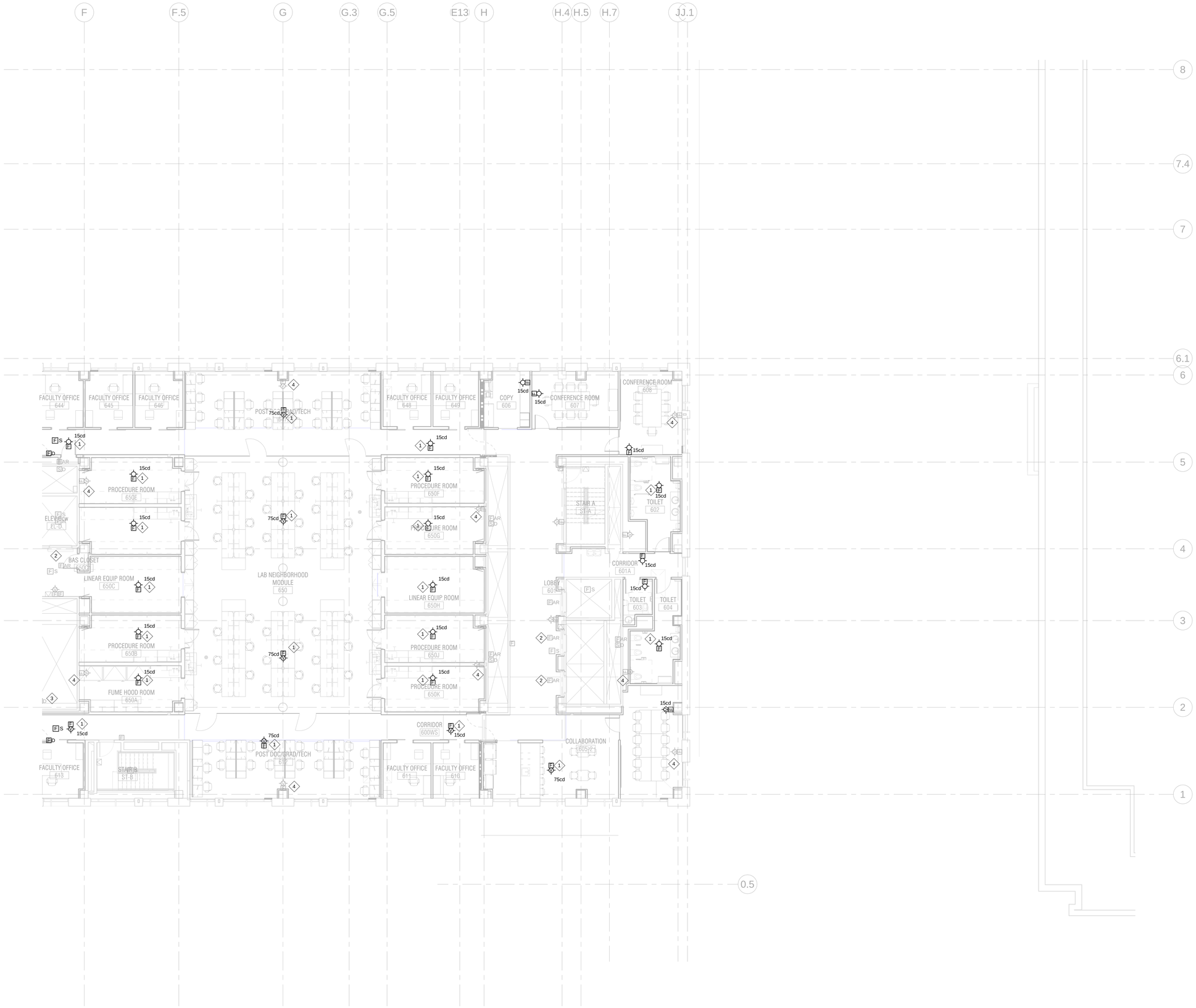

1 FAF-266A **FIRE ALARM PHASE 4 FO FLOOR PLAN - LEVEL 06 AREA A**
1/8" = 1'-0"

GENERAL NOTES

1. FIRE ALARM DRAWINGS ARE TO CONVEY DESIGN INTENT OF HOW THE BUILDING IS TO BE OPERATED. VARIATIONS IN MANUFACTURER'S SYSTEM COMPONENTS, LAYOUTS, AND PROGRAMMING REQUIRE THE MANUFACTURER TO DESIGN A SYSTEM SPECIFICALLY FOR THIS FACILITY BASED ON ITS SYSTEM'S PERFORMANCE.
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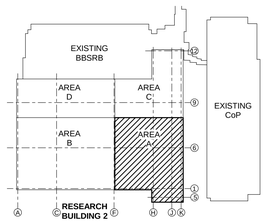
5. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF SUPPLY AND RETURN DUCTWORK REQUIRING DUCT SMOKE DETECTOR INSTALLATIONS.
6. ALL ALARM SEQUENCES FOR FIRE ALARM SYSTEM MUST BE COORDINATED AND VERIFIED WITH OWNER.
7. ALL FIRE WIRING MUST BE INSTALLED IN CONDUIT. PROVIDE EXPANSION FITTINGS TO ACCOMMODATE EXPANSION AND CONTRACTION WHERE CONDUITS CROSS BUILDING EXPANSION JOINTS.
8. SMOKE DETECTORS SHOWN ON PLAN ARE SPOT TYPE DETECTORS, UNLESS OTHERWISE NOTED.
9. NEW DEVICES SHOULD REPLACE EXISTING DEVICES WHERE INSTALLED ON FINISHED SURFACES.

KEYED NOTES

1 CEILING MOUNTED DEVICE.
2 PROVIDE ADDRESSABLE RELAY FOR ELEVATOR SMOKE CONTROL CURTAINS.
3 PROVIDE ADDRESSABLE RELAY MODULE FOR EXISTING SMOKE DAMPER. REFER TO CORE & SHELL VENTILATION DRAWINGS FOR EXACT LOCATION.
4 FIRE ALARM STROBE TO BE DEMOLISHED.



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Project Number	15576

STATE OF KENTUCKY ANDREW SCOTT LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING

FIRE ALARM PHASE 4 FO FLOOR PLAN - LEVEL 06 AREA A

SHEET NO.

FAF-266A

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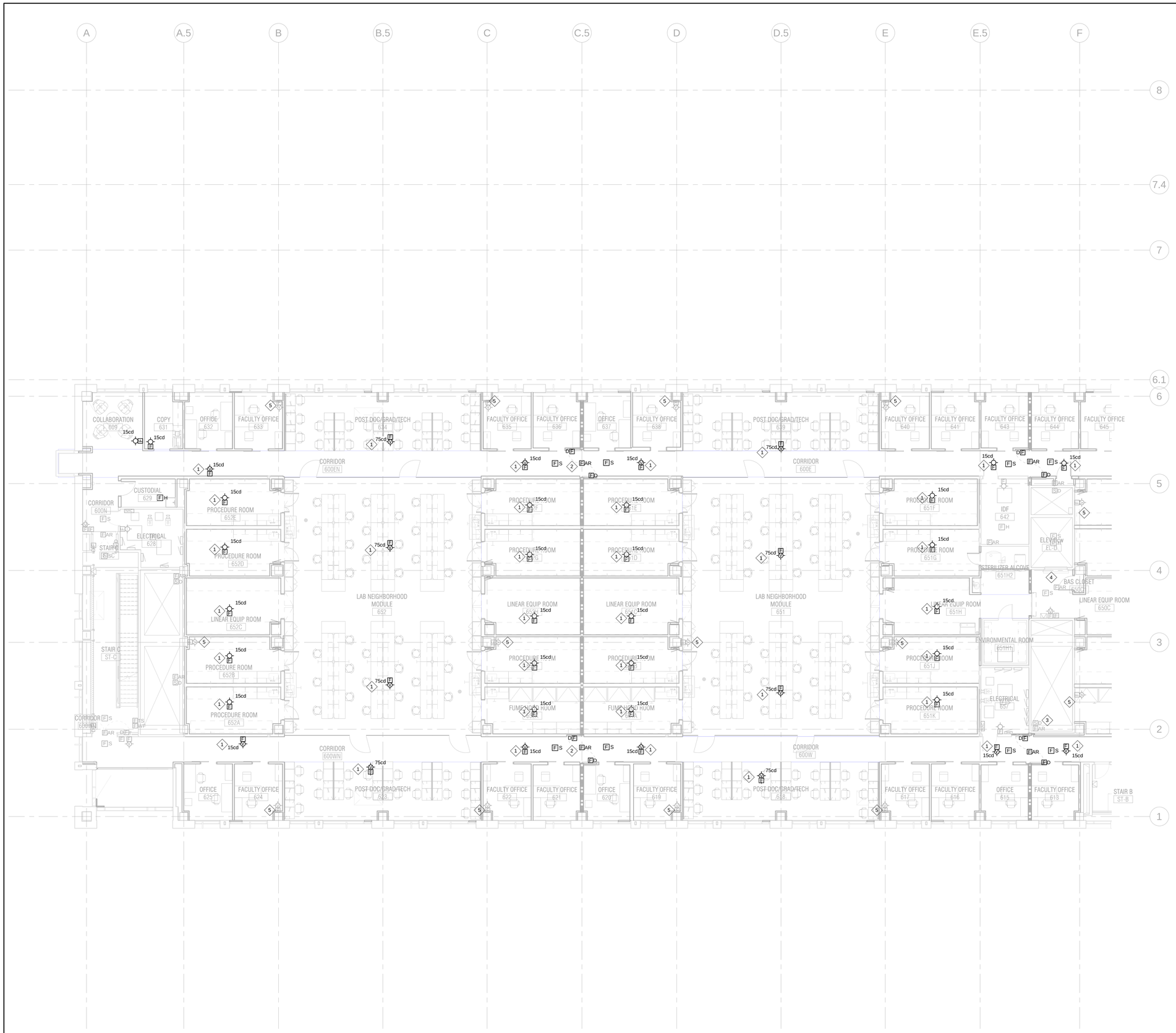

1 FAF-266B **FIRE ALARM PHASE 4 FO FLOOR PLAN - LEVEL 06 AREA B**

1/8" = 1'-0"

GENERAL NOTES

1. FIRE ALARM DRAWINGS ARE TO CONVEY DESIGN INTENT OF HOW THE BUILDING IS TO BE OPERATED. VARIATIONS IN MANUFACTURER'S SYSTEM COMPONENTS, LAYOUTS, AND PROGRAMMING REQUIRE THE MANUFACTURER TO DESIGN A SYSTEM SPECIFICALLY FOR THIS FACILITY BASED ON ITS SYSTEM'S PERFORMANCE.
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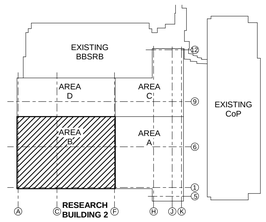
4. PROVIDE FIRE ALARM CONNECTIONS TO FIRE/SMOKE DAMPERS AT LOCATIONS SHOWN ON THE MECHANICAL DRAWINGS AND AS SPECIFIED.
5. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF SUPPLY AND RETURN DUCTWORK REQUIRING DUCT SMOKE DETECTOR INSTALLATIONS.
6. ALL ALARM SEQUENCES FOR FIRE ALARM SYSTEM MUST BE COORDINATED AND VERIFIED WITH OWNER.
7. ALL FIRE WIRING MUST BE INSTALLED IN CONDUIT. PROVIDE EXPANSION FITTINGS TO ACCOMMODATE EXPANSION AND CONTRACTION WHERE CONDUITS CROSS BUILDING EXPANSION JOINTS.
8. SMOKE DETECTORS SHOWN ON PLAN ARE SPOT TYPE DETECTORS, UNLESS OTHERWISE NOTED.
9. NEW DEVICES SHOULD REPLACE EXISTING DEVICES WHERE INSTALLED ON FINISHED SURFACES.

