COMMONWEALTH HALL RENOVATIONS

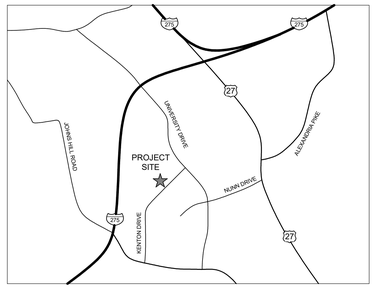
Nunn Drive | Highland Heights, Kentucky 41099

SHP

SHP LEADING DESIGN - ARCHITECT
312 Plum Street, Suite 700, Cincinnati, OH 45212
PHONE: (513) 381-2112 FAX: (513) 381-5121

GOP LIMITED - STRUCTURAL ENGINEER
644 Linn Street, Suite 936, Cincinnati, OH 45203-1738
PHONE: (513) 621-7073 FAX: (513) 621-0434

CMTA CONSULTING ENGINEERS - PME ENGINEER
855 Grandview Ave., Columbus, OH 43215
PHONE: (614) 443-1178 FAX: (614) 443-1594



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VICINITY MAP
NTS

SHEET INDEX

ALTERNATES

ALTERNATE 1: PROVIDE ALL LABOR MATERIAL AND EQUIPMENT TO INSTALL OWNER PREFERRED HVAC VRF EQUIPMENT MANUFACTURER DAIKIN IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. REFER TO SPECIFICATION SECTION 230200 HVAC EQUIPMENT.

UNIT PRICES

UNIT PRICE 1: PROVIDE MATERIAL AND LABOR UNIT PRICE FOR REPLACING ONE DUPLEX RECEPTACLE WITH A DUPLEX + 2 USB (MINIMUM 3A CHARGING AMPERAGE) IN THE BEDROOM UNITS

UNIT PRICE 2: PROVIDE UNIT PRICE FOR REPLAING STANDARD WATER COOLER WITH WATER COOLER THAT HAS INTEGRAL BOTTLE FILLER.

ALLOWANCES

ALLOWANCE 1: INCLUDE AN ALLOWANCE OF $25,000 IN YOUR BID TO ADDRESS PATCHING/REPLACEMENT OF FLOOR FINISHES.

GENERAL

G000	TITLE SHEET
G001	CODE DATA - LOWER LEVEL AND FIRST FLOOR
G002	CODE DATA - SECOND AND THIRD FLOORS

DEMOLITION

D101	OVERALL FIRST AND SECOND FLOOR DEMO PLANS
D102	OVERALL SECOND AND THIRD FLOOR DEMO PLANS
D150	ENLARGED DEMO PLANS

ARCHITECTURAL

A020	DOOR FRAME OPENING TYPES
A051	OVERALL FIRST AND SECOND FLOOR PLANS
A052	OVERALL SECOND AND THIRD FLOOR PLANS
A053	OVERALL ROOF PLAN
A101	FLOOR PLANS
A150	ENLARGED TOILET ROOM PLANS
A401	REFLECTED CEILING PLANS
A601	INTERIOR FINISH PLANS AND ELEVATIONS

STRUCTURAL

S000	GENERAL NOTES, DESIGN LOADS & ABBREVIATIONS
S101	OVERALL LOWER LEVEL & FIRST FLOOR DEMO PLANS
S102	OVERALL SECOND & THIRD FLOOR DEMO PLANS
S201	OVERALL LOWER LEVEL & FIRST FLOOR PLANS
S202	OVERALL SECOND & THIRD FLOOR PLANS
S250	ENLARGED FLOOR PLANS & HEADER SCHEDULES
S251	TYPICAL DETAILS & SECTIONS

FIRE PROTECTION

FP301	FIRST FLOOR PLAN - FIRE PROTECTION
FP302	SECOND FLOOR PLAN - FIRE PROTECTION
FP303	THIRD FLOOR PLAN - FIRE PROTECTION

PLUMBING

P100	PLUMBING LEGEND, SCHEDULES AND DETAILS
P200	LOWER LEVEL FLOOR PLAN - PLUMBING DEMOLITION
P201	FIRST FLOOR PLAN - PLUMBING DEMOLITION
P202	SECOND FLOOR PLAN - PLUMBING DEMOLITION
P203	THIRD FLOOR PLAN - PLUMBING DEMOLITION
P300	LOWER LEVEL FLOOR PLAN - PLUMBING
P301	FIRST FLOOR PLAN - PLUMBING
P302	SECOND FLOOR PLAN - PLUMBING
P303	THIRD FLOOR PLAN - PLUMBING
P400	PLUMBING RISERS

MECHANICAL

M100	MECHANICAL LEGEND
M200	LOWER LEVEL PLAN - HVAC DEMOLITION
M201	FIRST FLOOR PLAN - HVAC DEMOLITION
M202	SECOND FLOOR PLAN - HVAC DEMOLITION
M203	THIRD FLOOR PLAN - HVAC DEMOLITION
M300	LOWER LEVEL PLAN - HVAC
M301	FIRST FLOOR PLAN - HVAC
M302	SECOND FLOOR PLAN - HVAC
M303	THIRD FLOOR PLAN - HVAC
M304	ATTIC PLAN - HVAC
M400	PIPING SCHEMATICS
M401	PIPING SCHEMATICS
M500	MECHANICAL DETAILS
M600	MECHANICAL SCHEDULES

ELECTRICAL

E100	ELECTRICAL LEGEND
E201	FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
E202	SECOND FLOOR PLAN - ELECTRICAL DEMOLITION
E203	THIRD FLOOR PLAN - ELECTRICAL DEMOLITION
E301	FIRST FLOOR PLAN - LIGHTING
E302	SECOND FLOOR PLAN - LIGHTING
E303	THIRD FLOOR PLAN - LIGHTING
E401	FIRST FLOOR PLAN - POWER/SYSTEMS
E402	SECOND FLOOR PLAN - POWER/SYSTEMS
E403	THIRD FLOOR PLAN - POWER/SYSTEMS
E404	ATTIC PLAN - POWER/SYSTEMS

"0.1" REFERENCE LINE"

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ISSUANCES

	10-19-18	PERMIT/BID SET

TITLE SHEET

DATE 10/19/18

COMM NO. 2018066.01

G000

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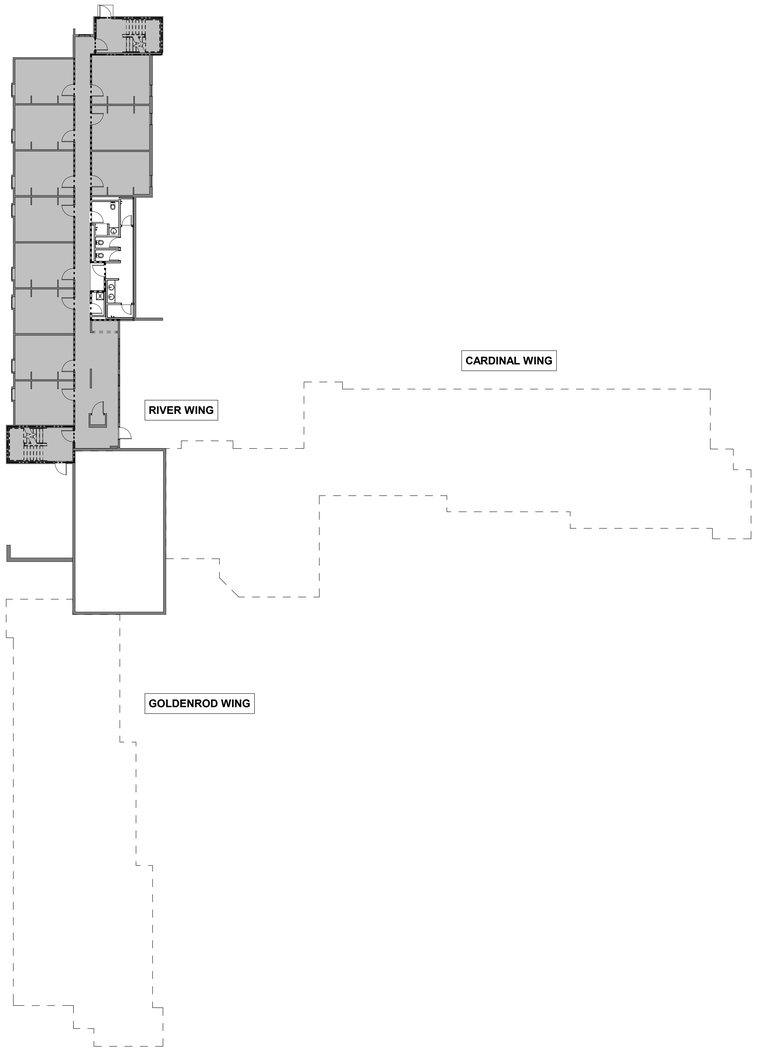
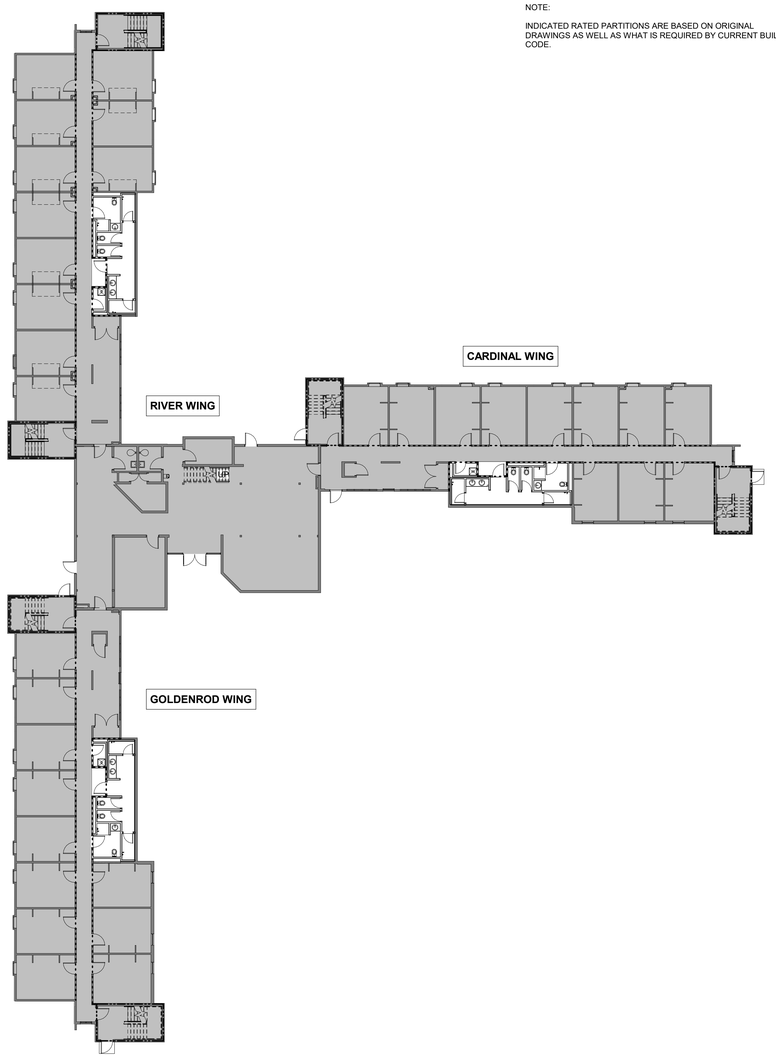


1 G001 LOWER LEVEL CODE PLAN
1/16" = 1'-0"

N



2 G001 FIRST FLOOR CODE PLAN
1/16" = 1'-0"

N

NOTE:

INDICATED RATED PARTITIONS ARE BASED ON ORIGINAL DRAWINGS AS WELL AS WHAT IS REQUIRED BY CURRENT BUILDING CODE.

CODE DATA KEY

250 — EXIT CAPACITY
50 — ACTUAL LOAD THRU EXIT

42 — LIFE SAFETY DESIGN OCCUPANT LOAD PER O.B.C. TABLE 1004.1.1. OR MAXIMUM ANTICIPATED OCCUPANT LOAD
27 — DESIGN OCCUPANT LOAD - BASED ON ACTUAL OCCUPANTS IN EACH ROOM OR SPACE USED TO DETERMINE PLUMBING FIXTURE REQUIREMENTS AND HVAC LOADS.

30 MINUTE FIRE RATED PARTITION

1-HOUR FIRE RATED PARTITION

2-HOUR FIRE RATED PARTITION

CEILING RATING EQUAL TO BOUNDING WALL RATING TO CREATE CONTINUOUS RATED ENCLOSURE - WHERE WALLS DO NOT EXTEND TO DECK.

PROJECT SUMMARY

AUTHORITIES HAVING JURISDICTION: PERMITTING: STATE OF KENTUCKY

APPLICABLE CODES: 2013 KENTUCKY BUILDING CODE (KBC) INCLUDING KENTUCKY AMENDMENTS, 4TH EDITION, 2017

USE GROUP: EXISTING: R2
NEW CONSTRUCTION: R2

EXISTING BUILDING AREAS:
LOWER LEVEL = 3,591 SF
GROUND FLOOR = 13,082 SF
SECOND FLOOR = 11,383 SF
THIRD FLOOR = 7,165 SF

EXISTING BUILDING HEIGHT: THREE STORY

EXISTING BUILDING IS SPRINKLERED

THE PROJECT CONSISTS OF A REPLACEMENT OF THE HVAC SYSTEM, REPAIRS TO THE SPRINKLER SYSTEM, AND RESTROOM RENOVATIONS.

THE ALTERATION DOES NOT INCLUDE A CHANGE IN OCCUPANCY.

BUILDING CONSTRUCTION TYPE: 5B
STRUCTURE IS PRIMARILY A WOOD FRAME WITH EXTERIOR INSULATING FINISHING SYSTEM AND WOOD FRAMED INTERIOR PARTITIONS. THE ROOF STRUCTURE IS WOOD FRAMED TRUSSES.

