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E2.2A	SECOND FLOOR ELECTRICAL DEMOLITION - ALTERNATE #2 - AREA A
E2.2B	SECOND FLOOR ELECTRICAL DEMOLITION - ALTERNATE #2 - AREA B
E2.2C	SECOND FLOOR ELECTRICAL DEMOLITION - ALTERNATE #2 - AREA C
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GENERAL INFORMATION

GOVERNING REGULATIONS

KENTUCKY BUILDING CODE	2018
INTERNATIONAL MECHANICAL CODE.....	2015
INTERNATIONAL ENERGY CONSERVATION CODE.....	2012
KENTUCKY PLUMBING CODE.....	2020
NATIONAL ELECTRICAL CODE NFPA 70.....	2014
SPRINKLER SYSTEMS NFPA 13.....	2010

PROJECT DESCRIPTION

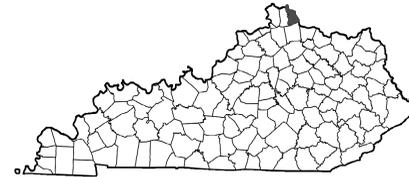
THIS PROJECT CONSISTS OF HYDRONIC PIPING REPLACEMENT, DOMESTIC WATER PIPING REPLACEMENT, CHILLER REPAIRS, ADDITION OF A CHEMICAL TREATMENT SYSTEM, PLUMBING CHASE ACCESS PANELS, AND THE ADDITION/RELOCATION OF WATER HEATERS. ADDITIONALLY, THE PROJECT INCLUDES VARIOUS IMPROVEMENTS SUCH AS CEILING AND LIGHTING REPLACEMENT IN AREAS LIKE THE BASEMENT CORRIDOR WHERE COMPLETE CEILING REMOVAL WILL BE REQUIRED. CEILINGS IN RESIDENCE ROOMS SHALL REMAIN.

GENERAL NOTES

- THE CURRENT CONTRACT IS TO BE MANAGED BY A GENERAL CONTRACTOR. REFER TO GENERAL AND SPECIAL CONDITIONS FOR WORKING HOURS, SCHEDULE, PARKING, SHIPPING AND RECEIVING, AND ADDITIONAL REQUIREMENTS.
- ALL WORK SHALL CONFORM TO NORTHERN KENTUCKY UNIVERSITY STANDARDS. THE CONTRACTOR IS TO REVIEW STANDARDS AS LISTED AT <https://inside.nku.edu/campusplanning/design-standards.html> AND INCLUDE ALL WORK REQUIRED FOR CONFORMANCE WITHIN THE BID.

PROJECT LOCATION

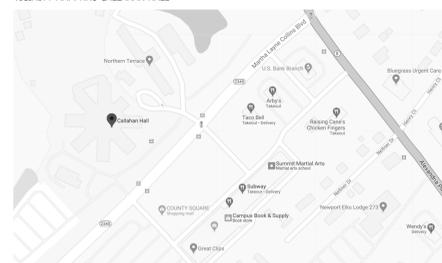
VICINITY MAP: KENTUCKY



VICINITY MAP: HIGHLAND HEIGHTS



VICINITY MAP: NKU CALLAHAN HALL



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

Construction Documents
02/26/2021

CLIENT PROJECT #: NKU-28-2021
NKU PROJECT MANAGER:



BUILDING SCIENCE LEADERSHIP

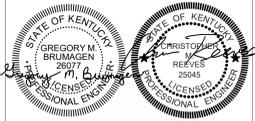
CMTA Project Manager: Chris Reeves
(creeves@cmta.com)

2429 Members Way
Lexington, KY 40504
T: 859 253.0892 F: 859 231.8357



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Lexington, KY 40504
T: 859 253.0892 F: 859 231.8357

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CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

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COVER SHEET

CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

NO.	DATE	DESCRIPTION

G1.0

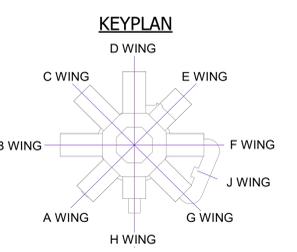
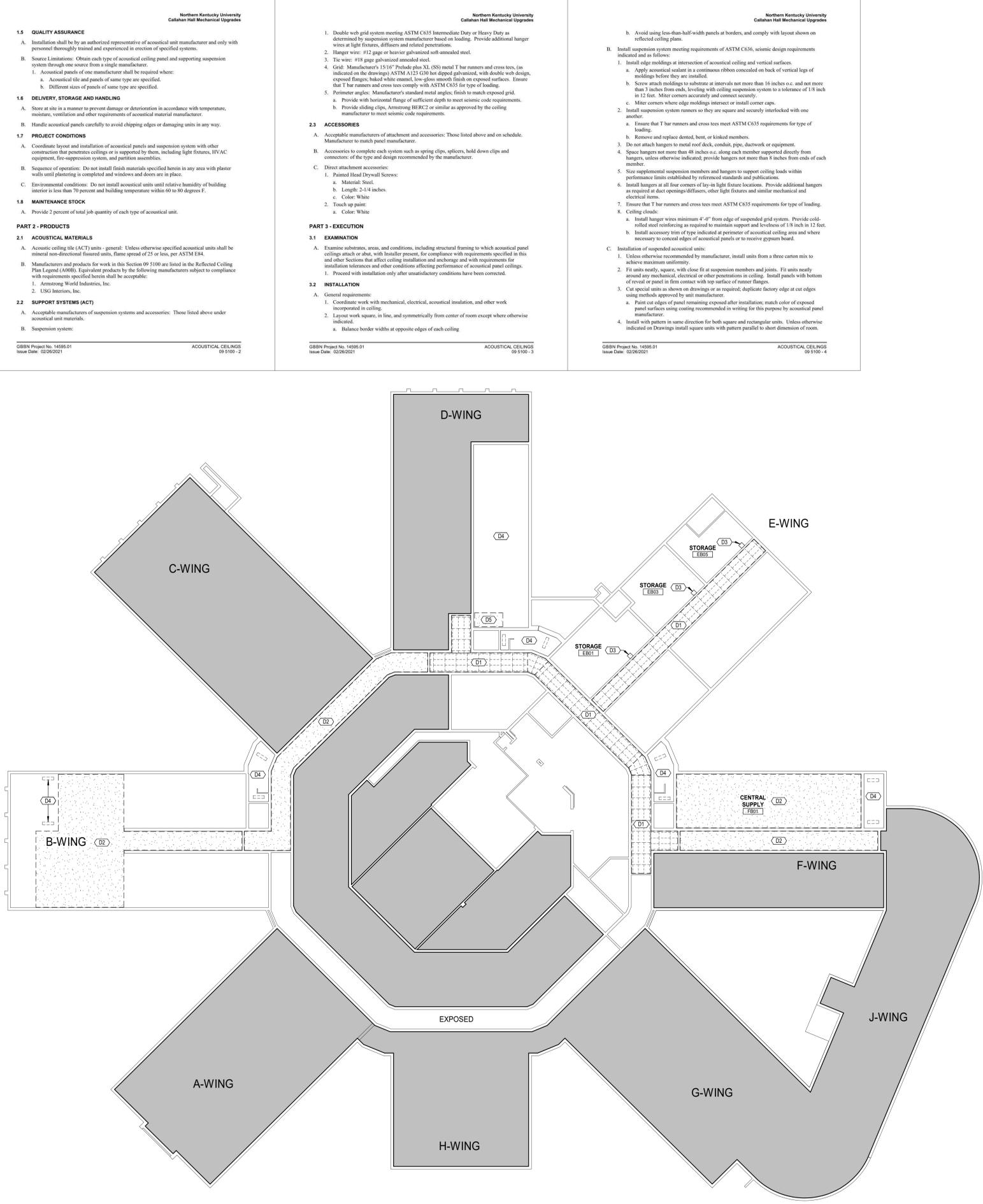
GENERAL NOTES - DEMOLITION FLOOR PLAN

- A. REFER TO THE PROJECT MANUAL FOR GENERAL DEMOLITION PROCEDURES, SALVAGING, PROTECTION, COORDINATION WITH NEW WORK, TRAFFIC AND CIRCULATION UTILITIES, ACCESS AND TEMPORARY CONTROLS/FACILITIES, POLLUTION CONTROLS, SHORING, CUTTING AND PATCHING, LIFE SAFETY PROCEDURES, AND OTHER DEMOLITION REQUIREMENTS DESCRIBED THEREIN.
- B. REFER TO MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS. DISCONNECT AND CAP UTILITIES AS INDICATED THEREIN.
- C. COORDINATE DEMOLITION INFORMATION SHOWN ON THIS PLAN WITH OTHER DEMOLITION DRAWINGS AND NEW WORK.
- D. IN THE EVENT A CONTRACTOR ENCOUNTERS, ON THE SITE, MATERIAL REASONABLY BELIEVED TO BE ASBESTOS OR POLYCHLORINATED BIPHENYL (PCB) WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO OWNER ARCHITECT, AND CONSTRUCTION MANAGER IN WRITING.

DEMOLITION FLOOR PLAN LEGEND

- AREA BEYOND SCOPE OF ARCHITECTURAL WORK.
- PLASTER CEILING TO BE REMOVED
- ACOUSTIC CEILING TO BE REMOVED
- ITEM TO BE REMOVED IN ITS ENTIRETY
- EXISTING ITEM TO REMAIN

KEY VALUE	KEYNOTE TEXT
D1	DEMO EXISTING, SUSPENDED GRID CEILING SYSTEM AND LAY-IN LIGHT FIXTURES.
D2	DEMO EXISTING PLASTER CEILING AND SURFACE-MOUNTED LIGHT FIXTURES. COORDINATE WITH MEP DRAWINGS TO LOCATE HANGERS FOR EXISTING PLUMBING/ELECTRIC, AND FIRE SAFETY.
D3	SELECTIVE DEMOLITION OF DRYWALL CEILING FOR PIPE ACCESS AT FAN COIL UNITS. REFER TO MEP DRAWINGS.
D4	DEMO EXISTING LIGHT FIXTURES, COORDINATE WITH ELECTRICAL DRAWINGS.
D5	SELECTIVE DEMOLITION OF APPROX. 5' X 10' OF PLASTER CEILING FOR PIPE ACCESS AT FAN COIL UNIT. REFER TO MEP DRAWINGS.



Northern Kentucky University
Callahan Hall Mechanical Upgrades

SECTION 09 5100
ACOUSTICAL CEILINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Suspended metal grid system and trim.
2. Lay-in acoustical ceiling tile.

B. Related Sections:

1. Division 21 - Fire Suppression: Fire suppression items in acoustical ceilings.
2. Divisions 23 and 26 - HVAC and Electrical: Diffusers, lights and other mechanical and electrical items in acoustical ceilings.

1.2 REFERENCES

A. Work specified herein shall conform to applicable portions of the following referenced standards:

1. Comply with standards in effect as of date of the Contract Documents unless otherwise indicated.
2. ASTM E1264 Standard Classification for Acoustical Ceiling Products.
3. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.

1.3 REGULATORY REQUIREMENTS

A. Fire rated assembly: Where specific fire tested assembly is called for in Contract Documents, materials, installation procedures and other requirements of specific test supersede any conflicting requirements in Contract Documents.

B. Design and size components to withstand seismic loads as indicated on Drawings, in accordance with the Kentucky Building Code.

1.4 SUBMITTALS

A. Submit the following items for review by Architect:

1. Submit in duplicate, samples of the following materials:
 - a. Acoustical units - each type.
 - b. Exposed runners edge angles and accessories with specified finish.
2. Submit manufacturer's product literature indicating compliance with requirements specified herein.
3. Submit manufacturer's recommended maintenance procedures for Owner's use for each material specified herein.

GBBN Project No. 14595.01
Issue Date: 02/26/2021

ACOUSTICAL CEILINGS
09 5100 - 1

Northern Kentucky University
Callahan Hall Mechanical Upgrades

1.5 QUALITY ASSURANCE

A. Installation shall be by an authorized representative of acoustical unit manufacturer and only with personnel thoroughly trained and experienced in erection of specified systems.

B. Source limitations: Obtain each type of acoustical ceiling panel and supporting suspension system through one source from a single manufacturer.

1. Acoustical panels of one manufacturer shall be required where:

- a. Acoustical tile and panels of same type are specified.
- b. Different sizes of panels of same type are specified.

1.6 DELIVERY, STORAGE AND HANDLING

A. Store at site in a manner to prevent damage or deterioration in accordance with temperature, moisture, ventilation and other requirements of acoustical material manufacturer.

B. Handle acoustical panels carefully to avoid chipping edges or damaging units in any way.

1.7 PROJECT CONDITIONS

A. Coordinate layout and installation of acoustical panels and suspension system with other construction that penetrates ceilings and is supported by them, including light fixtures, HVAC equipment, fire-suppression systems, and partition assemblies.

B. Sequence of operation: Do not install finish materials specified herein in any area with plaster walls until plastering is completed and windows and doors are in place.

C. Environmental conditions: Do not install acoustical units until relative humidity of building interior is less than 70 percent and building temperature within 60 to 80 degrees F.

1.8 MAINTENANCE STOCK

A. Provide 2 percent of total job quantity of each type of acoustical unit.

PART 2 - PRODUCTS

2.1 ACOUSTICAL MATERIALS

A. Acoustic ceiling tile (ACT) units - general: Unless otherwise specified acoustical units shall be mineral fiber-injected, fluted units, flame spread of 25 or less, per ASTM E84.

B. Manufacturers and products for work in this Section 09 5100 are listed in the Reflected Ceiling Plan Legend (RCP). Equivalent products by the following manufacturers subject to compliance with requirements specified herein shall be acceptable:

1. Armstrong World Industries, Inc.
2. USG Interiors, Inc.

2.2 SUPPORT SYSTEMS (ACT)

A. Acceptable manufacturers of suspension systems and accessories: Those listed above under acoustical unit materials.

B. Suspension system:

- a. Balance border widths at opposite edges of each ceiling.

GBBN Project No. 14595.01
Issue Date: 02/26/2021

ACOUSTICAL CEILINGS
09 5100 - 2

Northern Kentucky University
Callahan Hall Mechanical Upgrades

2.3 CLEANING AND ADJUSTMENT

A. Clean exposed surfaces of acoustical panel ceilings, including trim, edge moldings, and suspension system members.

1. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage.
2. Remove and replace with new, ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION

GBBN Project No. 14595.01
Issue Date: 02/26/2021

ACOUSTICAL CEILINGS
09 5100 - 3

Northern Kentucky University
Callahan Hall Mechanical Upgrades

3.3 CLEANING AND ADJUSTMENT

A. Clean exposed surfaces of acoustical panel ceilings, including trim, edge moldings, and suspension system members.

1. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage.
2. Remove and replace with new, ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION

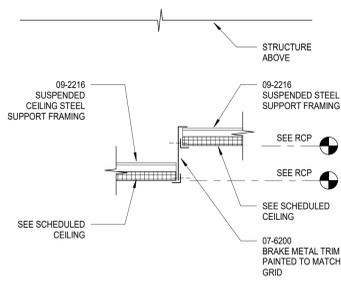
GBBN Project No. 14595.01
Issue Date: 02/26/2021

ACOUSTICAL CEILINGS
09 5100 - 4

1
D00B

BASEMENT RCP DEMO
SCALE: 1/16" = 1'-0"

TYPICAL CEILING DETAILS



CLG-A



2 EB05 EXTERIOR DOOR
A00B SCALE: 12" = 1'-0"



3 E WING EGRESS DOOR
A00B SCALE: 12" = 1'-0"

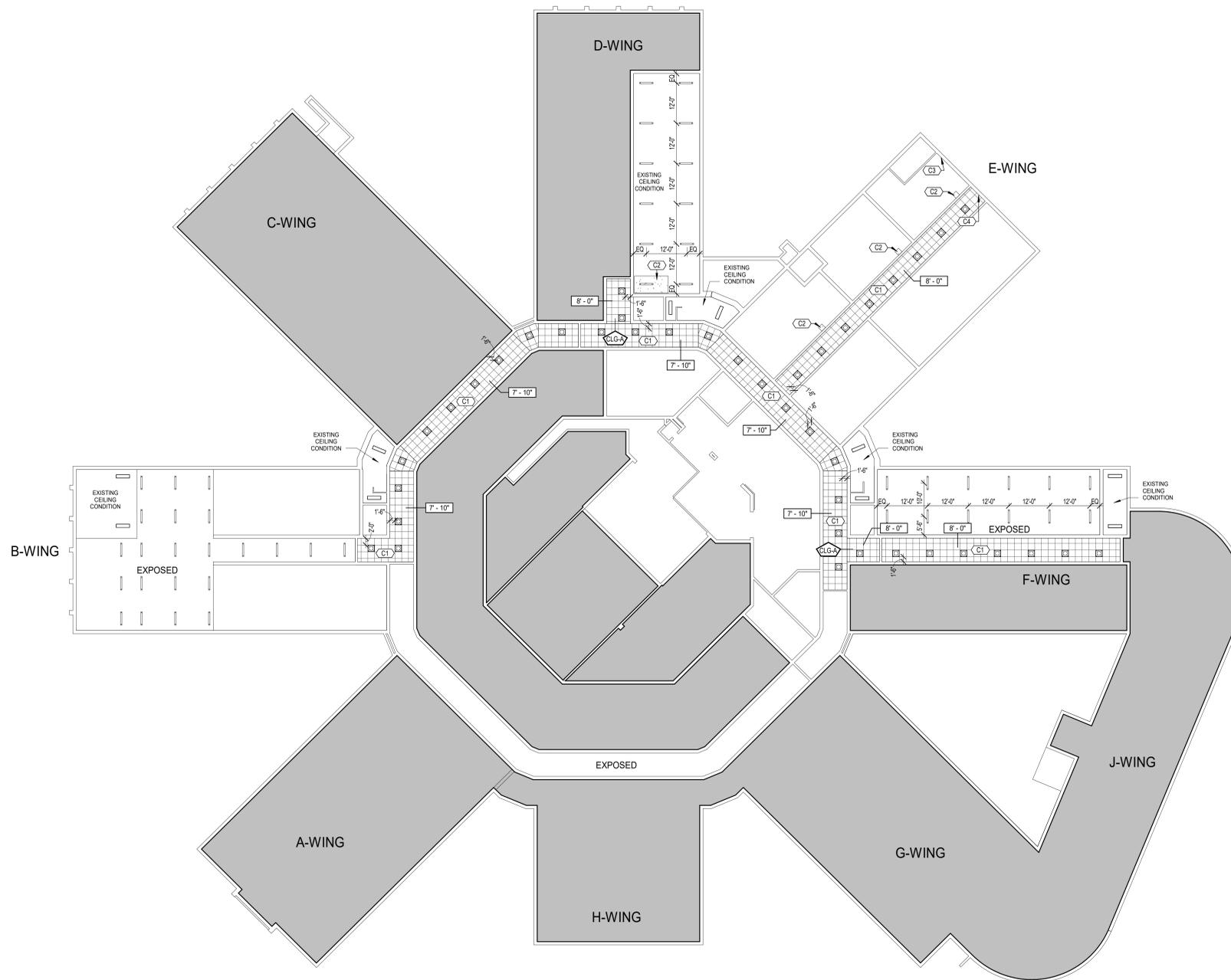
GENERAL NOTES - REFLECTED CEILING PLAN

- A. **CEILING HEIGHT**
 - CEILING HEIGHTS ON PLAN INDICATE A CONDITION MATCHING THE EXISTING HEIGHT. IT IS DESIRABLE TO INCREASE THE CEILING HEIGHT IF NEW CONDITION ALLOWS FOR IT.
- A. **CEILING AND DEVICE LAYOUT**
 - LOCATE ACOUSTIC CEILING PANELS CENTERED WITHIN THE ROOM UNLESS INDICATED OTHERWISE.
 - CEILING-MOUNTED DEVICES ARE SHOWN FOR THE PURPOSE OF OVERALL LAYOUT WITHIN THE CEILINGS.
 - NOT ALL DEVICES ARE SHOWN ON THIS PLAN. REFER TO MECHANICAL, ELECTRICAL, TECHNOLOGY, SECURITY EQUIPMENT AND OTHER APPLICABLE DRAWINGS FOR OTHER CEILING MOUNTED DEVICES NOT SHOWN ON THIS PLAN.
 - FOR DEVICES MOUNTED IN ACOUSTIC CEILINGS, LOCATE CENTERED IN THE ACOUSTIC CEILING PANELS UNLESS INDICATED OTHERWISE.
 - FOR DEVICES MOUNTED IN HARD CEILING SURFACES (GYPSUM BOARD, PLASTER, EXPOSED STRUCTURE) AND NOT DIMENSIONED, LOCATE DEVICES ALONG A CENTERLINE AXIS AND SPACED EQUALLY.
- B. **CEILING DETAILS**
 - REFER TO CEILING DETAILS FOR CEILING MATERIALS AND HEIGHT TRANSITIONS UNLESS INDICATED OTHERWISE.
- C. **FIRE SUPPRESSION SYSTEMS**
 - REFER TO FIRE PROTECTION DOCUMENTS FOR FIRE SUPPRESSION SYSTEM REQUIREMENTS AND SCOPE OF WORK AS APPLICABLE.
 - IN ACOUSTIC CEILING PANELS, LOCATE CENTERED IN ACOUSTIC CEILING PANELS.
 - IN EXPOSED CEILINGS, LOCATE SPRINKLER HEADS - TO THE GREATEST EXTENT POSSIBLE - ALONG A SHARED CENTERLINE AXIS.

REFLECTED CEILING PLAN LEGEND

- AREA BEYOND SCOPE OF ARCHITECTURAL WORK.
- EXPOSED CEILING
- ACOUSTIC CEILING TILE: 24" X 24" ARMSTRONG CERAMAGUARD FINE FISSURED, SQUARE LAY-IN 15/16" T-GRID, SEE SPEC SHEETS ON D00B.
- 2' X 2' LAY-IN LIGHT FIXTURE, REFER TO ELEC PLANS FOR SPEC.
- SUSPENDED LIGHT FIXTURE, REFER TO ELEC PLANS FOR SPEC.
- 1' X 4' SURFACE-MOUNTED LIGHT FIXTURE, REFER TO ELEC PLANS FOR SPEC.

- | KEY VALUE | KEYNOTE TEXT |
|-----------|--|
| C1 | INSTALL NEW 2'X2' SUSPENDED CEILING GRID. |
| C2 | PATCH AND REPAIR DRYWALL/PLASTER CEILING WHERE HOLES WERE REQUIRED AT FAN COIL UNITS FOR PIPE REMOVAL. |
| C3 | ADD NEW SWEEPS AT EXISTING EXTERIOR DOOR. SEE PHOTO 3/A00B. |
| C4 | ADD NEW SWEEPS AND ASTRAGAL AT EXISTING EXTERIOR DOUBLE DOOR. SEE PHOTO 3/A00B. |



1 BASEMENT REFLECTED CEILING PLAN
A00B SCALE: 1/16" = 1'-0"



Construction Documents



CALLAHAN HALL MECHANICAL UPDATES
NORTHERN KENTUCKY UNIVERSITY
3510 ALEXANDRIA PIKE HIGHLAND HEIGHTS, KENTUCKY 41076
BASEMENT REFLECTED CEILING PLAN

CLIENT JOB #:	NKU-28-2021
DATE:	02-26-2021
DRAWN:	GBBN
CHECKED:	

REVISIONS

A00B

TAGGED NOTES

P38 DEMOLISH FLOOR DRAIN AND RELATED PIPING TO SANITARY TEE.
 P43 EXISTING CW AND HW PIPING TO BE DEMOLISHED UP TO VALVES SERVING BATHROOM RISERS.



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

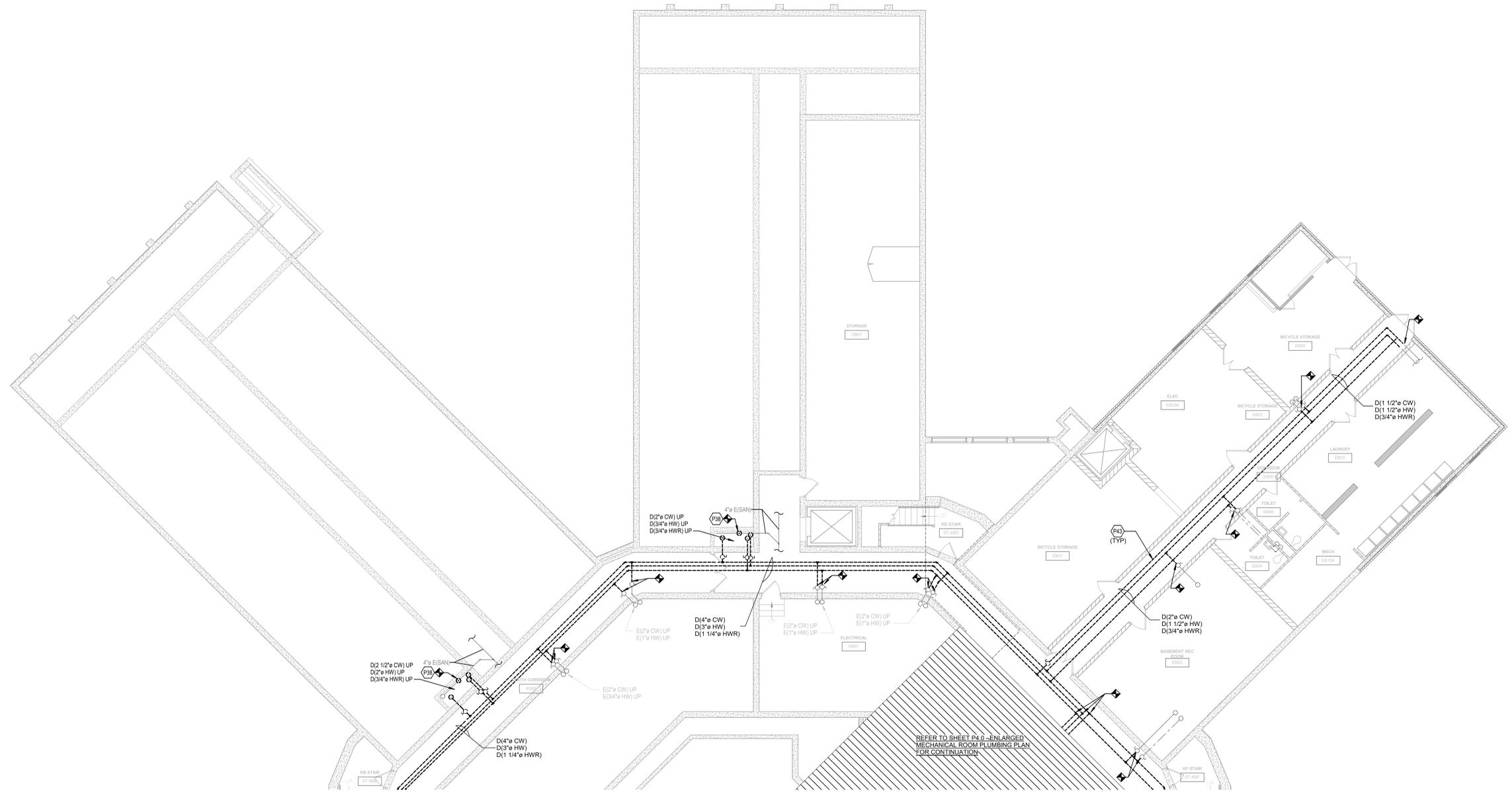
NORTHERN KENTUCKY UNIVERSITY
 3510 Alexandria Pike, Highland Heights, KY 41076

BASEMENT PLUMBING DEMOLITION PLAN - AREA B

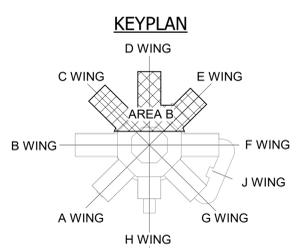
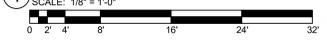
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DATE:	02/26/2021
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REVISIONS

P2.0B



1 BASEMENT - PLUMBING DEMOLITION PLAN - AREA B



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 R. B. STONER

TAGGED NOTES
 P38 DEMOLISH FLOOR DRAIN AND RELATED PIPING TO SANITARY TEE.
 P43 EXISTING CW AND HW PIPING TO BE DEMOLISHED UP TO VALVES
 SERVING BATHROOM RISERS.