KEYED NOTES

1. CEILING MOUNTED DEVICE.
2. PROVIDE ADDRESSABLE RELAY MODULE FOR DOOR HOLD OPEN.
3. PROVIDE ADDRESSABLE RELAY MODULE FOR EXISTING SMOKE DAMPER. REFER TO CORE & SHELL VENTILATION DRAWINGS FOR EXACT LOCATION.
4. PROVIDE ADDRESSABLE RELAY FOR ELEVATOR SMOKE CONTROL CURTAINS.
5. FIRE ALARM STROBE TO BE DEMOLISHED.



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DRAWING

FIRE ALARM PHASE 4 FO FLOOR PLAN - LEVEL 06 AREA B

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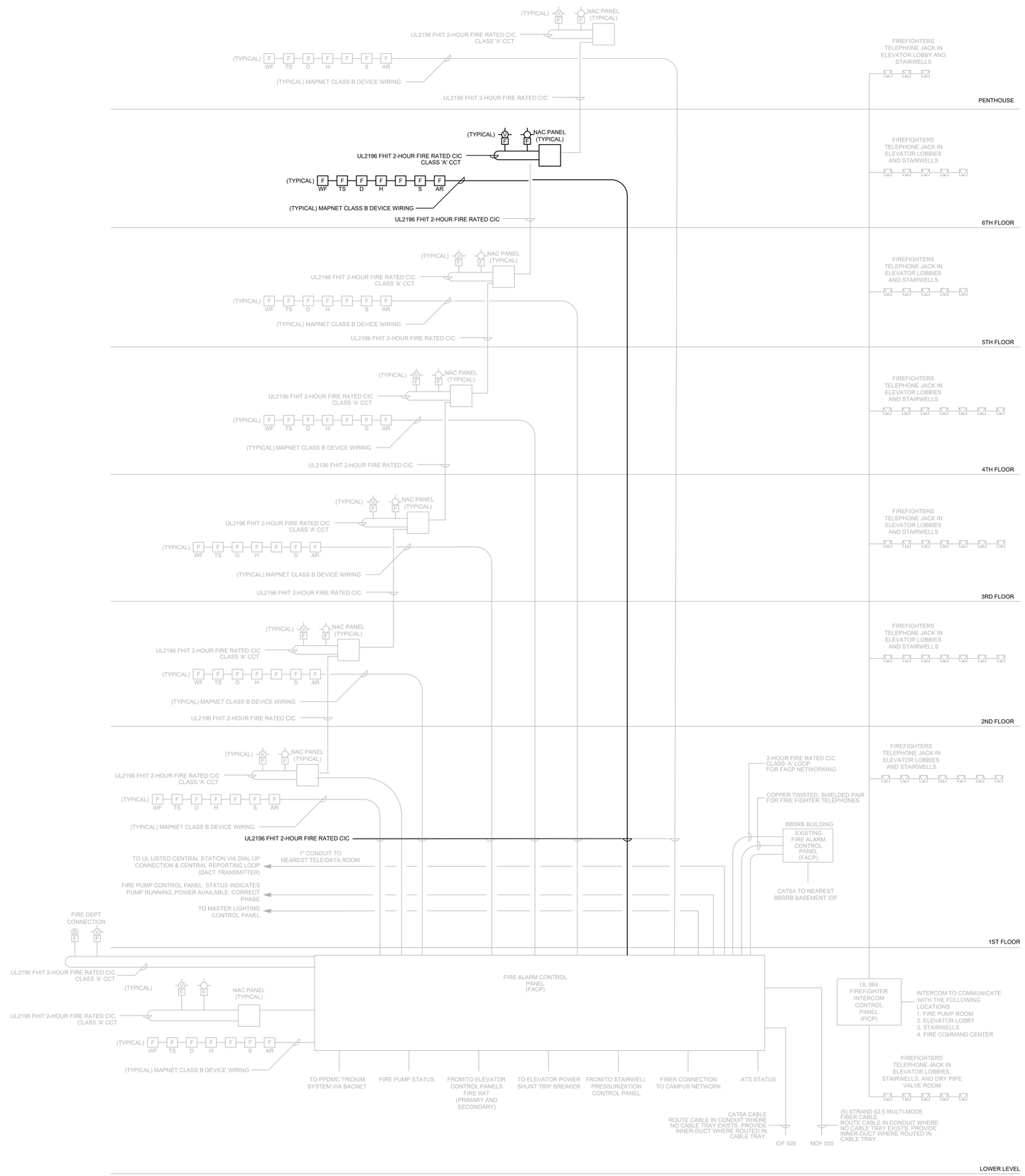

GENERAL FIRE ALARM RISER NOTES

1. THE FIRE ALARM RISER DIAGRAM IS INTENDED TO CONVEY THE TYPES OF FIRE ALARM CONNECTIONS AND SPECIFICALLY DOES NOT INDICATE QUANTITIES, NUMBER OF CIRCUITS REQUIRED OR DISTANCES.
2. THE COMPLETE FIRE ALARM SYSTEM SHALL MEET ALL APPLICABLE CODES, FIRE MARSHALL REQUIREMENTS, AND MANUFACTURER'S RECOMMENDATIONS.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WIRE SIZES, TYPES AND REQUIREMENTS WITH FIRE ALARM SYSTEM VENDOR PRIOR TO BID.
4. ALL 120V WIRING REQUIRED FOR OPERATION OF THE SYSTEM AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR FROM THE LIFE SAFETY DISTRIBUTION SYSTEM.
5. ALL NECESSARY RELAYS MAY NOT BE SHOWN ON THIS PLAN, BUT WHERE REQUIRED FOR PROPER OPERATION OF THE SYSTEM, THEY SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
6. PROVIDE 25% SPARE BATTERY CAPACITY IN FIRE ALARM CONTROL PANEL.
7. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT.
8. IN ADDITION TO WORK SHOWN ON E AND FA-SERIES DRAWINGS, MAKE CONNECTIONS TO FIRE/SMOKE DAMPERS, DUCT SMOKE DETECTORS, AND CONTROL RELAYS AT LOCATIONS SHOWN ON THE M-SERIES DRAWINGS AND AS SPECIFIED. PROVIDE ONE ADDRESSABLE RELAY PER FIRE/SMOKE DAMPER INDICATED. EACH RELAY SHALL CONTROL ONLY ONE DAMPER. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V CIRCUIT AS SHOWN ON DRAWINGS.
9. PROVIDE NOTIFICATION APPLIANCE EXTENDER PANELS AS REQUIRED.
10. HEAT DETECTORS ARE TO BE RATED 135 DEGREES F.
11. WHERE SHOWN ADJACENT, HEAT DETECTORS AND SMOKE DETECTORS ARE TO BE MOUNTED NO FURTHER THAN 6" FROM EACH OTHER AND 24" FROM THE SPRINKLER HEAD COVERING THAT SPACE.
12. PROVIDE LIGHTNING ARRESTORS FOR ALL EXTERIOR MOUNTED FIRE ALARM DEVICES.
13. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING THE REQUIRED INTERFACE TO ALLOW THE NEW FIRE ALARM SYSTEM TO COMMUNICATE WITH EXISTING BBSRB SIMPLEX FIRE ALARM SYSTEM. ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE WORK REQUIRED TO PROGRAM THE EXISTING SIMPLEX FIRE ALARM SYSTEM TO PROVIDE ANNUNCIATION AT THE NEW FIRE ALARM SYSTEM AND FOR REPORTING TO THE CAMPUS CENTRAL STATION.
14. FIRE ALARM VENDOR SHALL PROVIDE A REMOTE INDICATOR DEVICE WITH EACH DUCT SMOKE DETECTOR DEVICE AND FOR EACH HEAT AND SMOKE DETECTOR THAT IS NOT VISIBLE FROM THE FLOOR. REMOTE INDICATOR DEVICES SHALL BE MOUNTED AT 46" AFF AS CLOSE TO DETECTOR AS POSSIBLE. VERIFY FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
15. ALL ALARM SEQUENCES FOR FIRE ALARM SYSTEM SHALL BE COORDINATED AND VERIFIED WITH OWNER.
16. ALL CIRCUITS NECESSARY FOR THE OPERATION OF THE NOTIFICATION APPLIANCES SHALL BE PROTECTED UNTIL THEY ENTER THE EVACUATION SIGNALING ZONE THAT THEY SERVE. PROVIDE 2-HOUR CONCRETE ENCASEMENT FOR NOTIFICATION CIRCUIT WIRING WHERE A 2-HOUR ENCLOSURE IS NOT AVAILABLE FOR CIRCUIT PROTECTION. COORDINATE ALL 2-HOUR CONCRETE ENCASEMENT WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
17. FIRE ALARM DEVICES INSTALLED UNDER THIS SCOPE OF WORK SHALL REPORT VIA BACNET TO THE OWNER TRIDIUM SYSTEM. ALL REQUIRED PROGRAMMING AND ADDITIONAL EQUIPMENT NEEDED TO PERFORM THESE TASKS SHALL BE INCLUDED UNDER THIS SCOPE OF WORK.
18. FIRE ALARM CONTRACTOR SHALL COORDINATE AND PROVIDE CAT6A AND FIBER OPTIC CONNECTIONS ASSOCIATED WITH FIRE ALARM SYSTEM.