OBC INTERIOR FINISHES (OBC TABLE 803.9):
MINIMUM INTERIOR WALL AND CEILING FINISHES SHALL BE:
EXIT ENCLOSURES AND EXIT PASSAGEWAYS: CLASS C OR BETTER
CORRIDORS: CLASS C OR BETTER
ROOMS AND ENCLOSED SPACES: CLASS C OR BETTER
RATED WALLS: CLASS C

BUILDING CODE USED: FIXTURES REQUIRED PER 815 KAR 20:191 - SECTION 12: DORMITORIES, SCHOOL, LABOR, OR INSTITUTIONAL

USE GROUP: R-2 (RESIDENTIAL)

BUILDING OCCUPANTS: 4 STAFF/ 198 STUDENTS
NOTE: EACH FLOOR OF EACH WING IS EITHER ENTIRELY MALE OR ENTIRELY FEMALE. CALCULATIONS BELOW ARE FOR ONE ENTIRELY MALE FLOOR AND AN ENTIRELY FEMALE FLOOR

PLUMBING FIXTURE SUMMARY: RESIDENCE WINGS + COMMONS

	REQUIRED	EXISTING	PROPOSED
TOTAL WC	20	29	29
TOTAL LAV	20	29	29
SHOWERS	27	27	27
DRINKING FOUNTAIN	10	10	18
CLOTHES WASHER*	9	12	EXIST.
SERVICE SINK	9	9	9

FIXTURE COUNT FOR A 22 STUDENT MALE FLOOR IN A TYPICAL WING

	REQUIRED	EXISTING	PROPOSED
MALE WC	2	2	3
MALE URINAL	1	0	0
MALE LAV	2	3	4
SHOWERS	3	3	3
DRINKING FOUNTAIN	1	1	1
CLOTHES WASHER*	1	12*	EXIST.
SERVICE SINK	1	1	1

FIXTURE COUNT FOR A 22 STUDENT FEMALE FLOOR IN A TYPICAL WING

	REQUIRED	EXISTING	PROPOSED
FEMALE WC	2	2	3
FEMALE LAV	2	3	4
SHOWERS	3	3	3
DRINKING FOUNTAIN	1	1	1
CLOTHES WASHER*	1	12*	EXIST.
SERVICE SINK	1	1	1

COMMONS FIXTURE COUNT

	REQUIRED	EXISTING	PROPOSED
FEMALE WC	1	1	1
FEMALE LAV	1	1	1
MALE WC	1	1	1
MALE LAV	1	1	1
DRINKING FOUNTAIN	1	1	1

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ISSUANCES

10-19-18	PERMIT/BID SET

CODE DATA - LOWER LEVEL AND FIRST FLOOR

DATE 10/19/18

COMM NO. 2018066.01

G001

0'-1" REFERENCE LINE

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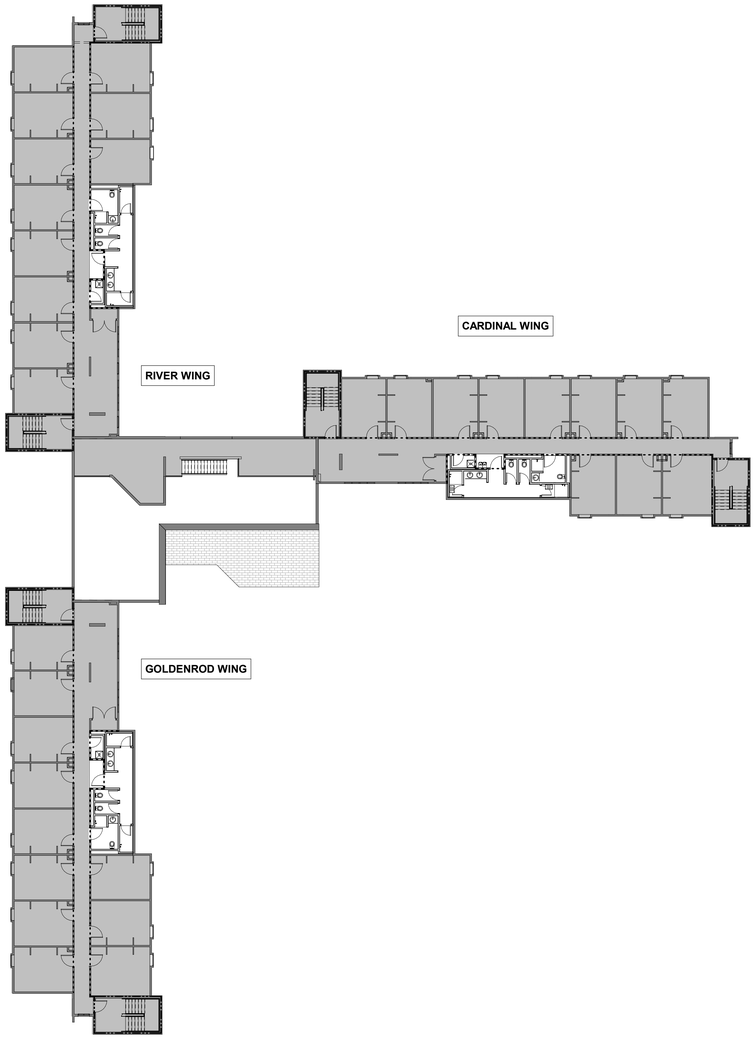
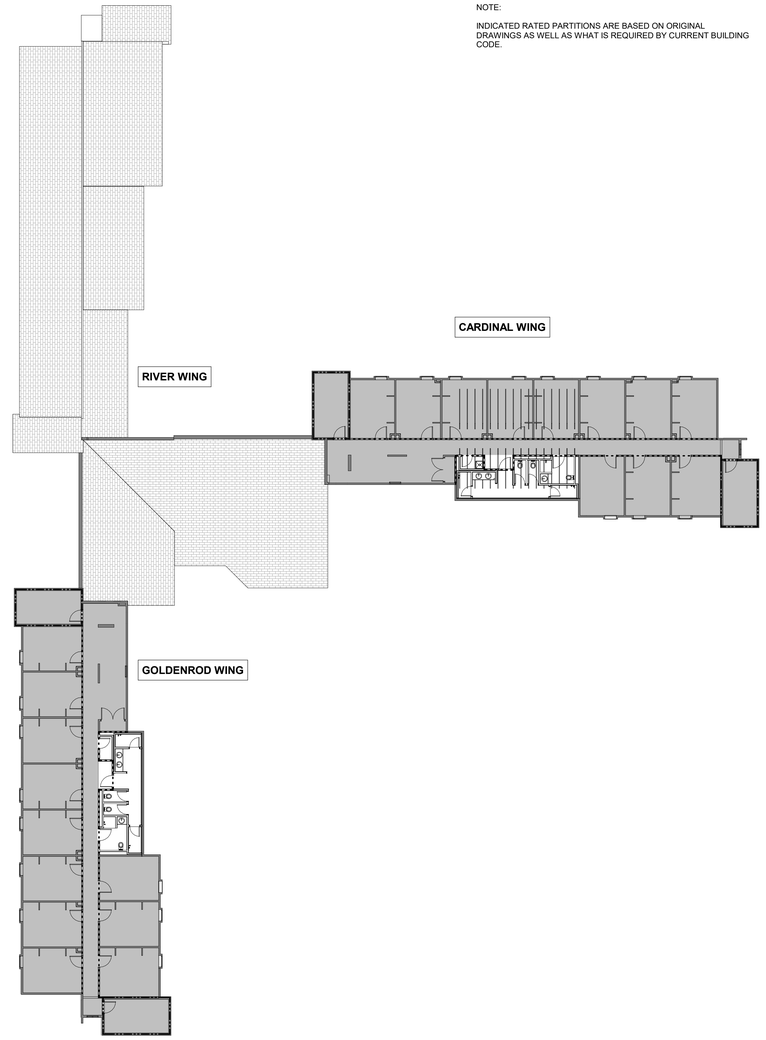


1 G002 SECOND FLOOR CODE PLAN
1/16" = 1'-0"

N

NOTE:

INDICATED RATED PARTITIONS ARE BASED ON ORIGINAL DRAWINGS AS WELL AS WHAT IS REQUIRED BY CURRENT BUILDING CODE.



2 G002 THIRD FLOOR CODE PLAN
1/16" = 1'-0"

N

CODE DATA KEY

250 / 50 — EXIT CAPACITY / ACTUAL LOAD THRU EXIT

42 — LIFE SAFETY DESIGN OCCUPANT LOAD PER O.B.C. TABLE 1004.1.1. OR MAXIMUM ANTICIPATED OCCUPANT LOAD

27 — DESIGN OCCUPANT LOAD - BASED ON ACTUAL OCCUPANTS IN EACH ROOM OR SPACE USED TO DETERMINE PLUMBING FIXTURE REQUIREMENTS AND HVAC LOADS.

30 MINUTE FIRE RATED PARTITION

1-HOUR FIRE RATED PARTITION

2-HOUR FIRE RATED PARTITION

CEILING RATING EQUAL TO BOUNDING WALL RATING TO CREATE CONTINUOUS RATED ENCLOSURE - WHERE WALLS DO NOT EXTEND TO DECK.

BUILDING CODE USED: FIXTURES REQUIRED PER 815 KAR 20:191 - SECTION 12: DORMITORIES, SCHOOL, LABOR, OR INSTITUTIONAL

USE GROUP: R-2 (RESIDENTIAL)

BUILDING OCCUPANTS: 4 STAFF/ 198 STUDENTS

NOTE: EACH FLOOR OF EACH WING IS EITHER ENTIRELY MALE OR ENTIRELY FEMALE. CALCULATIONS BELOW ARE FOR ONE ENTIRELY MALE FLOOR AND AN ENTIRELY FEMALE FLOOR

PLUMBING FIXTURE SUMMARY: RESIDENCE WINGS + COMMONS

	REQUIRED	EXISTING	PROPOSED
TOTAL WC	20	29	29
TOTAL LAV	20	29	29
SHOWERS	27	27	27
DRINKING FOUNTAIN	10	10	18
CLOTHES WASHER*	9	12	EXIST.
SERVICE SINK	9	9	9

FIXTURE COUNT FOR A 22 STUDENT MALE FLOOR IN A TYPICAL WING

	REQUIRED	EXISTING	PROPOSED
MALE WC	2	2	3
MALE URINAL	1	0	0
MALE LAV	2	3	4
SHOWERS	3	3	3
DRINKING FOUNTAIN	1	1	1
CLOTHES WASHER*	1	12*	EXIST.
SERVICE SINK	1	1	1

FIXTURE COUNT FOR A 22 STUDENT FEMALE FLOOR IN A TYPICAL WING

	REQUIRED	EXISTING	PROPOSED
FEMALE WC	2	2	3
FEMALE LAV	2	3	4
SHOWERS	3	3	3
DRINKING FOUNTAIN	1	1	1
CLOTHES WASHER*	1	12*	EXIST.
SERVICE SINK	1	1	1

COMMONS FIXTURE COUNT

	REQUIRED	EXISTING	PROPOSED
FEMALE WC	1	1	1
FEMALE LAV	1	1	1
MALE WC	1	1	1
MALE LAV	1	1	1
DRINKING FOUNTAIN	1	1	1

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ISSUANCES

	10-19-18	PERMIT/BID SET

CODE DATA - SECOND AND THIRD FLOORS

DATE 10/19/18

COMM NO. 2018066.01

G002

0'-1" REFERENCE LINE

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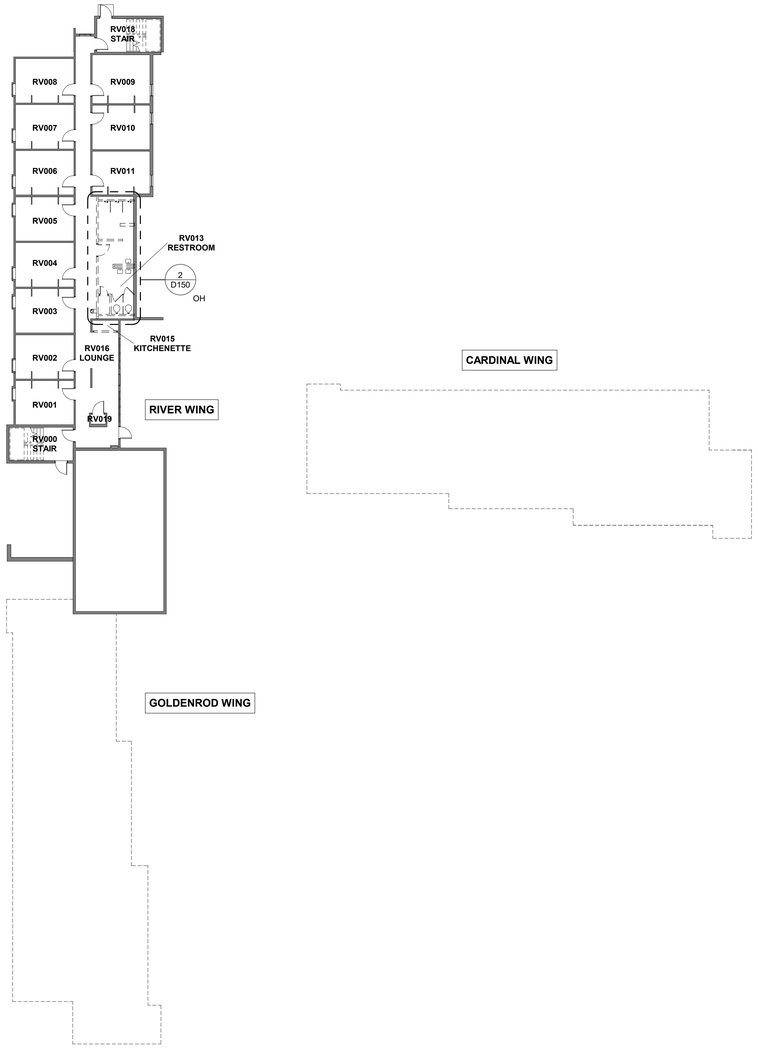
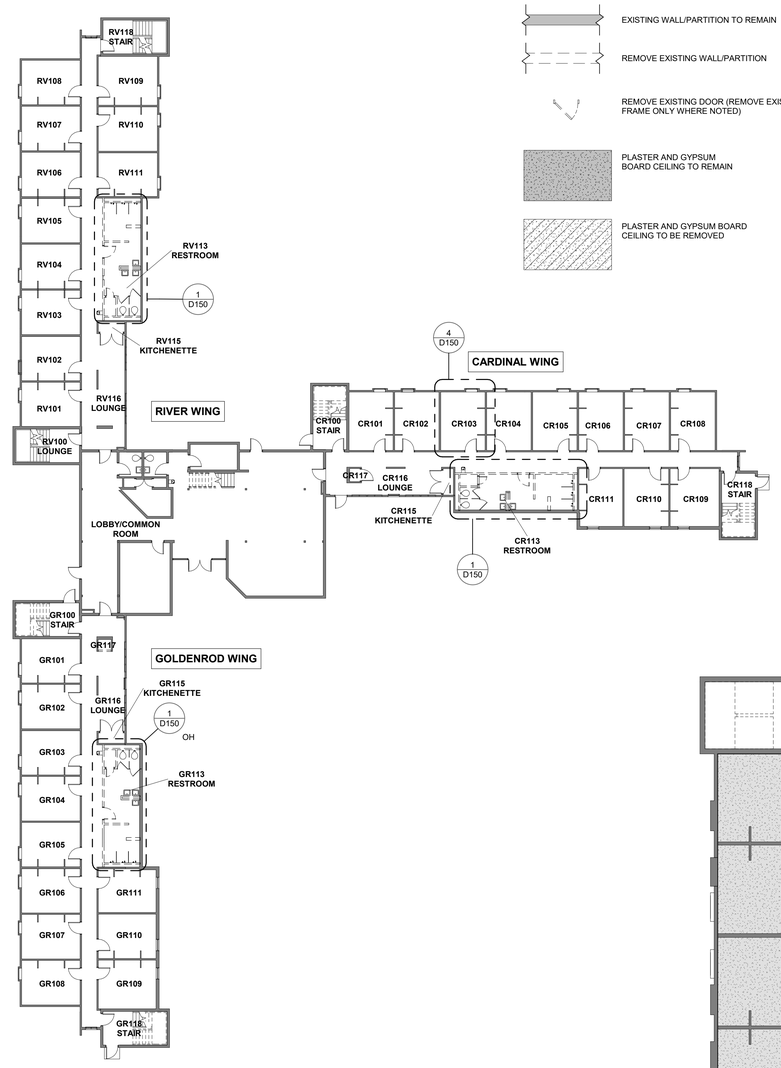