Construction Documents



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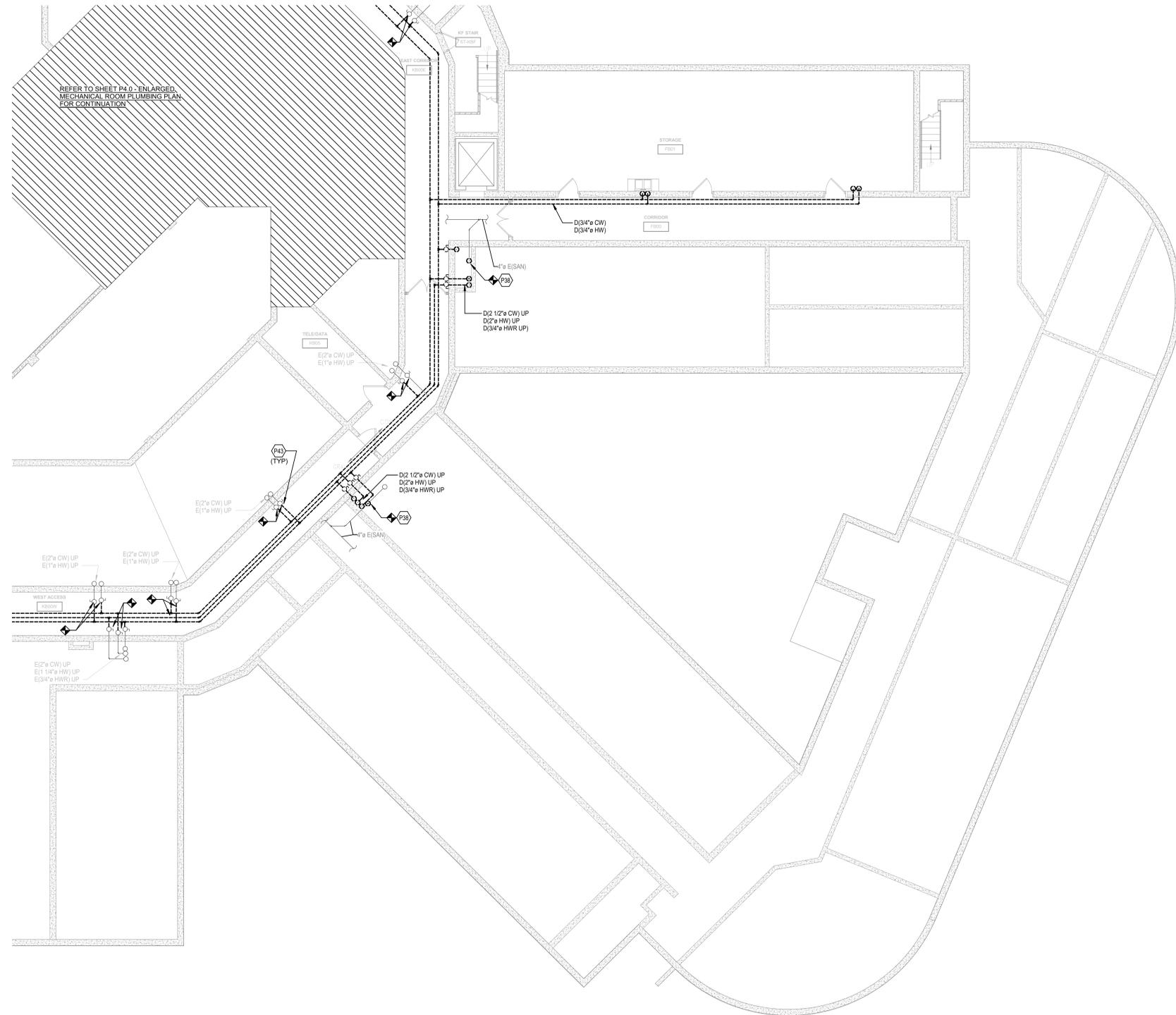
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BASEMENT PLUMBING DEMOLITION PLAN - AREA C

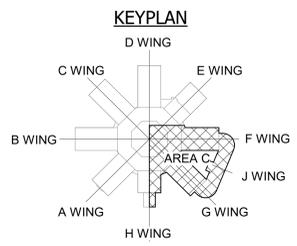
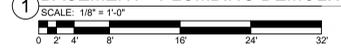
CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

P2.0C



1 BASEMENT - PLUMBING DEMOLITION PLAN - AREA C



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TAGGED NOTES

- P38 DEMOLISH FLOOR DRAIN AND RELATED PIPING TO SANITARY TEE.
- P40 DEMOLISH C/W/HW RISER PIPING UP TO NEXT FLOOR AND TO WATER CLOSET, SHOWER, AND LAVATORY IN THIS BATHROOM REFER TO SHEET P6.0 FOR NEW PLUMBING RISER WHICH IS SIMILAR TO EXISTING FOR REFERENCE.
- P42 EXISTING PLUMBING TO THIS RESTROOM GROUP TO REMAIN.
- P43 EXISTING CW AND HW PIPING TO BE DEMOLISHED UP TO VALVES SERVING BATHROOM RISERS.
- P54 EXISTING CW AND HW PIPING TO BE DEMOLISHED UP TO AND INCLUDING VALVES SERVING BATHROOM RISERS.

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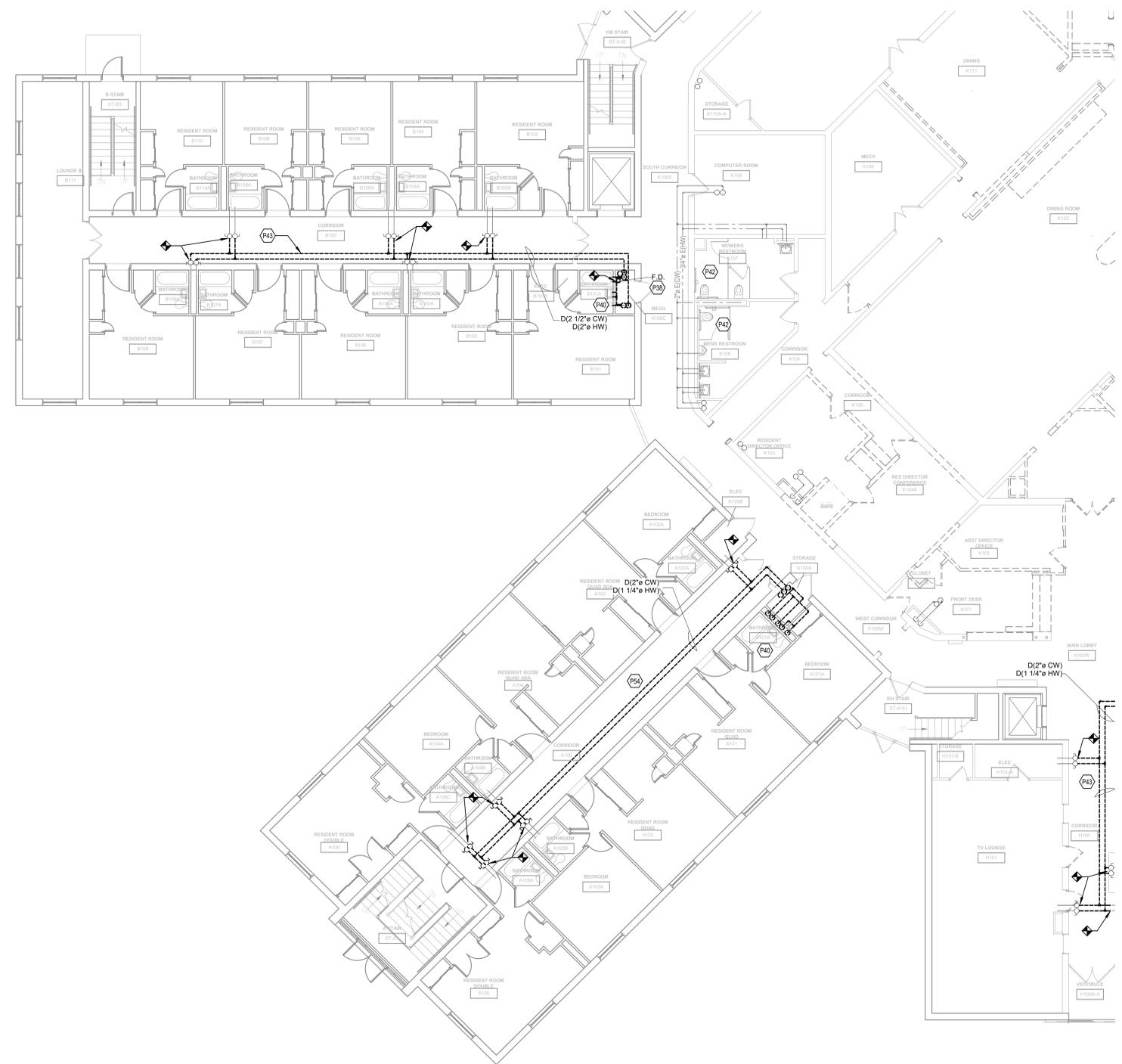
Construction Documents



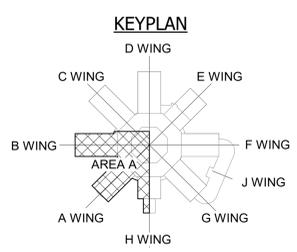
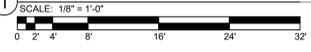
CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

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FIRST FLOOR PLUMBING DEMOLITION PLAN - AREA A



1 FIRST FLOOR - PLUMBING DEMOLITION PLAN - AREA A



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DATE:	02/26/2021
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REVISIONS

P2.1A

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 DATE: 02/26/2021
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TAGGED NOTES

- P38 DEMOLISH FLOOR DRAIN AND RELATED PIPING TO SANITARY TEE.
- P40 DEMOLISH CW/HW RISER PIPING UP TO NEXT FLOOR AND TO WATER CLOSET, SHOWER, AND LAVATORY IN THIS BATHROOM REFER TO SHEET P6.0 FOR NEW PLUMBING RISER WHICH IS SIMILAR TO EXISTING FOR REFERENCE.
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Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

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FIRST FLOOR PLUMBING DEMOLITION PLAN - AREA B

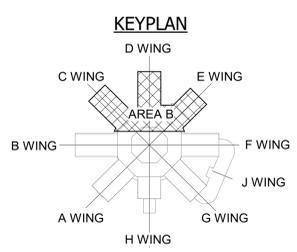
CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CHR

REVISIONS

P2.1B



1 FIRST FLOOR - PLUMBING DEMOLITION PLAN - AREA B



PROJECT: C:\Users\mrc\Documents\2020\28020
 DATE: 02/26/21
 DRAWING: P2.1B

TAGGED NOTES

- P40 DEMOLISH CWHW RISER PIPING UP TO NEXT FLOOR AND TO WATER CLOSET, SHOWER, AND LAVATORY IN THIS BATHROOM REFER TO SHEET P6.0 FOR NEW PLUMBING RISER WHICH IS SIMILAR TO EXISTING FOR REFERENCE.
- P44 EXISTING HWR PIPING AND VALVES TO BE DEMOLISHED UP TO WALL. ENOUGH PIPE SHALL REMAIN TO FACILITATE RECONNECTION TO NEW SYSTEM WITHOUT DAMAGING WALL.

#



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

SECOND FLOOR PLUMBING DEMOLITION PLAN - AREA B

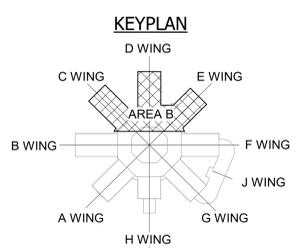
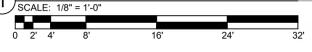
CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

P2.2B



1 SECOND FLOOR - PLUMBING DEMOLITION PLAN - AREA B



PROJECT: C:\Users\sls\Documents\2020\NKU2020
 DATE: 02/26/2021
 DRAWN: SLS

TAGGED NOTES

- P40 DEMOLISH CW/HW RISER PIPING UP TO NEXT FLOOR AND TO WATER CLOSET, SHOWER, AND LAVATORY IN THIS BATHROOM REFER TO SHEET P6.0 FOR NEW PLUMBING RISER WHICH IS SIMILAR TO EXISTING FOR REFERENCE.
- P44 EXISTING HWR PIPING AND VALVES TO BE DEMOLISHED UP TO WALL. ENOUGH PIPE SHALL REMAIN TO FACILITATE RECONNECTION TO NEW SYSTEM WITHOUT DAMAGING WALL.
- P56 EXISTING PIPING RISERS AND ABOVE CEILING IN THESE BATHROOMS TO REMAIN.



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

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SECOND FLOOR PLUMBING DEMOLITION PLAN - AREA C

CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

P2.2C



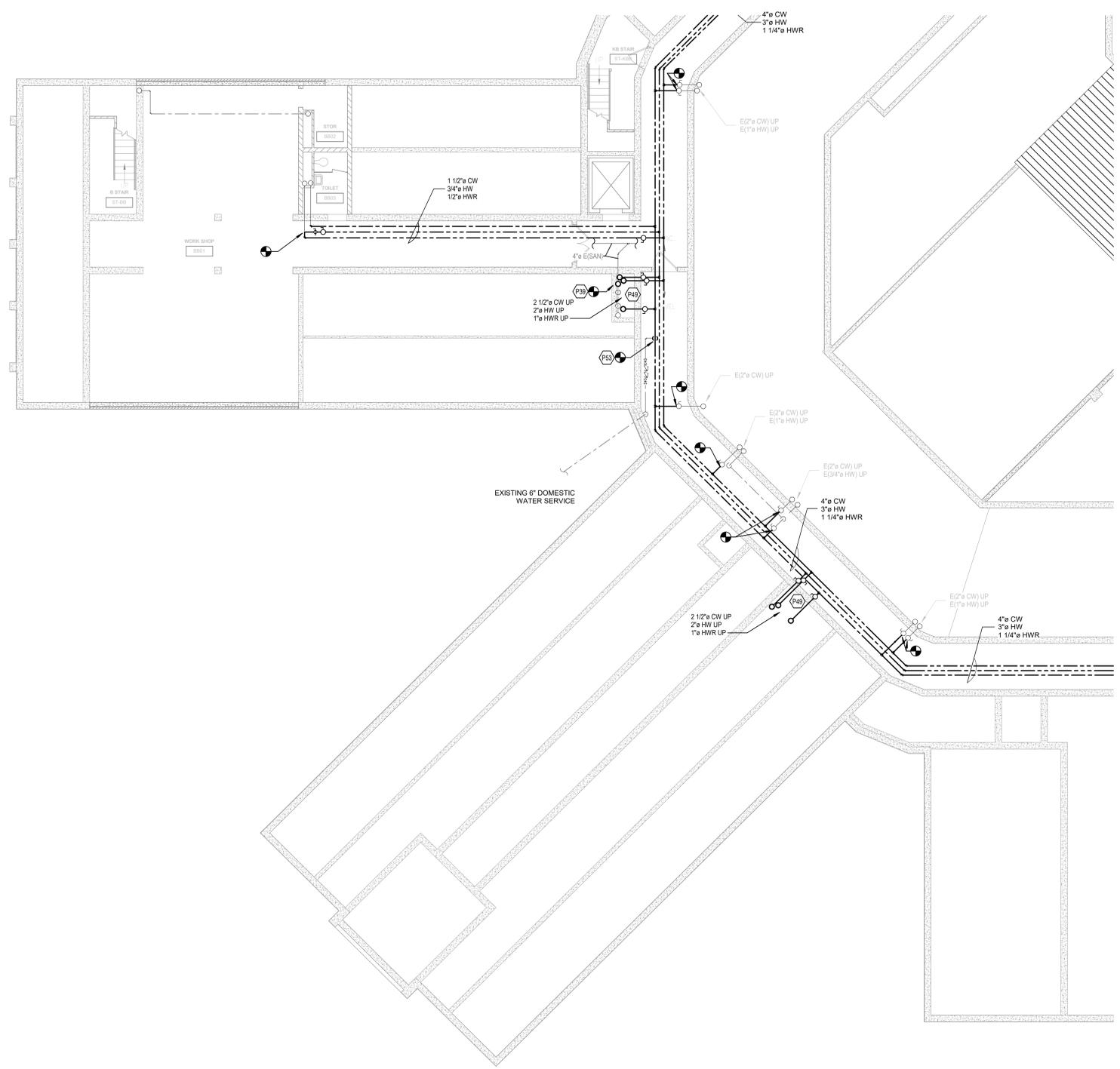
TAGGED NOTES

- P39 PROVIDE NEW FLOOR DRAIN AND PIPING AND CONNECT TO EXISTING SANITARY DRAIN.
- P49 REFER TO RISER DIAGRAM ON SHEET P6.0 FOR TYPICAL RISER DETAILS.
- P53 RECONNECT NEW CW PIPING TO EXISTING 6" DOMESTIC WATER SERVICE.

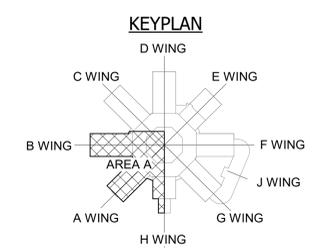
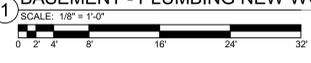
GENERAL NOTES

A. ALL DOMESTIC WATER PIPE SIZES ARE BASED ON COPPER PIPING. FOR AREAS WHERE PEX PIPING IS USED, THE SIZES SHALL BE AS SHOWN BELOW UNLESS OTHERWISE NOTED.

EQUIVALENT PIPE SIZES	
COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"



1 BASEMENT - PLUMBING NEW WORK PLAN - AREA A



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

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BASEMENT PLUMBING PLAN - AREA A

CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

P3.0A

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 02/26/2021 10:51:11 AM
 Jacob S. Lewis
 SLS

TAGGED NOTES

P39 PROVIDE NEW FLOOR DRAIN AND PIPING AND CONNECT TO EXISTING SANITARY DRAIN.
 P49 REFER TO RISER DIAGRAM ON SHEET P6.0 FOR TYPICAL RISER DETAILS.



GENERAL NOTES

A. ALL DOMESTIC WATER PIPE SIZES ARE BASED ON COPPER PIPING. FOR AREAS WHERE PEX PIPING IS USED, THE SIZES SHALL BE AS SHOWN BELOW UNLESS OTHERWISE NOTED.

EQUIVALENT PIPE SIZES	
COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

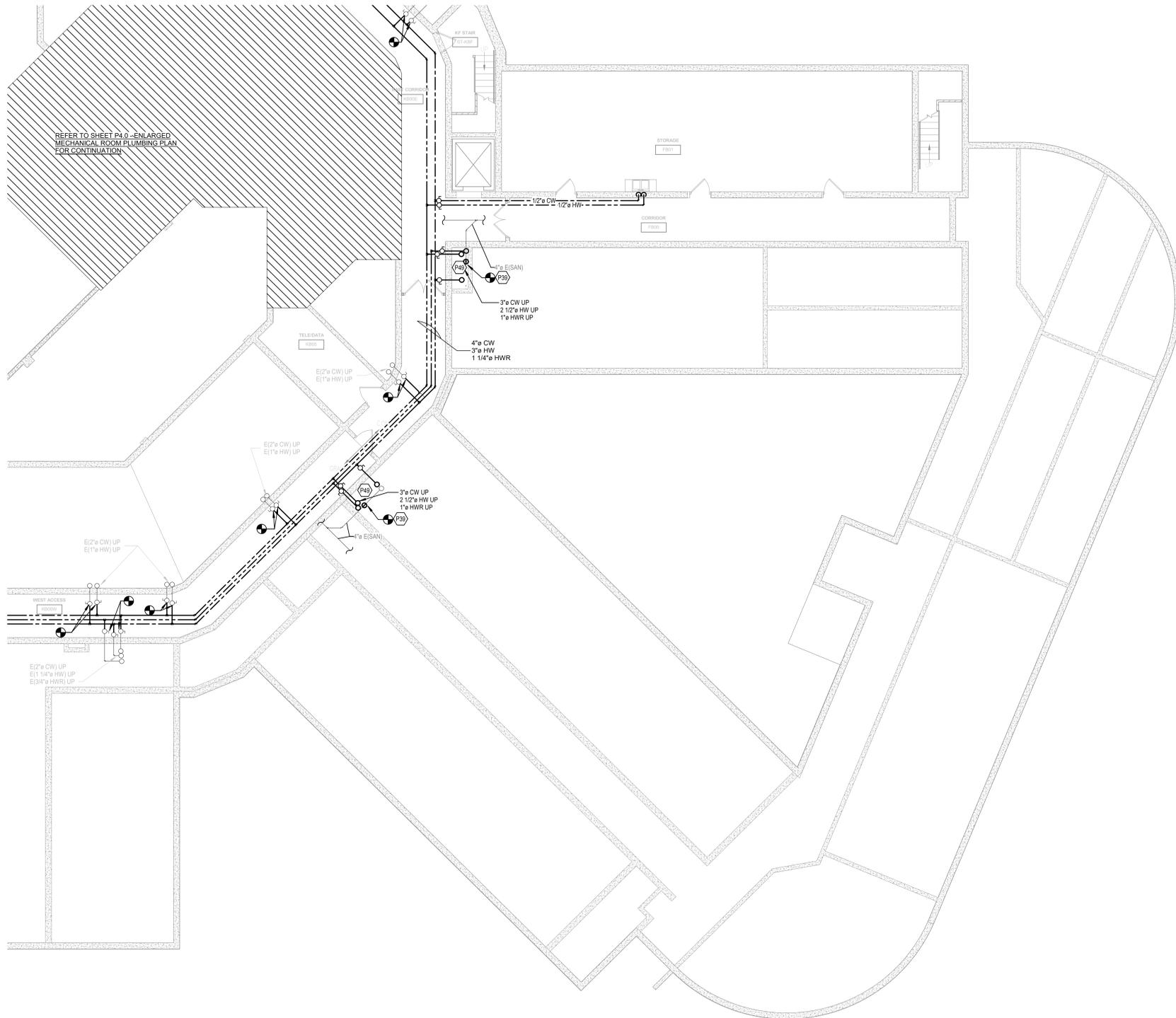
NORTHERN KENTUCKY UNIVERSITY
 3510 Alexandria Pike, Highland Heights, KY 41076

BASEMENT PLUMBING PLAN - AREA C

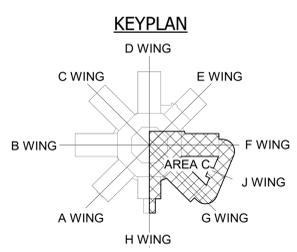
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DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

P3.0C



1 BASEMENT - PLUMBING NEW WORK PLAN - AREA C



PROJECT: C:\Users\cmr\Documents\2020\28020\28020.dwg
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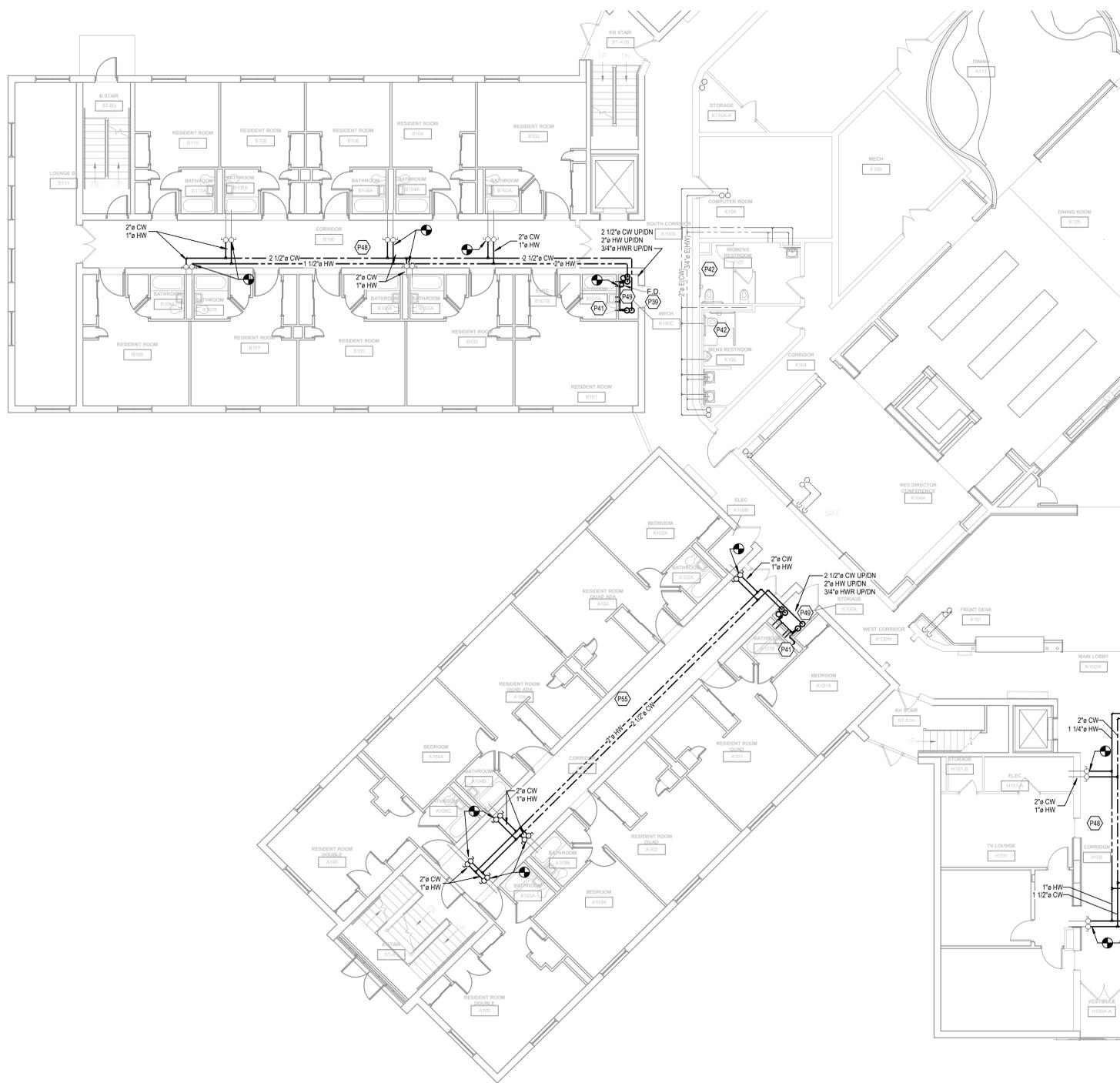
TAGGED NOTES

- P39 PROVIDE NEW FLOOR DRAIN AND PIPING AND CONNECT TO EXISTING SANITARY DRAIN.
- P41 PROVIDE NEW CW/HW TO WATER CLOSET, SHOWER, LAVATORY IN THIS BATHROOM.
- P42 EXISTING PLUMBING TO THIS RESTROOM GROUP TO REMAIN.
- P48 CW/HW PIPING TO BE RECONNECTED AT EXISTING VALVES. PROVIDE NEW INSULATION TO WALL.
- P49 REFER TO RISER DIAGRAM ON SHEET P6.0 FOR TYPICAL RISER DETAILS.
- P55 CW/HW PIPING TO BE RECONNECTED TO EXISTING PIPING SERVING BATHROOM RISERS. PROVIDE NEW VALVES AND NEW INSULATION TO WALL.

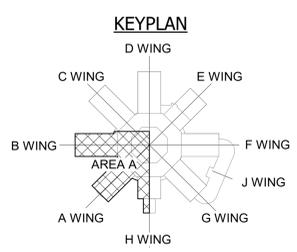
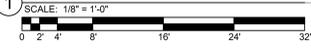
GENERAL NOTES

A. ALL DOMESTIC WATER PIPE SIZES ARE BASED ON COPPER PIPING. FOR AREAS WHERE PEX PIPING IS USED, THE SIZES SHALL BE AS SHOWN BELOW UNLESS OTHERWISE NOTED.

EQUIVALENT PIPE SIZES	
COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"



1 FIRST FLOOR - PLUMBING NEW WORK PLAN - AREA A



CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

P3.1A



TAGGED NOTES

P39 PROVIDE NEW FLOOR DRAIN AND PIPING AND CONNECT TO EXISTING SANITARY DRAIN.
 P41 PROVIDE NEW CW/HW TO WATER CLOSET, SHOWER, LAVATORY IN THIS BATHROOM.
 P48 CW/HW PIPING TO BE RECONNECTED AT EXISTING VALVES. PROVIDE NEW INSULATION TO WALL.
 P49 REFER TO RISER DIAGRAM ON SHEET P6.0 FOR TYPICAL RISER DETAILS.

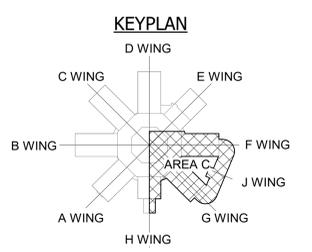
GENERAL NOTES

A. ALL DOMESTIC WATER PIPE SIZES ARE BASED ON COPPER PIPING. FOR AREAS WHERE PEX PIPING IS USED, THE SIZES SHALL BE AS SHOWN BELOW UNLESS OTHERWISE NOTED.

EQUIVALENT PIPE SIZES	
COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"



1 FIRST FLOOR - PLUMBING NEW WORK PLAN - AREA C
 SCALE: 1/8" = 1'-0"



CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

NO.	DESCRIPTION

P3.1C



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

SECOND FLOOR PLUMBING PLAN - AREA B

GENERAL NOTES

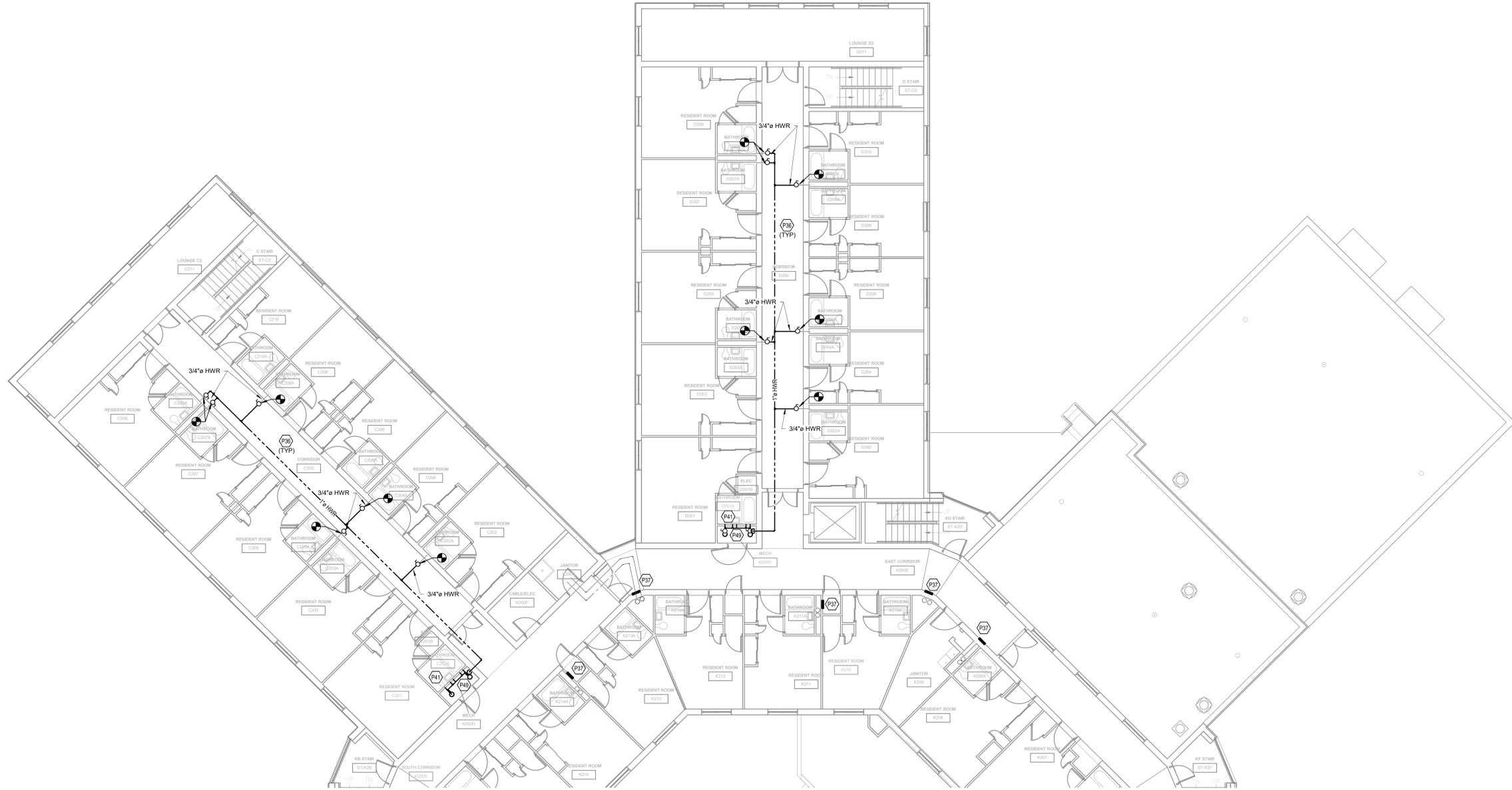
A. ALL DOMESTIC WATER PIPE SIZES ARE BASED ON COPPER PIPING. FOR AREAS WHERE PEX PIPING IS USED, THE SIZES SHALL BE AS SHOWN BELOW UNLESS OTHERWISE NOTED.