LINE TYPE LEGEND:

EXISTING:

NEW:

CHAMPLIN ARCHITECTURE
720 E Pete Rose Way, Suite 140
Cincinnati, OH 45202
T 513.241.4474 F 513.241.0081
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THINK CREATE REALIZE

HGA

JACOBS Consultancy

AEI Affiliated Engineers

CMTA

HEALTHY KENTUCKY RESEARCH BUILDING

UNIVERSITY OF KENTUCKY
Lexington, KY

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - BID & PERMIT	01/08/21

Drawn By: EM

Checked By: JS

Client Number: 514

Project Number: 5350

STATE OF KENTUCKY JAMES A. SCHMITT LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING TITLE: FIRE ALARM PHASE 4 FO RISER

SHEET NO. FAF-960

02/05/2020 10:00:00 AM

		Control Unit Annunciation							Notification								Required for Fire Safety Control											
		System Outputs																										
System Inputs	Number Identifier	Actuate Common Alarm Signal Indicator	Actuate Audible Alarm Signal	Actuate Common Supervisory Signal	Actuate Audible Supervisory Signal	Actuate Common Trouble Signal Indicator	Actuate Audible Trouble Signal	Actuate Appropriate Location Indicator	Actuate All Audible Evacuation Signals	Actuate All Visible Evacuation Signals	Outdoor Audible and/or Visual Device	Display/Print Change of Status	Transmit Alarm Signal to Supervising Station	Transmit Supervisory Signal to Supervising Station	Transmit Trouble Signal to Supervising Station	Release Magnetically Held Smoke Doors	Unlock Security Doors	Release Elevator Hoistway Vents	Elevator Short Trip	Recall Elevators To Primary Recall Floor	Recall Elevators to Alternate Recall Floor	Elevator Fire Hat Flash	Fan Shutdown	Damper Shutdown	Remotely Display Status	Initiate Stairwell Pressurization for Associated Stairwell	Number Identifier
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	X	Y	Z	
Manual Pull Station	1	X	X					X	X	X		X	X			X	X								X		1
	2																										2
Smoke Detector General	3	X	X					X	X	X		X	X			X	X								X		3
Smoke Detector at Door Hold Opens	4	X	X					X	X	X		X	X			X	X								X		4
Smoke Detector Elev. Lobby Primary Floor	5	X	X					X	X	X		X	X			X	X				X						5
Smoke Detector Elev. Lobby All other Floors	6	X	X					X	X	X		X	X			X	X			X							6
Smoke Detector in Elev. Machine Room	7	X	X					X	X	X		X	X			X	X					X					7
Smoke Detector in Hoistway	8	X	X					X	X	X		X	X			X	X					X					8
Smoke Detector Outside Stairwell (High rise Only)	9	X	X					X	X	X		X	X			X	X								X	X	9
Smoke Detection in Shell Space	10	X	X					X	X	X		X	X			X	X								X		10
	11																										11
Heat Detector General	12	X	X					X	X	X		X	X			X	X								X		12
Heat Detector in Elev. Machine Room	11	X	X					X	X	X		X	X			X	X		X								13
Heat Detector in Hoistway	14	X	X					X	X	X		X	X			X	X		X								14
	15																										15
Duct Mounted Smoke Detectors At Fire/Smoke Dampers	16	X	X					X	X	X		X	X											X	X		16
AHU/RF Duct Mounted Smoke Detector	17	X	X					X	X	X		X	X										X		X		17
	18																										18
Post Indicator Valve Switch	27			X	X			X				X		X											X		27
Sprinkler Main Waterflow	28	X	X					X	X	X	X	X	X			X	X								X		28
Sprinkler Tamper Switch	30			X	X			X				X		X											X		30
	31																										31
Fire Alarm AC Power Failure	32					X	X					X			X	X		X							X		32
Fire Alarm Low Battery	33					X	X					X			X										X		33
Open Circuit	34					X	X					X			X										X		34
Ground Fault	35					X	X					X			X										X		35
	36																										36
Fire Pump Running (Not test mode)	37	X	X					X				X				X	X								X		37
Fire pump Power Phase Reversal	38			X				X				X		X											X		38
Fire Pump Alternate Source	39			X				X				X		X											X		39
Fire pump Power Failure	40			X				X				X		X											X		40
Elevator Shunt Trip Monitor	41			X	X							X		X													41

1
FAF-961

Fire Alarm Matrix_Sheet1!Print_Area Phase 4

12" = 1'-0"

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UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By
Author
Checked By
Checker
Client Number
514
Project Number
15576

STATE OF KENTUCKY
ANDREW SCHMIDT
LICENSED PROFESSIONAL ENGINEER
1/7/2021

DRAWING

FIRE ALARM PHASE 4
FO MATRIX

SHEET NO.
FAF-961

1/8/2021 10:32:09 AM

PROCESS AND INSTRUMENTATION DIAGRAM SYMBOLS

- BUTTERFLY VALVE MANUAL
- BUTTERFLY CONTROL VALVE
- BUTTERFLY DAMPER
- GLOBE VALVE
- BALL VALVE
- SHUTOFF VALVE (BUTTERFLY VALVE FOR 2 1/2" AND LARGER, BALL VALVE FOR 2" AND SMALLER)
- GAUGE VALVE
- PLUG VALVE
- BALANCING VALVE
- SPRING CHECK VALVE
- SWING CHECK VALVE
- 2-WAY CONTROL VALVE
- 3-WAY MIXING VALVE
- 2-WAY SOLENOID VALVE
- 3-WAY SOLENOID VALVE ARROW INDICATING FAIL POSITION
- TRIPLE DUTY VALVE
- DRAIN VALVE
- DRAIN VALVE WITH CAP
- LOCKSHIELD VALVE
- FLOAT OPERATED VALVE
- QUICK OPENING VALVE
- GAS SHUTOFF VALVE
- DIAPHRAGM VALVE
- THERMAL EXPANSION VALVE
- REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)
- PRESSURE RELIEF (RV) OR SAFETY VALVE (PSV)
- ANGLE VALVE
- STOP AND CHECK VALVE
- RUPTURE DISK PRESSURE RELIEF
- RUPTURE DISK VACUUM RELIEF
- FUSIBLE LINK VALVE
- PRESSURE REDUCING VALVE (PRV)
- NEEDLE VALVE
- ROTARY VALVE
- SAMPLE VALVE
- PRESSURE INDEPENDANT CONTROL VALVE

- GENERAL PIPELINE STRAINER WITHOUT DRAIN
- GENERAL PIPELINE STRAINER WITH DRAIN
- STEAM & CONDENSATE PIPELINE STRAINER
- WATER SYSTEM PIPELINE STRAINER
- SUCTION DIFFUSER
- DUPLEX STRAINER
- BASKET STRAINER
- FLANGE
- UNION
- INVERTED BUCKET TRAP
- FLOAT AND THERMOSTATIC TRAP
- THERMOSTATIC TRAP
- EXPANSION JOINT
- FLEXIBLE CONNECTION
- SHOCK SUPPRESSER
- HEAT TRACE TERMINATION POINT
- HEAT TRACE POWER CONNECTION POINT
- FILTER/REGULATOR
- FILTER
- 2" AND SMALLER, CAP OR PLUG 2 1/2" AND UP, BLIND FLANGE
- THERMOMETER
- PRESSURE GAUGE (WITH GAUGE VALVE)
- FLOW SENSOR
- FLOW SWITCH
- AUTOMATIC AIR VENT
- MANUAL AIR VENT
- TEST PLUG (PRESSURE/TEMP.)
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- DIRECTION OF PITCH (DOWN)
- DIRECTION OF FLOW
- OR FLOW DIRECTION

- CARTRIDGE FILTER
- ELECTRIC HEATED CARTRIDGE FILTER
- RESTRICTION ORIFICE
- SANITARY TRICLAMP CONNECTION
- FLEXIBLE HOSE
- SPRAY BALL
- DRAIN
- DIAPHRAGM SEAL
- THERMOWELL
- PIG TAIL SIPHON
- VORTEX BREAKER
- DIRECTION OF FLOW
- MAGNETIC FLOW METER
- VENTURI TUBE FLOW METER
- FLOW NOZZLE
- ROTOMETER
- ANNUBAR FLOW METER
- CORIOLIS FLOW METER
- VORTEX FLOW METER
- TURBINE
- POSITIVE DISPLACEMENT
- SONIC
- SQUARE ROOT
- TARGET
- THERMAL DISPERSION
- FLUME
- WEIR

(XX) DEFINES FAIL POSITION OR NORMAL POSITION.
FC = FAIL CLOSED
FO = FAIL OPEN
FLP = FAIL LAST POSITION
NC = NORMALLY CLOSED
NO = NORMALLY OPEN

- PLATE & FRAME HEAT EXCHANGER
- SHELL & TUBE HEAT EXCHANGER
- QUICK CONNECT
- FAN
- AGITATOR
- SEPARATOR
- FLEXIBLE HOSE
- PUMP-VERTICAL
- PUMP-HORIZONTAL
- TANK - DRYER
- WATER SOFTENER
- CYLINDER
- EXPANSION TANK
- AIR SEPARATOR
- INLINE PUMP

DAMPERS

- OPPOSED BLADE TYPE
- PARALLEL BLADE TYPE
- AIR FLOW MEASURING DAMPER

ACTUATORS

- MANUAL
- ON/OFF GENERAL
- ON/OFF SPRING OPPOSED
- ON/OFF DOUBLE ACTING
- MODULATING W/O POSITIONER
- MODULATING WITH POSITIONER
- SOLENOID
- ELECTRIC MOTOR DRIVEN

INSTRUMENT LINE SYMBOLS

- CONNECTION TO PROCESS OR INSTRUMENT SUPPLY
- PNEUMATIC SIGNAL
- CAPILLARY TUBE
- HYDRAULIC SIGNAL
- ELECTRIC SIGNAL OR SOFTWARE LINK (SERIAL OR DATA)
- ELECTROMAGNETIC OR SONIC SIGNAL INCLUDE RADIO WAVES, LIGHT, NUCLEAR RADIATION, HEAT
- HARDWARE LINK
- PACKAGED EQUIPMENT LINE
- MAIN AIR SUPPLY
- XXXXX INDICATES COMMUNICATION FORMAT
- ETHERNET CABLE
- MSTP CABLE

PIPING SYSTEM LABELS

BBD	BOTTOM BLOWDOWN
BF	BOILER FEEDWATER
BSWR	BASIN SWEEPER WATER RETURN
BSWS	BASIN SWEEPER WATER SUPPLY
CCC	COOLING COIL CONDENSATE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLPC	CLEAN LOW PRESSURE CONDENSATE
CLPS	CLEAN LOW PRESSURE STEAM
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
GWR	GLYCOL WATER RETURN
GWS	GLYCOL WATER SUPPLY
HGWR	HOT GLYCOL WATER RETURN
HGWS	HOT GLYCOL WATER SUPPLY
HPC	HIGH PRESSURE CONDENSATE
HPS(XX)	HIGH PRESSURE STEAM (PSIG)
HRO	HUMIDIFICATION RO WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
MTCHWR	MEDIUM TEMP CHILLED WATER RETURN
MTCHWS	MEDIUM TEMP CHILLED WATER SUPPLY
NPCW	NONPOTABLE COLD WATER
PHWR	PERIMETER HOT WATER RETURN
PHWS	PERIMETER HOT WATER SUPPLY
RW	REUSE WATER
RWR	RECLAIM WATER RETURN
RWS	RECLAIM WATER SUPPLY
SBD	SURFACE BLOWDOWN
TRW	TRANSFER WATER

- POSITIVE DISPLACEMENT PUMP
- AIR MIXING DEVICE
- SOUND ATTENUATING DEVICE
- ACTIVE CHILLED BEAM

GENERAL SHEET SYMBOLS

- NOTE X. — PLAN NOTE REFERENCE SYMBOL
- REVISION SYMBOL REFERENCE NUMBER
- CHANGE BULLETIN SYMBOL REFERENCE NUMBER
- ELEVATION SYMBOL ELEVATION DESIGNATION
- CONNECTION SYMBOL NEW TO EXISTING
- BILL OF MATERIAL SYMBOL "X" = ITEM NUMBER
- REFER / XX — PLAN CONTINUATION SYMBOL: BOTTOM = SHEET REFERENCE FOR CONTINUATION
- X / XX — DETAIL REFERENCE SYMBOL: TOP = DETAIL NUMBER BOTTOM = SHEET REFERENCE ON WHICH DETAIL APPEARS
- X / XX — SECTION SYMBOL: TOP = SECTION NUMBER BOTTOM = SHEET REFERENCE ON WHICH SECTION APPEARS
- EQUIPMENT TAG