2 D101 OVERALL LOWER LEVEL DEMOLITION PLANS
1/16" = 1'-0"



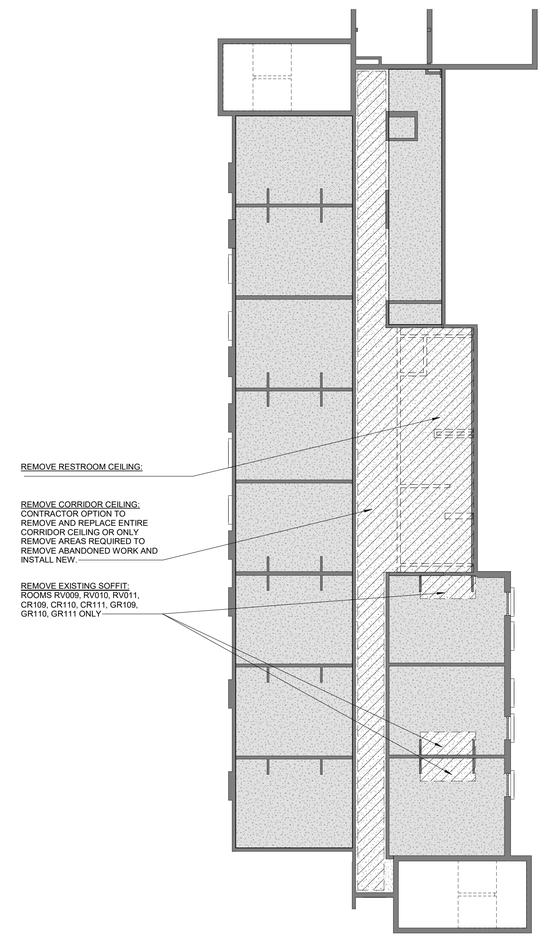
1 D101 OVERALL GROUND FLOOR DEMOLITION PLANS
1/16" = 1'-0"

DEMOLITION PLAN LEGEND

- EXISTING WALL/PARTITION TO REMAIN
- REMOVE EXISTING WALL/PARTITION
- REMOVE EXISTING DOOR (REMOVE EXISTING FRAME ONLY WHERE NOTED)
- PLASTER AND GYPSUM BOARD CEILING TO REMAIN
- PLASTER AND GYPSUM BOARD CEILING TO BE REMOVED

GENERAL DEMOLITION PLAN NOTES

A. ALL EQUIPMENT AND FURNISHING REMOVED BY OWNER.
B. REPAIR EXISITNG SURFACES WHERE DEMOLITION HAS OCCURED FOR NEW CONSTRUCTION. GENERAL CONTRACTOR SHALL PATCH/REPAIR WALL, FLOOR, AND CEILING SURFACES AFFECTED BY DEMOLITION WORK AND SHALL PATCH HOLES IN EXISTING WALLS REMAINING AFTER DEMOLITION OF DUCTWORK/PIPING THAT WILL NOT BE REUSED FOR NEW WORK. PATCHING OF SURAFACES THAT ARE CUT FOR NEW WORK SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE PRIME CONTRACTOR PERFORMING THE WORK. ALL REPAIRS SHALL MATCH EXISTING ADJACENT SURFACES IN FINISH AND MATERIAL, FINISH AND TEXTURE.
C. REFER TO MECHANICAL, ELECTRICAL AND PLUMBINGDRAWINGS FOR ADDITIONAL DEMOLITION NOTES.
D. OWNER HAS FIRST SALVAGE RIGHTS TO ALL DEMOLITION ITEMS.
E. REMOVE FLOORING FINISHES AND BASE. COMPLETE THROUGHOUT AREA OF WORK UNLESS OTHERWISE NOTED.
F. REMOVE ALL EXISTING SUSPENDED ACOUSTIC PANEL CEILING SYSTEMS, GRID, ALL ASSOCIATED HANGERS, PLASTER AND GYPSUM BOARD SOFFITS AND CEILINGS IN AREAS TO RECEIVE CEILINGS AS SHOWN ON SHEET A101, A150, A151.
G. ALL PARTITIONS TO BE DEMOLISHED ARE TO BE REMOVED COMPLETELY INCLUDING FRAMING, GYPSUM BOARD, FINISHES, ACCESSORIES, AND SUPPORTING BRACES OR KICKERS UNLESS NOTED OTHERWISE
H. ALL DOORS AND FRAMES TO BE REMOVED ARE TO BE REMOVED COMPLETELY INCLUDING ALL ANCHORS, SEALANTS, HARDWARE, AND ACCESSORIES UNLESS NOTED OTHERWISE
I. WHERE EXISTING WOOD SUBFLOORS OR SUBSTRATES ARE DAMAGED REMOVE DAMAGED MATERIAL FROM CENTER OF JOIST TO CENTER OF JOIST. REPLACE UNDERLAYMENT WITH STURD-I-FLOOR SYSTEM OR EQUAL. SCREW DOWN REPLACEMENT PANELS



3 D101 TYPICAL CELIING DEMOLITION PLAN
1/8" = 1'-0"

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OVERALL FIRST AND SECOND FLOOR DEMO PLANS

DATE 10/19/18
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D101

0'-1" REFERENCE LINE

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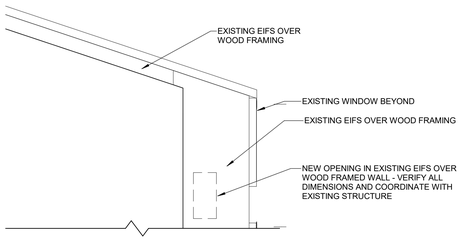
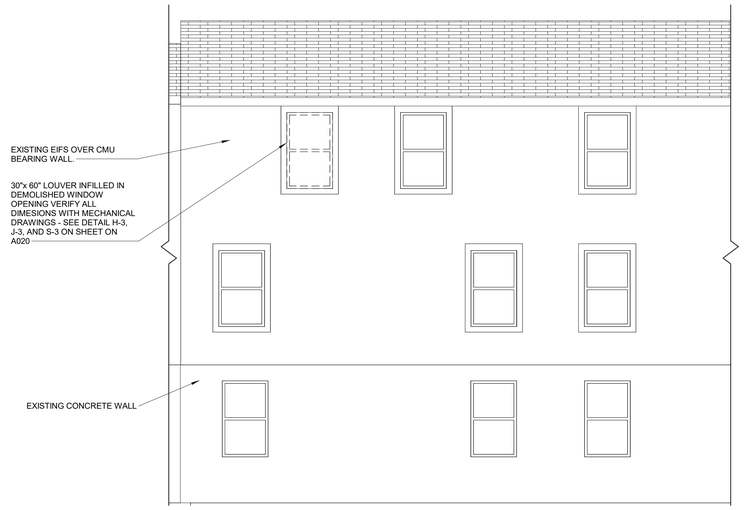


3 D102 TYPICAL ELEVATION
1/4" = 1'-0"



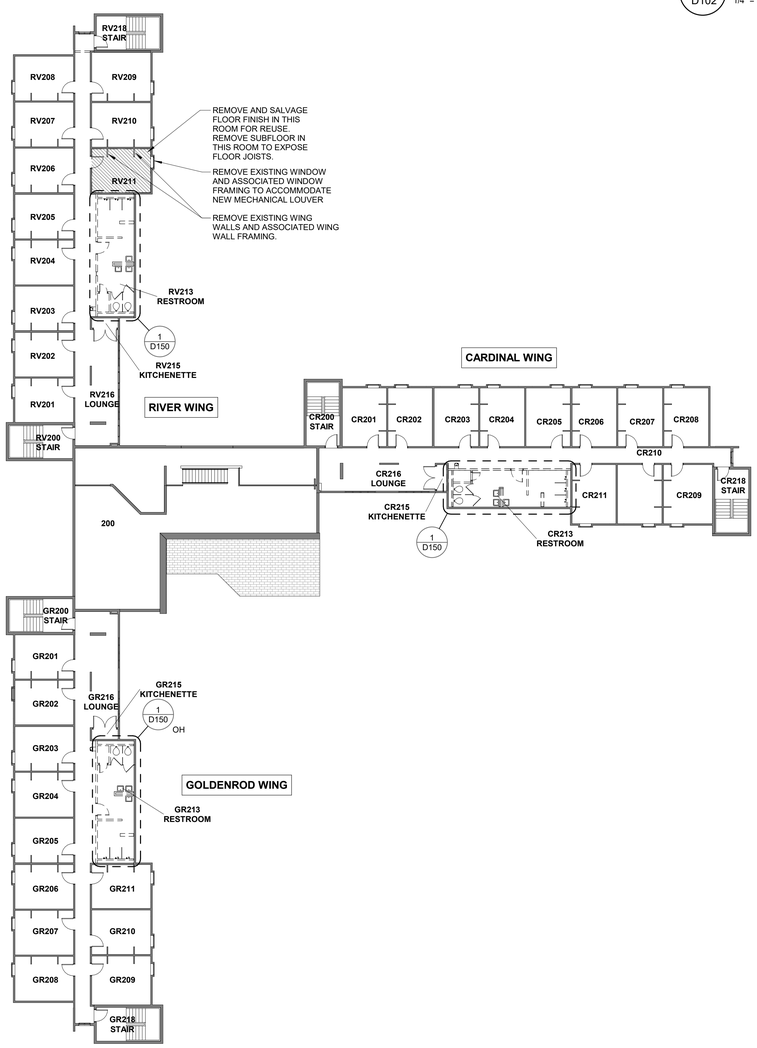
5 D102 TYPICAL ELEVATION
1/4" = 1'-0"

DEMOLITION PLAN LEGEND

- EXISTING WALL/PARTITION TO REMAIN
- REMOVE EXISTING WALL/PARTITION
- REMOVE EXISTING DOOR (REMOVE EXISTING FRAME ONLY WHERE NOTED)
- PLASTER AND GYPSUM BOARD CEILING TO REMAIN
- PLASTER AND GYPSUM BOARD CEILING TO BE REMOVED

GENERAL DEMOLITION PLAN NOTES

A. ALL EQUIPMENT AND FURNISHING REMOVED BY OWNER.
B. REPAIR EXISITNG SURFACES WHERE DEMOLITION HAS OCCURED FOR NEW CONSTRUCTION. GENERAL CONTRACTOR SHALL PATCH/REPAIR WALL, FLOOR, AND CEILING SURFACES AFFECTED BY DEMOLITION WORK AND SHALL PATCH HOLES IN EXISTING WALLS REMAINING AFTER DEMOLITION OF DUCTWORK/PIPING THAT WILL NOT BE REUSED FOR NEW WORK. PATCHING OF SURAFACES THAT ARE CUT FOR NEW WORK SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE PRIME CONTRACTOR PERFORMING THE WORK. ALL REPAIRS SHALL MATCH EXISTING ADJACENT SURFACES IN FINISH AND MATERIAL, FINISH AND TEXTURE.
C. REFER TO MECHANICAL, ELECTRICAL AND PLUMBINGDRAWINGS FOR ADDITIONAL DEMOLITION NOTES.
D. OWNER HAS FIRST SALVAGE RIGHTS TO ALL DEMOLITION ITEMS.
E. REMOVE FLOORING FINISHES AND BASE. COMPLETE THROUGHOUT AREA OF WORK UNLESS OTHERWISE NOTED.
F. REMOVE ALL EXISTING SUSPENDED ACOUSTIC PANEL CEILING SYSTEMS, GRID, ALL ASSOCIATED HANGERS, PLASTER AND GYPSUM BOARD SOFFITS AND CEILINGS IN AREAS TO RECEIVE CEILINGS AS SHOWN ON SHEET A101, A150, A151.
G. ALL PARTITIONS TO BE DEMOLISHED ARE TO BE REMOVED COMPLETELY INCLUDING FRAMING, GYPSUM BOARD, FINISHES, ACCESSORIES, AND SUPPORTING BRACES OR KICKERS UNLESS NOTED OTHERWISE
H. ALL DOORS AND FRAMES TO BE REMOVED ARE TO BE REMOVED COMPLETELY INCLUDING ALL ANCHORS, SEALANTS, HARDWARE, AND ACCESSORIES UNLESS NOTED OTHERWISE
I. WHERE EXISTING WOOD SUBFLOORS OR SUBSTRATES ARE DAMAGED REMOVE DAMAGED MATERIAL FROM CENTER OF JOIST TO CENTER OF JOIST. REPLACE UNDERLAYMENT WITH STURD-I-FLOOR SYSTEM OR EQUAL. SCREW DOWN REPLACEMENT PANELS



1 D102 OVERALL SECOND FLOOR DEMOLITION PLAN
1/16" = 1'-0"

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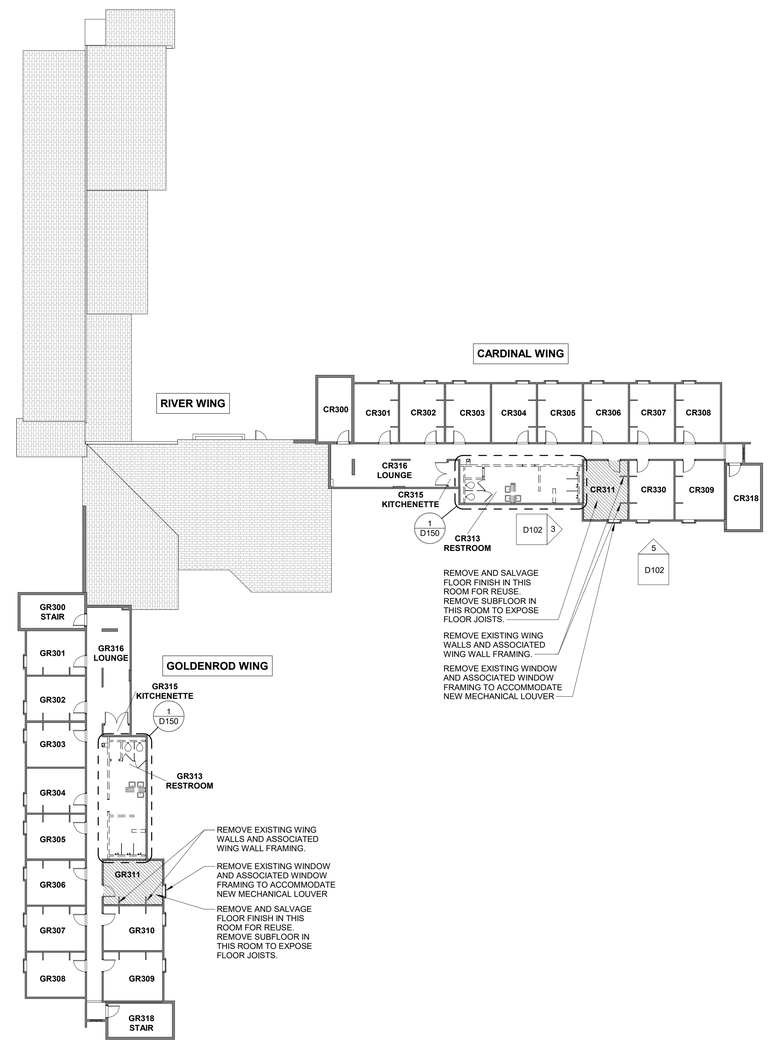