EQUIVALENT PIPE SIZES

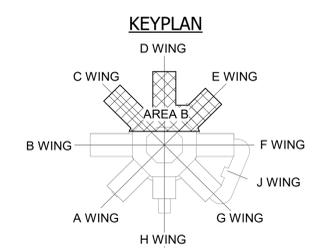
COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"

TAGGED NOTES

- P36 RHW PIPING TO RECONNECT TO EXISTING AT WALL PENETRATION. PROVIDE NEW VALVES AND NEW INSULATION TO WALL.
- P37 INSTALL 16"W X 32"H ACCESS DOOR IN BLOCK WALL. PROVIDE LINTEL AT TOP OF OPENING. CONFIRM HEIGHT WITH ENGINEER PRIOR TO DEMOLITION. ACCESS DOOR SHALL BE HINGED DOOR WITH KEYPED LOCK.
- P41 PROVIDE NEW CW/HW TO WATER CLOSET, SHOWER, LAVATORY IN THIS BATHROOM.
- P49 REFER TO RISER DIAGRAM ON SHEET P6.0 FOR TYPICAL RISER DETAILS.



1 SECOND FLOOR - PLUMBING NEW WORK PLAN - AREA B
SCALE: 1/8" = 1'-0"



CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

P3.2B

PROJECT: C:\Users\jacob\Documents\2020\2020_KAC20
 DATE: 02/26/2021
 DRAWING: P3.2B



TAGGED NOTES

- P37 INSTALL 16"W X 32"H ACCESS DOOR IN BLOCK WALL. PROVIDE LINTEL AT TOP OF OPENING. CONFIRM HEIGHT WITH ENGINEER PRIOR TO DEMOLITION. ACCESS DOOR SHALL BE HINGED DOOR WITH KEYED LOCK.
- P41 PROVIDE NEW CWHW TO WATER CLOSET, SHOWER, LAVATORY IN THIS BATHROOM.
- P49 REFER TO RISER DIAGRAM ON SHEET P6.0 FOR TYPICAL RISER DETAILS.
- P57 PROVIDE A WATER HAMMER ARRESTOR ON EACH COLD WATER RISER.

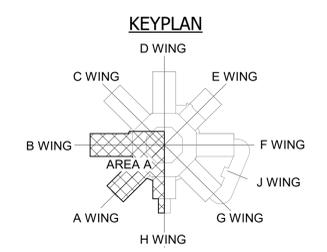
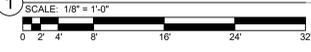
GENERAL NOTES

A. ALL DOMESTIC WATER PIPE SIZES ARE BASED ON COPPER PIPING. FOR AREAS WHERE PEX PIPING IS USED, THE SIZES SHALL BE AS SHOWN BELOW UNLESS OTHERWISE NOTED.

EQUIVALENT PIPE SIZES	
COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"



1 THIRD FLOOR - PLUMBING NEW WORK PLAN - AREA A



CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

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THIRD FLOOR PLUMBING PLAN - AREA B

GENERAL NOTES

A. ALL DOMESTIC WATER PIPE SIZES ARE BASED ON COPPER PIPING. FOR AREAS WHERE PEX PIPING IS USED, THE SIZES SHALL BE AS SHOWN BELOW UNLESS OTHERWISE NOTED.

EQUIVALENT PIPE SIZES

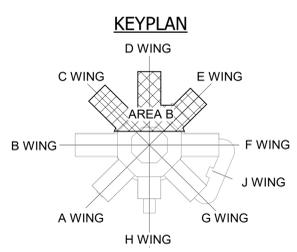
COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"

TAGGED NOTES

- P37 INSTALL 16"W X 32"H ACCESS DOOR IN BLOCK WALL. PROVIDE LINTEL AT TOP OF OPENING. CONFIRM HEIGHT WITH ENGINEER PRIOR TO DEMOLITION. ACCESS DOOR SHALL BE HINGED DOOR WITH KEYED LOCK.
- P41 PROVIDE NEW CWHHW TO WATER CLOSET, SHOWER, LAVATORY IN THIS BATHROOM.
- P49 REFER TO RISER DIAGRAM ON SHEET P6.0 FOR TYPICAL RISER DETAILS.
- P57 PROVIDE A WATER HAMMER ARRESTOR ON EACH COLD WATER RISER.



1 THIRD FLOOR - PLUMBING NEW WORK PLAN - AREA B



CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

P3.3B

PROJECT: C:\Users\sls\Documents\2020\NKU28
 PLOT TITLE: GENERAL PLUMBING PLAN



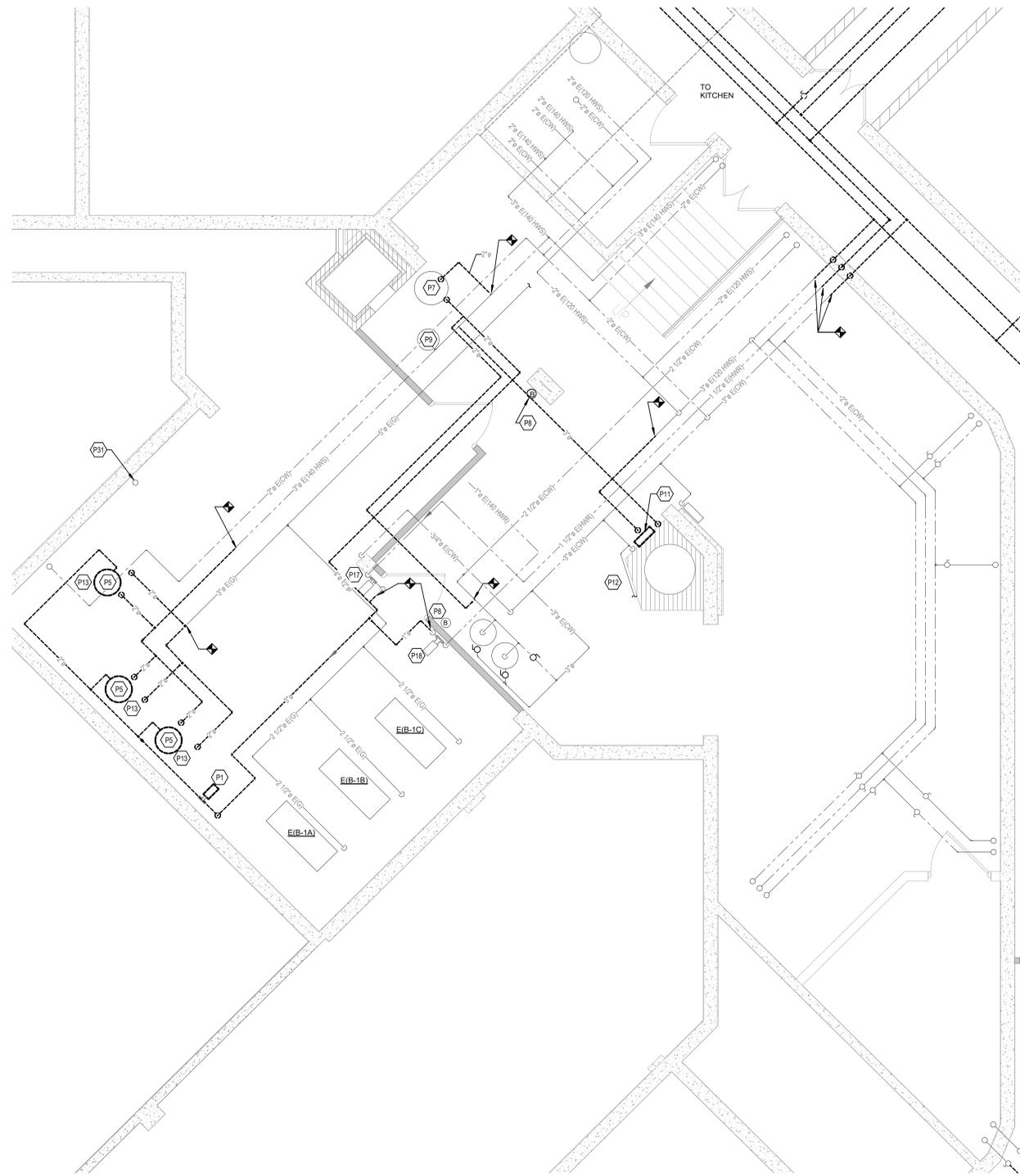
GENERAL NOTES

A. ALL DOMESTIC WATER PIPE SIZES ARE BASED ON COPPER PIPING. FOR AREAS WHERE PEX PIPING IS USED, THE SIZES SHALL BE AS SHOWN BELOW UNLESS OTHERWISE NOTED.

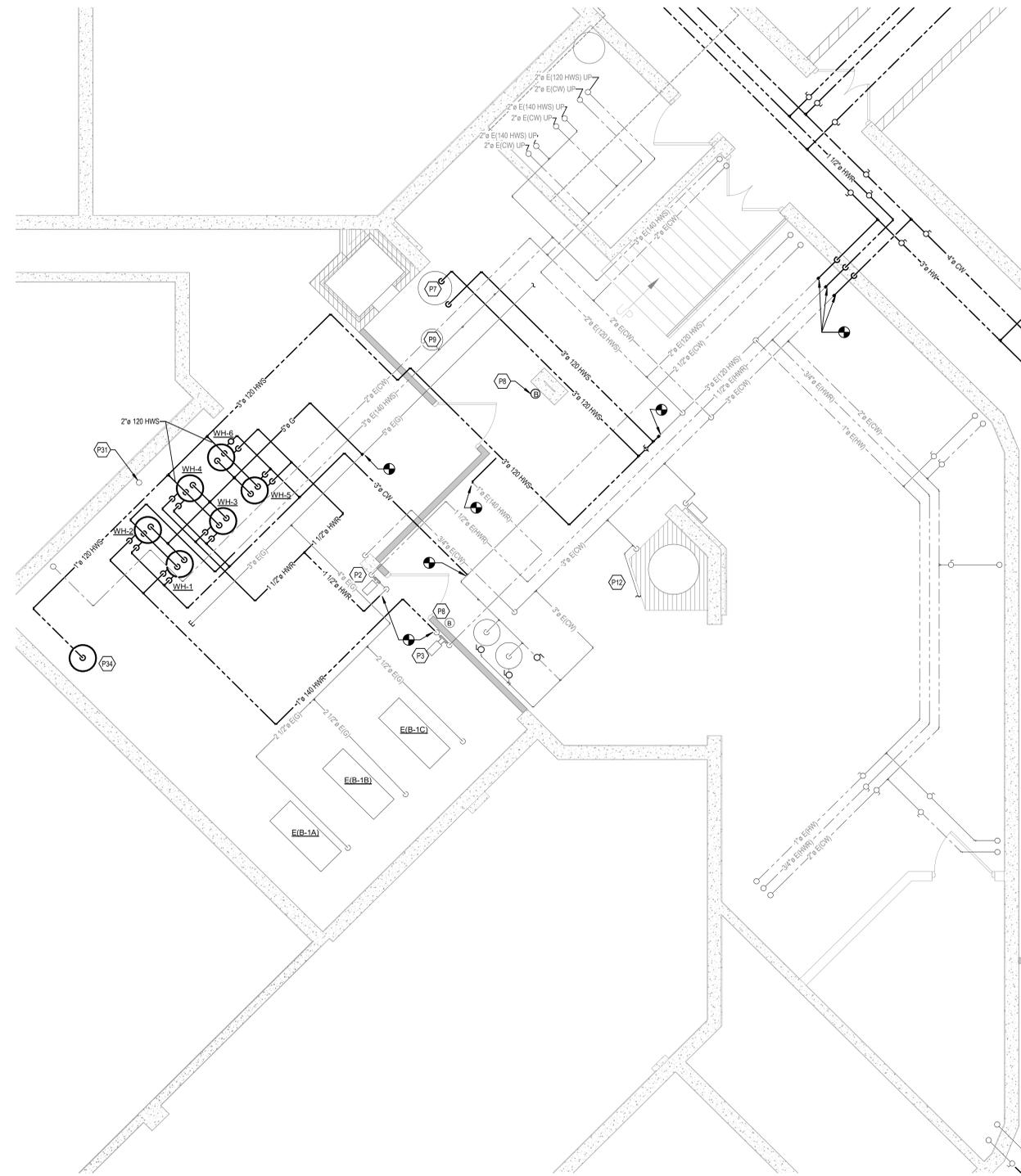
EQUIVALENT PIPE SIZES	
COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"

TAGGED NOTES

- P1 REMOVE EXISTING DP-1, 140 TO TANK RECIRC PUMP 90 GPM, 20' TDH, 1 HP, 208/3.
- P2 DP-2, 120F FROM BUILDING RECIRC PUMP 20 GPM, 35' TDH, 0.4 HP, 120/1.
- P3 DP-3, 140F FROM KITCHEN RECIRC PUMP 5 GPM, 10' TDH, 1/8 HP, 120/1.
- P5 AEROC 180 MBH INPUT HEATER, 120/1, 6 FLA, 8.5'-14" W.C. 2 GPM MIN, 23.4 GPM MAX.
- P7 425 GALLON STORAGE TANK.
- P8 BOILER KILL SWITCH.
- P9 EXPANSION TANK.
- P11 REMOVE BOTH MIXING VALVES.
- P12 HYDRONIC FILL TO REMAIN.
- P13 REMOVE CONCRETE PADS.
- P17 EXISTING 120F RECIRC. PUMP.
- P18 EXISTING 140F RECIRC. PUMP.
- P31 EXISTING PLUMBING VENT TO REMAIN.
- P34 120F DOMESTIC WATER EXPANSION TANK. AMTROL ST-180V, 62 GALLON, 34 GALLON ACCEPTANCE VOLUME, 22" (DIAMETER)x 48" TALL, PLACE ON 4" CONCRETE PAD.



1 ENLARGED MECHANICAL ROOM DEMOLITION PLAN - PLUMBING



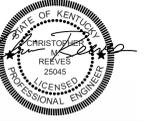
2 ENLARGED MECHANICAL ROOM NEW WORK PLAN - PLUMBING



CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

NO.	DESCRIPTION



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

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3510 Alexandria Pike, Highland Heights, KY 41076

PLUMBING DETAILS

CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

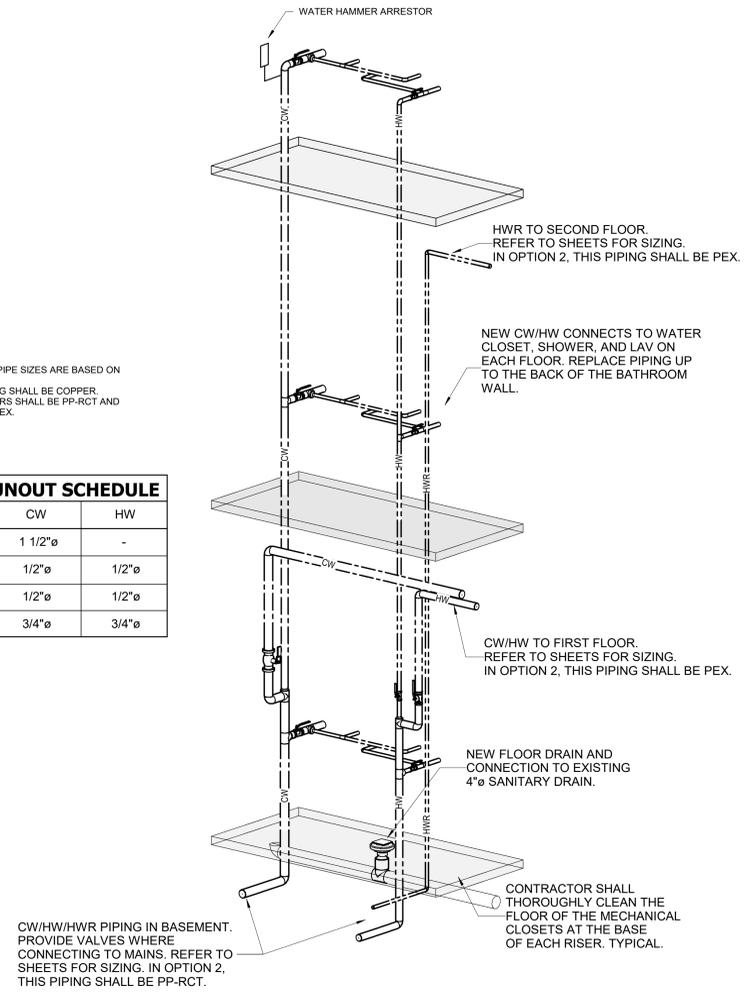
P6.0

NOTE:

- A. ALL DOMESTIC WATER PIPE SIZES ARE BASED ON COPPER PIPING.
- B. IN OPTION #1, ALL PIPING SHALL BE COPPER.
- C. IN OPTION #2, THE RISERS SHALL BE PP-RCT AND BRANCHES SHALL BE PEX.

PLUMBING RUNOUT SCHEDULE

FIXTURE	CW	HW
WATER CLOSET	1 1/2"ø	-
LAVATORY	1/2"ø	1/2"ø
SHOWER	1/2"ø	1/2"ø
MOP SINK	3/4"ø	3/4"ø



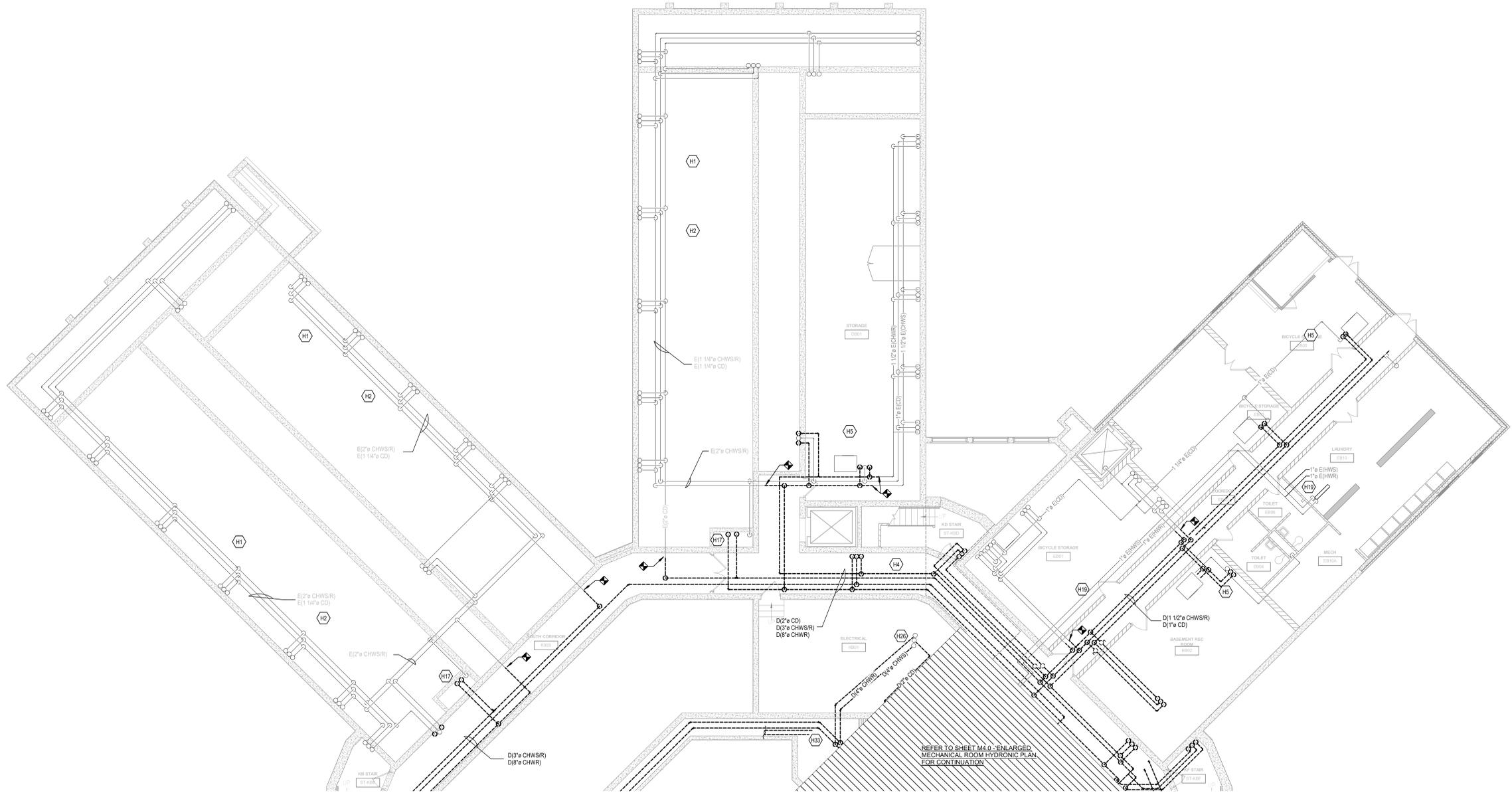
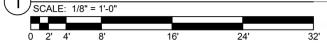
1 TYPICAL DOMESTIC WATER RISER - NEW WORK
SCALE: NONE


GENERAL NOTES

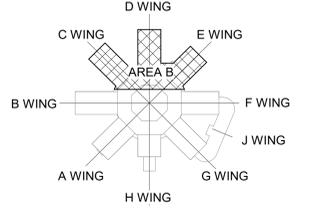
- A REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- B ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- C ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- D PROVIDE A MOCKUP OF EXPOSED PIPE SHROUD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHROUD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHROUD.

TAGGED NOTES

- H1 CHWS/R PIPING LOCATED BENEATH SLAB SHALL BE ABANDONED IN PLACE. PIPING SHALL BE CAPPED AT FAN COIL CONNECTION AND WHERE EXPOSED TO BASEMENT.
- H2 UNDERSLAB CONDENSATE PIPING SHALL BE CLEANED.
- H4 PIPING IN THIS AREA IS ABOVE A LAY-IN CEILING THAT SHALL BE DEMOLISHED.
- H5 WHERE ACCESSIBLE, CHWS/R PIPING IN THIS AREA SHALL BE DEMOLISHED. WHERE CHWS/R PIPING PENETRATES WALLS, IT SHALL BE CAPPED AT FAN COIL CONNECTIONS AND ABANDONED IN PLACE. CONDENSATE PIPING TO REMAIN AND SHALL BE CLEANED.
- H17 CHWS/R RISERS TO BE DEMOLISHED. CONDENSATE TO REMAIN UNLESS OTHERWISE NOTED.
- H19 EXISTING HEATING WATER PIPING TO LAUNDRY ROOM SHALL REMAIN.
- H26 DEMOLISH EXISTING PIPING TO RISERS. RISERS FROM BASEMENT TO FIRST FLOOR BRANCHES TO REMAIN. DEMOLISH RISERS ABOVE AND INCLUDING FIRST FLOOR BRANCH TEES. CONDENSATE TO REMAIN AND SHALL BE CLEANED. PIPING IS LOCATED IN CHASE. REMOVE PANELING TO ACCESS AND REINSTALL ONCE PIPING IS COMPLETE.
- H33 SUPPLY RETURN AND ABANDONED PIPING IN TUNNEL TO BE DEMOLISHED.


1 BASEMENT - HYDRONIC DEMOLITION PLAN - AREA B


REFER TO SHEET M2.0 - ENLARGED MECHANICAL ROOM HYDRONIC PLAN FOR CONTINUATION

KEYPLAN


CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS	

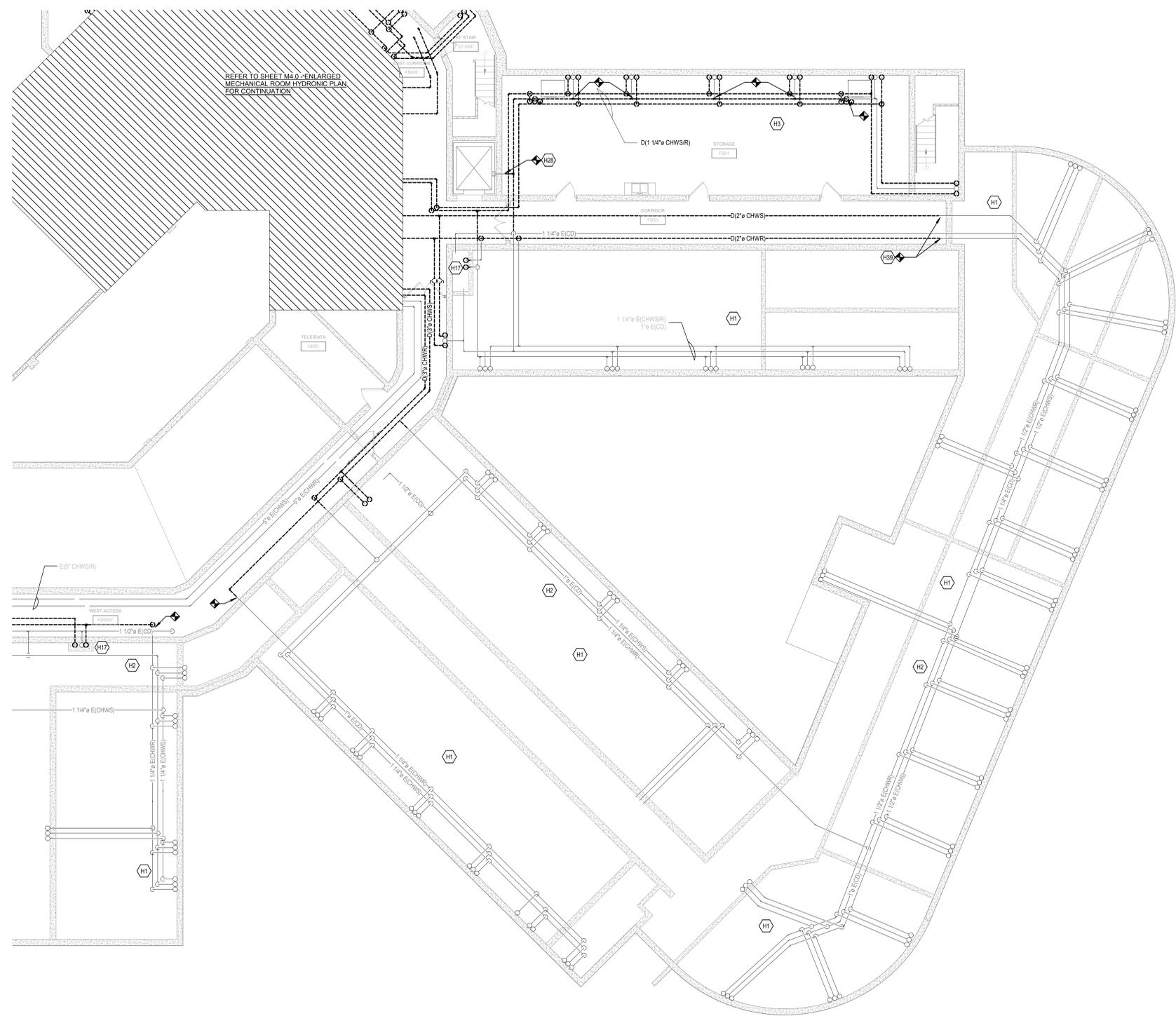
M2.0B

GENERAL NOTES

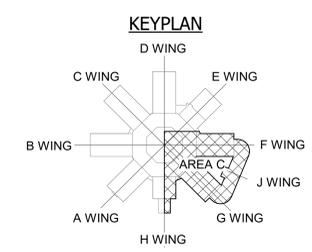
- A REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- B ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- C ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- D PROVIDE A MOCKUP OF EXPOSED PIPE SHROUD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHROUD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHROUD.

TAGGED NOTES

- H1 CHWS/R PIPING LOCATED BENEATH SLAB SHALL BE ABANDONED IN PLACE. PIPING SHALL BE CAPPED AT FAN COIL CONNECTION AND WHERE EXPOSED TO BASEMENT.
- H2 UNDERSLAB CONDENSATE PIPING SHALL BE CLEANED.
- H3 PIPING IN THIS AREA IS LOCATED ABOVE AN EXISTING HARD CEILING. THE CEILING SHALL BE DEMOLISHED.
- H17 CHWS/R RISERS TO BE DEMOLISHED. CONDENSATE TO REMAIN UNLESS OTHERWISE NOTED.
- H28 CONDENSATE PIPING SHALL BE DEMOLISHED UP TO WALL. EXISTING PIPING SHALL BE CLEANED.
- H39 PIPING TRANSITIONS TO UNDERSLAB AT THIS LOCATION. CAP PIPING AT WALL.