GENERAL INSTRUMENT OR FUNCTION SYMBOLS

FIELD MOUNTED / PANEL MOUNT ACCESSIBLE

- DISCRETE INSTRUMENTS (ie: SENSORS, CONTROLLERS, RECORDERS ETC.)
- INDICATING LIGHTS, ALARMS, HORNS
- XXXX / YYYY — XXXX = PROCESS MEDIA REFER TO DRAWING YYYY FOR CONTINUATION OF PROCESS
- XXX 999 — LOOP IDENTIFIER (REFER TO ABBREVIATION MATRIX); LOOP TAG NUMBER; XXX = CLARIFIER (USED FOR ANALYZERS TO IDENTIFY TYPE EXAMPLE: i.e. pH, CONDUIT, ODP, ETC...)
- I — INTERLOCK

DDC		PLC	
AI XXX	DDC ANALOG INPUT	AI XXX	PLC ANALOG INPUT
AO XXX	DDC ANALOG OUTPUT	AO XXX	PLC ANALOG OUTPUT
DI XXX	DDC DISCRETE INPUT	DI XXX	PLC DISCRETE INPUT
DO XXX	DDC DISCRETE OUTPUT	DO XXX	PLC DISCRETE OUTPUT
FI XXX	DDC FREQUENCY INPUT	FI XXX	PLC FREQUENCY INPUT

AIR TERMINAL UNIT SYMBOLS

- BUTTERFLY VALVE W/ REHEAT
- VENTURI VALVE W/REHEAT
- BUTTERFLY VALVE
- VENTURI VALVE
- CONSTANT VOLUME VENTURI VALVE

INSTRUMENTATION SYMBOLS

FIRST LETTERS	INITIATING OR MEASURED VARIABLE	CONTROLLERS: RECORDING	CONTROLLERS: INDICATING	CONTROLLERS: BLIND	SELF-ACTUATED CONTROL VALVES	SELF-ACTUATED CONTROL DAMPERS	READOUT DEVICES: RECORDING	READOUT DEVICES: INDICATING	SWITCHES and ALARM DEVICES: HIGH	LOW	COMB.	TRANSMITTERS: RECORDING	TRANSMITTERS: INDICATING	TRANSMITTERS: BLIND	SOLENOIDS, RELAYS, & COMPUTING DEVICES	PRIMARY ELEMENT	TEST POINT	WELL or PROBE	VIEWING DEVICE GLASS	SAFETY DEVICE	FINAL CONTROL ELEMENT
A	ANALYSIS	ARC	AIC	AC	ACV	ACD	AR	AI	ASH	ASL	ASHL	ART	AIT	AT	AY	AE	AP	AW	AG		AV
B	BURNER/COMBUSTION	BRC	BIC	BC	BCV	BCD	BR	BI	BSH	BSL	BSHL	BRT	BIT	BT	BY	BE	BP	BW	BG		BZ
C	CONDUCTIVITY	CRC	CIC	CC	CCV	CCD	CR	CI	CSH	CSL	CSHL	CRT	CIT	CT	CY	CE	CP	CW	CG		CV
CR	CONTROL RELAY														CR						
D	DENSITY/VISCOSITY	DRC	DIC	DC	DCV	DCD	DR	DI	DSH	DSL	DSHL	DRT	DIT	DT	DY	DE	DP	DW	DG		DV
E	VOLTAGE	ERC	EIC	EC	ECV	ECD	ER	EI	ESH	ESL	ESHL	ERT	EIT	ET	EY	EE	EP	EW	EG		EZ
F	FLOW RATE	FRC	FIC	FC	FCV	FCD	FR	FI	FSH	FSL	FSHL	FRT	FIT	FT	FY	FE	FP	FW	FG		FV
FQ	FLOW QUANTITY	FQRC	FQIC	FQC	FQCV	FQCD	FQR	FQI	FQSH	FQSL	FQSHL	FQRT	FQIT	FQT	FQY	FQE	FQP	FQW	FQG		FQV
FF	FLOW RATIO	FFRC	FFIC	FFC	FFCV	FFCD	FFR	FFI	FFSH	FFSL	FFSHL	FFRT	FFIT	FFT	FFY	FFE	FFP	FFW	FFG		
H	HAND	HRC	HIC	HC	HCV	HCD	HR	HI	HSH	HSL	HSHL	HRT	HIT	HT	HY	HE	HP	HW	HG		HZ
I	CURRENT	IRC	IIC	IC	ICV	ICD	IR	II	ISH	ISL	ISHL	IRT	IIT	IT	IY	IE	IP	IW	IG		IZ
J	POWER	JRC	JIC	JC	JCV	JCD	JR	JI	JSH	JSL	JSHL	JRT	JIT	JT	JY	JE	JP	JW	JG		JV
K	TIME	KRC	KIC	KC	KCV	KCD	KR	KI	KSH	KSL	KSHL	KRT	KIT	KT	KY	KE	KP	KW	KG		KV
L	LEVEL	LRC	LIC	LC	LCV	LCD	LR	LI	LSH	LSL	LSHL	LRT	LIT	LT	LY	LE	LP	LW	LG		LV
M	MOISTURE	MRC	MIC	MC	MCV	MCD	MR	MI	MSH	MSL	MSHL	MRT	MIT	MT	MY	ME	MP	MW	MG		MV
N	FREQUENCY	NRC	NIC	NC	NCV	NCD	NR	NI	NSH	NSL	NSHL	NRT	NIT	NT	NY	NE	NP	NW	NG		
P	PRESS./VACUUM	PRC	PIC	PC	PCV	PCD	PR	PI	PSH	PSL	PSHL	PRT	PIT	PT	PY	PE	PP	PW	PG	PSV/PSE	PV
PD	PRESS./DIFF.	PDRC	PDIC	PDC	PDCV	PDCD	PDR	PDI	PDSH	PDSL	PDSHL	PDRT	PDIT	PDT	PDY	PDE	PDP	PDW	PDG		PDV
Q	QUANTITY	QRC	QIC	QC	QCV	QCD	QR	QI	QSH	QSL	QSHL	QRT	QIT	QT	QY	QE	QP	QW	QG		QZ
R	RADIATION	RRC	RIC	RC	RCV	RCD	RR	RI	RSH	RSL	RSHL	RRT	RIT	RT	RY	RE	RP	RW	RG		RZ
S	SPEED	SRC	SIC	SC	SCV	SCD	SR	SI	SSH	SSL	SSHL	SRT	SIT	ST	SY	SE	SP	SW	SG		SV
T	TEMPERATURE	TRC	TIC	TC	TCV	TCD	TR	TI	TSH	TSL	TSHL	TRT	TIT	TT	TY	TE	TP	TW	TG	TSE	TV
TD	TEMPERATURE/DIFF.	TDRC	TDIC	TDC	TDCV	TDCD	TDR	TDI	TDSH	TDSL	TDSHL	TDRT	TDIT	TDT	TDY	TDE	TDP	TDW	TDG		TDV
U	MULTIVARIABLE	URC	UIC	UC	UCV	UCD	UR	UI	USH	USL	USHL	URT	UIT	UT	UY	UE	UP	UW	UG		UV
V	VIBRATION/MACHINERY ANALYSIS	VRC	VIC	VC	VCV	VCD	VR	VI	VSH	VSL	VSHL	VRT	VIT	VT	VY	VE	VP	VW	VG		VZ
W	WEIGHT/FORCE	WRC	WIC	WC	WCV	WCD	WR	WI	WSH	WSL	WSHL	WRT	WIT	WT	WY	WE	WP	WW	WG		WZ
X	ON/OFF	XRC	XIC	XC	XCV	XCD	XR	XI	XSH	XSL	XSHL	XRT	XIT	XT	XY	XE	XP	XW	XG		XV
Y	EVENT STATE/PRESENCE	YRC	YIC	YC	YCV	YCD	YR	YI	YSH	YSL	YSHL	YRT	YIT	YT	YY	YE	YP	YW	YG		YZ
Z	POS./DIMEN.	ZRC	ZIC	ZC	ZCV	ZCD	ZR	ZI	ZSH	ZSL	ZSHL	ZRT	ZIT	ZT	ZY	ZE	ZP	ZW	ZG		ZV

NOTE: THIS TABLE IS NOT ALL INCLUSIVE

*A, ALARM. THE ANNUNCIATING DEVICE, MAY BE USED IN THE SAME FASHION AS S, SWITCH, THE ACTUATING DEVICE.

† THE LETTERS H AND L MAY BE OMITTED IN THE UNDEFINED CASE

OTHER POSSIBLE COMBINATIONS

TJR	(SCANNING RECORDER)
LLH	(PILOT LIGHT)
XC	(MOTOR STARTER)
PRV	(PRESSURE REGULATING VALVE)
FO	(RESTRICTION ORIFICE)
FRK,HIK	(CONTROL STATIONS)
FX	(ACCESSORIES)
PFR	(RATIO)
KQI	(RUNNING TIME INDICATOR)
WKIC	(RATE-OF-WEIGHT LOSS CONTROLLER)
ZSC	(POSITION SWITCH CLOSED)
ZSO	(POSITION SWITCH OPEN)
HMS	(HAND MOMENTARY SWITCH)
XY	(PILOT SOLENOID VALVE)
XS	(MOTOR AUXILIARY)

HVAC EQUIPMENT ABBREVIATIONS

AC - AIR CONDITIONING UNIT/ AIR COMPRESSOR
ACC - AIR COOLED CONDENSER
ACCU - AIR COOLED CONDENSING UNIT
AF - AFTER FILTER
AHU - AIR HANDLING UNIT
AMD - AIR MIXING DEVICE
AS - AIR SEPARATOR
AT - AIR TERMINAL DEVICE

B - BOILER
BAS - BUILDING AUTOMATION SYSTEM
BBD - BOTTOM BLOWDOWN
BBS - BOILER BLOWDOWN SEPARATOR
BF - BOILER FEEDWATER
BFS - BOILER FEEDWATER SYSTEM
BH - BOOSTER HUMIDIFIER
BMS - BUILDING MANAGEMENT SYSTEM
BSWR - BASIN SWEEPER WATER RETURN
BSWS - BASIN SWEEPER WATER SUPPLY