2 D102 OVERALL THIRD FLOOR DEMOLITION PLAN
1/16" = 1'-0"

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ISSUANCES

10-19-18	PERMIT/BID SET

OVERALL SECOND AND THIRD FLOOR DEMO PLANS

DATE 10/19/18
COMM NO. 2018066.01

D102

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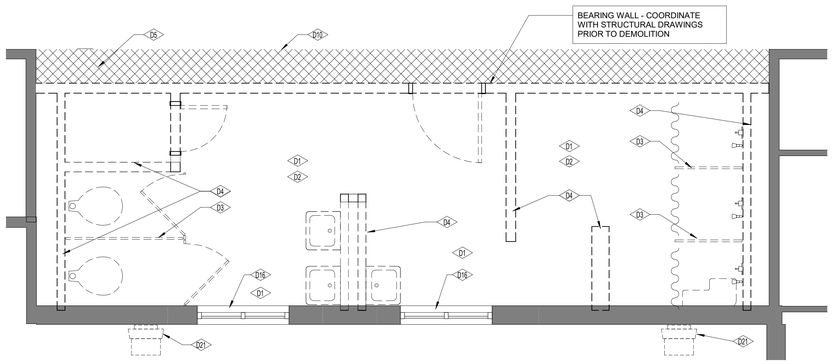
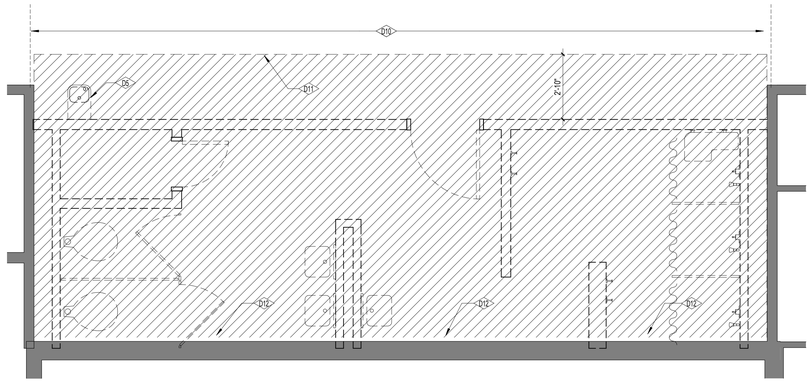
"0'-1" REFERENCE LINE"

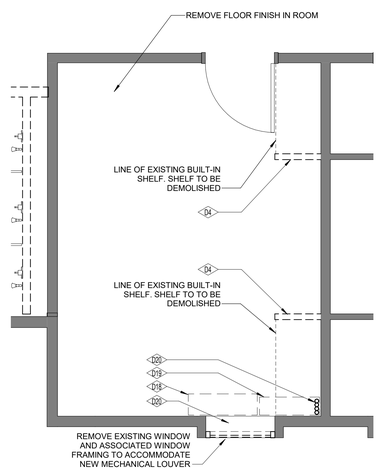


1 D150 TYPICAL RESTROOM DEMOLITION PLAN
3/8" = 1'-0"

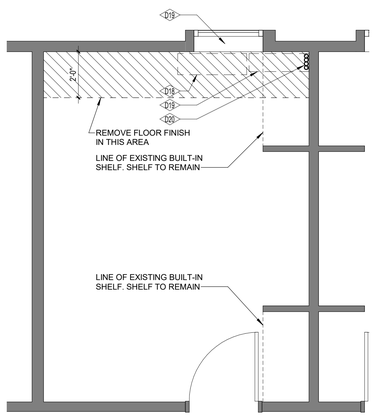


2 D150 DEMOLITION PLAN
ROOMS RV013, CR113, GR113
3/8" = 1'-0"

NOTES:
SEE 1/A150 FOR TYPICAL DEMOLITION NOTES



3 D150 RV211, CR311, GR311 BEDROOM DEMOLITION PLAN
3/8" = 1'-0"



4 D150 TYPICAL BEDROOM DEMOLITION PLAN
3/8" = 1'-0"

GENERAL DEMOLITION PLAN NOTES

A. ALL EQUIPMENT AND FURNISHING REMOVED BY OWNER.
B. REPAIR EXISITNG SURFACES WHERE DEMOLITION HAS OCCURED FOR NEW CONSTRUCTION. GENERAL CONTRACTOR SHALL PATCH/REPAIR WALL, FLOOR, AND CEILING SURFACES AFFECTED BY DEMOLITION WORK AND SHALL PATCH HOLES IN EXISTING WALLS REMAINING AFTER DEMOLITION OF DUCTWORK/PIPING THAT WILL NOT BE REUSED FOR NEW WORK. PATCHING OF SURAFACES THAT ARE CUT FOR NEW WORK SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE PRIME CONTRACTOR PERFORMING THE WORK. ALL REPAIRS SHALL MATCH EXISTING ADJACENT SURFACES IN FINISH AND MATERIAL, FINISH AND TEXTURE.
C. REFER TO MECHANICAL, ELECTRICAL AND PLUMBINGDRAWINGS FOR ADDITIONAL DEMOLITION NOTES.
D. OWNER HAS FIRST SALVAGE RIGHTS TO ALL DEMOLITION ITEMS.
E. REMOVE FLOORING FINISHES AND BASE. COMPLETE THROUGHOUT AREA OF WORK UNLESS OTHERWISE NOTED.
F. REMOVE ALL EXISTING SUSPENDED ACOUSTIC PANEL CEILING SYSTEMS, GRID, ALL ASSOCIATED HANGERS, PLASTER AND GYPSUM BOARD SOFFITS AND CEILINGS IN AREAS TO RECEIVE CEILINGS AS SHOWN ON SHEET A101, A150, A151.
G. ALL PARTITIONS TO BE DEMOLISHED ARE TO BE REMOVED COMPLETELY INCLUDING FRAMING, GYPSUM BOARD, FINISHES, ACCESSORIES, AND SUPPORTING BRACES OR KICKERS UNLESS NOTED OTHERWISE
H. ALL DOORS AND FRAMES TO BE REMOVED ARE TO BE REMOVED COMPLETELY INCLUDING ALL ANCHORS, SEALANTS, HARDWARE, AND ACCESSORIES UNLESS NOTED OTHERWISE
I. WHERE EXISTING WOOD SUBFLOORS OR SUBSTRATES ARE DAMAGED REMOVE DAMAGED MATERIAL FROM CENTER OF JOIST TO CENTER OF JOIST. REPLACE UNDERLAYMENT WITH STURD-I-FLOOR SYSTEM OR EQUAL. SCREW DOWN REPLACEMENT PANELS

DEMOLITION KEYNOTES

D1	REMOVE EXISTING CERAMIC TILES FROM ALL WALLS AND FLOORS THIS ROOM. REMOVE UNDERLAYMENT MATERIALS DOWN TO PLYWOOD SUBFLOOR. SCREW DOWN EXISTING SUBFLOOR AT 12" O.C.
D2	REMOVE SUSPENDED PASTER CEILING SYSTEM INCLUDING ALL SUPPORTING FRAMING
D3	REMOVE ALL SHOWER AND TOILET PARTITIONS COMPLETELY
D4	REMOVE WOOD FRAMED PARTITIONS TO THE EXTENT INDICATED ON THE PLAN.
D5	WHERE APPLICABLE, WATER FOUNTAIN TO BE REMOVED BY PLUMBINBG CONTRACTOR AND TURNED OVER TO UNIVERSITY REPRESENTATIVE FOR FUTURE REUSE OR RELOCATION.
D10	REMOVE FLOOR FINISH
D11	REMOVE EXISTING CONCRETE SLAB TO THE EXTENT REQUIRED FOR NEW FOUNDATIONS AND PLUMBING, SEE PLUMBING AND STRUCTURAL DRAWINGS.
D12	REMOVE EXISTING WALL TILE, SUBSTRATE, AND FURRING
D16	REMOVE STONE SILL AND TILE AT WINDOW JAMBS
D18	EXISTING FANCOIL UNIT TO BE REMOVED - SEE MEP SHEETS
D19	REMOVE WOOD FRAMED CURB
D20	EXISTING PIPING TO BE REMOVED - SEE MEP SHEETS
D21	PATCH AND REPAIR EIFS WHERE WALL PENETRATIONS INCLUDING EXHAUST FANS, GRILLES, DUCTS, AND PIPING HAVE BEEN REMOVED

DEMOLITION PLAN LEGEND

- EXISTING WALL/PARTITION TO REMAIN
- REMOVE EXISTING WALL/PARTITION
- REMOVE EXISTING DOOR (REMOVE EXISTING FRAME ONLY WHERE NOTED)
- PLASTER AND GYPSUM BOARD CEILING TO REMAIN
- PLASTER AND GYPSUM BOARD CEILING TO BE REMOVED

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ENLARGED DEMO PLANS

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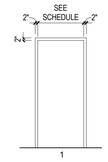
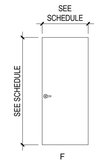
DOOR AND FRAME SCHEDULE

#	DOOR # of LEAFS	DOOR WIDTH	DOOR HEIGHT	DOOR THK	DOOR TYPE	DOOR MATL	DOOR FINISH	FRAME DEPTH	FRAME TYPE	FRAME E-FRAME	FRAME MATL	FRAME FINISH	FRAME HEAD	FRAME JAMB	FRAME SILL	RATING	HARDWARE SET	NOTES	DOOR #
T212	1	3'-0"	7'-0"	1 3/4"	F	WD	PT	5 3/4"	1		HM	PT	H1	J1		30 MIN	2.0	UNDERCUT 3/8 INCH	T212
T213	1	3'-0"	7'-0"	1 3/4"	F	WD	WD	5 3/4"	1		HM	PT	H1	J1		30 MIN	3.0	UNDERCUT 3/8 INCH	T213
T213A	1	2'-6"	7'-0"	1 3/4"	F	WD	LAM	5 3/4"	1		HM	PT	H1	J1			5.0	UNDERCUT 1 INCH	T213A
T213B	1	2'-6"	7'-0"	1 3/4"	F	WD	LAM	5 3/4"	1		HM	PT	H1	J1			5.0	UNDERCUT 1 INCH	T213B
T213C	1	2'-6"	7'-0"	1 3/4"	F	WD	LAM	5 3/4"	1		HM	PT	H1	J1			6.0	UNDERCUT 1 INCH	T213C
T213D	1	2'-6"	7'-0"	1 3/4"	F	WD	LAM	5 3/4"	1		HM	PT	H1	J1			6.0	UNDERCUT 1 INCH	T213D
T214	1	2'-8"	7'-0"	1 3/4"	F	HM	PT	5 3/4"	1		HM	PT	H1	J1		30 MIN	4.0	UNDERCUT 3/8 INCH	T214



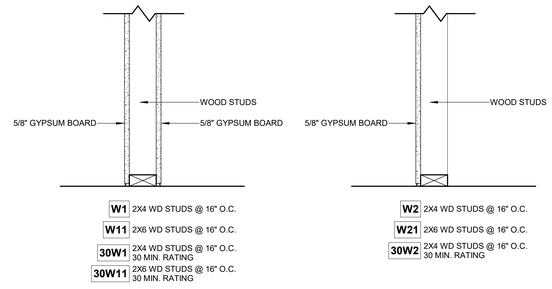
FRAME TYPES

NTS



DOOR TYPES

NTS

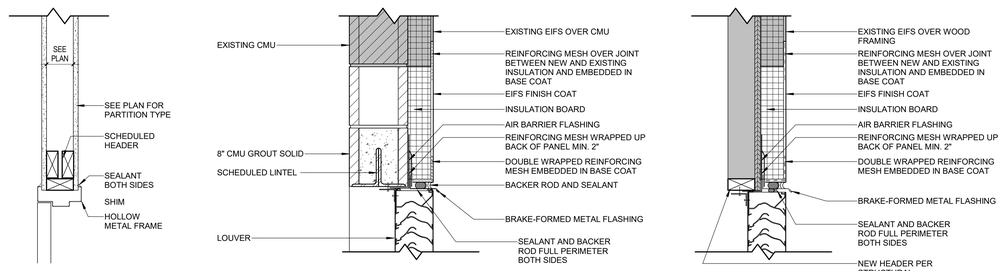


1 / A020 PARTITION TYPES

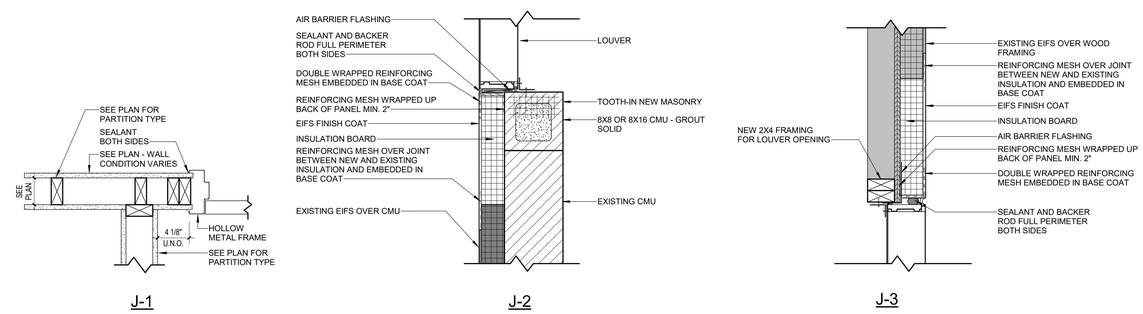
1 1/2" = 1'-0"

GENERAL PARTITION NOTES

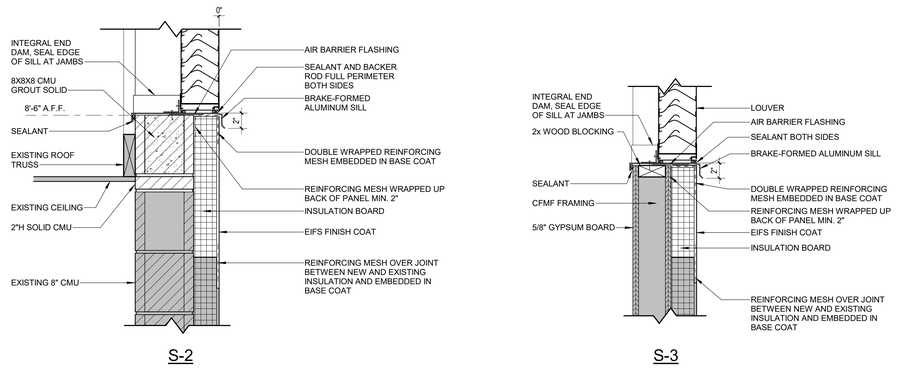
A. SEE TYPICAL DETAILS THIS SHEET FOR WALL TERMINATION DETAILS.
B. SEE TYPICAL DETAIL FOR INTERSECTION OF METAL STUD PARTITIONS WITH MASONRY & ICF WALLS.
C. MASONRY WALLS RATED 2-HOURS TO MEET REQUIREMENTS OF UL DESIGN NO. U905 **AND** DETAILS INDICATED. METAL STUD PARTITION WALLS RATED 2-HOURS TO MEET REQUIREMENTS OF UL DESIGN NO. U495 **AND** DETAILS INDICATED. REFER TO U.L. DIRECTORY FOR ACCEPTABLE SUBSTITUTIONS, SPACING, SIZES AS INDICATED IN PARTITION WALL DETAILS. UL DETAILS PROVIDED THIS SHEET.
D. METAL STUD PARTITION WALLS RATED 1 AND 2-HOURS TO MEET REQUIREMENTS OF UL DESIGN NO. U495 **AND** DETAILS INDICATED. REFER TO U.L. DIRECTORY FOR ACCEPTABLE SUBSTITUTIONS, SPACING, SIZES AS INDICATED IN PARTITION WALL DETAILS.
E. REFER TO BUILDING AND WALL SECTIONS FOR EXTERIOR WALL TYPES.
F. REFER TO STRUCTURAL DRAWINGS FOR TYPE AND LOCATION OF REQUIRED REINFORCING AT MASONRY WALLS.
G. PROVIDE MASONRY JOINT REINFORCING 16" O.C. VERTICALLY IN ALL MASONRY PARTITIONS.