1 BASEMENT - HYDRONIC DEMOLITION PLAN - AREA C
 SCALE: 1/8" = 1'-0"
 0 2' 4' 8' 16' 24' 32'



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

NORTHERN KENTUCKY UNIVERSITY
 3510 Alexandria Pike, Highland Heights, KY 41076

BASEMENT HYDRONIC DEMOLITION PLAN - AREA C

CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

M2.0C

PROJECT: Callahan Residence Hall Renovation/2020 M2.0C
 DATE: 02/26/2021
 DRAWN BY: SLS

GENERAL NOTES

- A REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- B ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- C ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- D PROVIDE A MOCKUP OF EXPOSED PIPE SHROUD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHROUD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHROUD.

TAGGED NOTES

- H12 PIPING LOCATED ABOVE FIRST FLOOR CEILING SERVING FAN COILS ON THE SECOND FLOOR. SUPPLY AND RETURN PIPING SHALL BE ABANDONED IN PLACE. CONDENSATE TO REMAIN AND SHALL BE CLEANED.
- H18 PIPING LOCATED ABOVE FIRST FLOOR CEILING SERVING FAN COILS ON THE SECOND FLOOR. PIPE SHALL BE DEMOLISHED UP TO FLOOR SLAB PENETRATION. PIPING INTO THE UNIT SHALL REMAIN.
- H21 CHWS/R AND CONDENSATE RISERS TO BE DEMOLISHED.

#



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

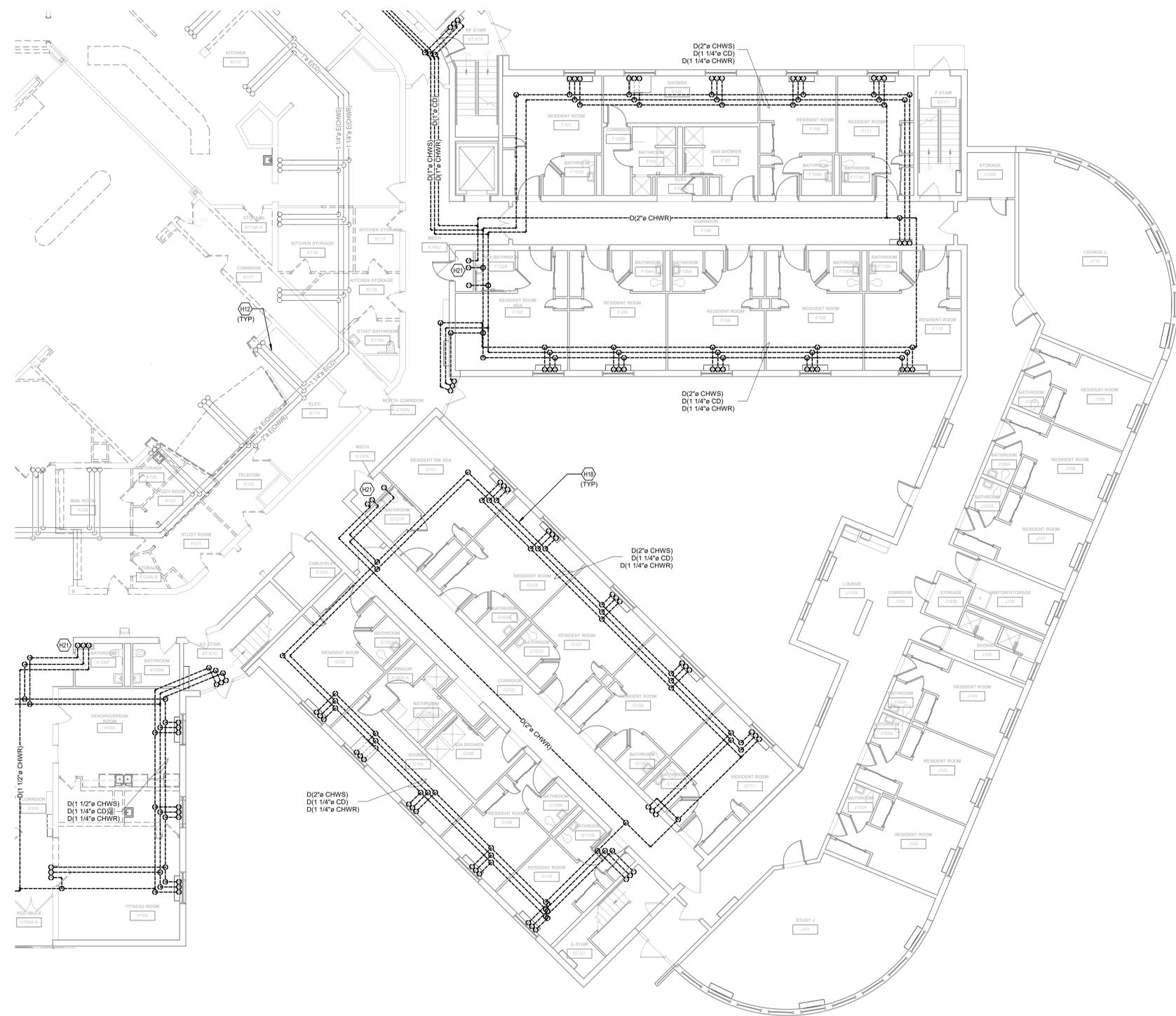
NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

FIRST FLOOR HYDRONIC DEMOLITION PLAN - AREA C

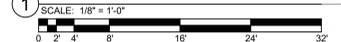
CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

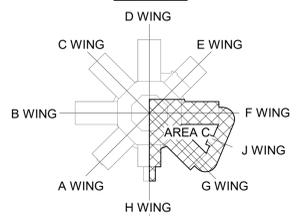
M2.1C



1 FIRST FLOOR - HYDRONIC DEMOLITION PLAN - AREA C



KEYPLAN



PROJECT: C:\Users\cmr\Documents\2020\28020\28020.dwg
 DATE: 02/26/2021 10:51 AM
 DRAWN BY: SLS
 CHECKED BY: CMR

GENERAL NOTES

- A REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- B ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- C ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- D PROVIDE A WOODKUP OF EXPOSED PIPE SHROUD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHROUD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHROUD.

TAGGED NOTES

- H20 PIPING LOCATED ABOVE SECOND FLOOR CEILING SERVING FAN COILS ON THE THIRD FLOOR. PIPE SHALL BE DEMOLISHED UP TO FLOOR SLAB PENETRATION. PIPING INTO THE UNIT SHALL REMAIN.
- H21 CHWS/R AND CONDENSATE RISERS TO BE DEMOLISHED.

#



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

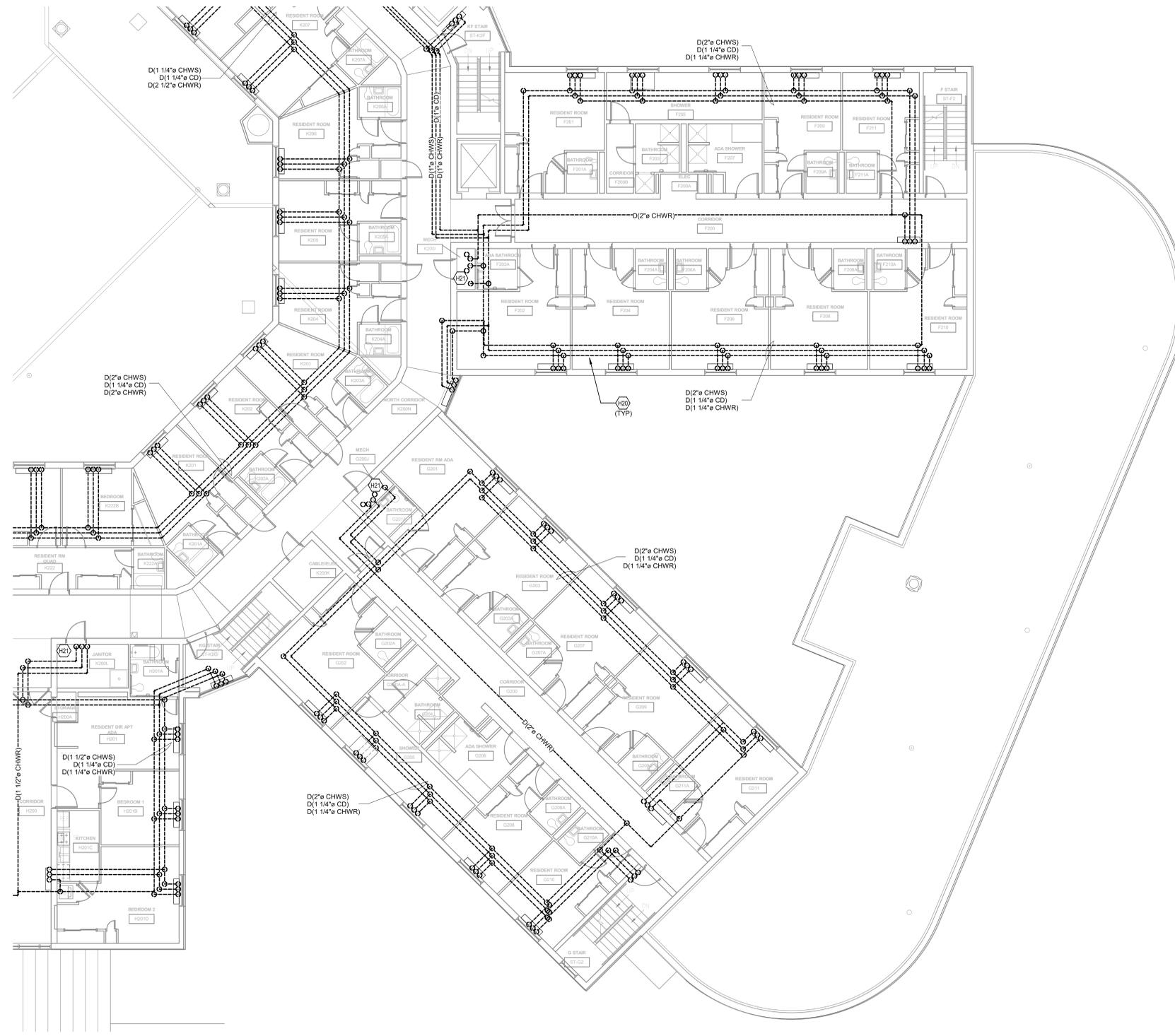
NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

SECOND FLOOR HYDRONIC DEMOLITION PLAN - AREA C

CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

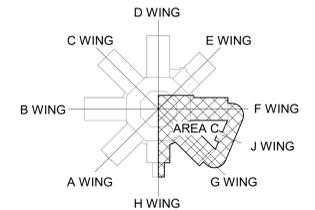
M2.2C



1 SECOND FLOOR - HYDRONIC DEMOLITION PLAN - AREA C



KEYPLAN



PROJECT: Callahan Residence Hall Renovation/2020 MK200
 DATE: 02/26/2021
 SHEET: M2.2C

GENERAL NOTES

- A REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- B ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- C ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- D PROVIDE A MOCKUP OF EXPOSED PIPE SHROUD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHROUD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHROUD.

TAGGED NOTES

H21 CHWS/R AND CONDENSATE RISERS TO BE DEMOLISHED.



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

THIRD FLOOR HYDRONIC DEMOLITION PLAN - AREA A

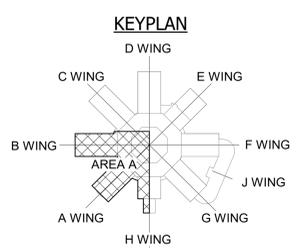
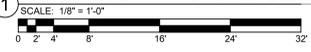
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DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

M2.3A



1 THIRD FLOOR - HYDRONIC DEMOLITION PLAN - AREA A



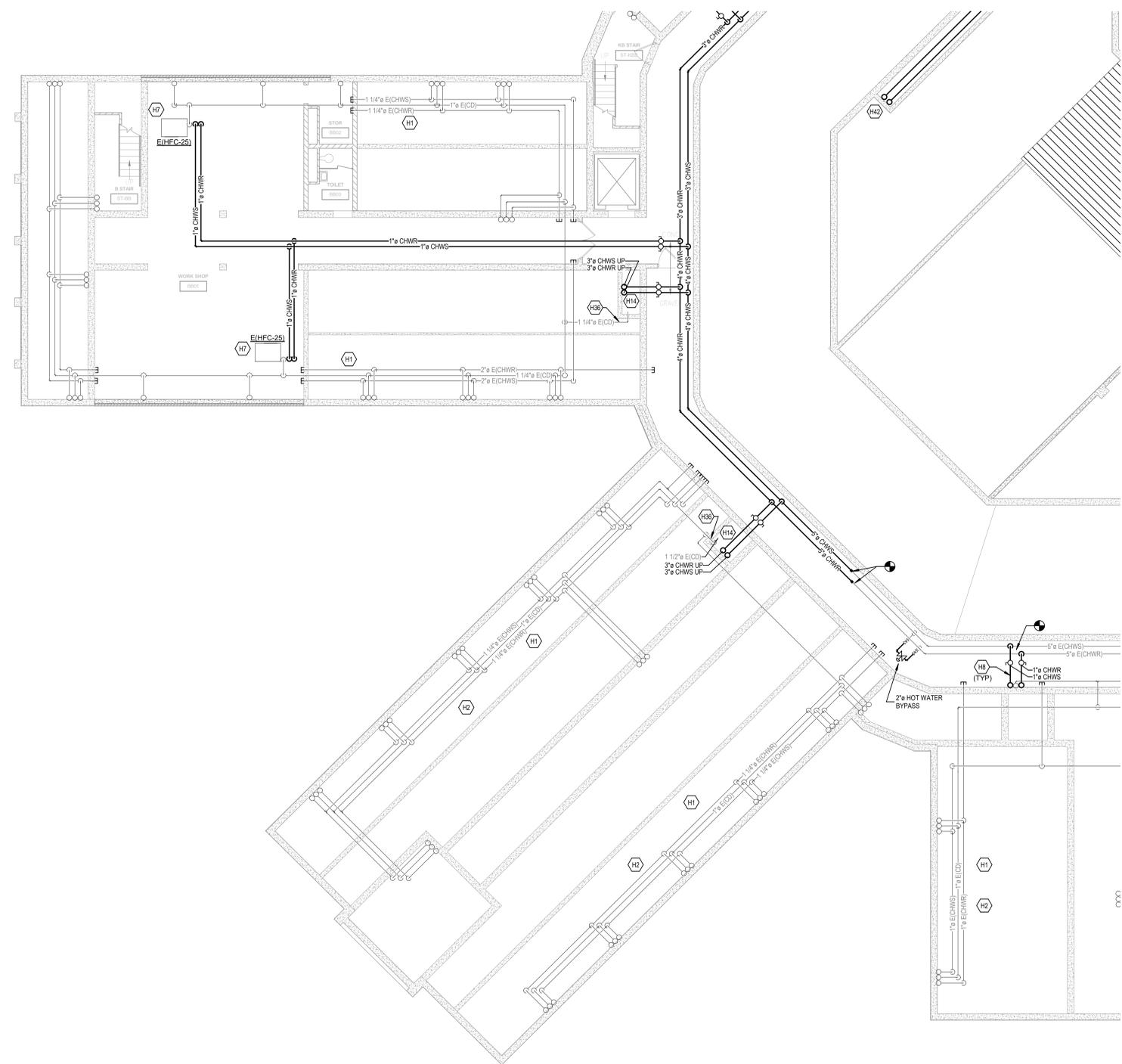
PROJECT: C:\Users\jamesr\Documents\2020\28\28020
 DATE: 02/26/2021
 DRAWN BY: SLS

GENERAL NOTES

- A REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- B ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- C ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- D PROVIDE A MOCKUP OF EXPOSED PIPE SHROUD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHROUD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHROUD.

TAGGED NOTES

- H1 CHWS/R PIPING LOCATED BENEATH SLAB SHALL BE ABANDONED IN PLACE. PIPING SHALL BE CAPPED AT FAN COIL CONNECTION AND WHERE EXPOSED TO BASEMENT.
- H2 UNDERSLAB CONDENSATE PIPING SHALL BE CLEANED.
- H7 RECONNECT NEW CHWS/R TO UNIT. EXISTING CONDENSATE TO REMAIN AND SHALL BE CLEANED.
- H8 NEW CHWS/R PIPING UP TO FIRST FLOOR UNIT. EXISTING CONDENSATE PIPE TO REMAIN AND SHALL BE CLEANED.
- H14 REFER TO RISER DIAGRAM ON SHEET M7.0 FOR TYPICAL RISER DETAILS.
- H36 EXISTING CONDENSATE SERVING FIRST FLOOR UNITS TO REMAIN AND SHALL BE CLEANED. PIPING IS ROUTED UNDERSLAB AND SPILLS INTO FIRST FLOOR MECHANICAL CLOSET.
- H42 PIPING TO EXISTING AHJ. RECONNECT AT FIRST FLOOR SLAB PENETRATION.



EQUIVALENT PIPE SIZES

COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"

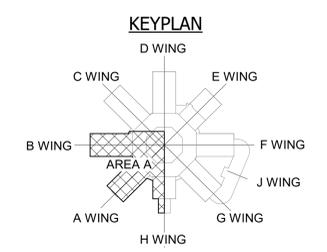
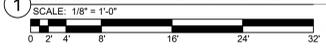
- NOTES:
- UNLESS OTHERWISE NOTED.
 - ALL PIPE SIZES LISTED ON THE PLANS ARE BASED ON COPPER PIPING. USE THIS CHART TO DETERMINE THE REQUIRED SIZE FOR PEX PIPING.
 - 1" PEX IS ACCEPTABLE FOR TWO FAN COILS.

FAN COIL RUNOUT SCHEDULE

MARK	SUPPLY/RETURN PIPE SIZE	CONDENSATE PIPE SIZE
E(FC-12)	3/4"	3/4"
E(FC-20)	3/4"	3/4"
E(FC-25)	3/4"	3/4"
E(FC-30)	3/4"	3/4"
E(FC-40)	3/4"	3/4"
E(HFC-20)	3/4"	3/4"
E(HFC-25)	3/4"	3/4"
E(HFC-30)	3/4"	3/4"

- NOTES:
- RUNOUT PIPE SIZES TO INDIVIDUAL UNITS SHALL BE THE SAME SIZE WHETHER COPPER OR PEX.

1 BASEMENT - HYDRONIC NEW WORK PLAN - AREA A



2429 Members Way
Lexington, KY 40504
T: 859.253.0892 F: 859.231.8357

Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

BASEMENT HYDRONIC PLAN - AREA A

CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

NO.	DESCRIPTION

M3.0A

EQUIVALENT PIPE SIZES	
COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"

- NOTES:
- UNLESS OTHERWISE NOTED.
 - ALL PIPE SIZES LISTED ON THE PLANS ARE BASED ON COPPER PIPING. USE THIS CHART TO DETERMINE THE REQUIRED SIZE FOR PEX PIPING.
 - 1" PEX IS ACCEPTABLE FOR TWO FAN COILS.

FAN COIL RUNOUT SCHEDULE		
MARK	SUPPLY/RETURN PIPE SIZE	CONDENSATE PIPE SIZE
E(FC-12)	3/4"	3/4"
E(FC-20)	3/4"	3/4"
E(FC-25)	3/4"	3/4"
E(FC-30)	3/4"	3/4"
E(FC-40)	3/4"	3/4"
E(HFC-20)	3/4"	3/4"
E(HFC-25)	3/4"	3/4"
E(HFC-30)	3/4"	3/4"

- NOTES:
- RUNOUT PIPE SIZES TO INDIVIDUAL UNITS SHALL BE THE SAME SIZE WHETHER COPPER OR PEX.

GENERAL NOTES

- REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- PROVIDE A MOCKUP OF EXPOSED PIPE SHROUD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHROUD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHROUD.

TAGGED NOTES

- CHWS/R PIPING LOCATED BENEATH SLAB SHALL BE ABANDONED IN PLACE. PIPING SHALL BE CAPPED AT FAN COIL CONNECTION AND WHERE EXPOSED TO BASEMENT.
- UNDERSLAB CONDENSATE PIPING SHALL BE CLEANED.
- WHERE ACCESSIBLE, CHWS/R PIPING IN THIS AREA SHALL BE DEMOLISHED. WHERE CHWS/R PIPING PENETRATES WALLS, IT SHALL BE CAPPED AT FAN COIL CONNECTIONS AND ABANDONED IN PLACE. CONDENSATE PIPING TO REMAIN AND SHALL BE CLEANED.
- RECONNECT NEW CHWS/R TO UNIT. EXISTING CONDENSATE TO REMAIN AND SHALL BE CLEANED.
- NEW CHWS/R PIPING UP TO FIRST FLOOR UNIT. EXISTING CONDENSATE PIPE TO REMAIN AND SHALL BE CLEANED.
- PIPING TO RECONNECT TO EXISTING PIPING AT SLAB PENETRATION. INSULATION SHALL BE SEALED AIRTIGHT AT THE CONNECTION.
- REFER TO RISER DIAGRAM ON SHEET M7.0 FOR TYPICAL RISER DETAILS.
- RECONNECT NEW CHWS/R AND CONDENSATE TO HORIZONTAL UNIT LOCATED 10' A.F.F. AND TO EXISTING PIPING AT SLAB PENETRATION. INSULATION SHALL BE SEALED AIRTIGHT AT THE CONNECTION.
- EXISTING CONDENSATE SERVING FIRST FLOOR UNITS TO REMAIN AND SHALL BE CLEANED. PIPING IS ROUTED UNDERSLAB AND SPILLS INTO FIRST FLOOR MECHANICAL CLOSET.
- AVOID ROUTING PIPING OVER ELECTRICAL GEAR. WHERE NECESSARY TO BE ABOVE THE GEAR, PROVIDE A SHEET METAL PAN BENEATH THE PIPING AND DRAIN BACK INTO THE MECHANICAL ROOM.



Construction Documents

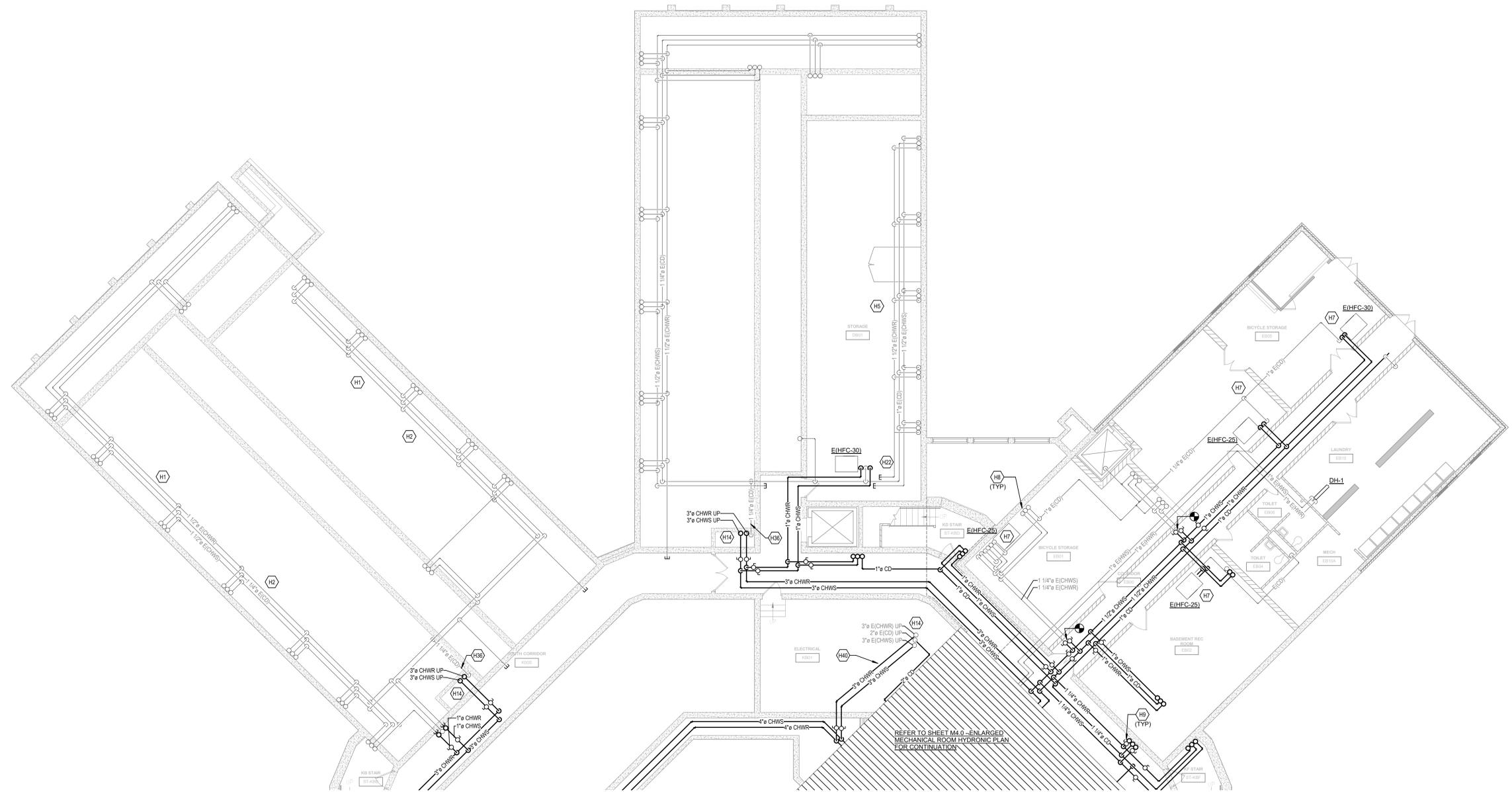


CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT
 NORTHERN KENTUCKY UNIVERSITY
 3510 Alexandria Pike, Highland Heights, KY 41076
 BASEMENT HYDRONIC PLAN - AREA B

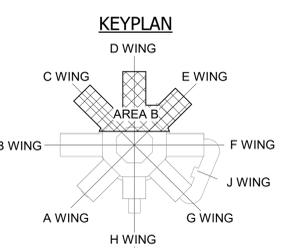
CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

M3.0B



1 BASEMENT - HYDRONIC NEW WORK PLAN - AREA B
 SCALE: 1/8" = 1'-0"



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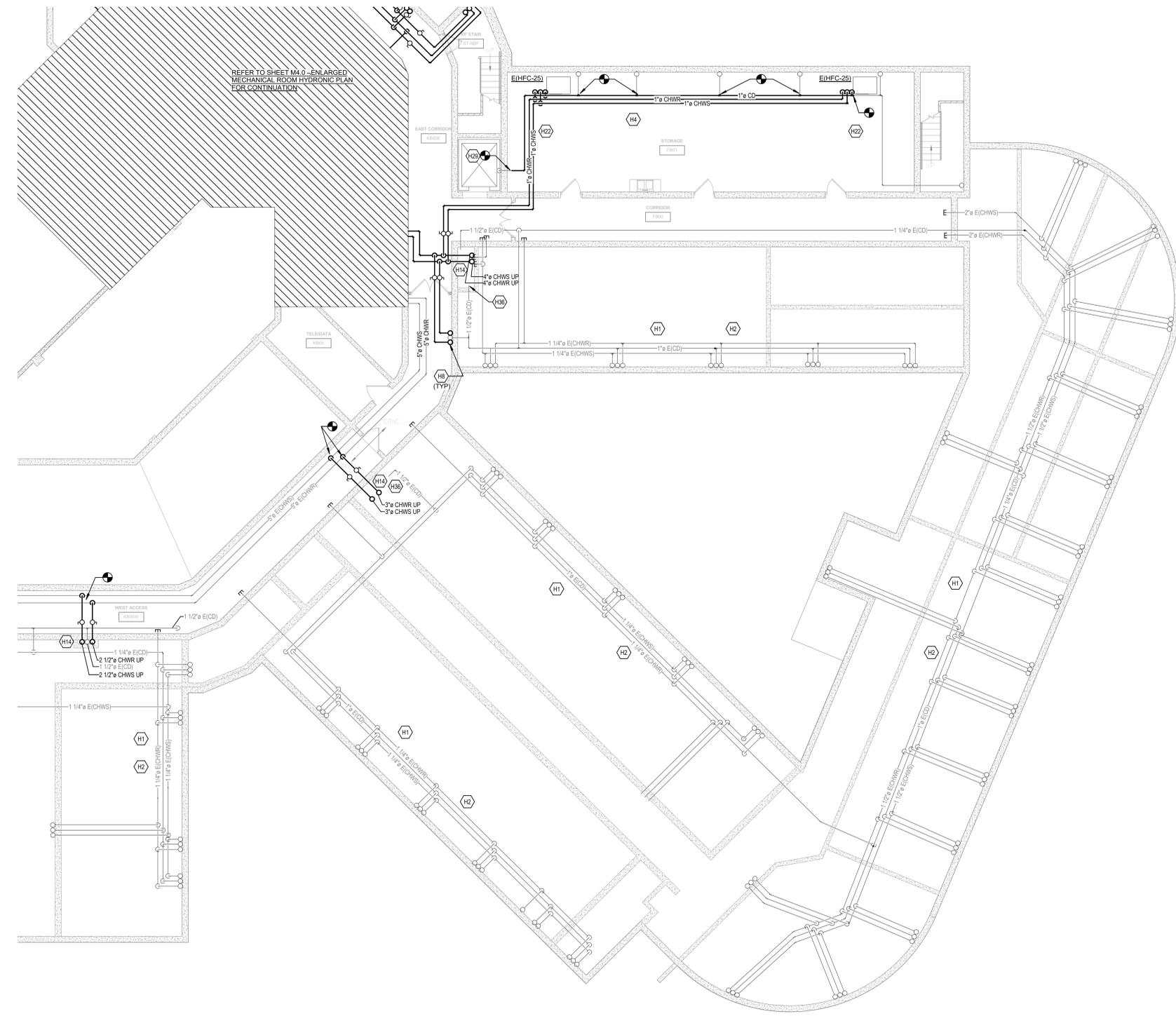


GENERAL NOTES

- A REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- B ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- C ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- D PROVIDE A MOCKUP OF EXPOSED PIPE SHROUD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHROUD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHROUD.