C - CONVECTOR
CA - COMPRESSED AIR/COMBUSTION AIR
CB - CHILLED BEAM
CC - COOLING COIL
CCC - COOLING COIL CONDENSATE
CAV - CONSTANT AIR VALVE
CCW - CLEAR WATER WASTE
CEV - CONSTANT EXHAUST VALVE
CFCI - CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CH - CHILLER
CHP - CHILLED WATER PUMP
CHWR - CHILLED WATER RETURN
CHWS - CHILLED WATER SUPPLY
CLPC - CLEAN LOW PRESSURE CONDENSATE
CLPS - CLEAN LOW PRESSURE STEAM
CP - CONDENSATE PUMP/ CONTROL PUMP
CPD - CONDENSATE PUMP DISCHARGE
CSW - COLD SOFT WATER
CT - COOLING TOWER
CUH - CABINET UNIT HEATER
CV - CONVERTER
CVV - CONSTANT VOLUME VALVE
CW - CITY WATER/CONDENSER WATER
CWP - CONDENSER WATER PUMP
CWR - CONDENSER WATER RETURN
CWS - CONDENSER WATER SUPPLY
CWW - CLEAR WATER WASTE
CWV - CLEAR WATER VENT

D - DAMPER/DRAIN
DA - DEAERATOR
DCW - DOMESTIC COLD WATER
DH - DEHUMIDIFIER
DHW - DOMESTIC HOT WATER
DP - DISTRIBUTION PANEL
DT - DAY TANK

EA - EXHAUST AIR
EAV - EXHAUST AIR VALVE
EH - EXHAUST HOOD/ ELECTRIC HEATER
EJ - EXPANSION JOINT
ERR - ENERGY RECOVERY RETURN
ERS - ENERGY RECOVERY SUPPLY
ET - EXPANSION TANK
EWC - ELECTRIC WATER COOLER
EX - EXHAUST FAN

F - FILTER
FC - FAIL CLOSE
FCU - FAN COIL UNIT
FCV - FLOW CONTROL VALVE
FD - FIRE DAMPER
FE - FUME EXHAUST
FEV - FUME EXHAUST VALVE

FF - FINAL FILTER
FHC - FIRE HOSE CABINET
FLP - FAIL LAST POSITION
FO - FAIL OPEN
FOF - FUEL OIL FILL
FOR - FUEL OIL RETURN
FOS - FUEL OIL SUPPLY
FOV - FUEL OIL VENT
FR - FIN TUBE RADIATION
FT - FLASH TANK
FW - FEEDWATER

GE - GENERAL EXHAUST
GWP - GLYCOL WATER PUMP
GWR - GLYCOL WATER RETURN
GWS - GLYCOL WATER SUPPLY

H - HUMIDIFIER
HC - HEATING COIL
HOA - HAND OFF AUTO
HGWR - HOT GLYCOL WATER RETURN
HGWS - HOT GLYCOL WATER SUPPLY
HP - HEAT PUMP/HORSEPOWER
HPC - HIGH PRESSURE CONDENSATE
HPG - HIGH PRESSURE NATURAL GAS
HPR - HIGH PRESSURE CONDENSATE RETURN
HPS(XX) - HIGH PRESSURE STEAM (PRESSURE IN PSIG)
HRC - HEAT RECOVERY COIL
HRD - HEAT RECLAIM DEVICE
HRO - HUMIDIFICATION RO WATER
HROH - HUMIDIFICATION RO WATER (HIGH ZONE)
HRU - HEAT RECOVERY UNIT
HRW - HEAT RECOVERY WHEEL
HT - HEAT TRACE
HTR - HEATER
HVU - HEATING VENTILATING UNIT
HWP - HOT WATER PUMP
HWR - HOT WATER RETURN
HWS - HOT WATER SUPPLY
HEX - HEAT EXCHANGER

IA - INSTRUMENT AIR
IC - INTERCOOLER
IH - INTAKE HOOD
IW - INDIRECT WASTE

JWR - JACKET WATER RETURN
JWS - JACKET WATER SUPPLY

LN2 - LIQUID NITROGEN
LP - LOW PRESSURE
LPC - LOW PRESSURE CONDENSATE
LPS - LOW PRESSURE STEAM
LTACS - LOW TEMP AIRFLOW CONTROL SYSTEM
LV - LAB VENT
LW - LAB WASTE

M - MOTOR
MCC - MOTOR CONTROL CENTER
MCV - MOISTURE CONTROL VALVE
MPR - MEDIUM PRESSURE CONDENSATE RETURN
MPS - MEDIUM PRESSURE STEAM
MS - MOTOR STARTER
MTCHWR - MEDIUM TEMP CHILLED WATER RETURN
MTCHWS - MEDIUM TEMP CHILLED WATER SUPPLY

N2 - N2 COMMUNICATIONS BUS
NA - NOT APPLICABLE
NC - NORMALLY CLOSED
NG - NATURAL GAS
NO - NORMALLY OPEN
NPCW - NON-POTABLE COLD WATER
NPHW - NON-POTABLE HOT WATER
NPSW - NON-POTABLE SOFT WATER
NPW - NON-POTABLE WATER

OA - OUTSIDE AIR
OF - OVERFLOW WATER
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED OWNER INSTALLED

P - PUMP
PA - PLANT AIR
PC - PUMPED CONDENSATE
PF - PRE-FILTER
PHWR - PERIMETER HOT WATER RETURN
PHWS - PERIMETER HOT WATER SUPPLY
PNL - PANEL
PP - PETROLEUM SOLVENT
PS - POWER PANEL
PVDF - POLYVINYLIDENE FLUORIDE
PW - PROCESS WASTE

RAF - RETURN AIR FAN
RAH - ROOFTOP AIR HANDLING UNIT
RC - REHEAT COIL
RCP - RADIANT CEILING PANEL
RD - ROOF DRAIN
RH - RELIEF HOOD
RHWS - REHEAT HOT WATER SUPPLY
RHWR - REHEAT HOT WATER RETURN
RHG - REFRIGERANT HOT GAS
RL - REFRIGERANT LIQUID
RO - REVERSE OSMOSIS WATER
ROH - REVERSE OSMOSIS WATER (HIGH ZONE)
RS - REFRIGERANT SUCTION
RSF - ROOF SUPPLY FAN
RWR - RECLAIM WATER RETURN
RWS - RECLAIM WATER SUPPLY
RW - REUSE WATER

S - SILENCER/STORM
SA - SUPPLY AIR
SAD - SOUND ATTENUATING DEVICE
SAN - SANITARY
SBD - SURFACE BLOWDOWN
SD - SUCTION DIFFUSER
SF - SUPPLY FAN
SPR - SPRINKLER
S/S - START/STOP
SS - STORM SEWER/STAINLESS STEEL
ST - STORAGE TANK/STEAM TRAP
SV - STEAM VENT

T - TANK
TCP - TEMPERATURE CONTROL PANEL
TCV - TEMPERATURE CONTROL VALVE
TRW - TRANSFER WATER
TWR - TOWER WATER RETURN
TWS - TOWER WATER SUPPLY
TXV - THERMAL EXPANSION VALVE

UH - UNIT HEATER
UST - UNDERGROUND STORAGE TANK
UV - UNIT VENTILATOR

V - VALVE/VOLTS/VENT
VA - VENTILATION AIR
VAC - VACUUM
VAV - VARIABLE AIR VALVE
VEV - VARIABLE EXHAUST VALVE
VFD - VARIABLE FREQUENCY DRIVE
VR - VAPOR RECOVERY
VTR - VENT THRU ROOF

WCC - WATER COOLED CONDENSATE
WE - WET EXHAUST
WF - WATER FILTER

X-(XXXX) - EXISTING (SYSTEM)

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HEALTHY KENTUCKY RESEARCH BUILDING

CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: EJ
Checked By: DS
Client Number
Project Number

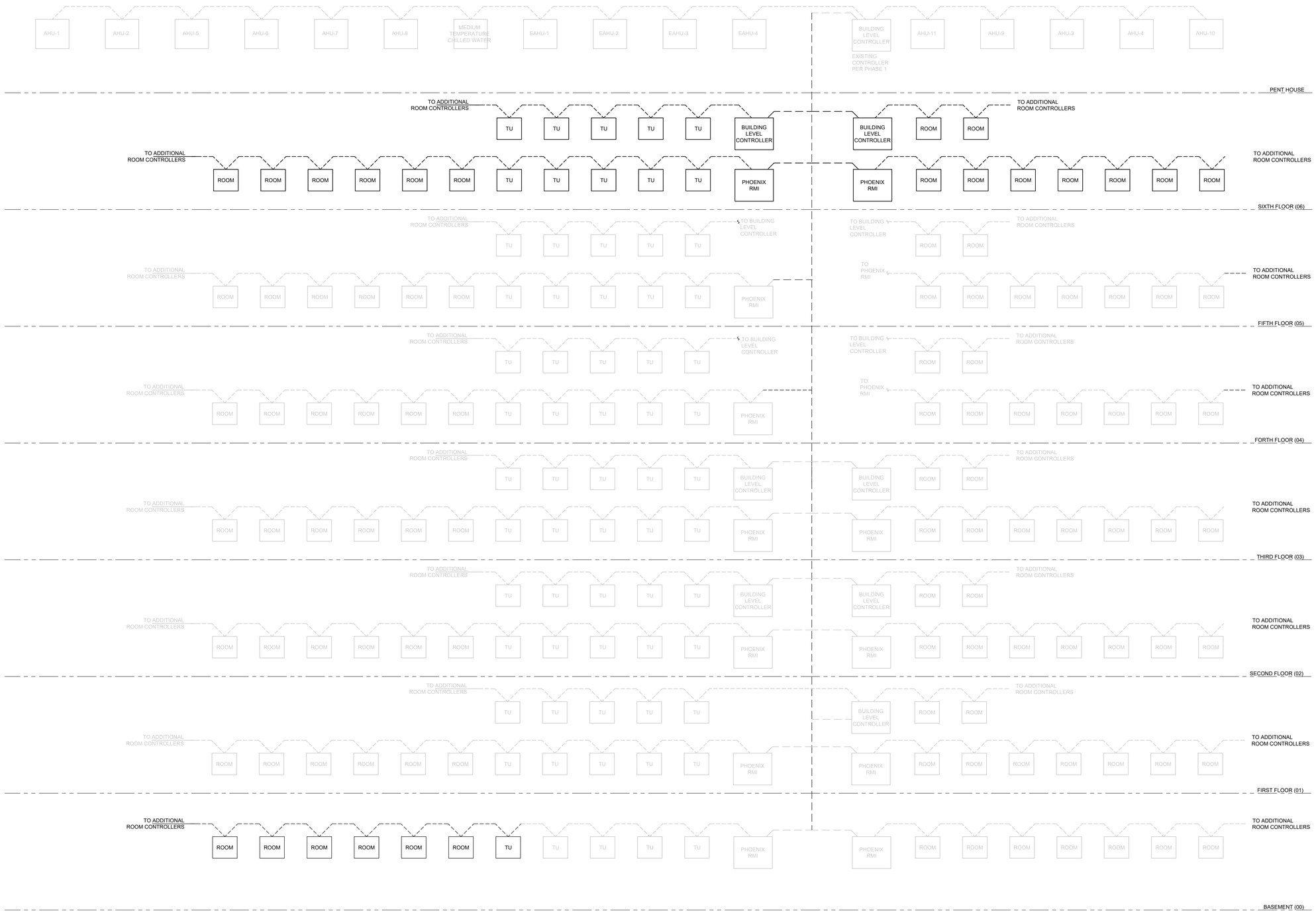
STATE OF KENTUCKY SCOTT FOSTER 31321 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING TITLE
CONTROL INSTRUMENTATION SYMBOLS & ABBREVIATIONS

SHEET NO.
IC-000

GENERAL NOTES:

1. THE INTENT OF THIS DIAGRAM IS TO PROVIDE A BASIS FOR THE BAS, NOT THE ACTUAL LAYOUT OF THE FINAL DESIGN. BAS CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROLLERS AS NECESSARY TO FULFILL REQUIREMENTS AND SEQUENCES LISTED IN 23-0901, 23-0923, AND 23-0993.