HEAD DETAILS



JAMB DETAILS



SILL DETAILS

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DOOR FRAME OPENING TYPES

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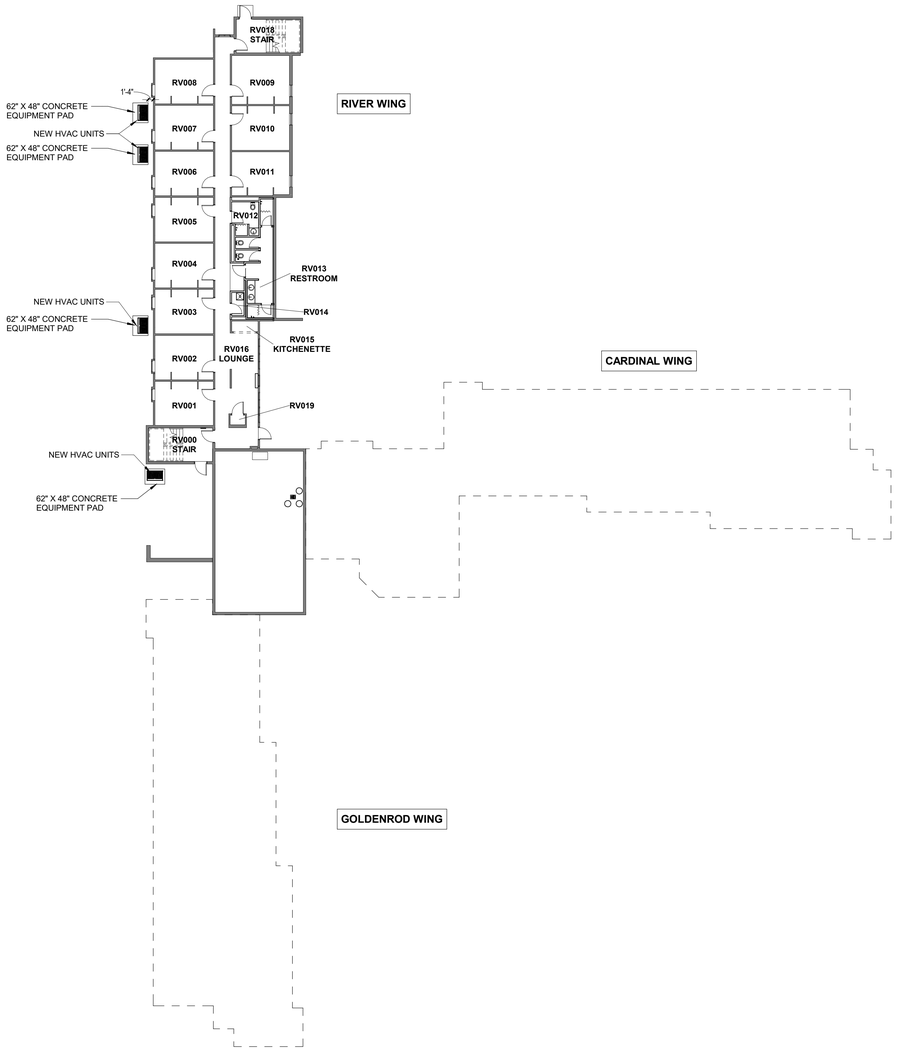

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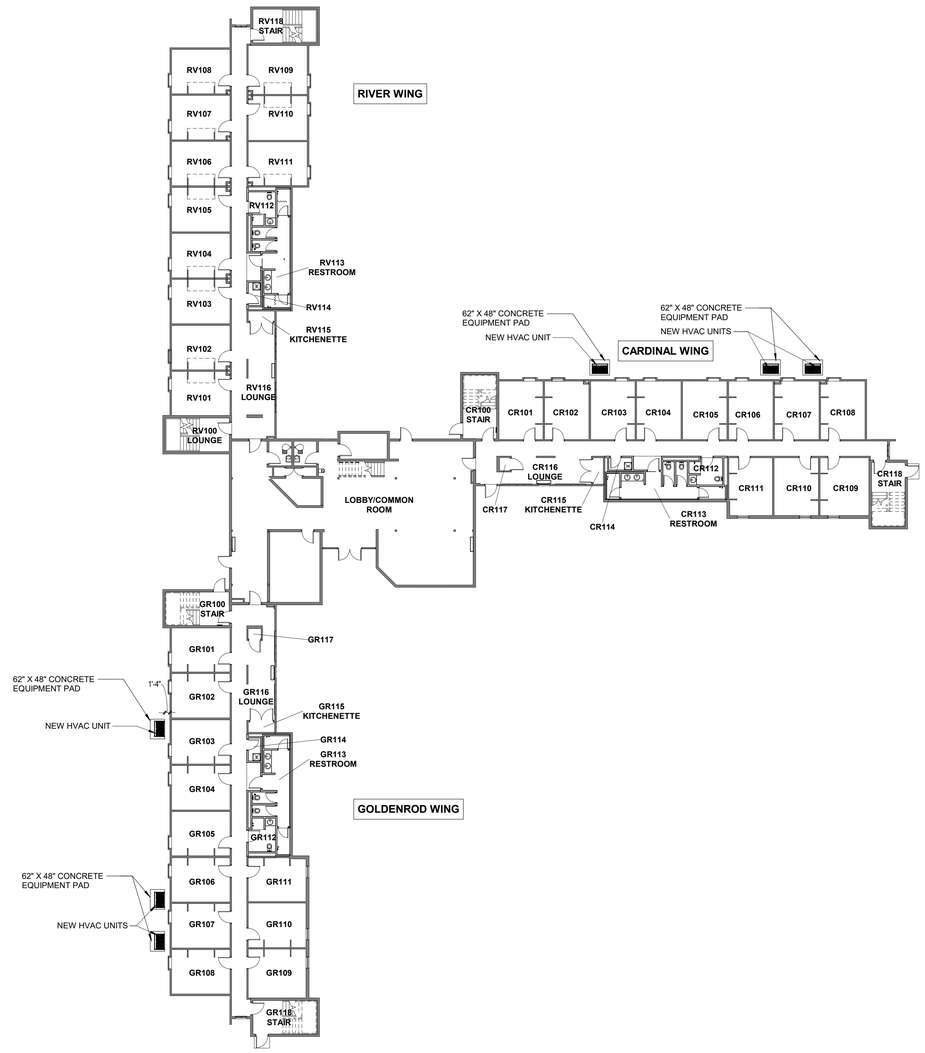
1 A051 OVERALL LOWER LEVEL
1/16" = 1'-0"



N

2 A051 OVERALL FIRST FLOOR
1/16" = 1'-0"

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OVERALL FIRST AND SECOND FLOOR PLANS

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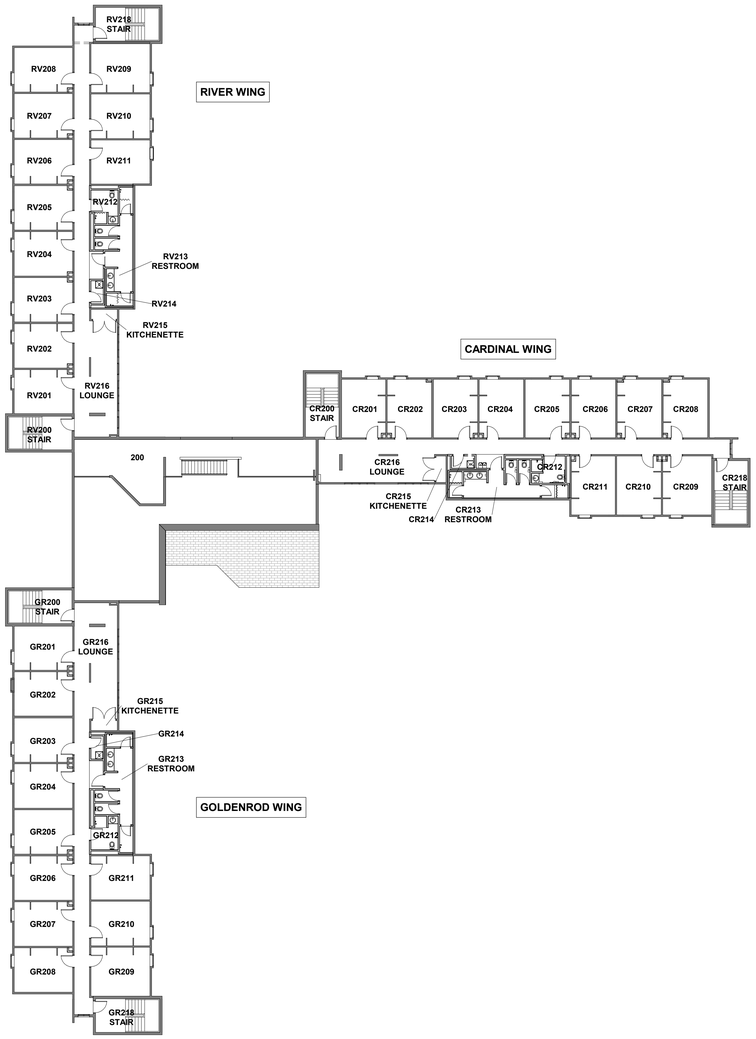
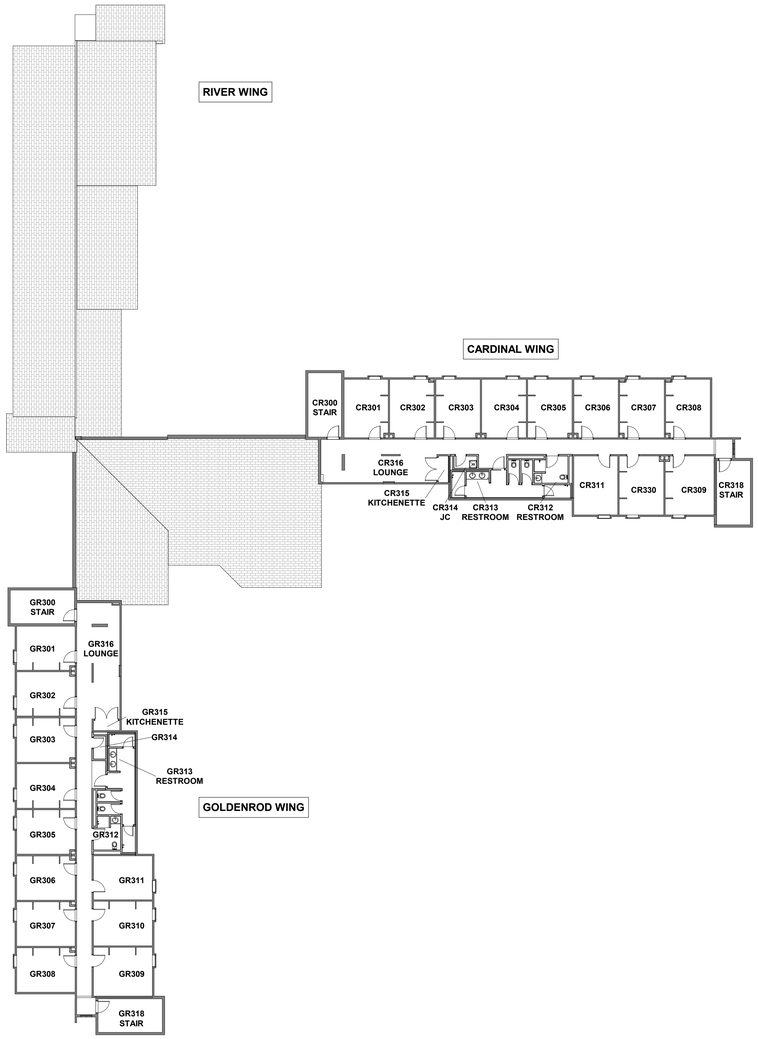


N 1 A052 OVERALL SECOND FLOOR

1/16" = 1'-0"



N 2 A052 OVERALL THIRD FLOOR

1/16" = 1'-0"

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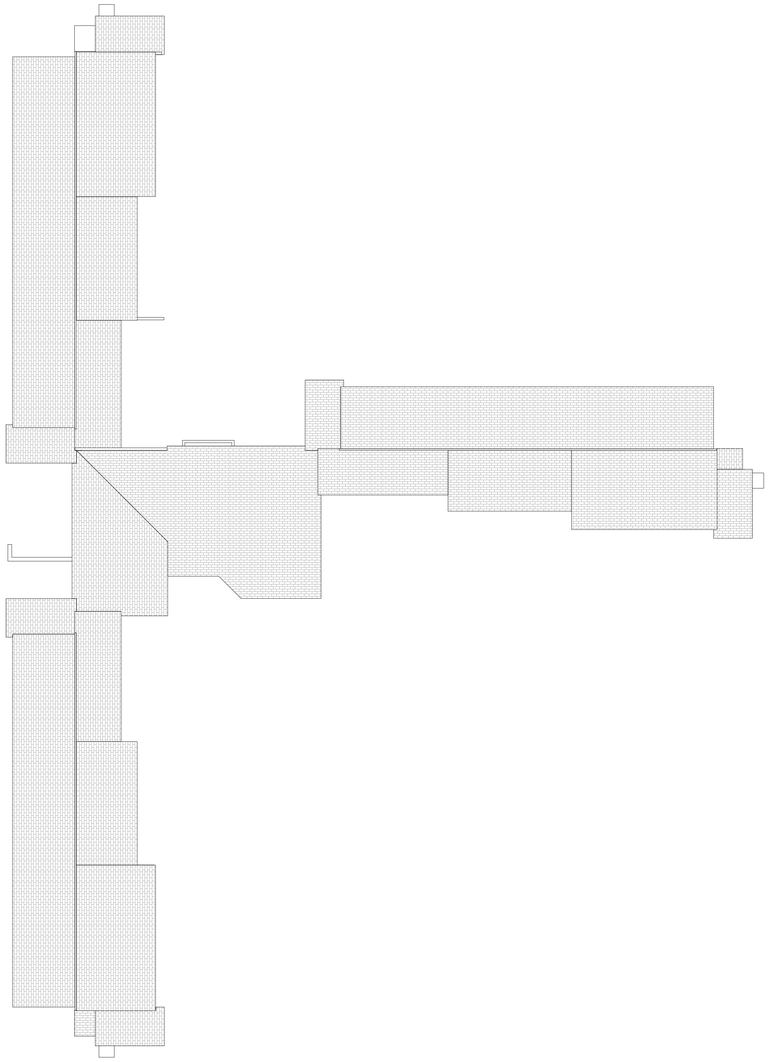