TAGGED NOTES

- H1 CHWS/R PIPING LOCATED BENEATH SLAB SHALL BE ABANDONED IN PLACE. PIPING SHALL BE CAPPED AT FAN COIL CONNECTION AND WHERE EXPOSED TO BASEMENT.
- H2 UNDERSLAB CONDENSATE PIPING SHALL BE CLEANED.
- H4 PIPING IN THIS AREA IS ABOVE A LAY-IN CEILING THAT SHALL BE DEMOLISHED.
- H8 NEW CHWS/R PIPING UP TO FIRST FLOOR UNIT. EXISTING CONDENSATE PIPE TO REMAIN AND SHALL BE CLEANED.
- H14 REFER TO RISER DIAGRAM ON SHEET M7.0 FOR TYPICAL RISER DETAILS.
- H22 RECONNECT NEW CHWS/R AND CONDENSATE TO HORIZONTAL UNIT LOCATED 10' A.F.F. AND TO EXISTING PIPING AT SLAB PENETRATION. INSULATION SHALL BE SEALED AIRTIGHT AT THE CONNECTION.
- H29 RECONNECT TO EXISTING CONDENSATE PIPING.
- H36 EXISTING CONDENSATE SERVING FIRST FLOOR UNITS TO REMAIN AND SHALL BE CLEANED. PIPING IS ROUTED UNDERSLAB AND SPILLS INTO FIRST FLOOR MECHANICAL CLOSET.



EQUIVALENT PIPE SIZES

COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"

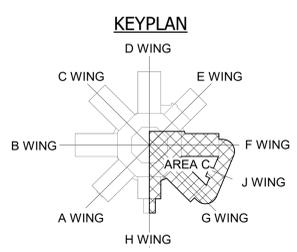
- NOTES:**
- UNLESS OTHERWISE NOTED.
 - ALL PIPE SIZES LISTED ON THE PLANS ARE BASED ON COPPER PIPING. USE THIS CHART TO DETERMINE THE REQUIRED SIZE FOR PEX PIPING.
 - 1" PEX IS ACCEPTABLE FOR TWO FAN COILS.

FAN COIL RUNOUT SCHEDULE

MARK	SUPPLY/RETURN PIPE SIZE	CONDENSATE PIPE SIZE
E(FC-12)	3/4"	3/4"
E(FC-20)	3/4"	3/4"
E(FC-25)	3/4"	3/4"
E(FC-30)	3/4"	3/4"
E(FC-40)	3/4"	3/4"
E(HFC-20)	3/4"	3/4"
E(HFC-25)	3/4"	3/4"
E(HFC-30)	3/4"	3/4"

- NOTES:**
- RUNOUT PIPE SIZES TO INDIVIDUAL UNITS SHALL BE THE SAME SIZE WHETHER COPPER OR PEX.

1 BASEMENT - HYDRONIC NEW WORK PLAN - AREA C
 SCALE: 1/8" = 1'-0"



CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

M3.0C

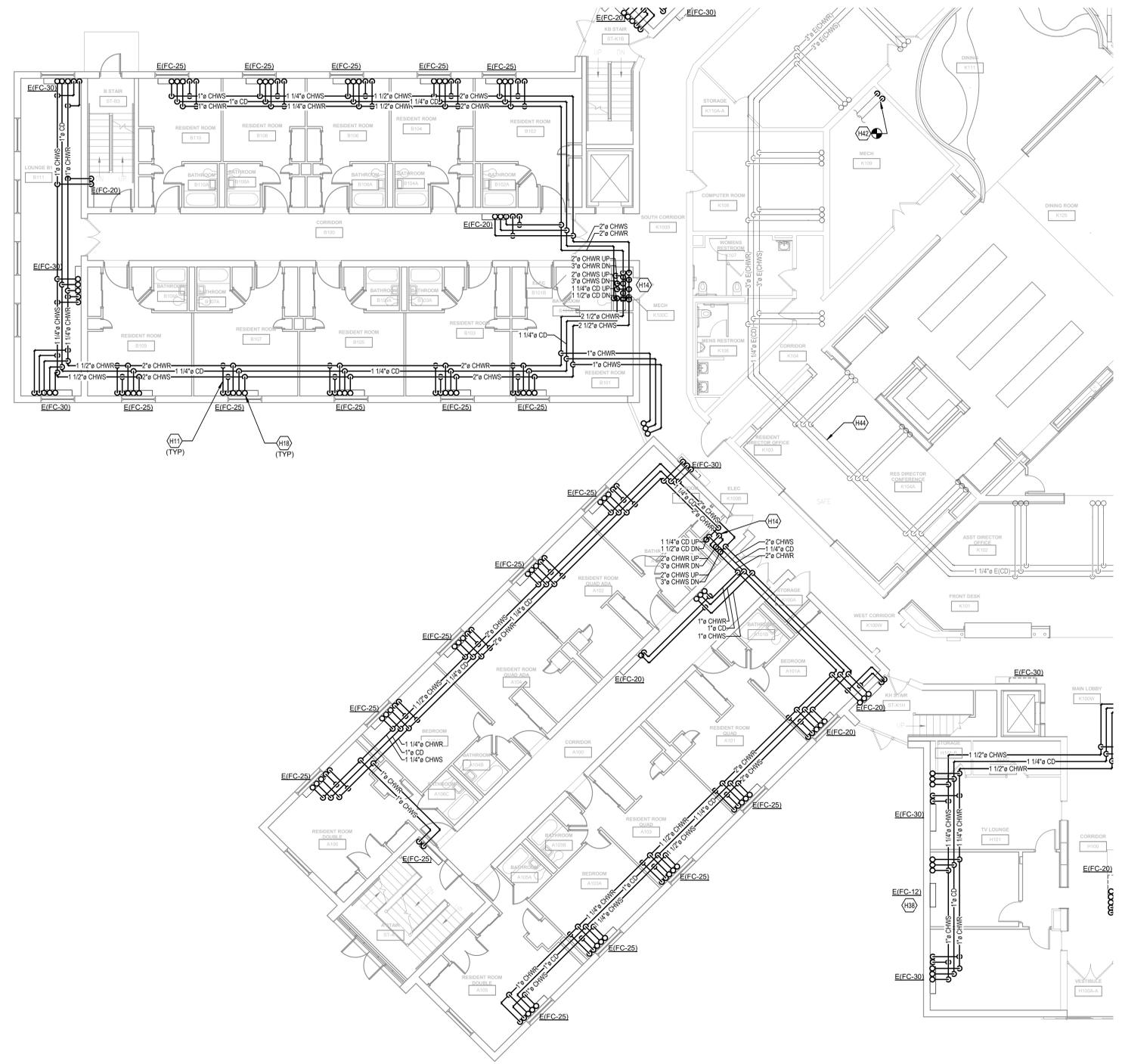


GENERAL NOTES

- A REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- B ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- C ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- D PROVIDE A MOCKUP OF EXPOSED PIPE SHOULD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHOULD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHOULD.

TAGGED NOTES

- H11 SUPPLY AND RETURN PIPING DOWN TO FIRST FLOOR FLOOR MOUNTED UNIT. THIS OCCURS AT ALL FIRST FLOOR UNITS UNLESS OTHERWISE NOTED. PIPING SHALL BE CONCEALED WITH PAINTABLE BRAKE METAL PIPE SHOULD. COLOR SELECTION BY OWNER/ARCHITECT.
- H14 REFER TO RISER DIAGRAM ON SHEET M7.0 FOR TYPICAL RISER DETAILS.
- H18 PIPING LOCATED ABOVE FIRST FLOOR CEILING SERVING FAN COILS ON THE SECOND FLOOR. PIPE SHALL BE DEMOLISHED UP TO FLOOR SLAB PENETRATION. PIPING INTO THE UNIT SHALL REMAIN.
- H38 EXISTING FCU-12 UNIT. REFRIGERATION PIPING TO UNIT, AND CONDENSATE TO REMAIN.
- H42 PIPING TO EXISTING AHU. RECONNECT AT FIRST FLOOR SLAB PENETRATION.
- H44 PIPING ABANDONED IN PLACE.



EQUIVALENT PIPE SIZES

COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"

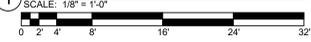
- NOTES:
 1. UNLESS OTHERWISE NOTED.
 2. ALL PIPE SIZES LISTED ON THE PLANS ARE BASED ON ON COPPER PIPING. USE THIS CHART TO DETERMINE THE REQUIRED SIZE FOR PEX PIPING.
 3. 1" PEX IS ACCEPTABLE FOR TWO FAN COILS.

FAN COIL RUNOUT SCHEDULE

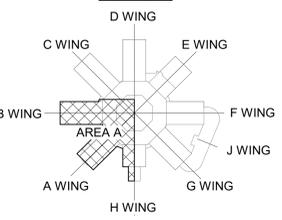
MARK	SUPPLY/RETURN PIPE SIZE	CONDENSATE PIPE SIZE
E(FC-12)	3/4"	3/4"
E(FC-20)	3/4"	3/4"
E(FC-25)	3/4"	3/4"
E(FC-30)	3/4"	3/4"
E(FC-40)	3/4"	3/4"
E(HFC-20)	3/4"	3/4"
E(HFC-25)	3/4"	3/4"
E(HFC-30)	3/4"	3/4"

- NOTES:
 1. RUNOUT PIPE SIZES TO INDIVIDUAL UNITS SHALL BE THE SAME SIZE WHETHER COPPER OR PEX.

1 FIRST FLOOR - HYDRONIC NEW WORK PLAN - AREA A



KEYPLAN



EQUIVALENT PIPE SIZES	
COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"

- NOTES:
- UNLESS OTHERWISE NOTED.
 - ALL PIPE SIZES LISTED ON THE PLANS ARE BASED ON COPPER PIPING. USE THIS CHART TO DETERMINE THE REQUIRED SIZE FOR PEX PIPING.
 - 1" PEX IS ACCEPTABLE FOR TWO FAN COILS.

FAN COIL RUNOUT SCHEDULE		
MARK	SUPPLY/RETURN PIPE SIZE	CONDENSATE PIPE SIZE
E/FC-12	3/4"	3/4"
E/FC-20	3/4"	3/4"
E/FC-25	3/4"	3/4"
E/FC-30	3/4"	3/4"
E/FC-40	3/4"	3/4"
E/HFC-20	3/4"	3/4"
E/HFC-25	3/4"	3/4"
E/HFC-30	3/4"	3/4"

- NOTES:
- RUNOUT PIPE SIZES TO INDIVIDUAL UNITS SHALL BE THE SAME SIZE WHETHER COPPER OR PEX.

GENERAL NOTES

- REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- PROVIDE A MOCKUP OF EXPOSED PIPE SHROUD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHROUD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHROUD.

TAGGED NOTES

- SUPPLY AND RETURN PIPING DOWN TO FIRST FLOOR FLOOR MOUNTED UNIT. THIS OCCURS AT ALL FIRST FLOOR UNITS UNLESS OTHERWISE NOTED. PIPING SHALL BE CONCEALED WITH PAINTABLE BRAKE METAL PIPE SHROUD. COLOR SELECTION BY OWNER/ARCHITECT.
- PIPING LOCATED ABOVE FIRST FLOOR CEILING SERVING FAN COILS ON THE SECOND FLOOR. SUPPLY AND RETURN PIPING SHALL BE ABANDONED IN PLACE. CONDENSATE TO REMAIN AND SHALL BE CLEANED.
- REFER TO RISER DIAGRAM ON SHEET M7.0 FOR TYPICAL RISER DETAILS.
- PIPING LOCATED ABOVE FIRST FLOOR CEILING SERVING FAN COILS ON THE SECOND FLOOR. PIPE SHALL BE DEMOLISHED UP TO FLOOR SLAB PENETRATION. PIPING INTO THE UNIT SHALL REMAIN.
- RECONNECT NEW CHWSR AND CONDENSATE TO HORIZONTAL UNIT LOCATED 10' A.F.F. AND TO EXISTING PIPING AT SLAB PENETRATION. INSULATION SHALL BE SEALED AIRTIGHT AT THE CONNECTION.
- NEW 3" CHWS AND 3" CHWR SHALL BE ROUTED UP TO THE SECOND FLOOR FROM FIRST FLOOR POINT OF DEMOLITION.



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

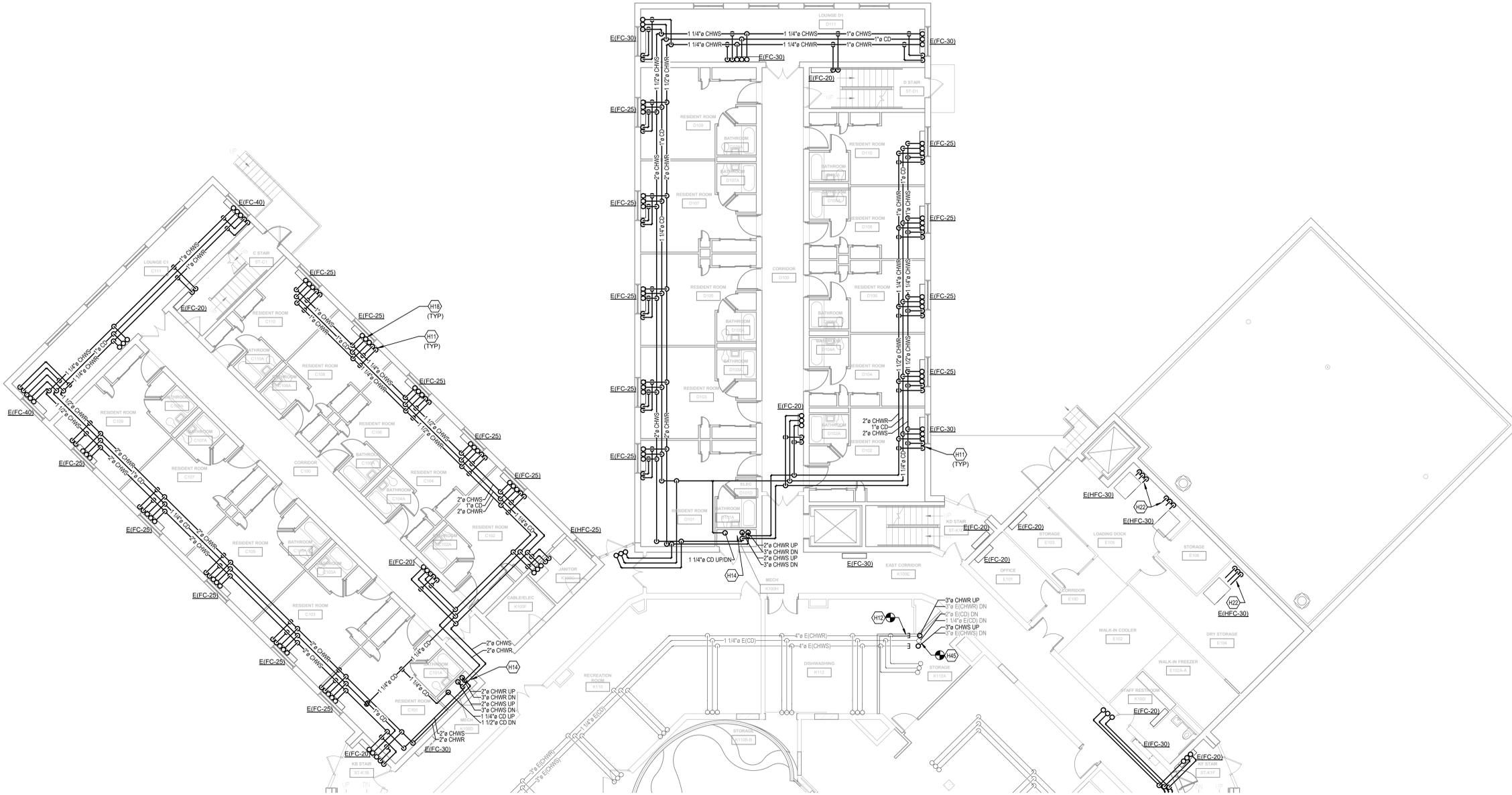
NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

FIRST FLOOR HYDRONIC PLAN - AREA B

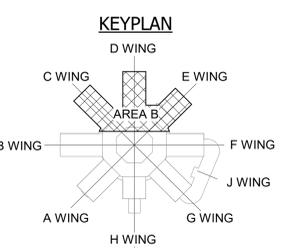
CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

NO.	REVISIONS

M3.1B



1 FIRST FLOOR - HYDRONIC NEW WORK PLAN - AREA B
SCALE: 1/8" = 1'-0"



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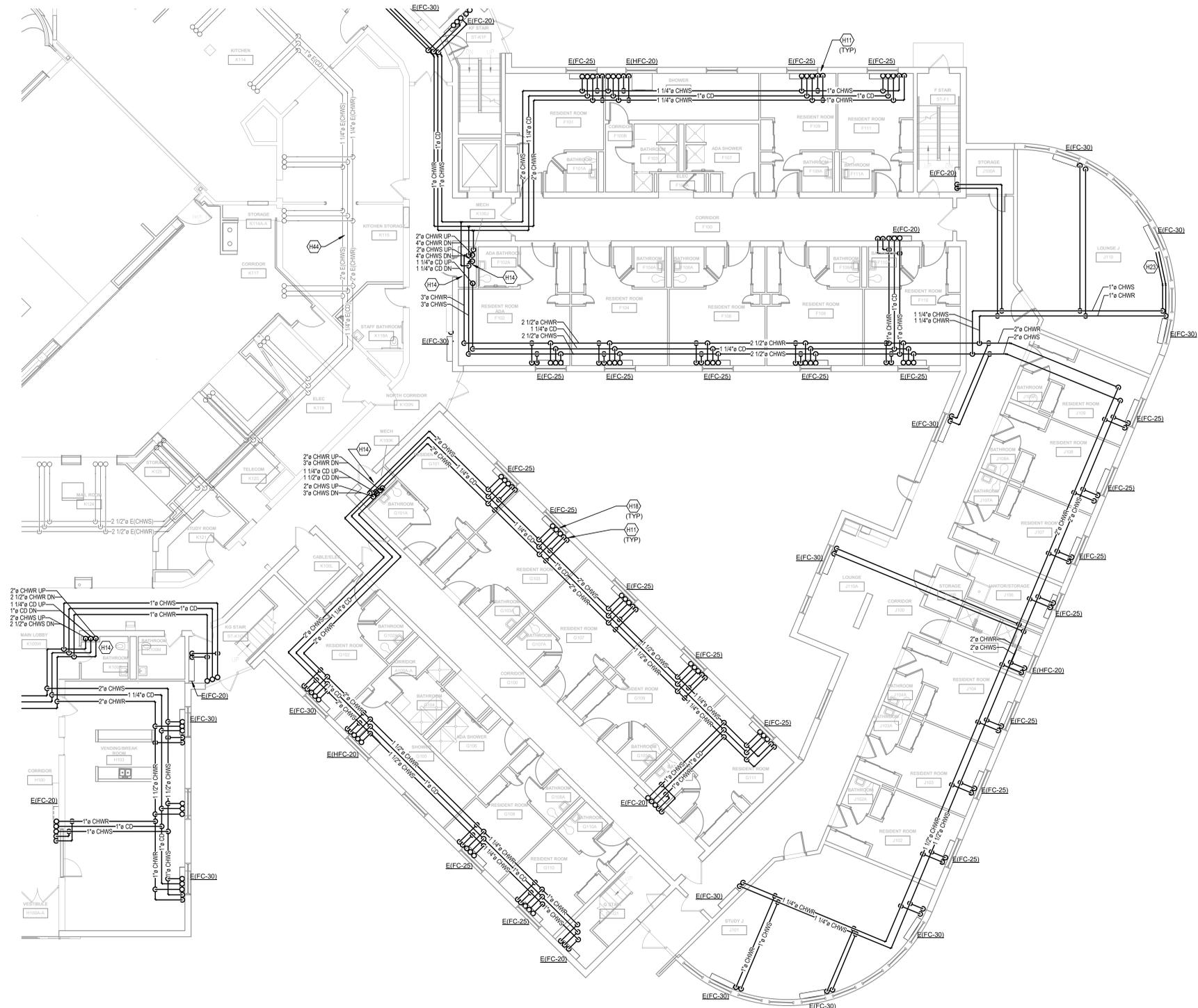


GENERAL NOTES

- A REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- B ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- C ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- D PROVIDE A MOCKUP OF EXPOSED PIPE SHROUD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHROUD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHROUD.

TAGGED NOTES

- H11 SUPPLY AND RETURN PIPING DOWN TO FIRST FLOOR FLOOR MOUNTED UNIT. THIS OCCURS AT ALL FIRST FLOOR UNITS UNLESS OTHERWISE NOTED. PIPING SHALL BE CONCEALED WITH PAINTABLE BRAKE METAL PIPE SHROUD. COLOR SELECTION BY OWNER/ARCHITECT.
- H14 REFER TO RISER DIAGRAM ON SHEET M7.0 FOR TYPICAL RISER DETAILS.
- H18 PIPING LOCATED ABOVE FIRST FLOOR CEILING SERVING FAN COILS ON THE SECOND FLOOR. PIPE SHALL BE DEMOLISHED UP TO FLOOR SLAB PENETRATION. PIPING INTO THE UNIT SHALL REMAIN.
- H23 SUPPLY AND RETURN PIPING AT 3" AFF TO FIRST FLOOR FLOOR MOUNTED UNITS. PIPING SHALL BE CONCEALED WITH BRAKE METAL PIPE SHROUD. PIPING AND SHROUD SHALL BE FOLLOW RADIUS OF WALL. COLOR SELECTION BY OWNER/ARCHITECT.
- H44 PIPING ABANDONED IN PLACE.



EQUIVALENT PIPE SIZES

COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"

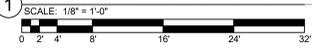
- NOTES:**
- UNLESS OTHERWISE NOTED.
 - ALL PIPE SIZES LISTED ON THE PLANS ARE BASED ON ON COPPER PIPING. USE THIS CHART TO DETERMINE THE REQUIRED SIZE FOR PEX PIPING.
 - 1" PEX IS ACCEPTABLE FOR TWO FAN COILS.

FAN COIL RUNOUT SCHEDULE

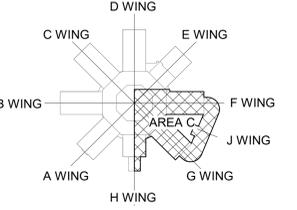
MARK	SUPPLY/RETURN PIPE SIZE	CONDENSATE PIPE SIZE
E(FC-12)	3/4"	3/4"
E(FC-20)	3/4"	3/4"
E(FC-25)	3/4"	3/4"
E(FC-30)	3/4"	3/4"
E(FC-40)	3/4"	3/4"
E(HFC-20)	3/4"	3/4"
E(HFC-25)	3/4"	3/4"
E(HFC-30)	3/4"	3/4"

- NOTES:**
- RUNOUT PIPE SIZES TO INDIVIDUAL UNITS SHALL BE THE SAME SIZE WHETHER COPPER OR PEX.

1 FIRST FLOOR - HYDRONIC NEW WORK PLAN - AREA C



KEYPLAN



CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

M3.1C

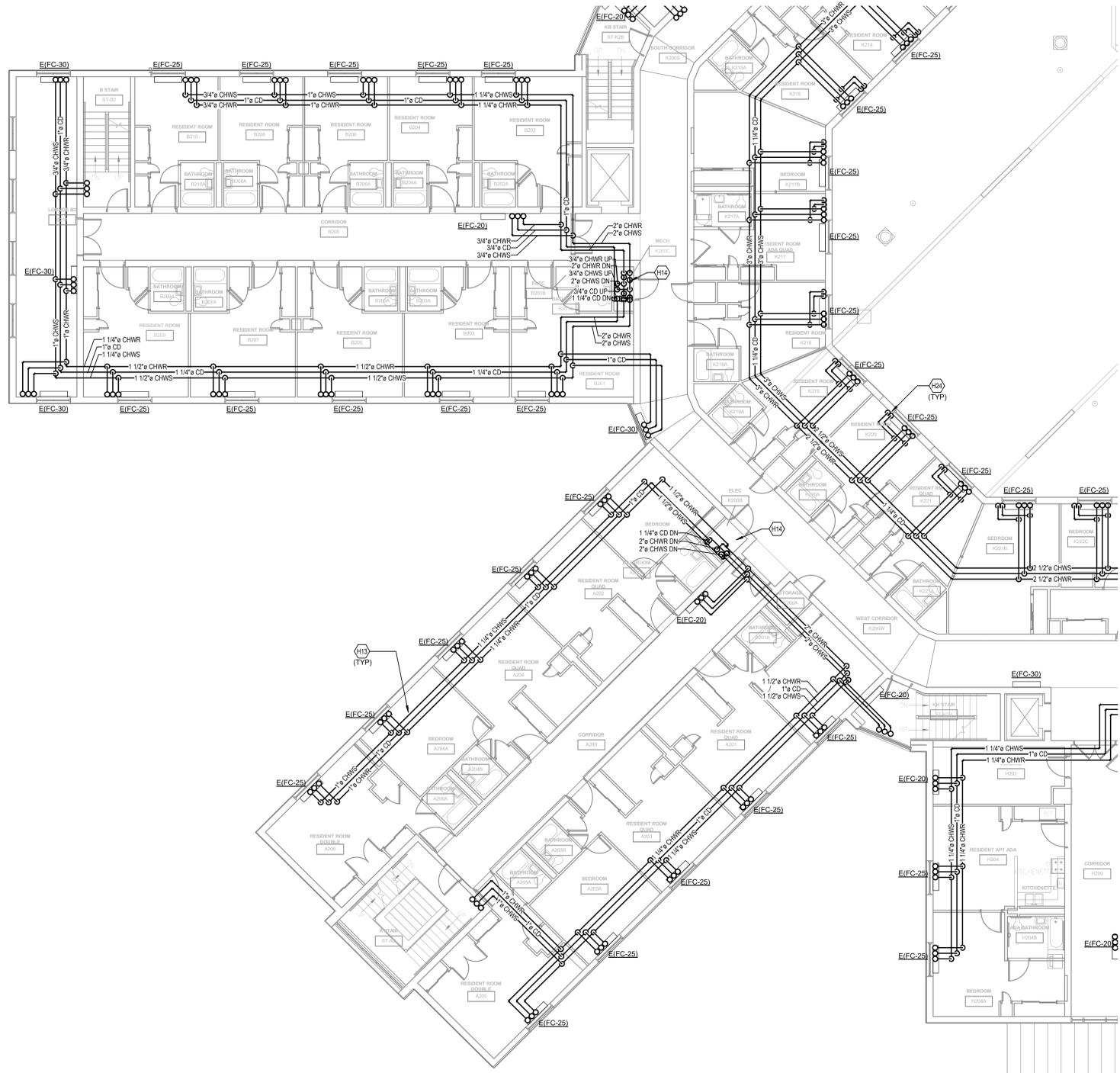


GENERAL NOTES

- A REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- B ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- C ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- D PROVIDE A MOCKUP OF EXPOSED PIPE SHROUD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHROUD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHROUD.

TAGGED NOTES

- H13 PIPING LOCATED ABOVE CEILING ON THE SECOND FLOOR SERVING THE UNITS LOCATED ON THE THIRD FLOOR.
- H14 REFER TO RISER DIAGRAM ON SHEET M7.0 FOR TYPICAL RISER DETAILS.
- H24 SUPPLY AND RETURN PIPING DOWN TO SECOND FLOOR FLOOR MOUNTED UNIT. PIPING SHALL BE CONCEALED WITH PAINTABLE BRAKE METAL PIPE SHROUD. COLOR SELECTION BY OWNER/ARCHITECT.



EQUIVALENT PIPE SIZES

COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"

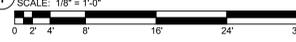
- NOTES:**
- UNLESS OTHERWISE NOTED.
 - ALL PIPE SIZES LISTED ON THE PLANS ARE BASED ON ON COPPER PIPING. USE THIS CHART TO DETERMINE THE REQUIRED SIZE FOR PEX PIPING.
 - 1" PEX IS ACCEPTABLE FOR TWO FAN COILS.

FAN COIL RUNOUT SCHEDULE

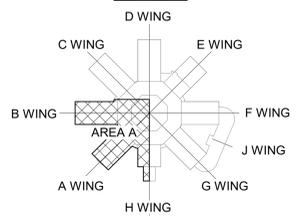
MARK	SUPPLY/RETURN PIPE SIZE	CONDENSATE PIPE SIZE
E(FC-12)	3/4"	3/4"
E(FC-20)	3/4"	3/4"
E(FC-25)	3/4"	3/4"
E(FC-30)	3/4"	3/4"
E(FC-40)	3/4"	3/4"
E(HFC-20)	3/4"	3/4"
E(HFC-25)	3/4"	3/4"
E(HFC-30)	3/4"	3/4"

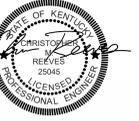
- NOTES:**
- RUNOUT PIPE SIZES TO INDIVIDUAL UNITS SHALL BE THE SAME SIZE WHETHER COPPER OR PEX.