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3	P4 - BID & PERMIT	01/08/21

Drawn By: EJ

Checked By: DS

Client Number

Project Number

STATE OF KENTUCKY SCOTT FOSTER 31367 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING TITLE
BAS SYSTEM ARCHITECTURE

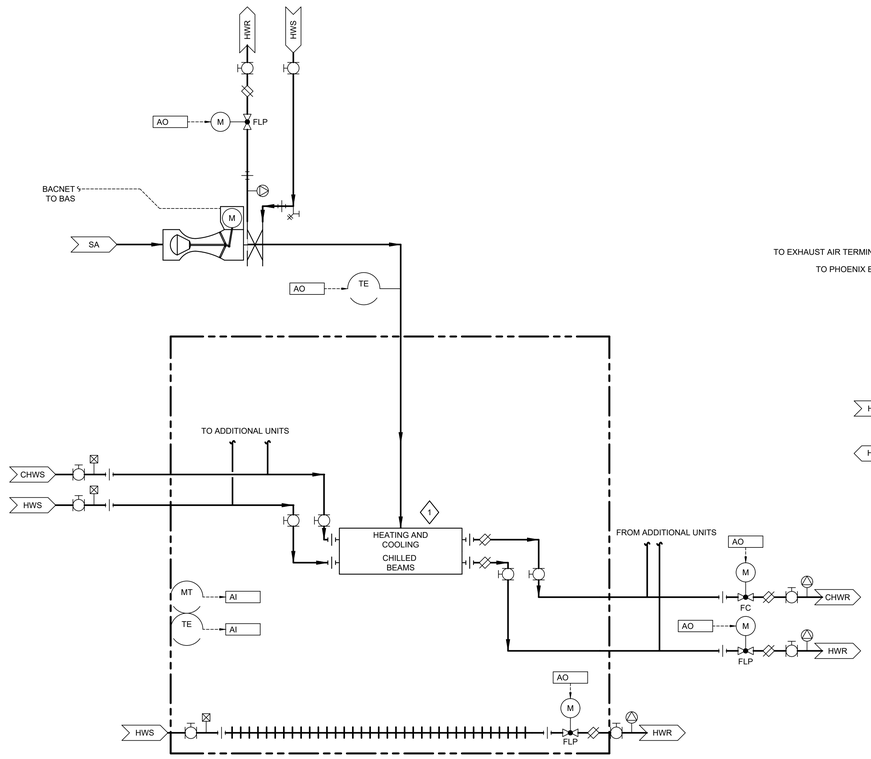
SHEET NO.
IC-500

GENERAL NOTES:

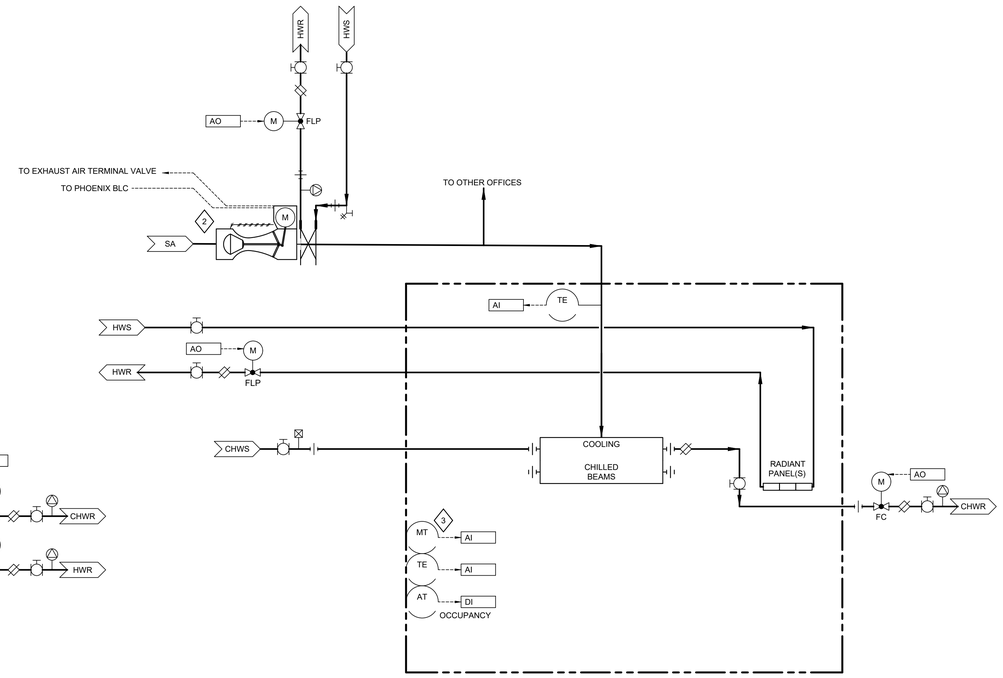
1. THE CONTROL/FLOW DIAGRAM IS ONLY INTENDED TO PROVIDE CONTROL AND INSTRUMENTATION RELATED INFORMATION. REFER TO MECHANICAL DETAILS FOR VALVING, DAMPERING AND ASSOCIATED SPECIALTIES' INSTALLATION REQUIREMENTS.
2. CONTROL/FLOW DIAGRAM INCLUDES GENERAL ARRANGEMENT OF SYSTEM COMPONENTS. REFER TO FLOOR PLANS AND EQUIPMENT SCHEDULES FOR COMPONENT QUANTITIES.

SHEET KEYNOTES

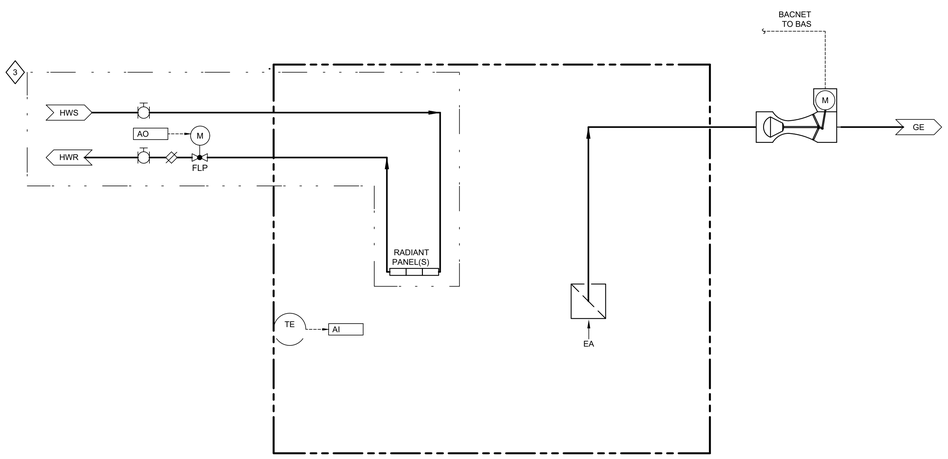
1. SENSOR WHERE INDICATED ON MECHANICAL DRAWINGS.
2. VENTURI VALVES ARE PROVIDED WITH CONTROLLER BY MANUFACTURER. WIRE SENSORS AS NEEDED TO ACCOMPLISH SEQUENCES IN 230993.
3. AS INDICATED ON MECHANICAL DRAWINGS.



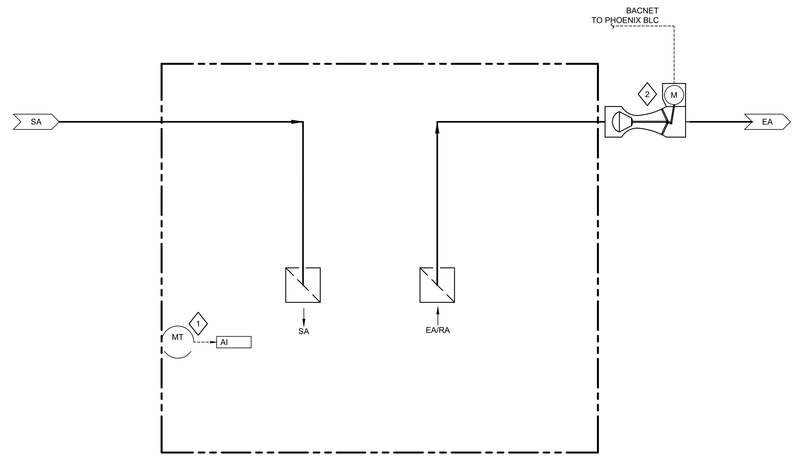
3 SEQUENCE E - OPEN TWO STORY AREA
SCALE: NONE



1 SEQUENCE A: OFFICE WITH EXTERIOR EXPOSURE
SCALE: NONE



4 SEQUENCE G: RESTROOMS
SCALE: NONE



2 SEQUENCE B: HALLWAYS ASSOCIATED WITH OFFICES
SCALE: NONE

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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