1 A053 ROOF PLAN
1/16" = 1'-0"

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ROOF PLAN

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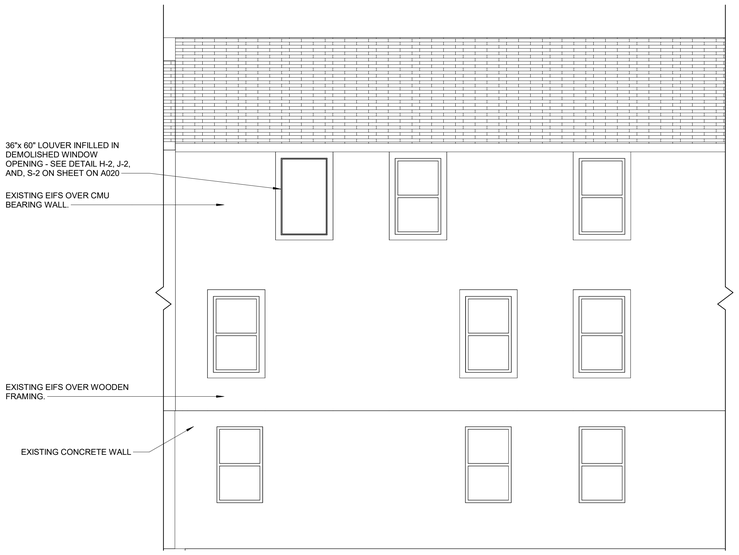
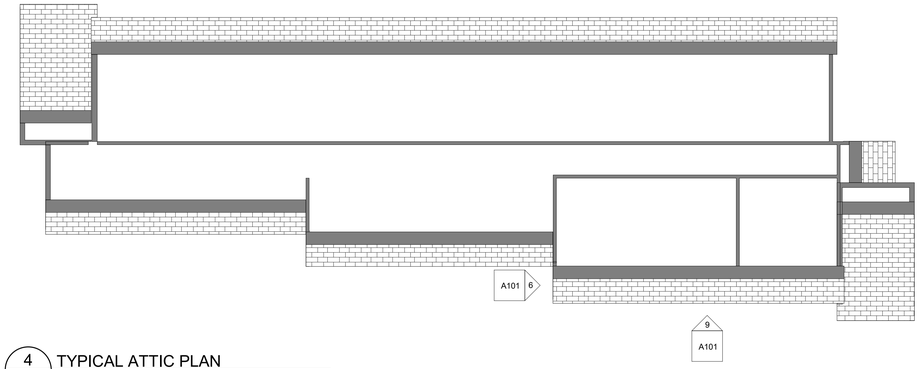
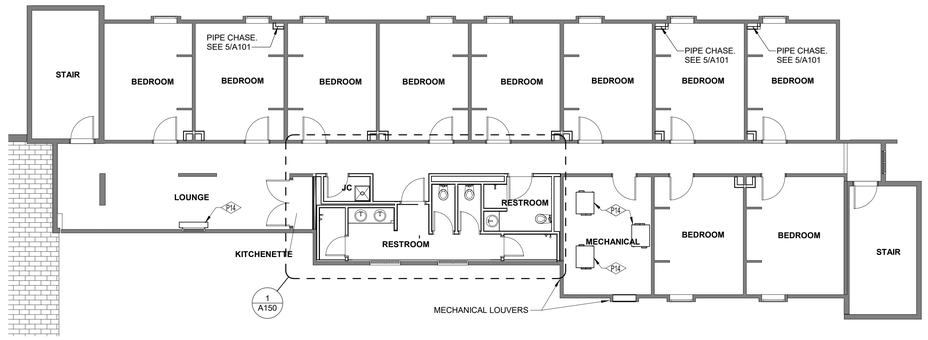


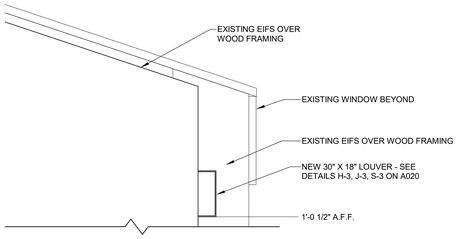
9 A101 ELEVATION
1/4" = 1'-0"



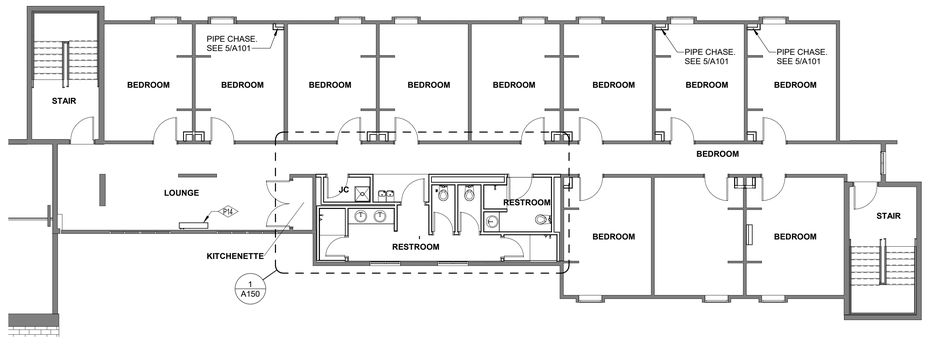
4 A101 TYPICAL ATTIC PLAN
1/8" = 1'-0"



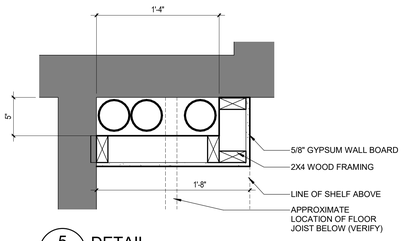
2 A101 TYPICAL THIRD FLOOR PLAN
1/8" = 1'-0"



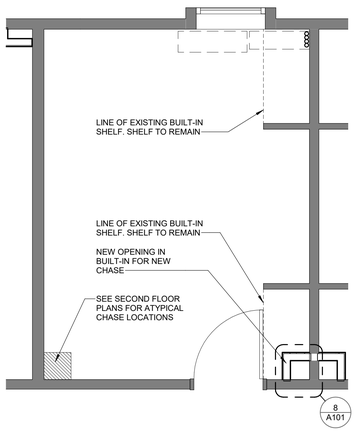
6 A101 ELEVATION
1/4" = 1'-0"



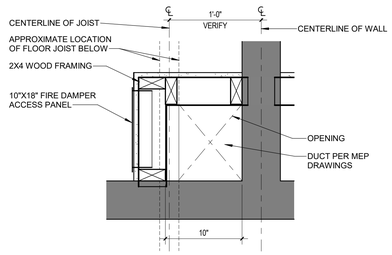
3 A101 TYPICAL SECOND FLOOR PLAN
1/8" = 1'-0"



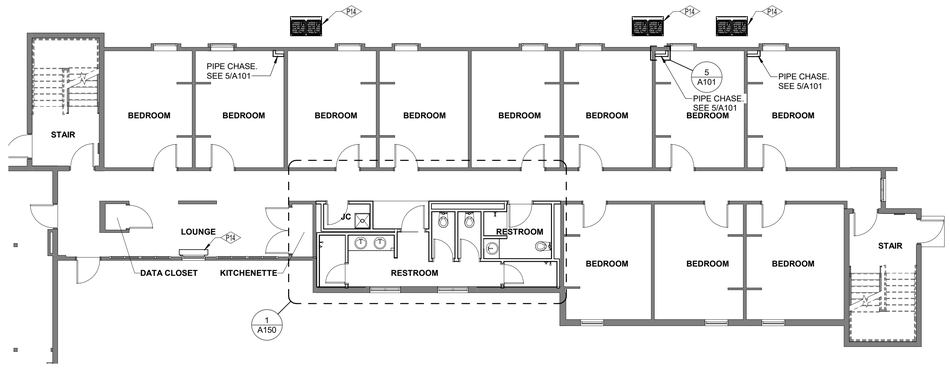
5 A101 DETAIL
1 1/2" = 1'-0"



7 A101 TYPICAL BEDROOM PLAN
3/8" = 1'-0"



8 A101 DETAIL
1 1/2" = 1'-0"



1 A101 TYPICAL GROUND FLOOR PLAN
1/8" = 1'-0"

GENERAL FLOOR PLAN NOTES

A. ALL DIMENSIONS ARE TO FACE OF MASONRY OR TO FACE OF STUD UNLESS NOTED OTHERWISE
B. PAINT EXPOSED PIPING TO MATCH ADJACENT WALLS

KEYNOTES

P14 MECHANICAL EQUIPMENT - SEE MEP DRAWINGS

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ISSUANCES

10-19-18	PERMIT/BID SET

FLOOR PLANS

DATE 10/19/18
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A101

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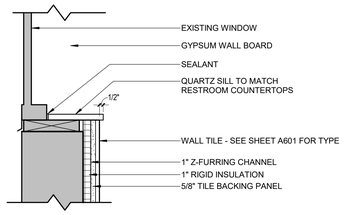
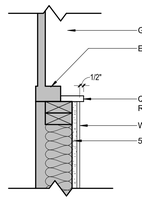
0'-1" REFERENCE LINE

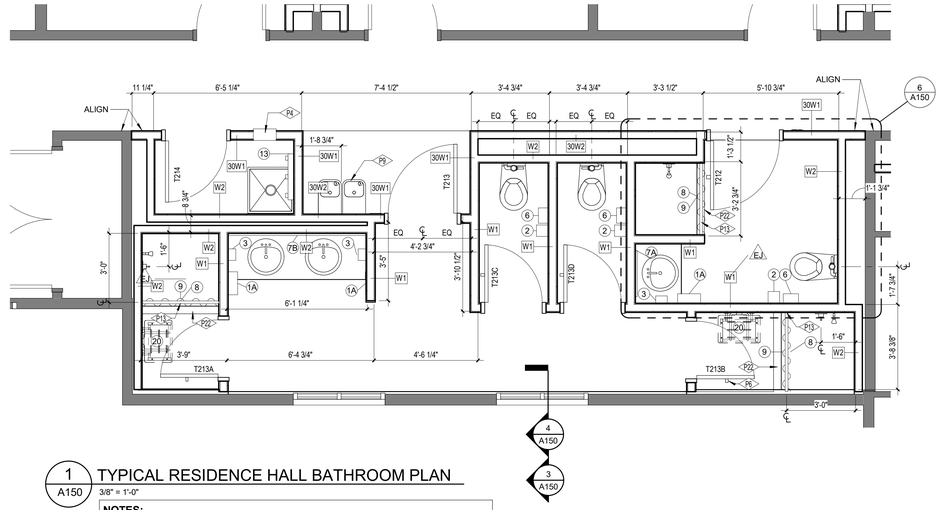


3 A150 DETAIL
1 1/2" = 1'-0"

NOTE:
THIS SILL DETAIL ONLY AT ROOMS RV013, CR113, GR113



4 A150 DETAIL
1 1/2" = 1'-0"



1 A150 TYPICAL RESIDENCE HALL BATHROOM PLAN
3/8" = 1'-0"

NOTES:
A. LAYOUT TYPICAL AT ALL RESIDENCE HALL FLOORS UNLESS NOTED OTHERWISE

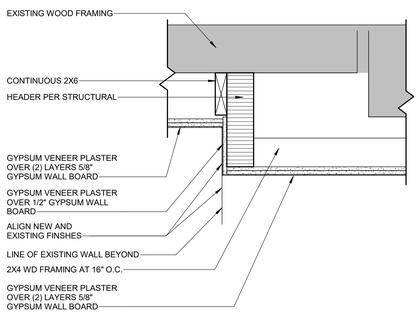
TOILET ACCESSORIES		
TYPE	DESCRIPTION	SIZE/COMMENTS
1A	PAPER TOWEL DISPENSER	OWNER FURNISHED & OWNER INSTALLED
2	TOILET TISSUE DISPENSER	OWNER FURNISHED & OWNER INSTALLED
3	SOAP DISPENSER	OWNER FURNISHED & OWNER INSTALLED
4A	GRAB BAR	36"
4B	GRAB BAR	42"
4C	CORNER GRAB BAR	BOBRICK B-6861 BASIS OF DESIGN
4D	VERTICAL GRAB BAR	18"
6	SANITARY NAPKIN DISPOSAL	OWNER FURNISHED & OWNER INSTALLED, WOMENS RESTROOMS ONLY
7A	MIRROR	24" X 40"
7B	MIRROR	6'-0" X 4'-0"
8	SHOWER ROD	
9	SHOWER CURTAIN	
10	ADA SHOWER SEAT	BOBRICK B-5181 BASIS OF DESIGN
13	BROOM HOLDER	24"
17	ROBE HOOK	
20	FOLDING SHOWER SEAT	

ENLARGED TOILET ROOM GENERAL NOTES

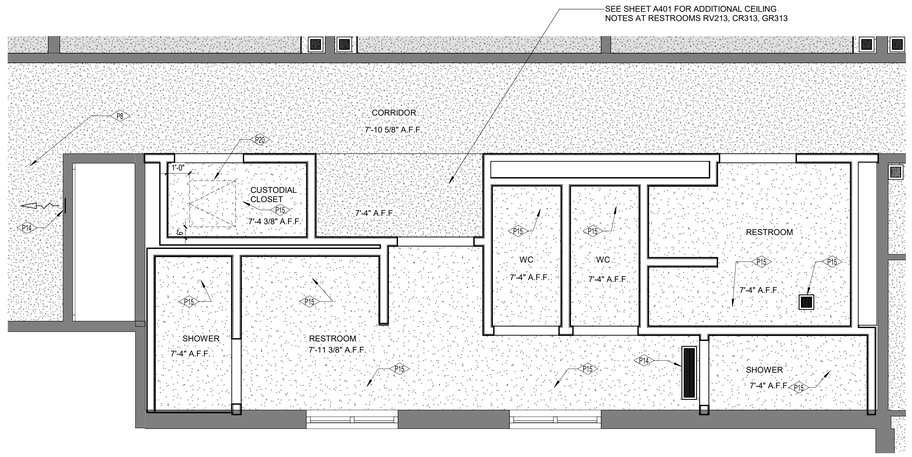
A. PARTITION DIMENSIONS ARE TO FACE OF STUD
B. ALL TOILET FIXTURES AND ACCESSORY DIMENSIONS ARE TO FINISHED FACE OF WALL UNLESS NOTED OTHERWISE
C. DIMENSIONS TO FIXTURES ARE TO THE CENTERLINE UNLESS NOTED OTHERWISE
D. ALL FLOORING IN RESTROOMS TO SLOPE 1/8" PER 1'0" MIN. TO ALL FLOOR DRAINS