1 SECOND FLOOR - HYDRONIC NEW WORK PLAN - AREA A



KEYPLAN



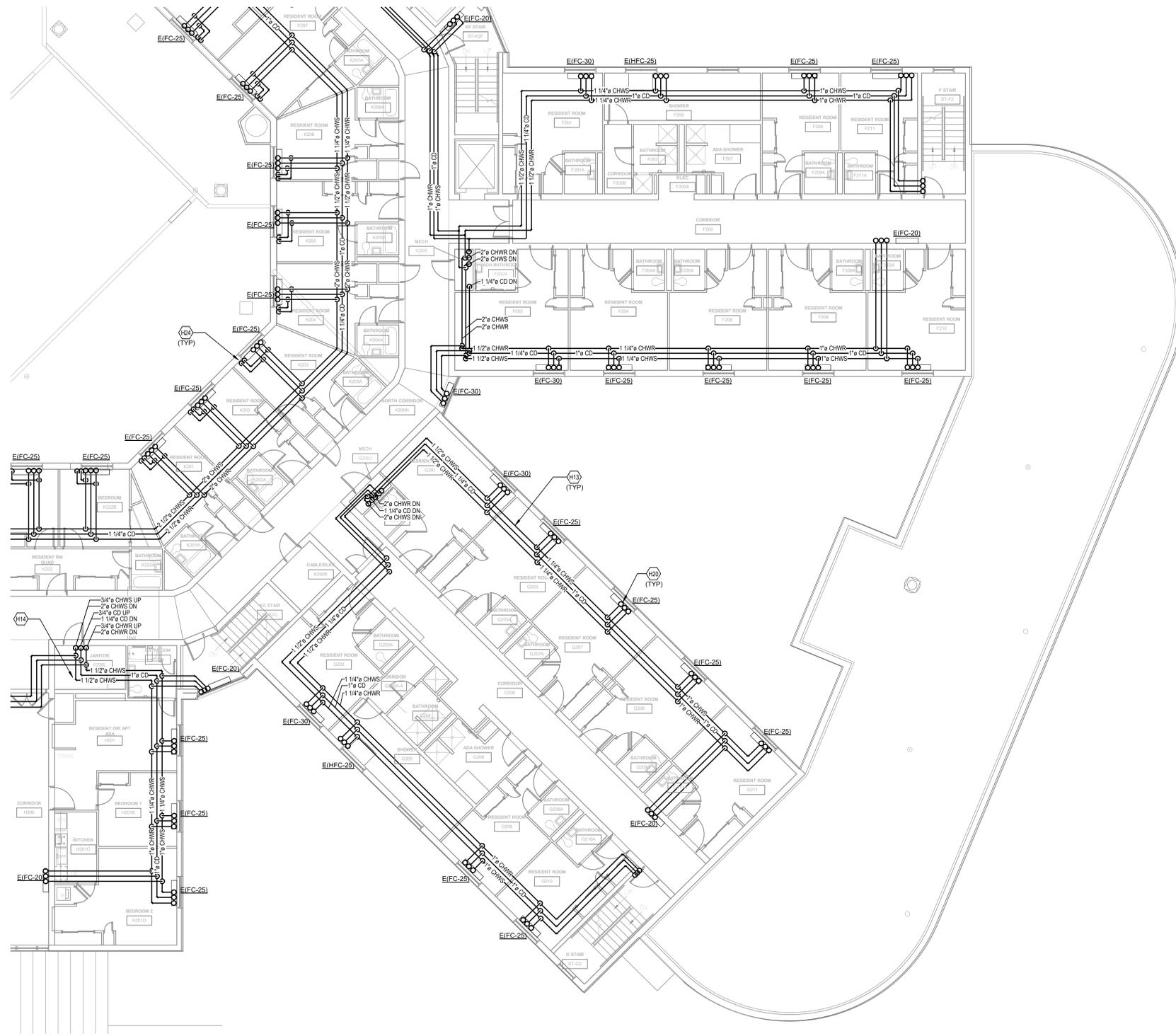


GENERAL NOTES

- A REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- B ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- C ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- D PROVIDE A MOCKUP OF EXPOSED PIPE SHROUD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHROUD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHROUD.

TAGGED NOTES

- H13 PIPING LOCATED ABOVE CEILING ON THE SECOND FLOOR SERVING THE UNITS LOCATED ON THE THIRD FLOOR.
- H14 REFER TO RISER DIAGRAM ON SHEET M7.0 FOR TYPICAL RISER DETAILS.
- H20 PIPING LOCATED ABOVE SECOND FLOOR CEILING SERVING FAN COILS ON THE THIRD FLOOR. PIPE SHALL BE DEMOLISHED UP TO FLOOR SLAB PENETRATION. PIPING INTO THE UNIT SHALL REMAIN.
- H24 SUPPLY AND RETURN PIPING DOWN TO SECOND FLOOR FLOOR MOUNTED UNIT. PIPING SHALL BE CONCEALED WITH PAINTABLE BRAKE METAL PIPE SHROUD. COLOR SELECTION BY OWNER/ARCHITECT.



EQUIVALENT PIPE SIZES

COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"

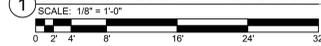
- NOTES:**
- UNLESS OTHERWISE NOTED.
 - ALL PIPE SIZES LISTED ON THE PLANS ARE BASED ON ON COPPER PIPING. USE THIS CHART TO DETERMINE THE REQUIRED SIZE FOR PEX PIPING.
 - 1" PEX IS ACCEPTABLE FOR TWO FAN COILS.

FAN COIL RUNOUT SCHEDULE

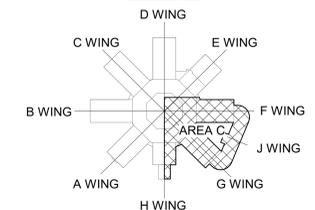
MARK	SUPPLY/RETURN PIPE SIZE	CONDENSATE PIPE SIZE
E(FC-12)	3/4"	3/4"
E(FC-20)	3/4"	3/4"
E(FC-25)	3/4"	3/4"
E(FC-30)	3/4"	3/4"
E(FC-40)	3/4"	3/4"
E(HFC-20)	3/4"	3/4"
E(HFC-25)	3/4"	3/4"
E(HFC-30)	3/4"	3/4"

- NOTES:**
- RUNOUT PIPE SIZES TO INDIVIDUAL UNITS SHALL BE THE SAME SIZE WHETHER COPPER OR PEX.

1 SECOND FLOOR - HYDRONIC NEW WORK PLAN - AREA C



KEYPLAN



CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

NO.	DESCRIPTION

M3.2C

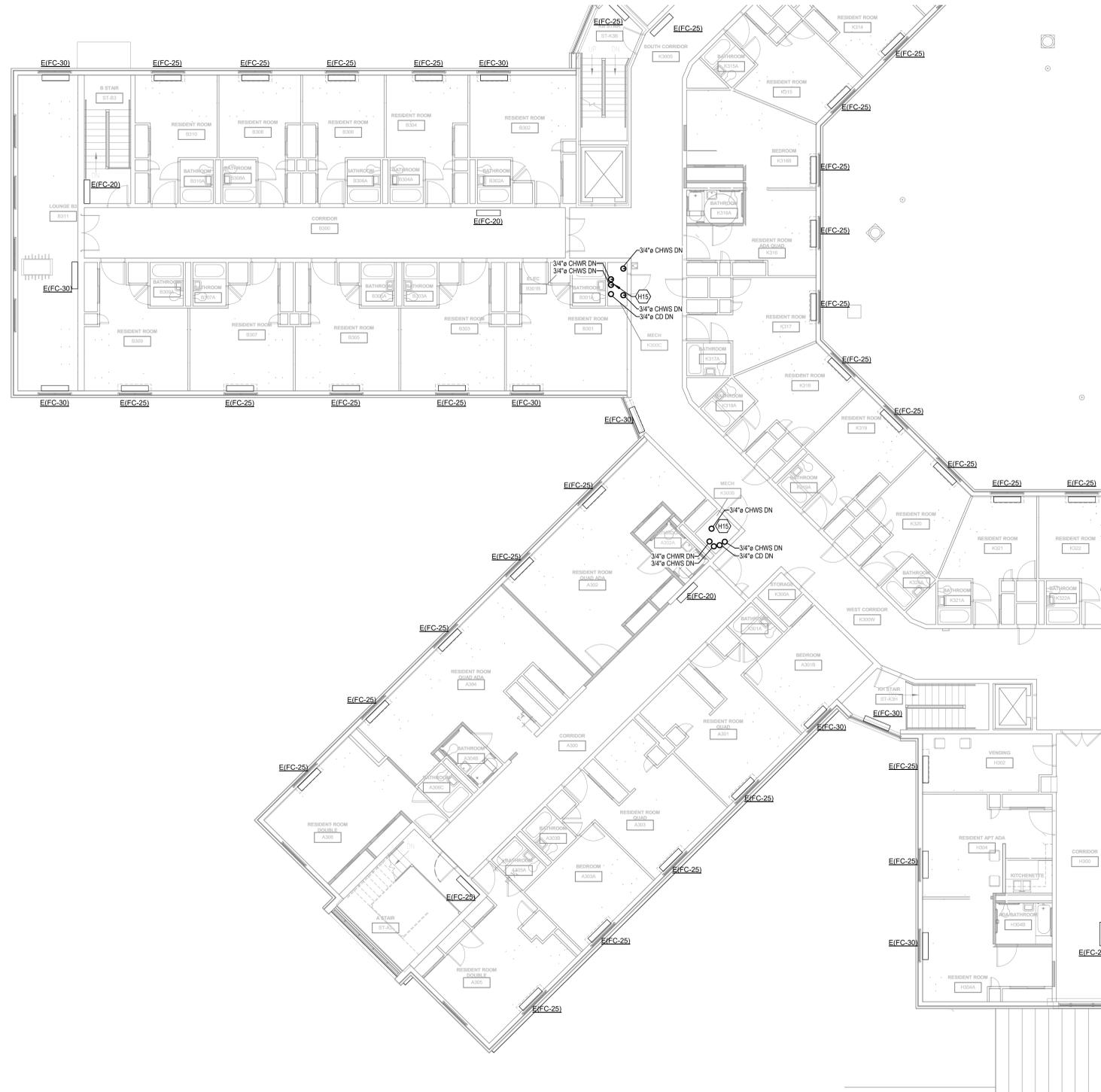


GENERAL NOTES

- A REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- B ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- C ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- D PROVIDE A MOCKUP OF EXPOSED PIPE SHROUD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHROUD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHROUD.

TAGGED NOTES

- H15 PROVIDE MANUAL AIR VENTS AT THE TOP OF ALL RISERS. THE MANUAL AIR VENT SHALL BE PIPED UP TO AN ELEVATION ABOVE THE FLOOR MOUNT FAN COILS. PROVIDE AN ISOLATION VALVE AT THE AIR VENTS. REFER TO SHEET M7.0 FOR TYPICAL RISER DETAILS.



EQUIVALENT PIPE SIZES

COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"

- NOTES:
1. UNLESS OTHERWISE NOTED.
 2. ALL PIPE SIZES LISTED ON THE PLANS ARE BASED ON COPPER PIPING. USE THIS CHART TO DETERMINE THE REQUIRED SIZE FOR PEX PIPING.
 3. 1" PEX IS ACCEPTABLE FOR TWO FAN COILS.

FAN COIL RUNOUT SCHEDULE

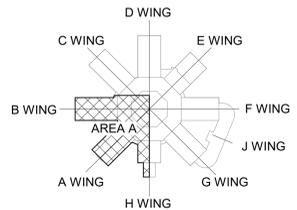
MARK	SUPPLY/RETURN PIPE SIZE	CONDENSATE PIPE SIZE
E(FC-12)	3/4"	3/4"
E(FC-20)	3/4"	3/4"
E(FC-25)	3/4"	3/4"
E(FC-30)	3/4"	3/4"
E(FC-40)	3/4"	3/4"
E(HFC-20)	3/4"	3/4"
E(HFC-25)	3/4"	3/4"
E(HFC-30)	3/4"	3/4"

- NOTES:
1. RUNOUT PIPE SIZES TO INDIVIDUAL UNITS SHALL BE THE SAME SIZE WHETHER COPPER OR PEX.

1 THIRD FLOOR - HYDRONIC NEW WORK PLAN - AREA A



KEYPLAN



CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

M3.3A

EQUIVALENT PIPE SIZES	
COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"

- NOTES:
- UNLESS OTHERWISE NOTED.
 - ALL PIPE SIZES LISTED ON THE PLANS ARE BASED ON COPPER PIPING. USE THIS CHART TO DETERMINE THE REQUIRED SIZE FOR PEX PIPING.
 - 1" PEX IS ACCEPTABLE FOR TWO FAN COILS.

FAN COIL RUNOUT SCHEDULE		
MARK	SUPPLY/RETURN PIPE SIZE	CONDENSATE PIPE SIZE
E/FC-12)	3/4"	3/4"
E/FC-20)	3/4"	3/4"
E/FC-25)	3/4"	3/4"
E/FC-30)	3/4"	3/4"
E/FC-40)	3/4"	3/4"
E/HFC-20)	3/4"	3/4"
E/HFC-25)	3/4"	3/4"
E/HFC-30)	3/4"	3/4"

- NOTES:
- RUNOUT PIPE SIZES TO INDIVIDUAL UNITS SHALL BE THE SAME SIZE WHETHER COPPER OR PEX.

GENERAL NOTES

- REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- PROVIDE A MOCKUP OF EXPOSED PIPE SHROUD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHROUD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHROUD.

TAGGED NOTES

- H15 PROVIDE MANUAL AIR VENTS AT THE TOP OF ALL RISERS. THE MANUAL AIR VENT SHALL BE PIPED UP TO AN ELEVATION ABOVE THE FLOOR MOUNT FAN COILS. PROVIDE AN ISOLATION VALVE AT THE AIR VENTS. REFER TO SHEET M7.0 FOR TYPICAL RISER DETAILS.

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Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

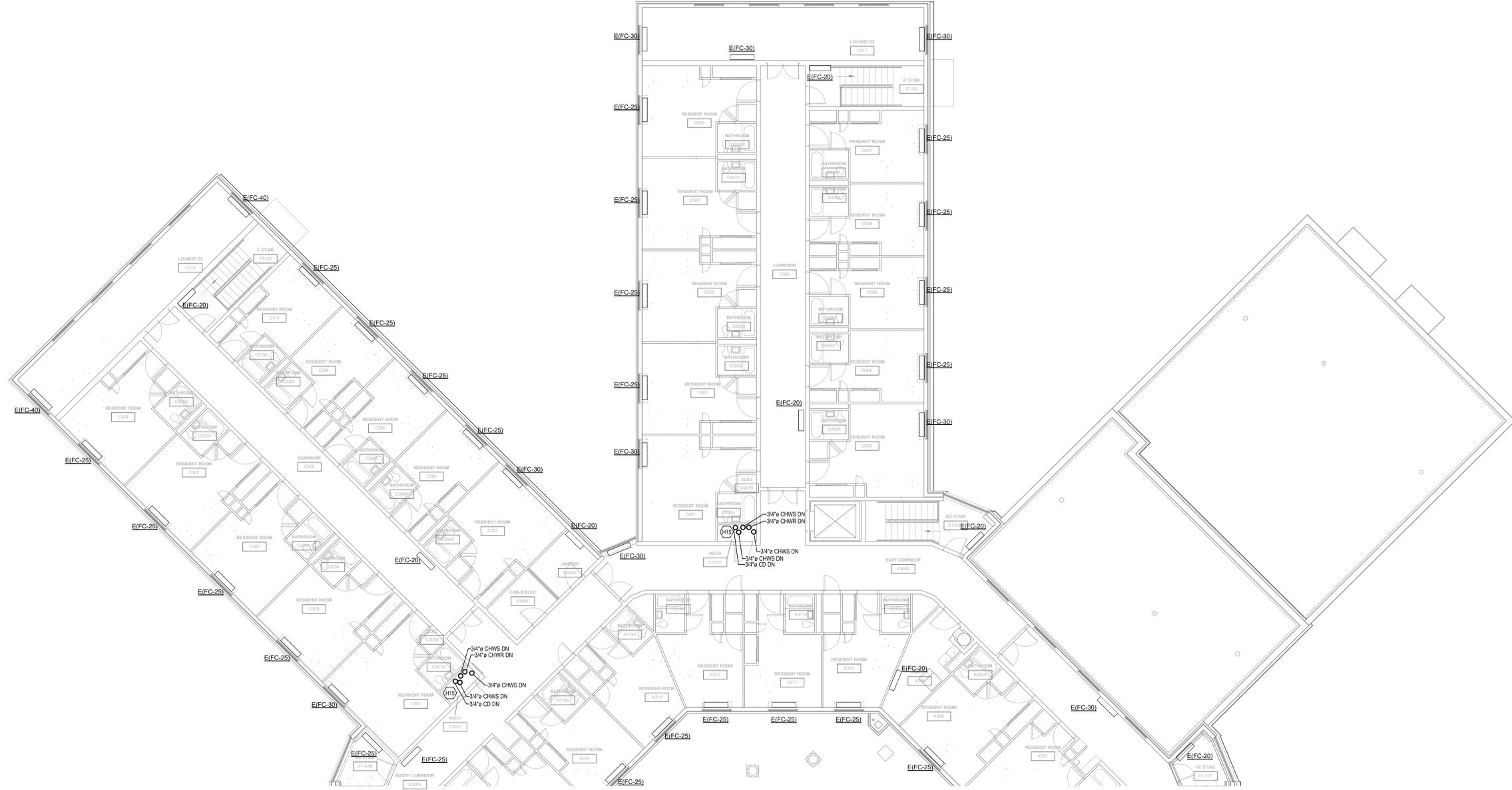
NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

THIRD FLOOR HYDRONIC PLAN - AREA B

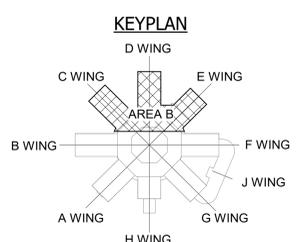
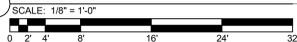
CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

M3.3B



1 THIRD FLOOR - HYDRONIC NEW WORK PLAN - AREA B



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GENERAL NOTES

- A REFER TO ARCHITECTURAL PLAN FOR CEILING REPLACEMENT. IN ALL OTHER AREAS, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REINSTALLING THE CEILING GRID AS NECESSARY TO INSTALL PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED OR BROKEN DURING THIS PROCESS.
- B ALL EXISTING FAN COILS SHALL REMAIN. PIPING SHALL BE RECONNECTED TO EACH UNIT.
- C ALL FLOOR SLABS ARE RATED AND PENETRATIONS SHALL BE SEALED ACCORDINGLY.
- D PROVIDE A MOCKUP OF EXPOSED PIPE SHROUD TO FAN COIL UNITS PRIOR TO FABRICATING OR PURCHASING THE REMAINDER. ARCHITECT TO SELECT COLOR. SHROUD SHALL BE SECURED TO THE WALL. CUT CEILING TILE AROUND PIPE SHROUD.

TAGGED NOTES

- H15 PROVIDE MANUAL AIR VENTS AT THE TOP OF ALL RISERS. THE MANUAL AIR VENT SHALL BE PIPED UP TO AN ELEVATION ABOVE THE FLOOR MOUNT FAN COILS. PROVIDE AN ISOLATION VALVE AT THE AIR VENTS. REFER TO SHEET M7.0 FOR TYPICAL RISER DETAILS.



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

THIRD FLOOR HYDRONIC PLAN - AREA C



EQUIVALENT PIPE SIZES

COPPER	PEX
3/4"	1"
1"	1 1/4"
1 1/4"	1 1/2"
1 1/2"	2"
2"	2 1/2"
2 1/2"	3"

- NOTES:
- UNLESS OTHERWISE NOTED.
 - ALL PIPE SIZES LISTED ON THE PLANS ARE BASED ON ON COPPER PIPING. USE THIS CHART TO DETERMINE THE REQUIRED SIZE FOR PEX PIPING.
 - 1" PEX IS ACCEPTABLE FOR TWO FAN COILS.

FAN COIL RUNOUT SCHEDULE

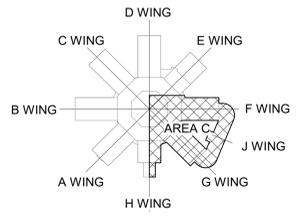
MARK	SUPPLY/RETURN PIPE SIZE	CONDENSATE PIPE SIZE
E(IFC-12)	3/4"	3/4"
E(IFC-20)	3/4"	3/4"
E(IFC-25)	3/4"	3/4"
E(IFC-30)	3/4"	3/4"
E(IFC-40)	3/4"	3/4"
E(HFC-20)	3/4"	3/4"
E(HFC-25)	3/4"	3/4"
E(HFC-30)	3/4"	3/4"

- NOTES:
- RUNOUT PIPE SIZES TO INDIVIDUAL UNITS SHALL BE THE SAME SIZE WHETHER COPPER OR PEX.

1 THIRD FLOOR - HYDRONIC NEW WORK PLAN - AREA C

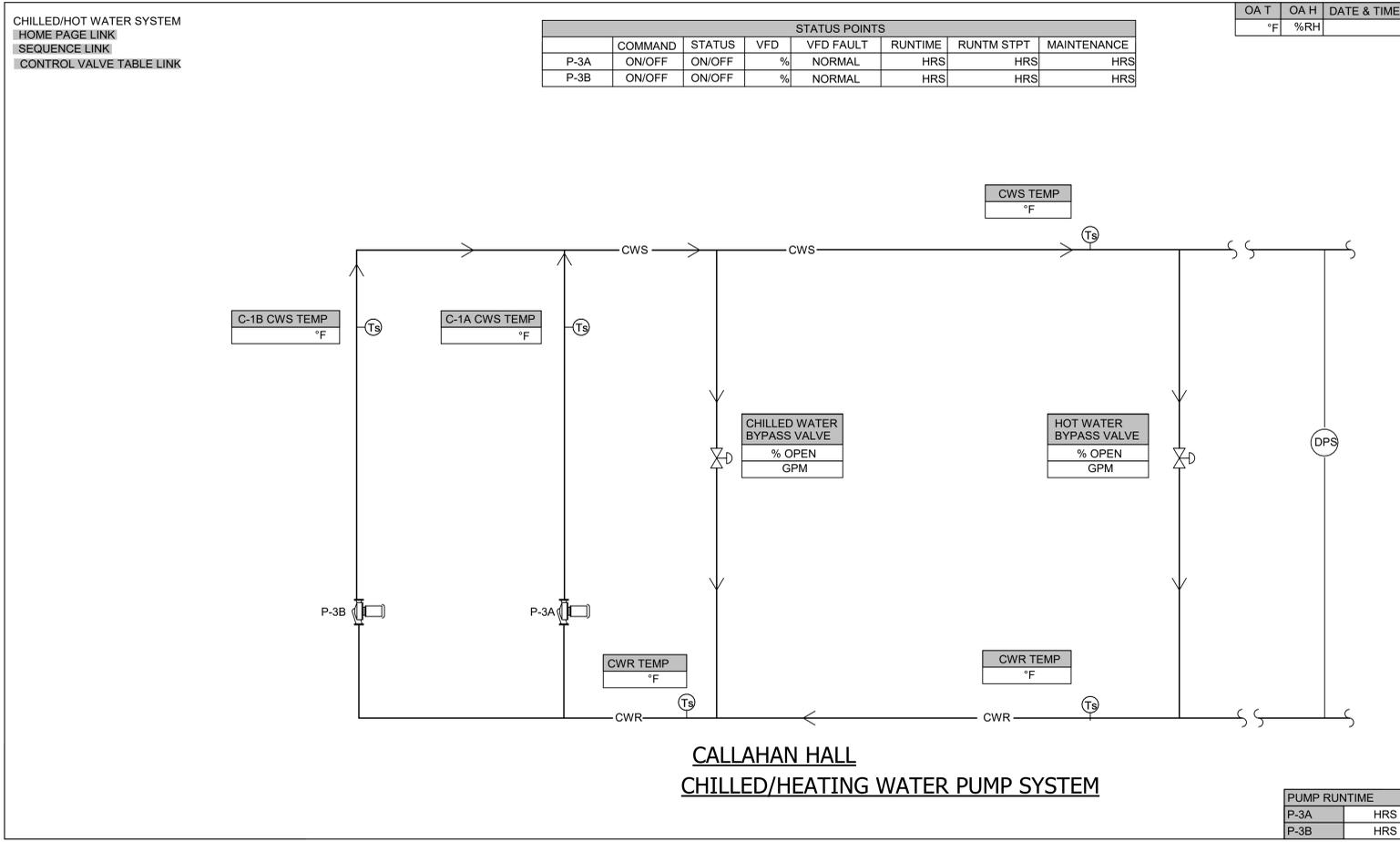


KEYPLAN



M3.3C

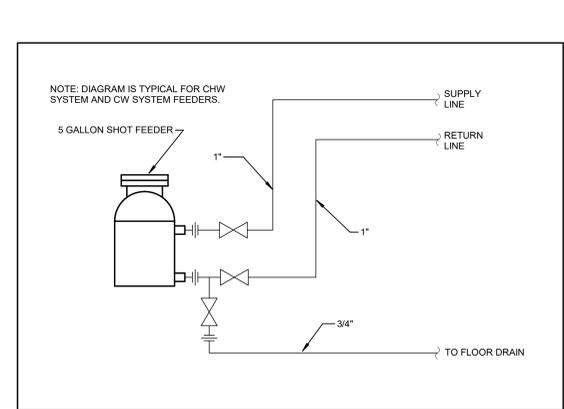
PROJECT: C:\Users\jacob\Documents\2025\M3C3D
 DATE: 02/26/2021
 DRAWN BY: SLS



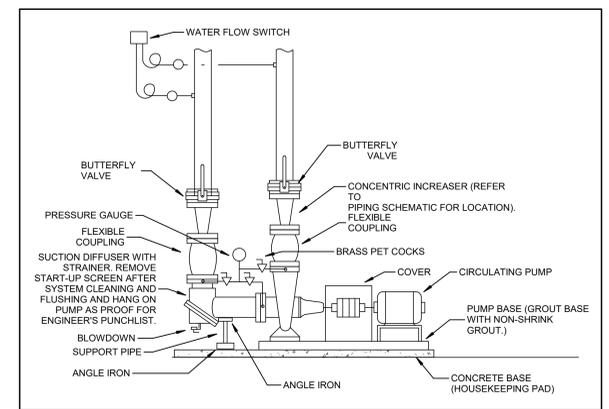
6 CHILLER WATER SYSTEM CONTROL SCHEMATIC
SCALE: NONE

1. CHILLED/HEATING WATER PUMP SEQUENCE
- 1.1. The pumps are to be variable flow system. Three differential pressure sensors are located in second mechanical closets to control the pump speed. This contractor shall provide all control wiring, variable frequency drives, etc. necessary for proper system operation. This includes wiring to the following, provided as components to the system:
- Pump controller for on/off control on each pump.
 - Three differential pressure sensors.
 - Temperature sensors
 - Flow meter
 - No flow alarms
 - Other sensors specified as part of the variable speed pumping system.
- 1.2. The pump controller shall continuously survey the three differential pressure sensors located in mechanical closets as indicated on the drawings. If the pump controller senses that the differential pressure is below the pressure setpoint, the speed of the controlled pump increases. If the pump controller senses that the differential pressure sensor is above the pressure setpoint, the speed of the controlled pump decreases. If a second pump requires starting to maintain the system pressures, the controller will activate it. If both pumps are running for more than 1 hour, than an alarm shall be generated at the DDC system.
- 1.3. In cooling mode, the chilled water bypass shall be full open. The hot water bypass shall be closed.
- 1.4. In heating mode, the chilled water bypass shall be full closed. The hot water bypass is a minimum flow bypass. If the pump speed is at minimum (18 Hz) speed, and the differential pressure exceeds setpoint by 5 psi, the valve shall modulate open the hot water bypass to reach setpoint.