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No.	Description	Date
1	P4 - DD REVIEW	10/23/20
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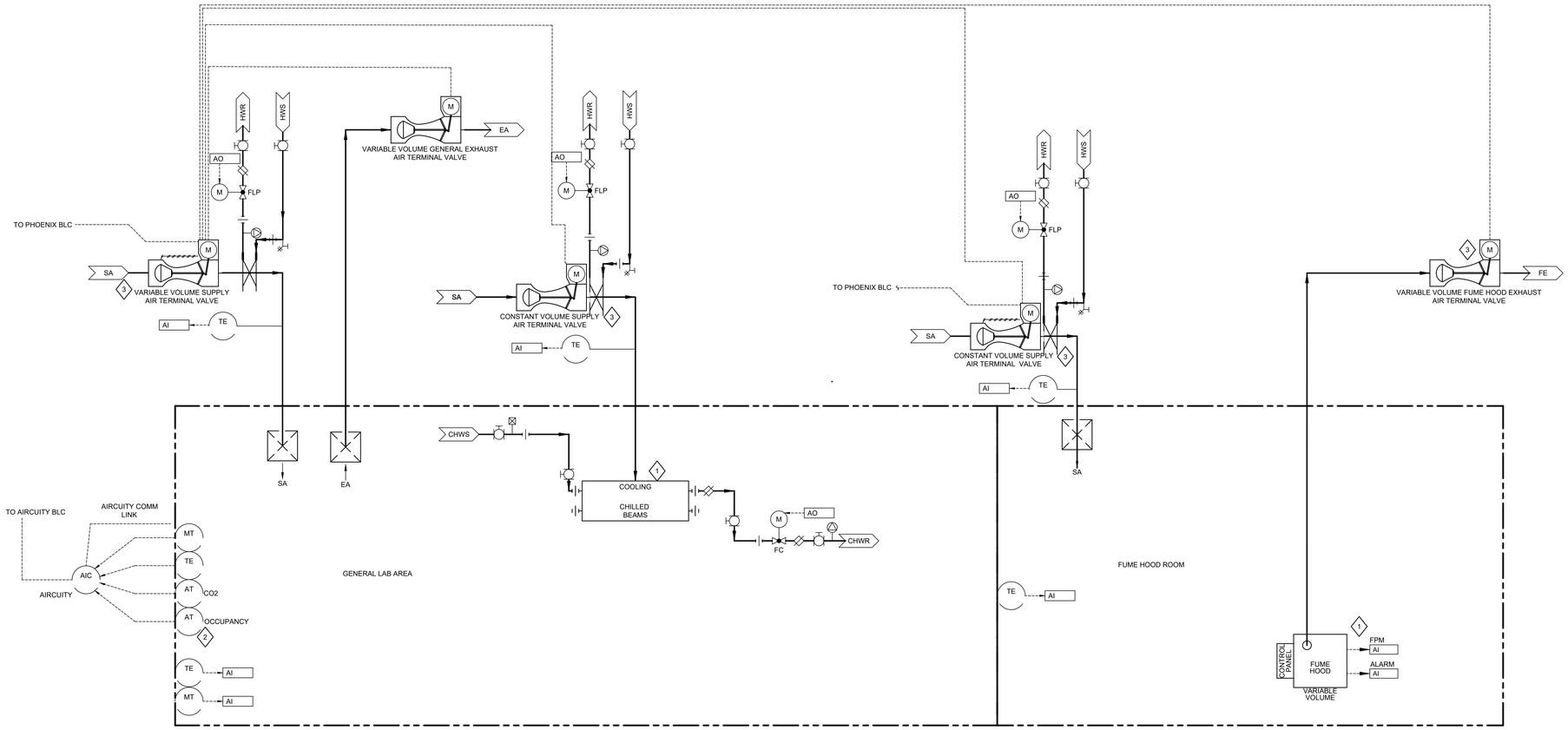
3	P4 - BID & PERMIT	01/08/21

Drawn By: EJ
Checked By: DS
Client Number
Project Number

STATE OF KENTUCKY SCOTT FOSTER 31331 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING TITLE
TERMINAL UNITS

SHEET NO.
IC-753



1 **SEQUENCE H - MAIN LABROTARY AREA & FUME HOOD ROOM**
SCALE: NONE

GENERAL NOTES:

1. THE CONTROL/FLOW DIAGRAM IS ONLY INTENDED TO PROVIDE CONTROL AND INSTRUMENTATION RELATED INFORMATION. REFER TO MECHANICAL DETAILS FOR VALVING, DAMPERING AND ASSOCIATED SPECIALTIES' INSTALLATION REQUIREMENTS.
2. CONTROL/FLOW DIAGRAM INCLUDES GENERAL ARRANGEMENT OF SYSTEM COMPONENTS. REFER TO FLOOR PLANS AND EQUIPMENT SCHEDULES FOR COMPONENT QUANTITIES.

SHEET KEYNOTES

1. MULTIPLE UNITS PER ZONE.
2. OCCUPANCY SENSOR PROVIDED BY CONTROL CONTRACTOR.
3. VENTURI VALVES ARE PROVIDED WITH CONTROLLER BY MANUFACTURER. WIRE SENSORS AS NEEDED TO ACCOMPLISH SEQUENCES IN 230993.

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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

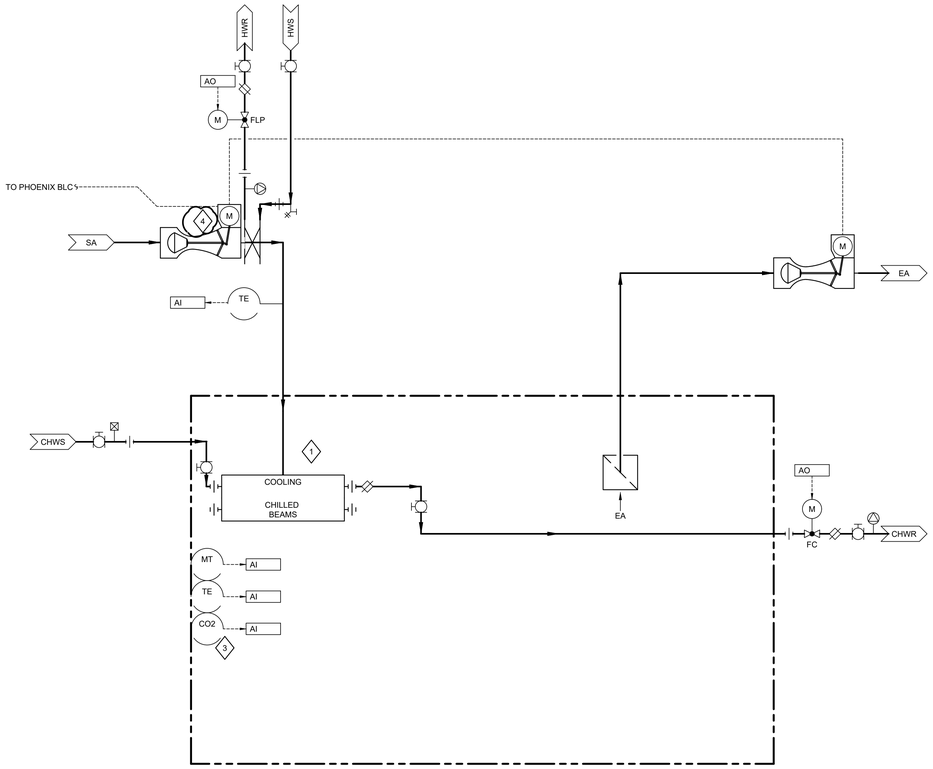
No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: EJ
Checked By: DS
Client Number:
Project Number:

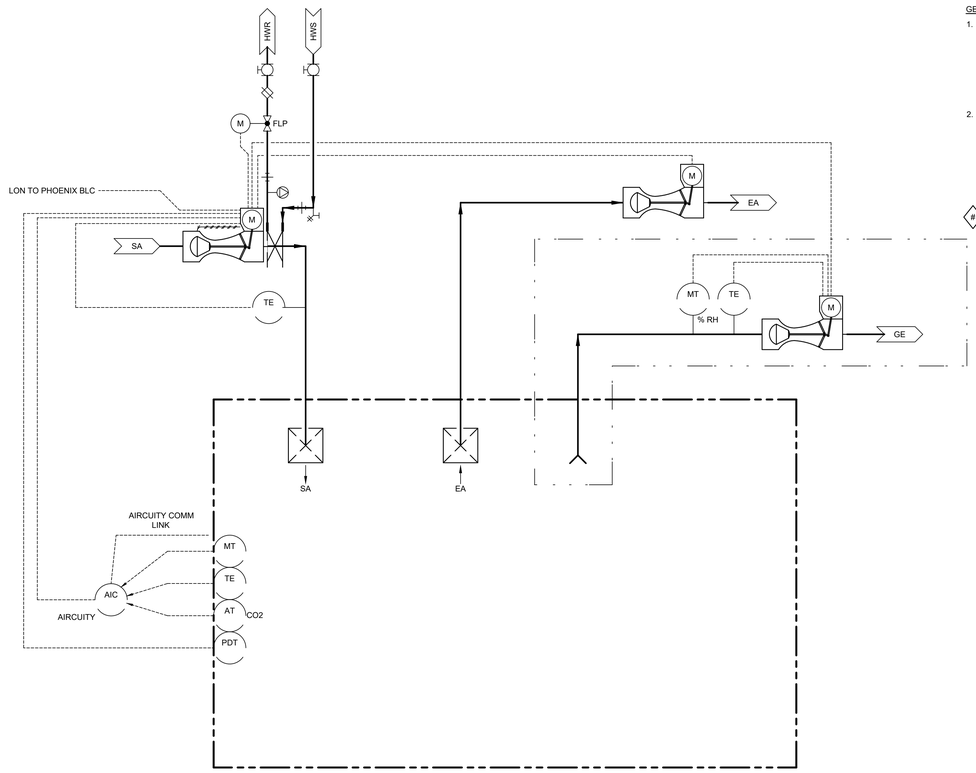
STATE OF KENTUCKY SCOTT FOSATE 31321 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING TITLE: TERMINAL UNITS