KEYNOTES

P4 SEMI-RECESSED FIRE EXTINGUISHER CABINET
P6 ROBE HOOKS ON PARTITION DOOR
P8 NEW AND EXISTING CEILING ELEVATIONS TO MATCH
P9 DRINKING FOUNTAIN - HIGHLOW DRINKING FOUNTAIN WITH BOTTLE FILLER AT RESTROOMS BL213, CM213, AND LR113 ONLY. SINGLE DRINKING FOUNTAIN AT ALL OTHER RESTROOMS.
P13 FLOOR MOUNTED SPLASH GUARD, ALIGN WITH SHOWER CURTAIN ROD. BASIS OF DESIGN: "SCHLUTER-SHOWERPROFILE-WSL"
P14 MECHANICAL EQUIPMENT - SEE MEP DRAWINGS
P15 LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
P20 24"X24" ATTIC ACCESS PANEL AT CUSTODIAL CLOSETS ADJACENT TO RESTROOMS BL313, CM313, LR313
P22 SHOWER CURB, SEE DETAIL 16/A601



5 A150 DETAIL
1 1/2" = 1'-0"



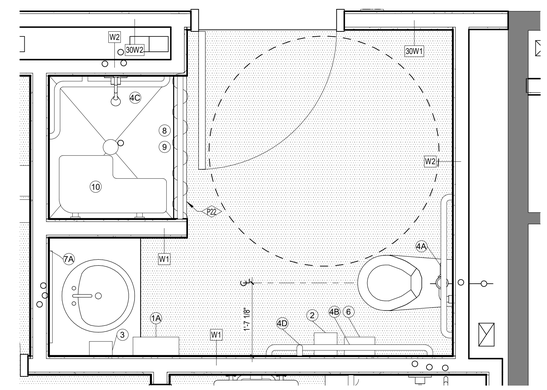
2 A150 TYPICAL RESIDENCE HALL RESTROOM REFLECTED CEILING PLAN
3/8" = 1'-0"

NOTES:
A. LAYOUT TYPICAL AT ALL RESIDENCE HALL FLOORS UNLESS NOTED OTHERWISE
B. ALL CEILING HEIGHTS 7'-11 3/8" +/- AT RESTROOMS RV213, CR313, GR313

CEILING FINISH LEGEND

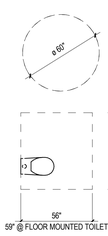
GYP-1 VENEER PLASTER ON GWB
GYP-2
EXISTING VENEER PLASTER ON GWB

ABBREVIATIONS:
SAP SUSPENDED ACOUSTICAL PANEL
DEFS DIRECT EXTERIOR FINISH SYSTEM

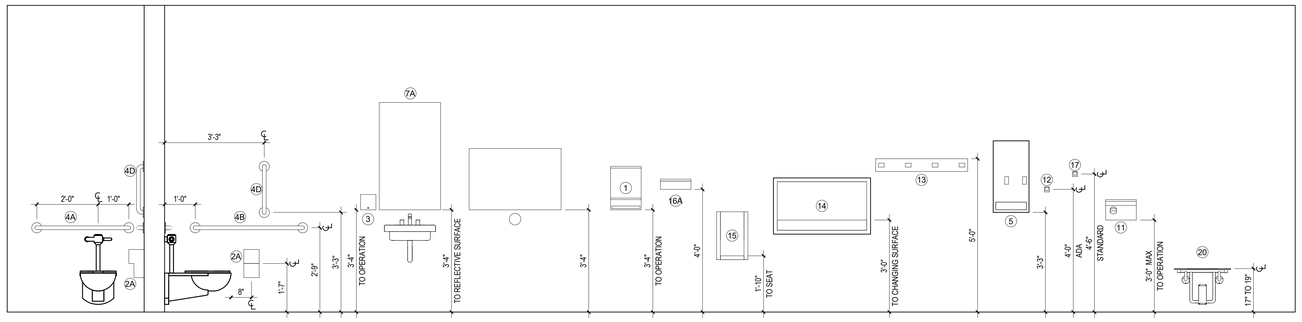


6 A150 ADA RESTROOM
3/4" = 1'-0"

NOTES:
A. ADA LAYOUT TYP AT ROOMS CR113, GR113, AND RV113



TOILET CLEARANCE LEGEND



MOUNTING HEIGHTS - ADULT

0'-1" REFERENCE LINE

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ENLARGED TOILET ROOM PLANS

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GENERAL REFLECTED CEILING PLAN NOTES

A. NOTED CEILING HEIGHTS ARE MEASURED FROM ELEVATION OF FINISHED FLOOR BELOW.
B. ALL GYP BD SOFFITS TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE.
C. PAINT EXPOSED PIPING TO MATCH ADJACENT WALLS

KEYNOTES

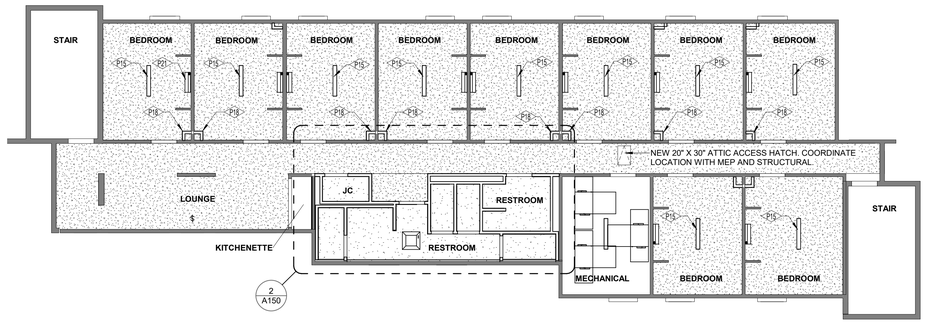
P8	NEW AND EXISTING CEILING ELEVATIONS TO MATCH
P15	LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
P17	CEILING MOUNTED AIR DISTRIBUTON DEVICE - SEE MEP DRAWINGS
P18	SEE SHEET A101 FOR CHASE DETAIL
P21	WALL MOUNTED HVAC UNIT - CENTER BETWEEN WING WALLS

CEILING FINISH LEGEND

GYP-1	VENEER PLASTER ON GWB
GYP-2	
EXISTING	VENEER PLASTER ON GWB

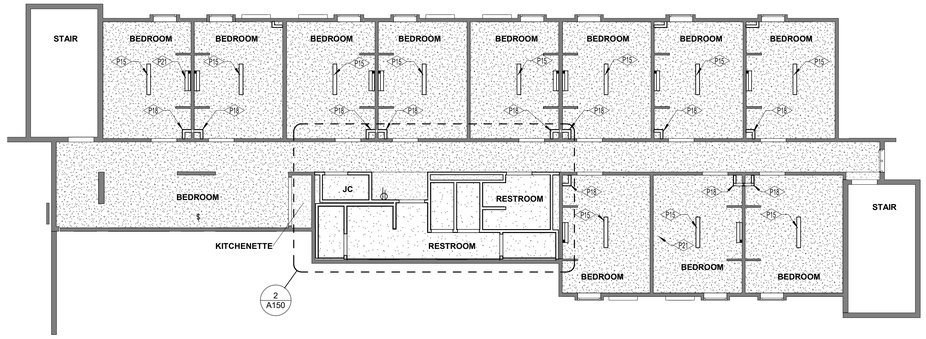
ABBREVIATIONS:

SAP	SUSPENDED ACOUSTICAL PANEL
DEFS	DIRECT EXTERIOR FINISH SYSTEM

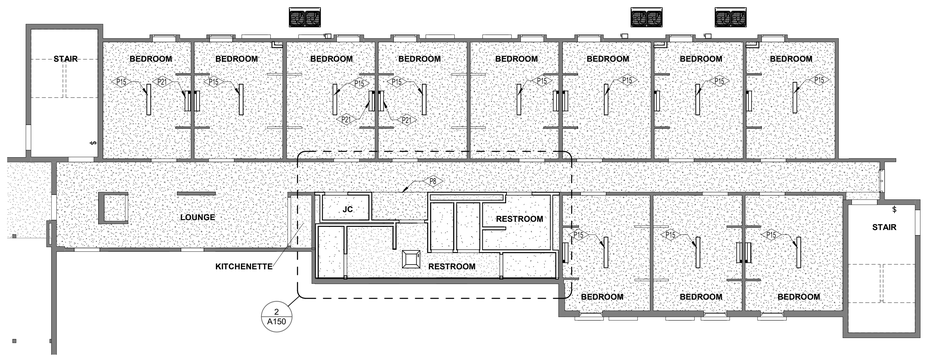


7 / A401 TYPICAL THIRD FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

NOTES:
A.THIRD FLOOR CEILINGS ARE 1-HR RATED



6 / A401 TYPICAL SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



4 / A401 TYPICAL FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

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0'-1" REFERENCE LINE

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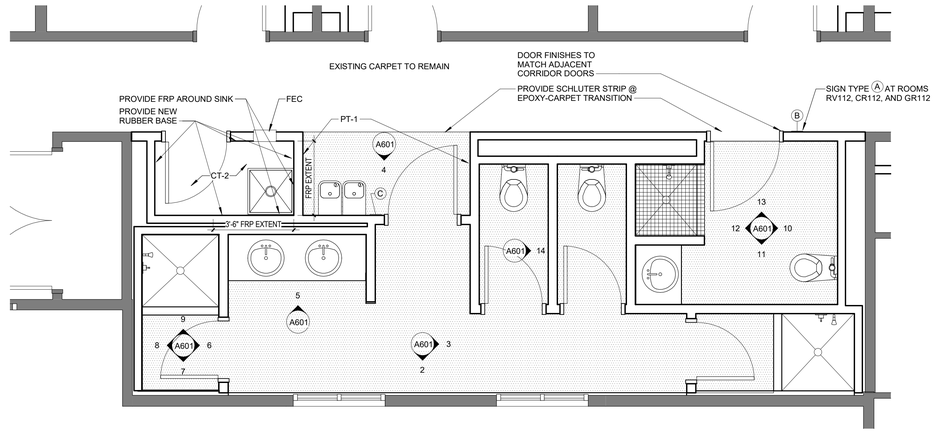


1 A601 TYPICAL RESIDENCE HALL BATHROOM FINISH PLAN
3/8" = 1'-0"

GENERAL NOTES :

A. CONTRACTOR MUST OBTAIN COLOR PRINTS OF ALL FLOOR PATTERNS FROM ARCHITECT BEFORE INSTALLING MATERIAL.
B. EXTEND FLOORING MATERIAL UNDER OPEN CASEWORK.
C. WHEN MATERIAL TRANSITIONS OCCUR AT A DOORWAY, TRANSITION TO OCCUR AT THE CENTERLINE OF THE CLOSED DOOR.
D. SEE STRUCTURAL FOUNDATION AND PLUMBING PLANS FOR DRAIN AND SLOPE LOCATIONS, AND FIXTURE HEIGHTS.
E. PRODUCTS LISTED ON THE DRAWING SHEETS ARE THE BASIS OF DESIGN PRODUCT. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
F. TILE TO BE INSTALLED TO MINIMIZE WASTE AND SMALL SLIVERS

FINISH LISTING

PORCELAIN TILE
CT-1 ATLAS CONCORDE USA 12" X 24" TILE ,PATTERN: FRAY, COLOR: WHITE - OR APPROVED EQUAL (WALL TILE @ TYPICAL RES HALL RESTROOMS)

CT-2 ATLAS CONCORDE USA 18"X36" TILE, PATTERN: RIFT, COLOR: BLACKTOP - OR APPROVED EQUAL (FLOOR TILE IN CUSTODIAL CLOSETS)

CT-3 ATLAS CONCORDE USE MOSAIC 2"X2" PATTERN; FRAY, COLOR: GRAY - OR APPROVED EQUAL (FLOOR TILE @ SHOWERS)

RESILIENT BASE
TO MATCH EXISTING ADJACENT WHERE PATCHING IS REQUIRED

CARPET
TO MATCH EXISTING ADJACENT WHERE PATCHING OR REPLACEMENT IS REQUIRED

PAINT
TO MATCH EXISTING ADJACENT WHERE PATCHING IS REQUIRED - UNLESS NOTED OTHERWISE
PT-1: SHERWIN WILLIAMS SW7736 "GARDEN SAGE" SEMI-GLOSS (TYPICAL SHOWER ROOM: WALLS)

PT-2: SHERWIN WILLIAMS SW 6492 "JETSTREAM" SEMI-GLOSS (COMMON RESTROOM: WALLS)

PT-3: SHERWIN WILLIAMS SW7602 "INDIGO BATIK" SEMI-GLOSS (TYPICAL SHOWER ROOM: DOOR FRAMES)

PLASTIC LAMINATE
HPL-1: WILSONART "BRITTANY BLUE" D321-60 (TYPICAL SHOWER ROOM: DOORS)
DV
HPL-2: WILSONART " PLATINUM" D315-60 (TYPICAL SHOWER ROOM: UNDER COUNTER PANEL)

QUARTZ
Q-1: WILSONART "POMPEII" Q1007
Q-2: WILSONART " LYRA" Q2001

FRP RIGID PANELS
FRP: INPRO CORPORATION SOLID COLOR: WHITE (CUSTODIAL CLOSETS) - OR EQUAL

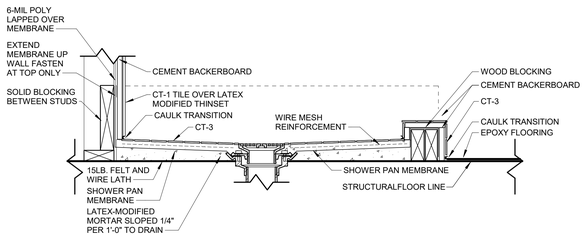
EPOXY FLOORING
EPOXY: - OR EQUAL

SIGN TYPE LEGEND

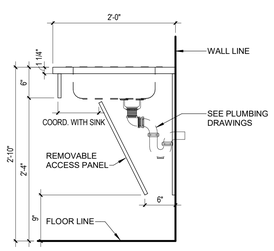
A — UNISEX RESTROOM SIGN
RAISED GRAPHICS
RAISED, 5/8" HIGH ROOM NAME WITH BRAILLE

B — ACCESSIBLE UNISEX RESTROOM SIGN
RAISED GRAPHICS
RAISED, 5/8" HIGH ROOM NAME WITH BRAILLE

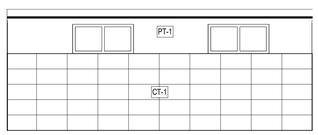
C — ROOM NAME SIGN
RAISED, 5/8" HIGH ROOM NAME WITH BRAILLE



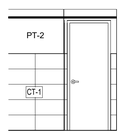
16 A601 SHOWER CURB DETAIL - TYP
1 1/2" = 1'-0"



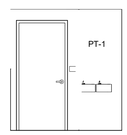
15 A601 SINK DETAIL - TYP
1" = 1'-0"



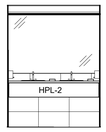
2 A601 Elevation 8 - a
1/4" = 1'-0"



3 A601 Elevation 3 - d
1/4" = 1'-0"

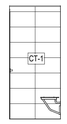


4 A601 1 - a
1/4" = 1'-0"

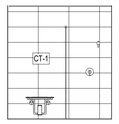


5 A601 2 - a
1/4" = 1'-0"
213B - SIM.

6 A601 3 - a
1/4" = 1'-0"
213B - SIM.

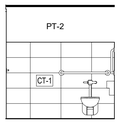


7 A601 3 - b
1/4" = 1'-0"

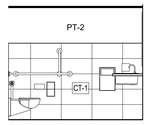


8 A601 3 - c
1/4" = 1'-0"
213B - SIM.

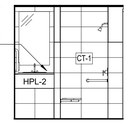
9 A601 3 - d
1/4" = 1'-0"
213B - SIM.