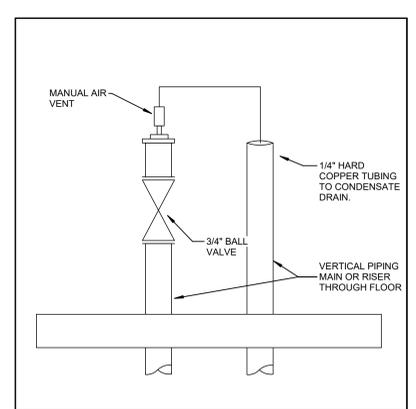
5 CHILLED WATER SYSTEM SEQUENCE
SCALE: NONE



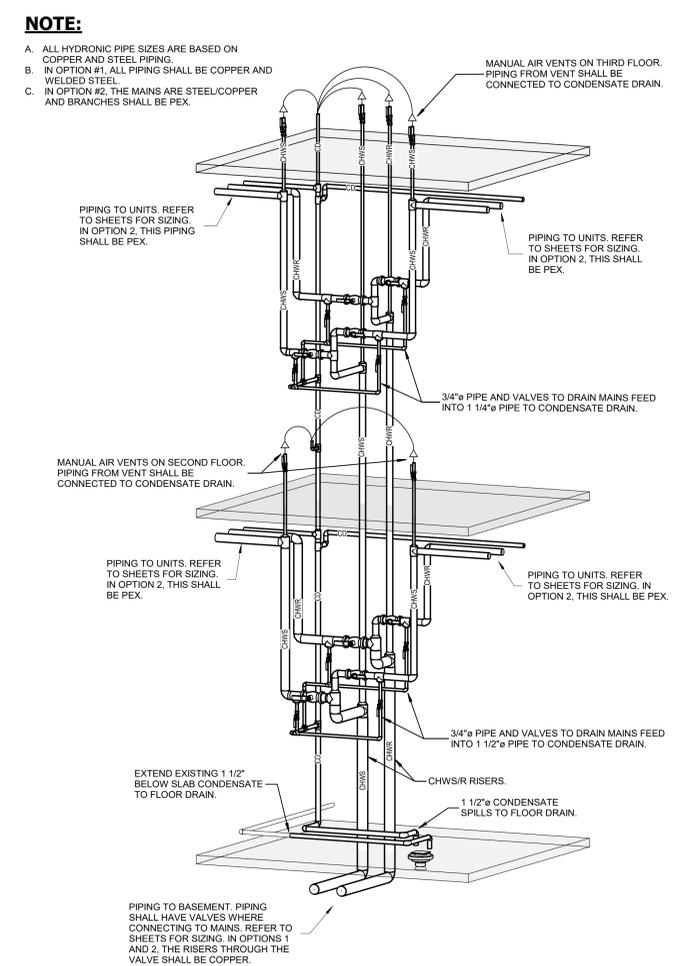
3 POT FEEDER PIPING DIAGRAM
SCALE: NONE



4 BASE MOUNTED PUMP PIPING DETAIL
SCALE: NONE



1 VERTICAL MANUAL AIR VENT DETAIL
SCALE: NONE



2 TYPICAL HYDRONIC RISER - NEW WORK
SCALE: NONE



CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	SLS
CHECKED:	CMR

REVISIONS

ELECTRICAL GENERAL NOTES

- A EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
- B ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.
- C WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72, INTERNATIONAL BUILDING CODES, ETC.
- D CONTRACTOR SHALL FOLLOW ALL DESIGN RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- E ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE PROVIDED FOR EACH PROPOSER'S DISCRETION.
- F INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER.
- G ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN AGREEMENT.
- H WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.
- I DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN (10) DAYS PRIOR TO THE BID DATE.
- J OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.)
- K MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UNLESS MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNLESS NOTED.
- L INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.
- M DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.
- N THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
- O ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER.
- P ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIME AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORKING AND COLORS WITH ARCHITECT.
- R WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.
- S THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.)
- T COORDINATE WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF ADDITIONAL RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC.
- U CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2" DIMENSION OF 2'X4" TILE AND ON CENTERLINE OR A QUARTER POINT ON 4" DIMENSION.
- V ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- W CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.
- X PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT
- Y DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- Z THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.
- AA WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.
- AB WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.
- AC COORDINATE THE LOCATION OF DRAINS, ELECTRICAL, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONDING CONTRACTOR.
- AD ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT. LABELING BY THE ENGINEER IN WRITING.
- AE ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTIONS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INsofar AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.
- AF NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.
- AG ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-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 ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- AH ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.
- AI WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED.
- AJ REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND EQUIPMENT. IF IN DOUBT, CONTACT ENGINEER FOR DIRECTION PRIOR TO ROUGH IN.
- AK FLUSH OR RECESSED TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLANS, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE NOTED. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.
- AL AS APPLICABLE, REFER TO ARCHITECTURAL PHASING PLANS AND PHASING BOUNDARIES ON THESE DRAWINGS FOR SEQUENCING OF WORK. FULL EXTENT OF AREAS INVOLVED, EXTENT OF CEILING WORK, ETC. PROVIDE TEMPORARY CONNECTIONS FOR CIRCUITS AND WORK AS REQUIRED TO MAINTAIN PHASE TO PHASE.
- AM THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK.
- AN ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.
- AO INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.
- AP WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE SOUND-INSULATING PUTTY AND SOUND BARRIERS AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM.
- AQ JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
- AR ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.
- AS DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
- AT NOISY WORK, WORK OUTSIDE CONSTRUCTION BARRIERS, WORK IN OCCUPIED AREAS, ETC. SHALL BE PERFORMED AFTER HOURS OR ON WEEKENDS. COORDINATE EXACT SCHEDULING WITH FACILITY PRIOR TO CONSTRUCTION.
- AU ALL ITEMS HAVING KEYS LOCKS/OPERATORS SHALL HAVE KEYS LOCKS/OPERATORS. ALL KEYS SHALL MATCH THE OWNER'S EXISTING KEYWAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.
- AV REFER TO ARCHITECTURAL PLANS FOR PHASING REQUIREMENTS. WORK SHALL BE COMPLETED IN PHASES PER THE PHASING PLAN AND AS COORDINATED WITH OWNER AND GENERAL CONTRACTOR. PROVIDE ALL REQUIRED INCREMENTAL INSPECTIONS, CERTIFICATIONS, ETC. AND ALL TEMPORARY SERVICES AS REQUIRED BY OWNER TO ACCOMPLISH THE PHASING PLAN.

ELECTRICAL DEMOLITION NOTES

- A DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND SOLID HALFTONE LINES INDICATE EXISTING ITEMS TO REMAIN.
- B THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT UPSTREAM OR DOWNSTREAM ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
- C LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY CAN COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
- D REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUITORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- E COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- F COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- G PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- H CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- I UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- J EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
- K CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- L DEVICES INDICATED WITH AN "X" SHALL BE RELOCATED, REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
- M ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.
- N CONTRACTOR TO VERIFY THAT THERE ARE NO ELECTRICAL CIRCUITS IN CHASES BEING REMOVED UNDER DEMOLITION WHICH REMAIN IN SERVICE AND CANNOT BE REMOVED. SHOULD SUCH CIRCUITS BE ENCOUNTERED, THE CONTRACTOR IS TO REROUTE AND RECONNECT AS REQUIRED TO MAINTAIN SERVICE.

DESCRIPTION	MOUNTING HEIGHT	SYMBOL
LIGHTING CONTROLS		
LIGHT SWITCH (LOW VOLTAGE (WHEN PRESENT, # INDICATES QUANTITY OF CHANNELS))	40"	\$ #
EXAM LIGHT SWITCH	40"	\$ #
NIGHT LIGHT SWITCH WITH CONSTANTLY ILLUMINATED HANDLE	40"	\$ #
SURGICAL LIGHT INTENSITY CONTROL	40"	\$ #
LOW VOLTAGE DIMMER SWITCH (WHEN PRESENT, # INDICATES QUANTITY OF CHANNELS)	40"	\$ #
GRAPHIC TOUCHSCREEN CONTROL STATION	40"	\$ #
LINE VOLTAGE SWITCH	40"	\$ LV
LINE VOLTAGE THREE-WAY, FOUR-WAY SWITCH	40"	\$ LV3 LV4
LINE VOLTAGE THREE-WAY, FOUR-WAY DIMMER SWITCH	40"	\$ LV3 LV4
KEYED SWITCH	40"	\$ #
OCCUPANCY OR VACANCY SENSOR SWITCH	40"	\$ # VS
OCCUPANCY OR VACANCY SENSOR SWITCH WITH DIMMING	40"	\$ # DS
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	40"	\$ #
ILLUMINATED HANDLE LIGHT SWITCH (ILLUMINATED WHEN LOAD IS OFF)	40"	\$ #
PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)	40"	\$ #
TIMER SWITCH	40"	\$ #
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CLG	\$ #
OCCUPANCY SENSOR, CORNER MOUNT	CLG	\$ #
DAYLIGHT SENSOR	AS NOTED	\$ #
PHOTOCELL	AS NOTED	\$ #
LIGHTING RELAY	AS NOTED	\$ #
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAIL)	CLG	\$ #
POWER OUTLETS		
SIMPLEX RECEPTACLE (TEXT INDICATES NEMA TYPE)	1'-0"	\$ #
DUPLEX RECEPTACLE	1'-0"	\$ #
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH		\$ #
FILLED CENTER BAR INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI)	1'-0"	\$ #
DEAD FRONT GFCI DEVICE, LABEL AND INSTALL IN READILY ACCESSIBLE LOCATION	40"	\$ #
DUPLEX RECEPTACLE WITH TWO INTEGRAL USB CHARGING PORTS	1'-0"	\$ #
USB CHARGING OUTLET WITH FOUR INTEGRAL USB PORTS	1'-0"	\$ #
GANG RECEPTACLE IN COMBINATION WITH SWITCH (PROVIDE DIVERT IF LIGHTING CIRCUIT IS 277V)	40"	\$ #
DUPLEX RECEPTACLE, CEILING MOUNTED	CLG	\$ #
QUADRI-PLEX RECEPTACLE	1'-0"	\$ #
JUNCTION BOX, CEILING OR WALL	0"	\$ #
VOLTAGE 2 POLE RECEPTACLE, TEXT INDICATES NEMA TYPE	1'-0"	\$ #
VOLTAGE 3 POLE RECEPTACLE, TEXT INDICATES NEMA TYPE	1'-0"	\$ #
"I" INDICATES SAFETY TYPE, TAMPER RESISTANT OUTLET(S)		\$ #
SS INDICATES SURGE SUPPRESSION TYPE OUTLET(S)		\$ #
GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS	2'-2"	\$ #
DUPLEX FOR ELECTRIC WATER COOLER. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONSUL OUTLET BEHIND COOLER. PROVIDE READILY ACCESSIBLE GFI DEVICE AT 18" ADJACENT TO WATER COOLER		\$ #
BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKSPLASH		\$ #
CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB UP CONDUIT		\$ #
FIRE ALARM		
MAIN CONTROL PANEL, CENTRAL PROCESSING UNIT (CPU)	6'-0" TO TOP	\$ #
REMOTE I.C.D. FIRE ALARM ANNUNCIATOR	54"	\$ #
REMOTE FIRE ALARM ANNUNCIATOR W/ MICROPHONE	54"	\$ #
LOCAL OPERATOR CONSOLE	54"	\$ #
SMOKE EVACUATION CONTROL PANEL	54"	\$ #
POWER SUPPLY/CONTROL FOR AUDIOVISUAL DEVICES	40"	\$ #
TRANSPOUNDER CABINET	40"	\$ #
GRAPHICS DISPLAY TERMINAL	40"	\$ #
FIRE ALARM CONTROL EXTENDER	40"	\$ #
POST INDICATOR VALVE	40"	\$ #
PULL STATION: DOUBLE ACTION	40" TO LEVER	\$ #
KEYED, LOCKED PULL STATION - DOUBLE ACTION. STATION SHALL ONLY BE OPERABLE VIA KEY IN POSSESSION OF STAFF.	40" TO LEVER	\$ #
AUDIOVISUAL NOTIFICATION APPLIANCE	WALL, CLG	\$ #
AUDIO-ONLY NOTIFICATION APPLIANCE	WALL, CLG	\$ #
VISUAL-ONLY NOTIFICATION APPLIANCE	WALL, CLG	\$ #
BELL / LIGHT	80"	\$ #
BELL ONLY	80"	\$ #
PHOTO-ELECTRIC SMOKE DETECTOR	CLG	\$ #
PHOTO-ELECTRIC SMOKE DETECTOR FOR PATIENT ROOM MONITORING (SEE RISER)	CLG	\$ #
PROJECTED BEAM SMOKE DETECTOR, EMITTER (BE) AND RECEIVER (BR)	CLG	\$ #
HEAT DETECTOR	CLG	\$ #
CARBON MONOXIDE DUCT DETECTOR	ABOVE CEILING	\$ #
CARBON MONOXIDE ALARM, SINGLE STATION W/ISOLATOR BASE	CLG	\$ #
CARBON MONOXIDE AUDIOVISUAL NOTIFICATION APPLIANCE	WALL	\$ #
DOOR HOLDER, WALL TYPE	WALL	\$ #
DOOR HOLDER, CLOSURE TYPE	ABV DOOR	\$ #
DUCT SMOKE DETECTOR	ABV CLG	\$ #
CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE MODULE		\$ #
CONNECTION TO SPRINKLER TAMPER SWITCH WITH ADDRESSABLE MODULE		\$ #
PRESSURE SWITCH		\$ #
ISOLATION MODULE	WALL	\$ #
ZONE ADDRESSABLE MODULE		\$ #
H.V.C. SMOKE DAMPER CONNECTION		\$ #
FLUSH MOUNTED REMOTE ALARM INDICATING STATION/TEST SWITCH	7'-0"	\$ #
FIREMAN'S PHONE JACK	4'-0"	\$ #
FIREMAN'S KNOX BOX CONNECTION		\$ #
ADDRESSABLE RELAY MODULE		\$ #
INDICATES VANDAL-PROOF POLYCARBONATE COVER, VANDAL PROOF COVER SHALL BE UL LISTED FOR USE WITH THE SPECIFIC DEVICE THEY ARE PROTECTING		\$ #
INDICATES CHIME AUDIBLE NOTIFICATION		\$ #
DEVICE USED FOR ELEVATOR CONTROL		\$ #

DESCRIPTION	MOUNTING HEIGHT	SYMBOL
LIGHTING FIXTURES AND EQUIPMENT		
LIGHTING FIXTURES AND EQUIPMENT		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
OWNER FURNISHED CONTRACTOR INSTALLED		
OWNER FURNISHED - OWNER INSTALLED		
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		
CONTRACTOR FURNISHED - OWNER INSTALLED		
INDICATES EMERGENCY POWER		
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		
POLE MOUNTED AREA LIGHT WITH CONCRETE BASE		
WEATHER-PROOF - NEMA 3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC. AS SUITABLE FOR OUTDOORS.		
EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION		
SPECIAL OUTLETS		
FLOORBOX, AS SCHEDULED	FLOOR	\$ #
POKE-THRU, AS SCHEDULED	FLOOR	\$ #
WALLBOX, AS SCHEDULED	WALL	\$ #
ADDITIONAL SYSTEM OUTLET WITH DUPLEX RECEPTACLE. REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-0"	\$ #
COMBINATION POWER AND DATA OUTLET LOCATION. REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-0"	\$ #
COMBINATION POWER AND DATA OUTLET LOCATION, GFCI DUPLEX RECEPTACLE. REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-0"	\$ #
OVERHEAD PROJECTOR - PROVIDE DUPLEX RECEPTACLE, ONE (1) HOME, 3 PHASE, AND VERTICAL WIRE OUTLET ON PLATES	CLG	\$ #
SPECIAL VIDEO SYSTEM SIGNAL INPUT		\$ #
SURFACE PLUG-MOLD		\$ #
SURFACE WIRE MOLD		\$ #
CENTRAL BATTERY INVERTER		\$ #
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE (ARROWS INDICATES) HOME RUN & OF CIRCUITS. HASHMARKS INDICATE # OF CONDUCTORS		\$ #
NON-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED	\$ #
MOMENTARY CONTACT SWITCH	40"	\$ #
HAND-OFF-AUTO 3 POSITION SWITCH	40"	\$ #
DISCONNECT SWITCH	5'-0"	\$ #
MAGNETIC STARTER	5'-0"	\$ #
MAGNETIC COMBINATION STARTER	5'-0"	\$ #
VARIABLE FREQUENCY DRIVE	5'-0"	\$ #
ENCLOSED FLUSH MTD. CIRCUIT BREAKER	5'-0"	\$ #
MUSHROOM SWITCH	40"	\$ #
PUSHBUTTON STATION WITH 1, 2, OR 3 BUTTONS	40"	\$ #
PANELBOARD, SURFACE OR FLUSH MOUNTED; HATCHING INDICATES EMERGENCY	6'-0" TO TOP	\$ #
TRANSFORMER	AS NOTED	\$ #
EQUIPMENT HARDWARE CONNECTION (SEE DETAIL)		\$ #
KITCHEN EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		\$ #
MOTOR CONNECTION; REFER TO EQUIPMENT CONNECTION SCHEDULE		\$ #
PLUMBING FIXTURE SOLENOID VALVE/ELECTRIC EYE SENSOR CONNECTION; COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER		\$ #
BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKSPLASH		\$ #
PLUMBING FIXTURE ELECTRIC EYE TRANSFORMER CONNECTION; TRANSFORMER SHALL BE 120V-240V, MOUNT ABOVE SUSPENDED ACCESSIBLE CEILING IN J-BOX, PROVIDE ADDITIONAL TRANSFORMERS OF SAME TYPE ASIF NEEDED		\$ #
PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL SPECIFICATIONS)	VERIFY WITH ARCHITECT	\$ #
ANALOG CLOCK, SINGLE FACE	SEE ABOVE	\$ #
SURGE PROTECTION DEVICE (SURFACE OR FLUSH MOUNTED)	\$ #	\$ #
GENERATOR ANNUNCIATOR PANEL (SURFACE OR FLUSH MOUNTED) - SEE SPECIFICATIONS	40"	\$ #
CONDUIT UP		\$ #
CONDUIT DOWN		\$ #
FLEXIBLE CONDUIT		\$ #
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	\$ #
BUS DUCT, AMPERAGES AS NOTED	AS SHOWN	\$ #
WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN	\$ #
TRENCH DUCT (SIZE AS NOTED)	AS SHOWN	\$ #
WIRE BASKET CABLE TRAY, SIZE AS NOTED	AS SHOWN	\$ #
LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN	\$ #
SOLID BOTTOM CABLE TRAY, SIZE AS NOTED	AS SHOWN	\$ #
J-HOOK PATHWAY		\$ #
EQUIPMENT TAG; REFER TO EQUIPMENT SCHEDULE		\$ #
MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)		\$ #
TAGGED NOTE		\$ #
REVISION TAG		\$ #
LINETYPE LEGEND		
_____	EXISTING	
-----	DEMOLISHED	
_____	NEW	

DESCRIPTION	MOUNTING HEIGHT	SYMBOL
ABBREVIATIONS		
UNLESS OTHERWISE NOTED		UON
OWNER FURNISHED CONTRACTOR INSTALLED		CFD
OWNER FURNISHED - OWNER INSTALLED		CFD
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFD
CONTRACTOR FURNISHED - OWNER INSTALLED		CFD
INDICATES EMERGENCY POWER		EM
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		EM
POLE MOUNTED AREA LIGHT WITH CONCRETE BASE		WP
WEATHER-PROOF - 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
SPECIAL OUTLETS		
FLOORBOX, AS SCHEDULED	FLOOR	\$ #
POKE-THRU, AS SCHEDULED	FLOOR	\$ #
WALLBOX, AS SCHEDULED	WALL	\$ #
ADDITIONAL SYSTEM OUTLET WITH DUPLEX RECEPTACLE. REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-0"	\$ #
COMBINATION POWER AND DATA OUTLET LOCATION. REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-0"	\$ #
COMBINATION POWER AND DATA OUTLET LOCATION, GFCI DUPLEX RECEPTACLE. REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-0"	\$ #
OVERHEAD PROJECTOR - PROVIDE DUPLEX RECEPTACLE, ONE (1) HOME, 3 PHASE, AND VERTICAL WIRE OUTLET ON PLATES	CLG	\$ #
SPECIAL VIDEO SYSTEM SIGNAL INPUT		\$ #
SURFACE PLUG-MOLD		\$ #
SURFACE WIRE MOLD		\$ #
CENTRAL BATTERY INVERTER		\$ #
TELEVISION		
TELEVISION HEADEND (SPLITTER/AMPLIFIERS/DISTRIBUTION)	40"	\$ #
TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE. COORDINATE LOCATION WITH WALL BRACKET WHERE APPLICABLE	7'-0"	\$ #
OVERHEAD PAGING		
PAGING SPEAKER, CEILING	CLG	\$ #
PAGING SPEAKER W/ VOLUME CONTROL	CLG	\$ #
PAGING SPEAKER, WALL	8'-0"	\$ #
RECESSED WALL MOUNTED PAGING SPEAKER, DUKANE SA006 SPEAKER, ATLAS 417-80D	8'-0"	\$ #
VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER, QUAM VP	SEE FLOOR PLANS	\$ #
EXTERIOR VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER, SHALL BE PAINTED COLOR SELECTED BY ARCHITECT/OWNER, QUAM VP	SEE FLOOR PLANS	\$ #
WALL MOUNTED PAGING HORN	9'-0"	\$ #
CALL INITIATION STATION	40"	\$ #
WALL VOLUME CONTROL	40"	\$ #
PAGING MICROPHONE	1'-0"	\$ #
PANIC BUTTON (MOUNTING PER DRAWINGS)	40" UNDER DESK	\$ #
NOTIFICATION LIGHT (MOUNTING PER DRAWINGS)	7'-0" CLG	\$ #
LCD WALL DISPLAY	\$ #	\$ #
PAGING SYSTEM HEADEND	40"	\$ #
CLOCKS		
TYPICAL CLOCK MOUNTING HEIGHTS: FOR CEILING HEIGHTS < 9'-0" MOUNT CENTER OF BACKBOX AT 9'-0" BELOW CEILING. FOR CEILING HEIGHTS >= 9'-0" MOUNT CENTER OF BACKBOX AT 9'-0" AFF.		\$ #
ANALOG CLOCK, SINGLE FACE	SEE ABOVE	\$ #



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

BASEMENT ELECTRICAL DEMOLITION - AREA A

CLIENT JOB #:	NKU-28-2021
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REVISIONS

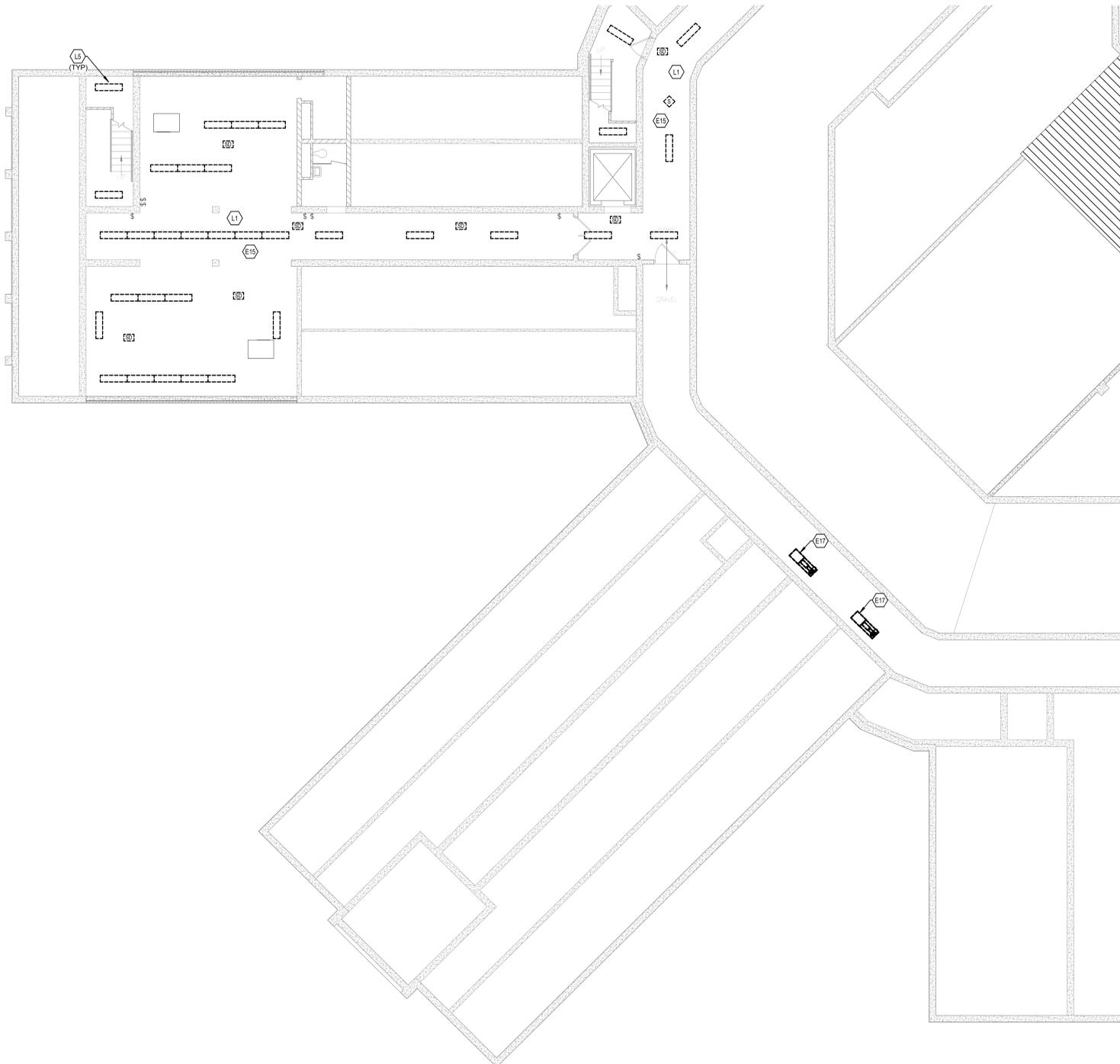
E2.0A

ELECTRICAL DEMOLITION NOTES

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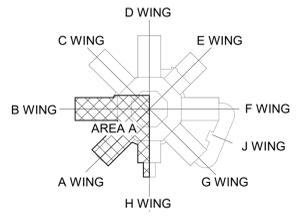
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- E17 DEMOLISH EXISTING PUMP AND ALL FEEDERS AND CONDUIT BACK TO PANEL HDP-2. REFER TO SHEET E3.0 FOR HDP-2 LOCATION.
- L1 DEMOLISH ALL LIGHT FIXTURES IN THIS AREA AND MAINTAIN CIRCUITS FOR NEW FIXTURE RECONNECTIONS.
- L5 LIGHT FIXTURES IN STAIRWELLS TO BE DEMOLISHED IF ALTERNATE #2 IS ACCEPTED.



1 BASEMENT ELECTRICAL DEMOLITION PLAN - AREA A



KEYPLAN



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CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

BASEMENT ELECTRICAL DEMOLITION - AREA B

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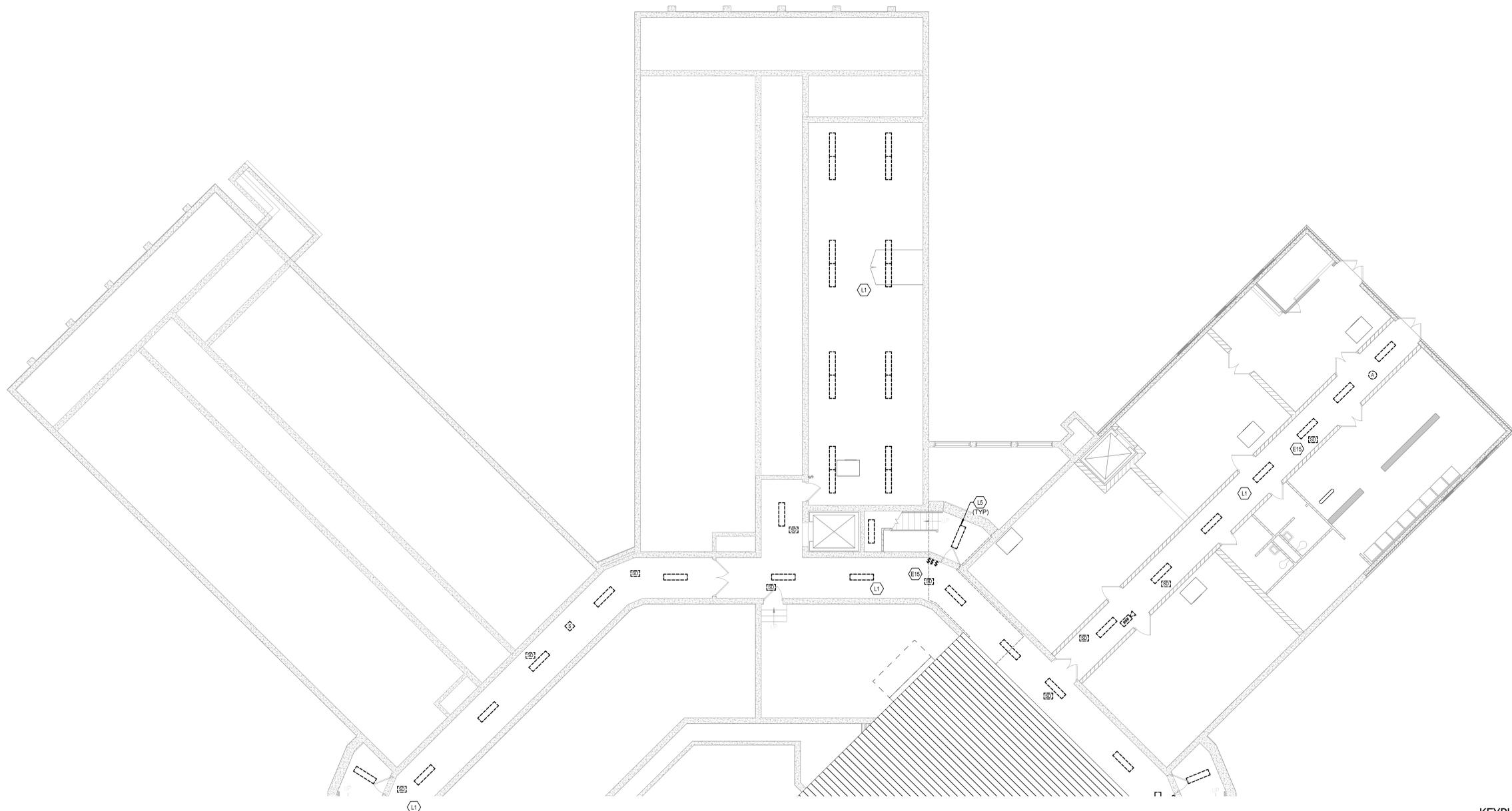
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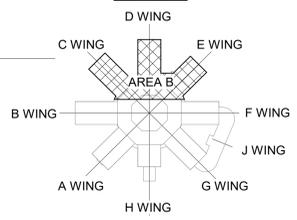
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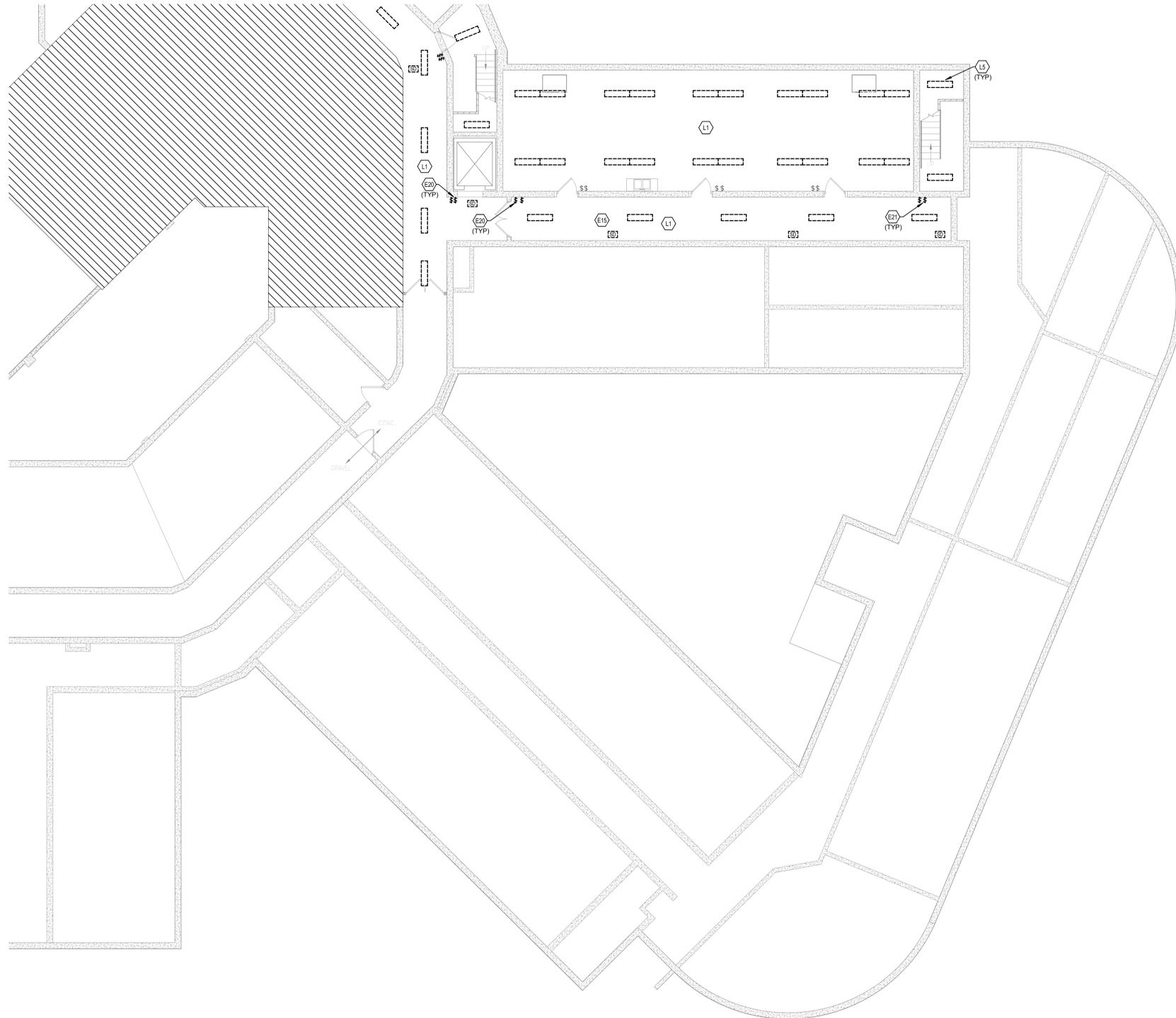


1 BASEMENT ELECTRICAL DEMOLITION PLAN - AREA B



KEYPLAN





ELECTRICAL DEMOLITION NOTES

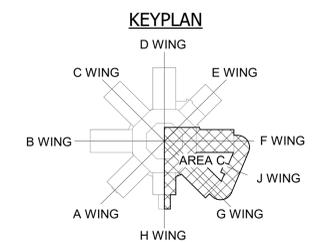
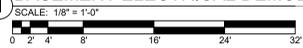
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- E20 DEMO CORRIDOR LIGHT SWITCH AND REPLACE WITH KEYED SWITCH USING EXISTING BOX AND CONDUIT IN WALL.
- E21 SWITCH AT THE END OF THE CORRIDOR WILL BE DEMOLISHED AND A COVER PLACED OVER THE BOX.
- L1 DEMOLISH ALL LIGHT FIXTURES IN THIS AREA AND MAINTAIN CIRCUITS FOR NEW FIXTURE RECONNECTIONS.
- L5 LIGHT FIXTURES IN STAIRWELLS TO BE DEMOLISHED IF ALTERNATE #2 IS ACCEPTED.