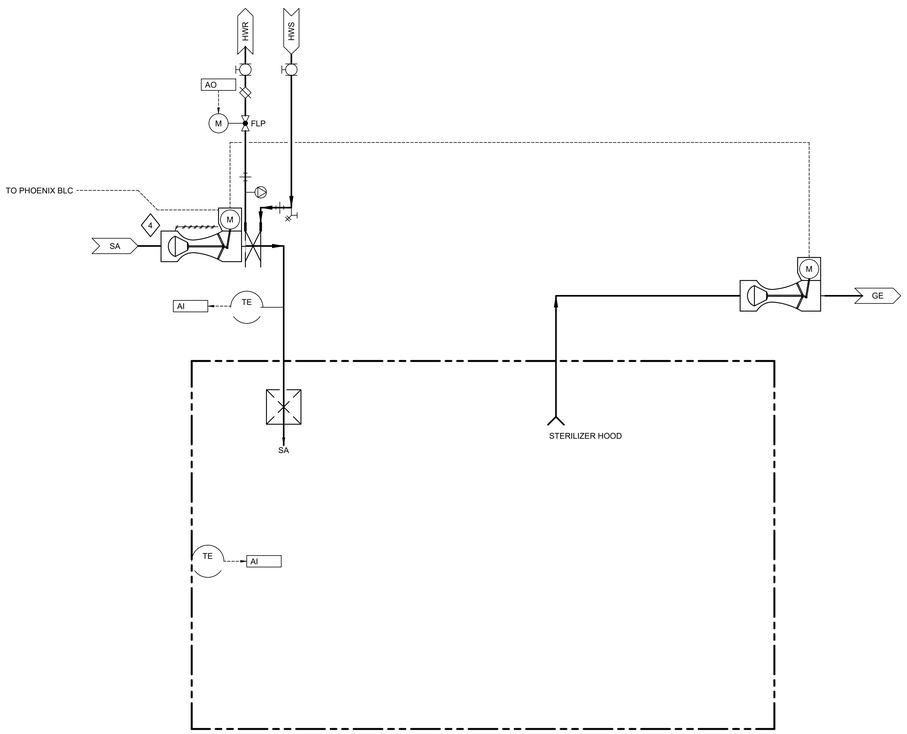
SHEET NO. IC-754



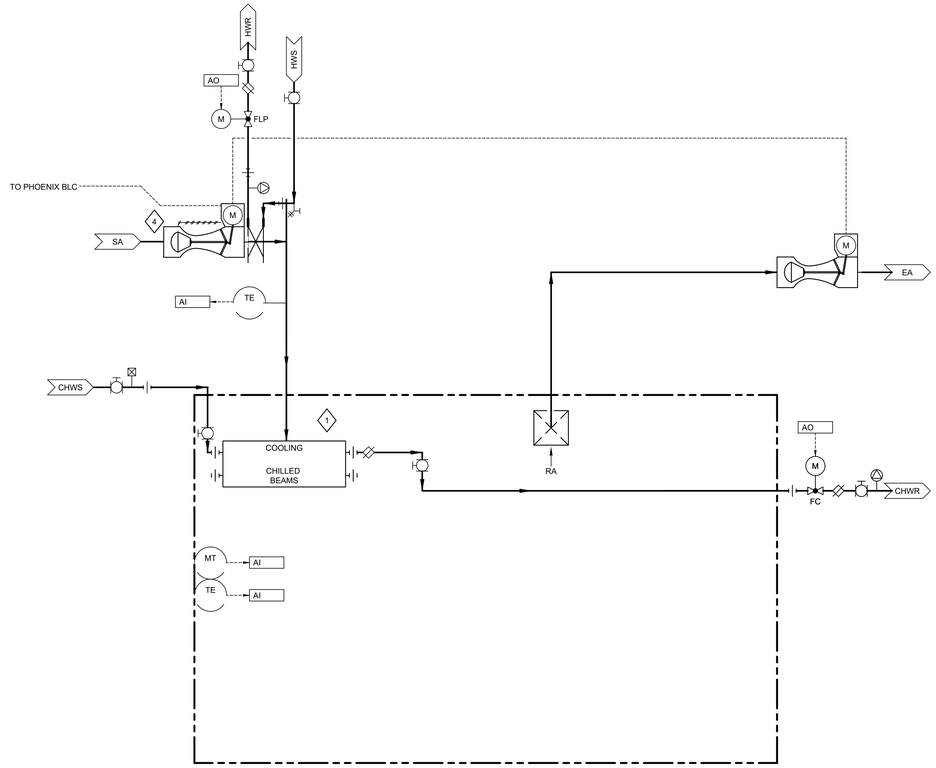
2 SEQUENCE K: "WET LAB" PROCEDURE ROOM
SCALE: NONE



1 SEQUENCE I: VIVARIUM ANIMAL PROCEEDURE/HOLDING ROOM
SCALE: NONE



3 SEQUENCE L: STERILIZER ROOM
SCALE: NONE



1 SEQUENCE J: LINEAR EQUIPMENT ROOM
SCALE: NONE

GENERAL NOTES:

1. THE CONTROL/FLOW DIAGRAM IS ONLY INTENDED TO PROVIDE CONTROL AND INSTRUMENTATION RELATED INFORMATION. REFER TO MECHANICAL DETAILS FOR VALVING, DAMPERING AND ASSOCIATED SPECIALTIES' INSTALLATION REQUIREMENTS.
2. CONTROL/FLOW DIAGRAM INCLUDES GENERAL ARRANGEMENT OF SYSTEM COMPONENTS. REFER TO FLOOR PLANS AND EQUIPMENT SCHEDULES FOR COMPONENT QUANTITIES.

SHEET KEYNOTES

1. MULTIPLE UNITS PER ZONE.
2. UNIT WHERE SHOWN ON PLANS.
3. SENSOR WHERE SHOWN ON PLANS.
4. VENTURI VALVES ARE PROVIDED WITH CONTROLLER BY MANUFACTURER. WIRE SENSORS AS NEEDED TO ACCOMPLISH SEQUENCES IN 230993.

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UK Project Number 2499.0

ISSUANCES

No.	Description	Date
1	P4 - DD REVIEW	10/23/20
2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By EJ
Checked By DS
Client Number
Project Number

STATE OF KENTUCKY SCOTT FOSTER 31321 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING TITLE
TERMINAL UNITS

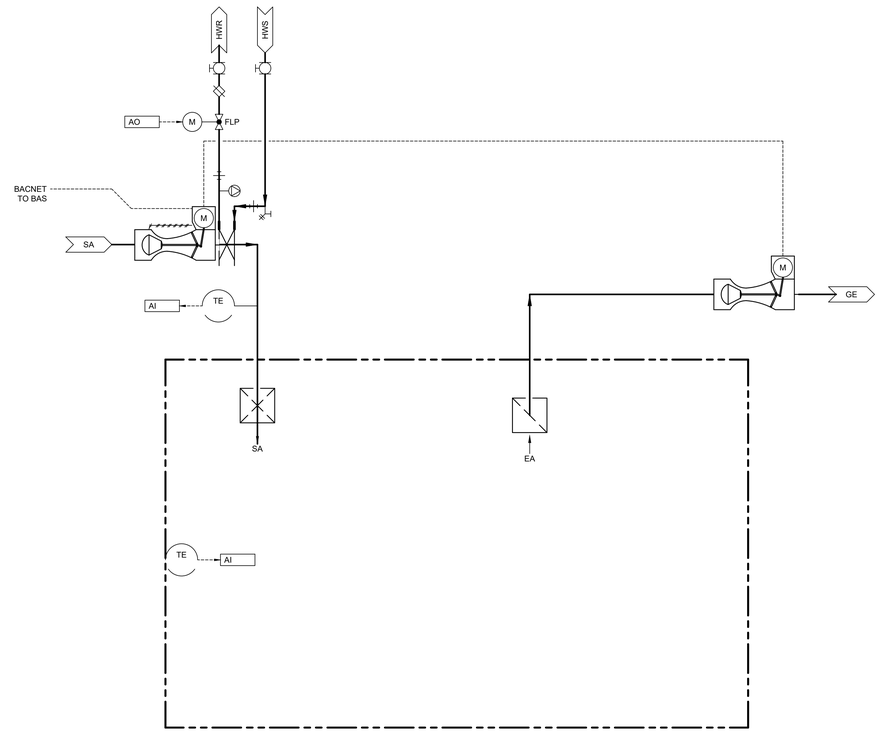
SHEET NO.
IC-755

GENERAL NOTES:

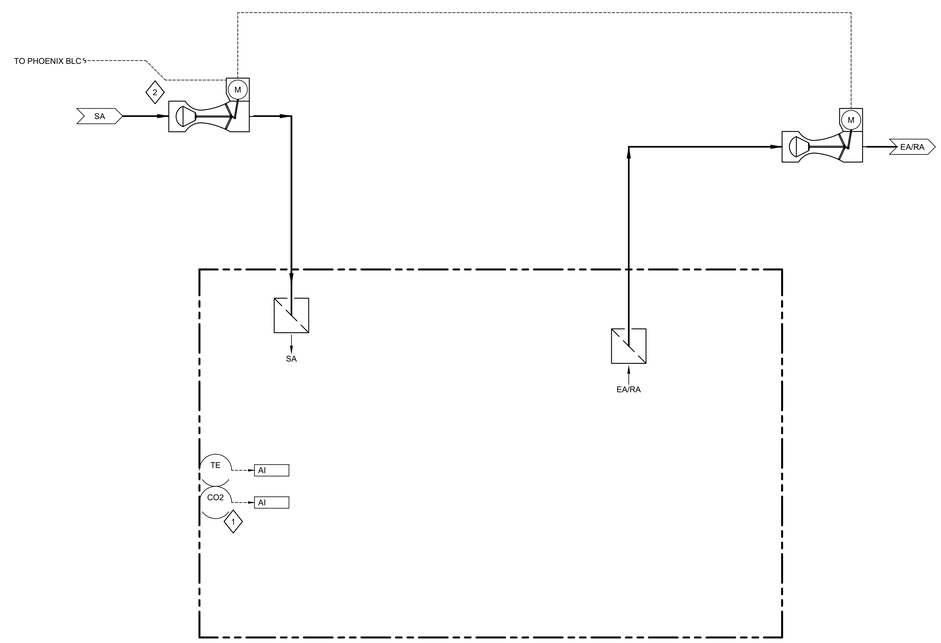
1. THE CONTROL/FLOW DIAGRAM IS ONLY INTENDED TO PROVIDE CONTROL AND INSTRUMENTATION RELATED INFORMATION. REFER TO MECHANICAL DETAILS FOR VALVING, DAMPERING AND ASSOCIATED SPECIALTIES' INSTALLATION REQUIREMENTS.
2. CONTROL/FLOW DIAGRAM INCLUDES GENERAL ARRANGEMENT OF SYSTEM COMPONENTS. REFER TO FLOOR PLANS AND EQUIPMENT SCHEDULES FOR COMPONENT QUANTITIES.

SHEET KEYNOTES

1. SENSOR WHERE SHOWN ON PLANS.



3 SEQUENCE U:ADDITONAL OFFICE AREAS
SCALE: NONE



2 SEQUENCE W: ENVIRONMENTAL ROOM
SCALE: NONE

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CONSTRUCT RESEARCH BUILDING PHASE 4

UK Project Number 2499.0

ISSUANCES

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2	P4 - CD REVIEW	12/04/20
3	P4 - BID & PERMIT	01/08/21

Drawn By: EJ

Checked By: DS

Client Number

Project Number

STATE OF KENTUCKY SCOTT FOSATE 31321 LICENSED PROFESSIONAL ENGINEER
1/7/2021

DRAWING TITLE
TERMINAL UNITS

SHEET NO.
IC-756

CONTROL VALVES

	UNIT TYPE	SYSTEM	TYPE	# -WAYS	CONTROL	PIPE LINE SIZE (IN)	SPECIFIC GRAVITY	DESIGN DP (PSID)	FLOW RATE (GPM)/ (LBS/HR)	SHUTOFF DIFFERENTIAL PRESSURE (PSID)	VALVE CV CALCULATED	ACTUATOR TYPE	FAIL POSITION	PRESSURE OR VOLT	REMARKS
TERMINAL UNITS															
	RADINAT	HW	CHARACTERIZED BALL	2-WAY	MODULATING	1/2 to 21/2	1.00	4	0.2 - 29.9	60	0.1 - 14.99	ELECTRIC	FAIL LAST	24	
	FINTUBE	HW	CHARACTERIZED BALL	2-WAY	MODULATING	1/2 to 21/2	1.00	4	0.2 - 29.9	60	0.1 - 14.99	ELECTRIC	FAIL LAST	24	
	REHEAT	HW	CHARACTERIZED BALL	2-WAY	MODULATING	1/2 to 21/2	1.00	4	0.2 - 29.9	60	0.1 - 14.99	ELECTRIC	FAIL LAST	24	
	CHILLED BEAM	CHW	CHARACTERIZED BALL	2-WAY	MODULATING	1/2 to 21/2	1.00	4	0.2 - 29.9	60	0.1 - 14.99	ELECTRIC	FAIL CLOSED	24	

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CONSTRUCT RESEARCH BUILDING PHASE 4

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Drawn By: EJ

Checked By: DS

Client Number

Project Number

STATE OF KENTUCKY SCOTT T. OSARCO 31331 LICENSED PROFESSIONAL ENGINEER 1/7/2021

DRAWING TITLE
INSTRUMENTATION EQUIPMENT SCHEDULES

SHEET NO.
IC-900

AEI Affiliated Engineers

| SYSTEM: | HARDWARE | | | | | | | | | | | | | | | | | | | | SOFTWARE | | | | | | | | | | | | | | | | | | |