1 BASEMENT ELECTRICAL DEMOLITION PLAN - AREA C



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

BASEMENT ELECTRICAL DEMOLITION - AREA C

CLIENT JOB #:	NKU-28-2021
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REVISIONS

E2.0C

ALL LIGHTING AND LIGHTING CONTROLS REPLACEMENT WORK SHOWN ON THIS SHEET SHALL BE INCORPORATED INTO ALTERNATE #2

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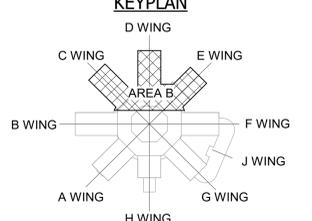
- E1 DISCONNECT AND DEMOLISH EXISTING CEILING MOUNTED RECEPTACLE. DISCONNECT AND MAINTAIN EXISTING CIRCUITRY FOR FUTURE USE.
- E3 DEDICATED TELEVISION SURFACE MOUNTED RECEPTACLE. MOUNT RECEPTACLE 3" BELOW FINISHED CEILING.
- E15 REMOVE ANY CEILING DEVICES (SMOKE DETECTORS, DAS ANTENNAS, CAMERAS, LIGHT FIXTURES ETC.) THAT WILL NEED TO BE REMOVED FOR PIPE DEMOLITION AND MAINTAIN FOR REINSTALLATION IN SAME LOCATION.
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- E21 SWITCH AT THE END OF THE CORRIDOR WILL BE DEMOLISHED AND A COVER PLACED OVER THE BOX.
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1 FIRST FLOOR ELECTRICAL DEMOLITION PLAN - ALTERNATE #2 - AREA B



KEYPLAN



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

FIRST FLOOR ELECTRICAL DEMOLITION - ALTERNATE #2 - AREA B

CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	ILA
CHECKED:	GMB

REVISIONS

E2.1B

ALL LIGHTING AND LIGHTING CONTROLS REPLACEMENT WORK SHOWN ON THIS SHEET SHALL BE INCORPORATED INTO ALTERNATE #2



ELECTRICAL DEMOLITION NOTES

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- C LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
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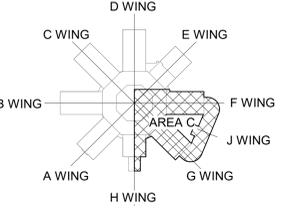
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1 FIRST FLOOR ELECTRICAL DEMOLITION PLAN - ALTERNATE #2 - AREA C



KEYPLAN



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

NORTHERN KENTUCKY UNIVERSITY
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FIRST FLOOR ELECTRICAL DEMOLITION - ALTERNATE #2 - AREA C

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CHECKED:	GMB

REVISIONS

E2.1C

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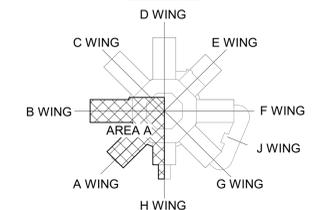
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1 SECOND FLOOR ELECTRICAL DEMOLITION PLAN - ALTERNATE #2 - AREA A



KEYPLAN



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

SECOND FLOOR ELECTRICAL DEMOLITION - ALTERNATE #2 - AREA A

CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
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CHECKED:	GMB

REVISIONS

E2.2A

DATE PLOTTED: 02/26/2021 10:00:00 AM

ALL LIGHTING AND LIGHTING CONTROLS REPLACEMENT WORK SHOWN ON THIS SHEET SHALL BE INCORPORATED INTO ALTERNATE #2

ELECTRICAL DEMOLITION NOTES

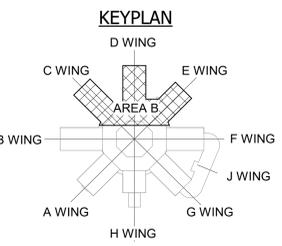
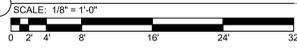
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1 SECOND FLOOR ELECTRICAL DEMOLITION PLAN - ALTERNATE #2 - AREA B



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

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SECOND FLOOR ELECTRICAL DEMOLITION - ALTERNATE #2 - AREA B

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REVISIONS

E2.2B

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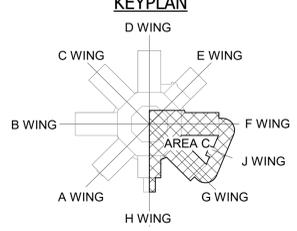
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1 SECOND FLOOR ELECTRICAL DEMOLITION PLAN - ALTERNATE #2 - AREA C



KEYPLAN



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

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SECOND FLOOR ELECTRICAL DEMOLITION - ALTERNATE #2 - AREA C

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REVISIONS

E2.2C

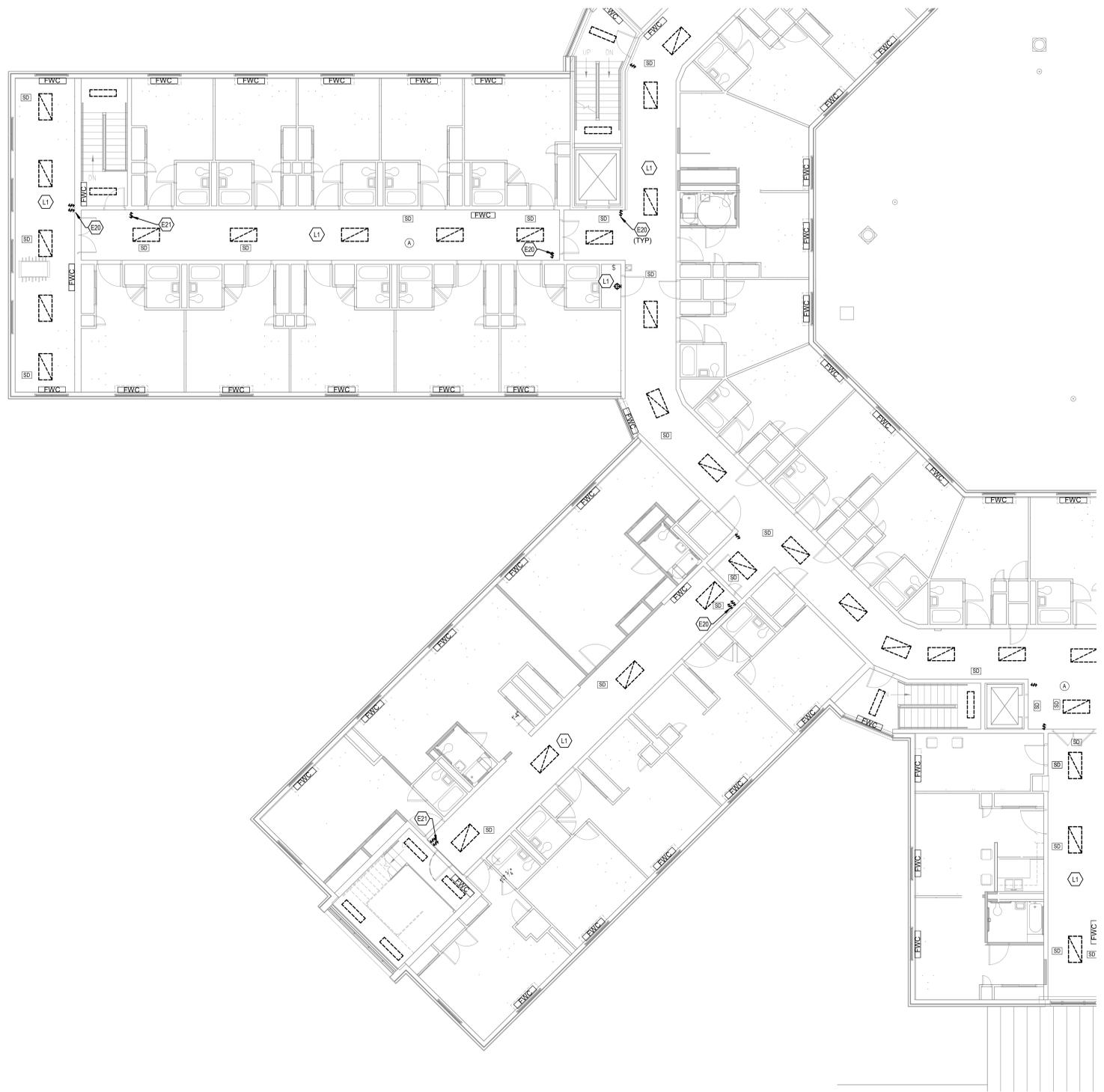
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ELECTRICAL DEMOLITION NOTES

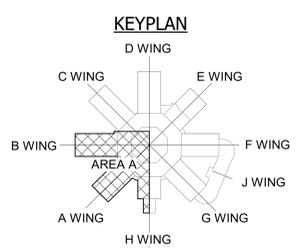
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- L DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED, REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
- M ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.
- N CONTRACTOR TO VERIFY THAT THERE ARE NO ELECTRICAL CIRCUITS IN CHASES BEING REMOVED UNDER DEMOLITION WHICH REMAIN IN SERVICE AND CANNOT BE REMOVED. SHOULD SUCH CIRCUITS BE ENCOUNTERED, THE CONTRACTOR IS TO REROUTE AND RECONNECT AS REQUIRED TO MAINTAIN SERVICE.

TAGGED NOTES

- E20 DEMO CORRIDOR LIGHT SWITCH AND REPLACE WITH KEYED SWITCH USING EXISTING BOX AND CONDUIT IN WALL.
- E21 SWITCH AT THE END OF THE CORRIDOR WILL BE DEMOLISHED AND A COVER PLACED OVER THE BOX.
- L1 DEMOLISH ALL LIGHT FIXTURES IN THIS AREA AND MAINTAIN CIRCUITS FOR NEW FIXTURE RECONNECTIONS.



1 THIRD FLOOR ELECTRICAL DEMOLITION PLAN - ALTERNATE #2 - AREA A
SCALE: 1/8" = 1'-0"



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

THIRD FLOOR ELECTRICAL DEMOLITION - ALTERNATE #2 - AREA A

CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	ILA
CHECKED:	GMB

REVISIONS

E2.3A

ALL LIGHTING AND LIGHTING CONTROLS REPLACEMENT WORK SHOWN ON THIS SHEET SHALL BE INCORPORATED INTO ALTERNATE #2



ELECTRICAL DEMOLITION NOTES

- A DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND SOLID HALFTONE LINES INDICATE EXISTING ITEMS TO REMAIN.
- B THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
- C LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
- D REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- E COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- F COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- G PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- H CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- I UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- J EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
- K CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
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TAGGED NOTES

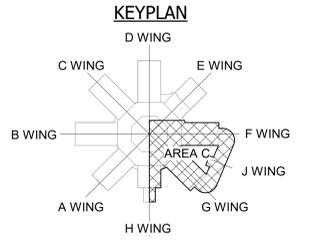
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- E21 SWITCH AT THE END OF THE CORRIDOR WILL BE DEMOLISHED AND A COVER PLACED OVER THE BOX.
- L1 DEMOLISH ALL LIGHT FIXTURES IN THIS AREA AND MAINTAIN CIRCUITS FOR NEW FIXTURE RECONNECTIONS.



1 THIRD FLOOR ELECTRICAL DEMOLITION PLAN - ALTERNATE #2 - AREA C



KEYPLAN



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

THIRD FLOOR ELECTRICAL DEMOLITION - ALTERNATE #2 - AREA C

CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	ILA
CHECKED:	GMB

REVISIONS

E2.3C

ELEC - LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	BASIS OF DESIGN	LAMPS / CCT	MINIMUM LUMENS	MOUNTING	MAXIMUM WATTAGE	VOLTAGE	REMARKS
A	2X4 LED TROFFER	LITHONIA 2BLT4-40LHE-ADP-LP835	LED/3500K	4000	RECESSED	29	120	
B	2X2 LED TROFFER	LITHONIA CPX-2X2-3200LM-35K	LED/3500K	3200	RECESSED	32	120	
C	1'X4' LED PANEL	LITHONIA CPANL-1X4-24/33/44LM-35K-M4-1X45MKSH	LED/3500K	4400	SURFACE	39	120	
F	4' LED INDUSTRIAL STRIP	LITHONIA ZLTD-448-5000LM-FST-MVOLT-35K-80CRI	LED/3500K	5000	PENDANT	41	120	
V	VAPOR TIGHT JELLY JAR	LITHONIA OLV7WM	LED/4000K	600	SURFACE	15	120	

ELECTRICAL LIGHTING NOTES

- A REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C. #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.
- E LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
- F LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.
- G ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
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- I CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

TAGGED NOTES

- E16 REINSTALL ALL DEMOLISHED NON-LIGHTING CEILING DEVICES (SMOKE DETECTORS, DAS ANTENNAS, CAMERAS, ETC.) IN THE SAME LOCATION WITH THE SAME CIRCUIT AS EXISTING. REFER TO DEMOLITION PLAN FOR LOCATION.
- E20 DEMO CORRIDOR LIGHT SWITCH AND REPLACE WITH KEYED SWITCH USING EXISTING BOX AND CONDUIT IN WALL.
- L2 CONNECT NEW FIXTURES IN THIS AREA TO EXISTING CIRCUITS AND CONTROLS.
- L4 NEW LIGHT FIXTURES ADDED IN STAIRWELLS SHALL BE PART OF ALTERNATE #2.



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

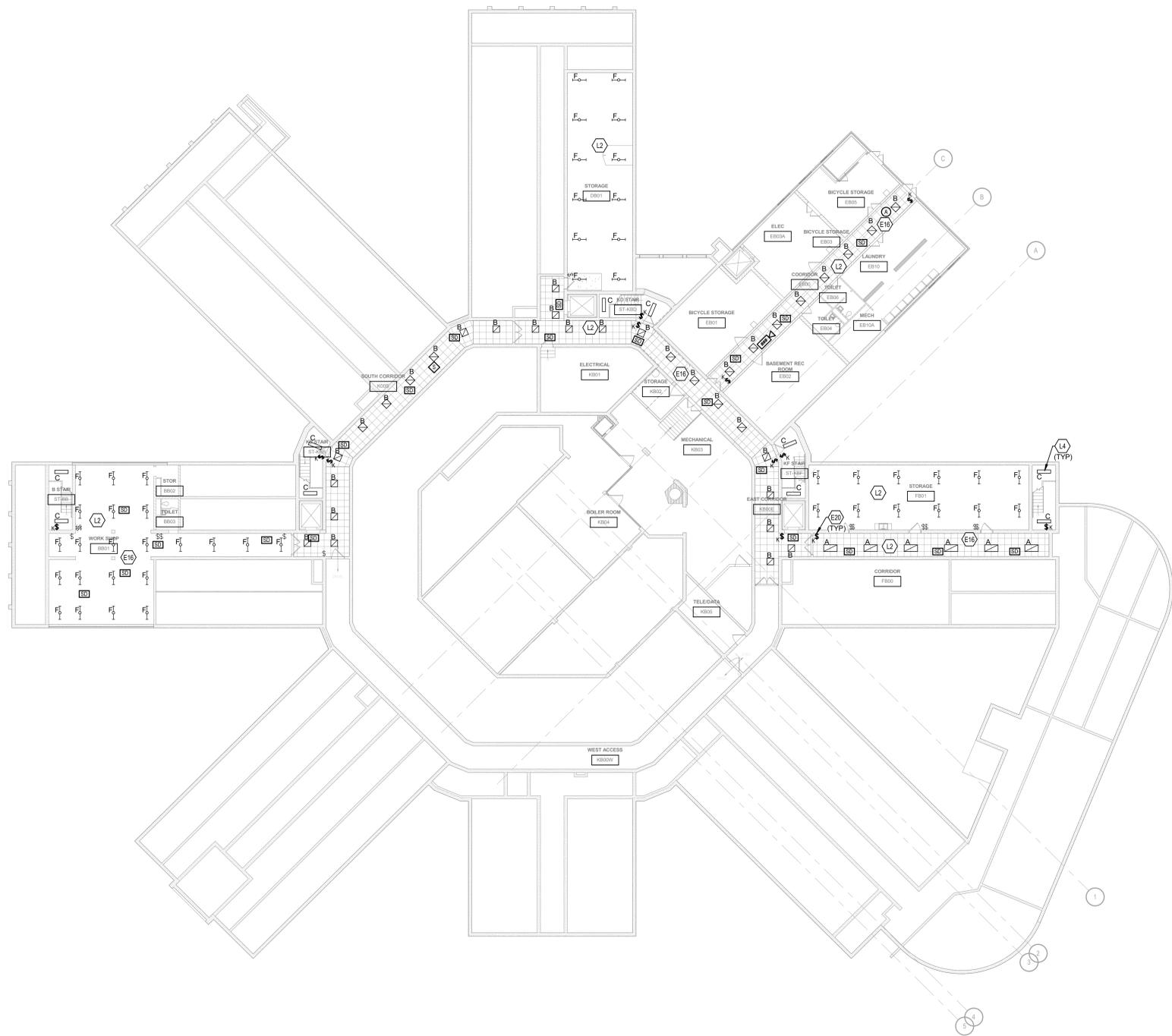
NORTHERN KENTUCKY UNIVERSITY
3510 Alexandria Pike, Highland Heights, KY 41076

BASEMENT - ELECTRICAL CEILING PLAN

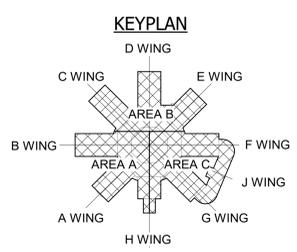
CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	ILA
CHECKED:	GMB

REVISIONS

E4.0



1 BASEMENT - LIGHTING PLAN
SCALE: 1/16" = 1'-0"
0 4 8 16 32 48 64



C:\Users\gmb\Documents\2020\28020\28020.dwg

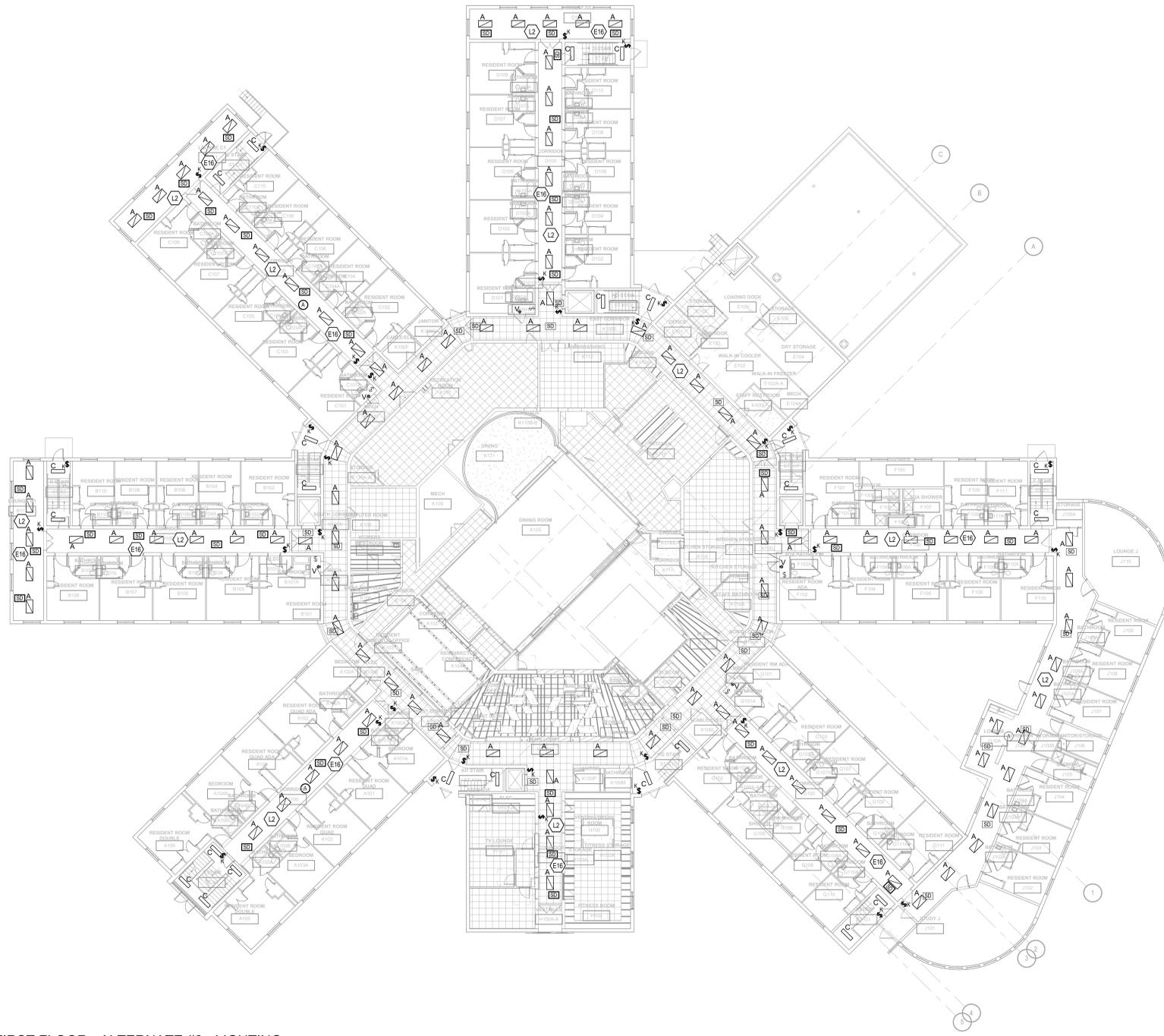
ALL LIGHTING AND LIGHTING CONTROLS REPLACEMENT WORK SHOWN ON THIS SHEET SHALL BE INCORPORATED INTO ALTERNATE #2

ELECTRICAL LIGHTING NOTES

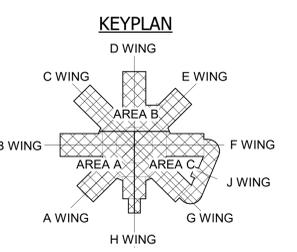
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- L2 CONNECT NEW FIXTURES IN THIS AREA TO EXISTING CIRCUITS AND CONTROLS.



FIRST FLOOR - ALTERNATE #2 - LIGHTING PLAN
 SCALE: 1/16" = 1'-0"
 0 4 8 16 32 48 64



Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

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 3510 Alexandria Pike, Highland Heights, KY 41076

FIRST FLOOR - ALTERNATE #2 - ELECTRICAL CEILING PLAN

CLIENT JOB #:	NKU-28-2021
DATE:	02/26/2021
DRAWN:	ILA
CHECKED:	GMB

REVISIONS

E4.1

ALL LIGHTING AND LIGHTING CONTROLS REPLACEMENT WORK SHOWN ON THIS SHEET SHALL BE INCORPORATED INTO ALTERNATE #2

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Construction Documents



CALLAHAN RESIDENCE HALL RENOVATION/PIPING REPLACEMENT

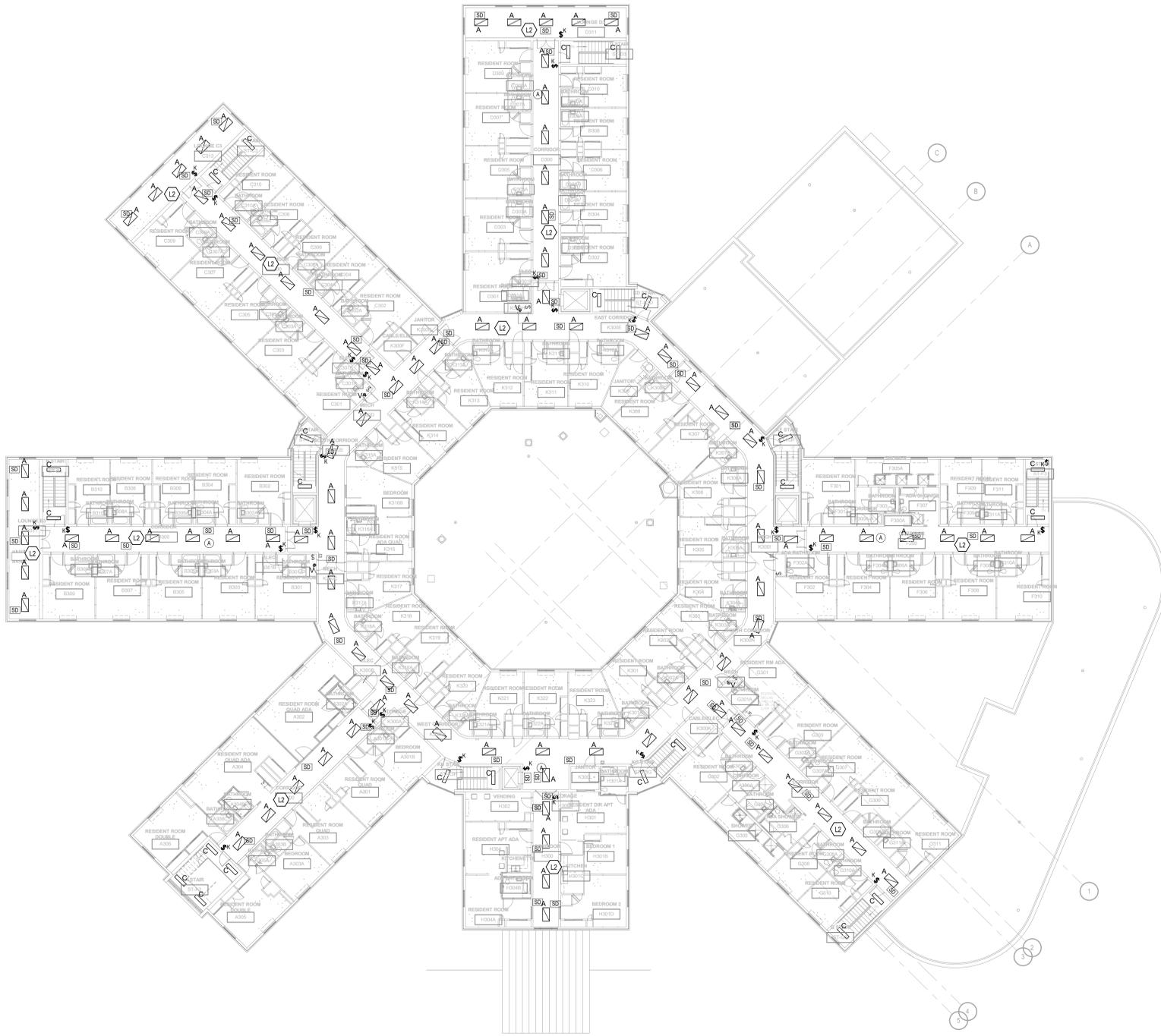
NORTHERN KENTUCKY UNIVERSITY
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THIRD FLOOR - ALTERNATE #2 - ELECTRICAL CEILING PLAN

CLIENT JOB #:	NKU-28-2021
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REVISIONS

E4.3



THIRD FLOOR - ALTERNATE #2 - LIGHTING PLAN