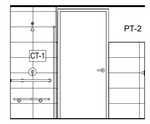
10 A601 6 - a
1/4" = 1'-0"



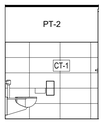
11 A601 6 - b
1/4" = 1'-0"



12 A601 6 - c
1/4" = 1'-0"



13 A601 6 - d
1/4" = 1'-0"



14 A601 Elevation 9 - a
1/4" = 1'-0"

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ISSUANCES

10-19-18	PERMIT/BID SET

INTERIOR FINISH PLANS AND ELEVATIONS

DATE 10/19/18
COMM NO. 2018066.01

A601

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0'-1" REFERENCE LINE

GENERAL FOUNDATION NOTES :

CONCRETE SLABS ON GRADE TO BE 5" CONCRETE SLAB w/ (1) LAYER 6x6 W2.9xW2.9 MESH (CENTERED IN SLAB DEPTH) ON 6" (min) GRANULAR BASE. CONTROL JOINT SPACING SHALL NOT EXCEED 12'-6" IN EITHER DIRECTION (UNO).

FD - DENOTES FLOOR DRAIN LOCATION - REFER TO PLUMBING DRAWINGS TO VERIFY QUANTITIES AND LOCATIONS. SLOPE SLAB 1/16" per FOOT (min) TO FLOOR DRAINS - MAINTAIN SLAB THICKNESS. ANY SLOPES SHOWN ON PLAN ARE FOR COORDINATION ONLY - FINAL LAYOUT TO BE VERIFIED PRIOR TO POURING SLABS.

PLUMBING LINES AND INVERT ELEVATIONS ARE ALSO SHOWN FOR EASE OF COORDINATION ONLY - FINAL LOCATIONS ARE TO BE TAKEN FROM PLUMBING DRAWINGS. FOOTINGS ARE TO BE STEPPED ACCORDINGLY IF FINAL LAYOUT DIFFERS FROM WHAT IS SHOWN HERE - SEE SHEET S251 FOR TYPICAL DETAILS.

REFER TO SHEET S251 FOR TYPICAL CONCRETE / FOUNDATION DETAILS.

GENERAL FLOOR FRAMING NOTES :

EXISTING FLOOR FRAMING CONSISTS OF 2x WOOD FRAMING @ 2'-0" c/c w/ 3/4" PLYWOOD SHEATHING AND UNDERLAYMENT ATTACHED TO TOP OF 2x's.

EXISTING BEARING STUDS CONSIST OF 2 x 4's

GENERAL ROOF FRAMING NOTES :

EXISTING ROOF STRUCTURE CONSISTS OF PRE-ENGINEERED WOOD ROOF TRUSSES SPACED @ 2'-0" c/c w/ 1/2" PLYWOOD SHEATHING AND SHINGLES.

GENERAL WOOD FRAMING NOTES :

ALL SAWN LUMBER SHALL BE No. 1 SOUTHERN YELLOW PINE WITH MC = 19%, WITHOUT CHECKS.

ALL CUTS, NOTCHES AND DRILL HOLES IN PRESSURE TREATED WOOD SHALL BE RE-TREATED IN THE FIELD ACCORDING TO **AWPA** M4 REQUIREMENTS.

HEADERS, BEAMS AND MISC. FRAMING TO BE PRESSURE TREATED No. 1 SOUTHERN YELLOW PINE WHERE EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE.

WOOD FRAME CONSTRUCTION DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (ANSI/NFoPA NDS) AND OF THE KENTUCKY BUILDING CODE.

ALL PERTINENT WOOD CONSTRUCTION DETAILS AND SPECIFICATION REQUIREMENTS CONTAINED IN CHAPTER (WOOD) OF THE **IBC** LATEST EDITION SHALL BECOME PART OF THESE CONTRACT DOCUMENTS.

ALL NAILS TO BE COMMON WIRE NAILS.

ALL THROUGH BOLTS AND THREADED RODS TO BE ASTM A307 w/ STANDARD SIZE HARDENED STEEL WASHER AGAINST THE WOOD MEMBER.

ALL FRAMING ANCHORS AND HANGERS TO BE SIMPSON "STRONG-TIE" OR EQUIVALENT.

PROVIDE BRIDGING AS RECOMMENDED BY MANUFACTURER FOR ALL ROOF MEMBERS.

ALL PROTRUDING NAILS SHALL BE CLINCHED.

ALL INTERIOR NON-LOAD BEARING STUDS SHALL BE 2 x 4's @ 2'-0" c/c (UNO)

ALL LOAD BEARING WALL CORNERS SHALL HAVE TRIPLE STUDS.

ALL NON-LOAD BEARING WALL CORNERS SHALL HAVE DOUBLE STUDS.

THE FOLLOWING NAILING SCHEDULE SHALL BE USED (UNO):

CONNECTION	NAILING
BRIDGING TO TRUSS	2d - 10d
TOP PLATE TO STUD	2d - 16d
STUD TO SOLE PLATE	2d - 16d END NAIL or 4d - 8d TOE NAIL
DOUBLE STUDS	16d @ 12" c/c
DOUBLES TOP PLATES	16d @ 8" c/c
BUILT UP COLUMNS	16d @ 12" c/c
CONTINUOUS HEADER - (2) OR MORE PIECES	16d @ 16" c/c ALONG EACH EDGE
ROOF SHEATHING	8d @ 16" c/c ALONG EDGES & 12" c/c ALONG INTERMEDIATE SUPPORTS
PLYWOOD WALL SHEATHING	8d @ 16" c/c ALONG EDGES & 12" c/c ALONG INTERMEDIATE SUPPORTS
PLYWOOD SHEATHING BLOCKED AT SHEAR WALLS	8d @ 3" o/c ALONG EDGES & 6" c/c ALONG INTERMEDIATE SUPPORTS

INTERIOR AND EXTERIOR GYPSUM BOARD SHEATHING SHALL BE FASTENED TO ALL STUDS AND TOP AND BOTTOM WALL PLATES w/ DRYWALL NAILS OR SCREWS @ 7" c/c.

INTERIOR GYPSUM BOARD SHALL EXTEND FULL HEIGHT OF WALL FROM FLOOR SLAB TO ROOF TRUSS BEARING.

STRUCTURAL DESIGN LOADS

FOUNDATION DESIGN CRITERIA:

MAXIMUM ALLOWABLE SOIL BEARING PRESSURE SHALL NOT EXCEED 1,500 PSF.

VERIFY BEARING CAPACITY OF SOIL PRIOR TO PLACEMENT OF FOOTINGS. PROVIDE COPIES OF INSPECTION AND COMPACTION REPORTS PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER.

FLOOR DESIGN LOADS:

LIVE LOAD:
= 100 psf - Stairways and Landings
= 80 psf - Corridors
= 60 psf - Restrooms (Includes 20 psf - Partition Loads)

DEAD LOAD:
= 25 psf - (Joist 2x's + sheathing)

ROOF DESIGN LOADS:

Minimum Roof Live Load = 20 psf

SNOW LOAD (ASCE 7-12):
Ground Snow Load, pg = 20 psf
Flat Roof Snow Load, pf = 20 psf
Snow Importance Factor, IS = 1.10

WIND LOAD (ASCE 7-12):
Basic Wind Speed (3 second gust), Vult = 115 mph
Wind Exposure B
Internal Pressure Coefficient = +/- 0.18
Net Wind Uplift on Joists = 8 psf

ABBREVIATIONS

All abbreviations listed here may not be used and apply only to Structural (S-series) Sheets.

Some abbreviations used may refer to other disciplines. They are shown for coordination purposes only. Refer to appropriate disciplines drawings for additional info.

A B C D E

AB - Anchor Bolt
ACI - American Concrete Institute
AFF - Above Finished Floor
AH or **AHU** - Air Handling Unit(s)
AISC - American Institute of Steel Construction
ALT - Alternate
ANSI - American National Standards Institute
ARCH - Architect(s) or Architectural
ASCE - American Society of Civil Engineers
ASD - Allowable Stress Design
ASTM - American Society for Testing and Materials
AW - Acid Waste
AWPA - American Wood Protection Association
AWS - American Welding Society
B/F or **B/FTG**- Bottom of Footing
BM - Beam
BOT or **BTM** or **B** - Bottom
BRG - Bearing
C/C - Center to Center
CFMF - Cold Formed Metal Framing
CIP - Cast-in-Place
CJ - Control Joint
CL or - Centerline
CLG - Ceiling
CLR - Clear
CMU - Concrete Masonry Unit(s)
COL - Column
CONC or **C** - Concrete
CONT - Continuous
COORD - Coordinate
DEFS - Direct-Applied Exterior Finish System
DIA or **Ø** - Diameter
DIAG - Diagonal
DIM - Dimension(s)
DN - Down
DWG(S) - Drawing(s)
EA - Each
EF - Exhaust Fan(s)
EIFS - Exterior Insulation Finish System
EJ - Expansion Joint
EL - Elevation
ELEV - Elevation or Elevator
EQ - Equal(s)
EQUIP - Equipment
EXIST - Existing
EXP - Expansion
EXT - Exterior

F G H I J K L M N O

FD - Floor Drain
FDN - Foundation
FMF - Floor Mat and Frame
FT - Foot or Feet
FIN - Finished
FL or **FLR** - Floor
FOF - Floor Opening Frame
FS - Footing Step
F.S. - Far Side
FTG or **F** - Footing
GA - Gauge
GB - Grade Beam
GC - General Contractor
GALV - Galvanized
GRV - Gravity Roof Ventilator(s)
GYP - Gypsum
HORIZ - Horizontal(ly)
HT - Height
HVAC - Heating, Ventilating & Air Conditioning
IBC - International Building Code
I.F. - Inside Face
INV - Invert
JB - Joist Bridging
JST - Joist
KB - Knee Brace
KEC - Kitchen Equipment Contractor
L - Ledge
LGMF - Light Gauge Metal Framing
LGMT - Light Gauge Metal Truss
LLH - Long Leg Horizontal
LLV - Long Leg Vertical
LRFD - Load and Resistance Factor Design
MANUF - Manufacturer(s)
MAX - Maximum
MEP - Mechanical, Electrical & Plumbing
MIN - Minimum
NCMA - National Concrete Masonry Association
NFPA - National Fire Protection Association
NIC - Not in Contract
N.S. - Near Side
NTS - Not to Scale
OAE - Or Approved Equal
OBC - Ohio Building Code
O.C. or **O/C** - On Center
O.F. - Outside Face
OPNG - Opening

P Q R S T U V W X Y Z

PB - Purlin Bridging
PC - Pile Cap or Precast
PDT - Perforated Drain Tile
PED - Pedestal
PL - Plate
R - Radius
REINF - Reinforcing or Reinforcement
REQ'D - Required
ROF - Roof Opening Frame
RTU - Roof Top Unit(s)
SAN - Sanitary
SIM - Similar
SJI - Steel Joist Institute
SOG - Slab On Grade
SPA - Space(s)
SPEC - Specification(s)
SQ - Square
STL or **S** - Steel
STM or **ST** - Storm
T - Top
T & B - Top and Bottom
TD - Trench Drain
TRANS - Transverse
TYP - Typical
UNO - Unless Noted Otherwise
VERT - Vertical(ly)
WOM - Walk-Off Mat
WP - Work Point
W.R. - Wide Rib
WWF - Welded Wire Fabric
XB - 'X' Brace

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GENERAL NOTES, DESIGN LOADS & ABBREVIATIONS

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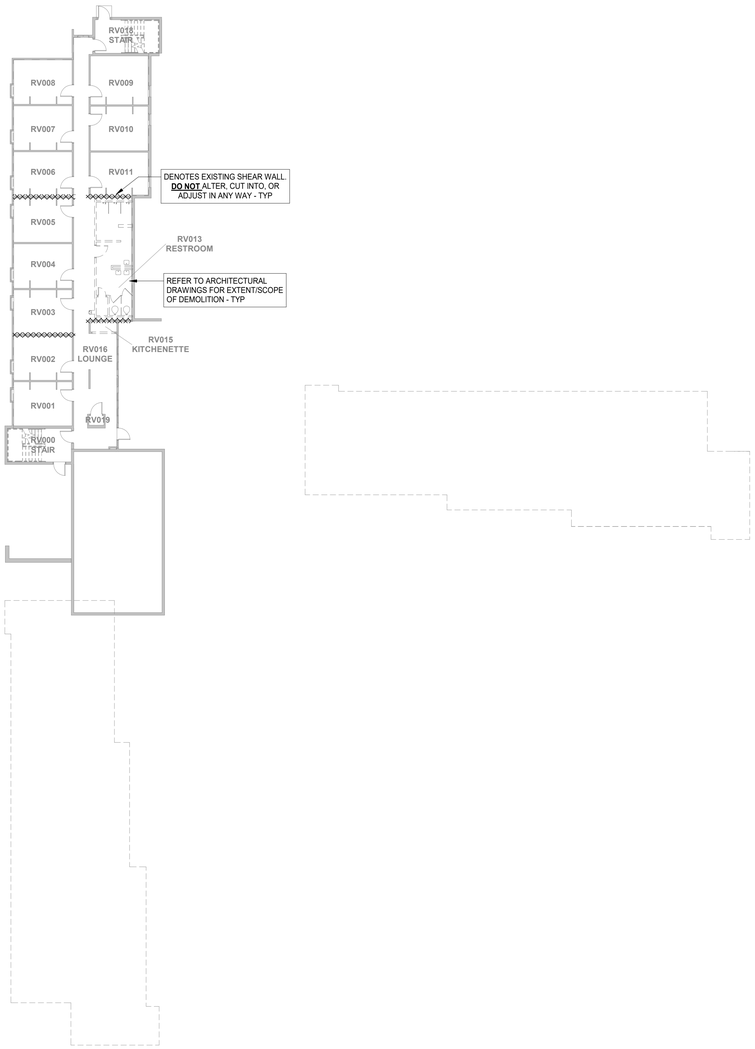

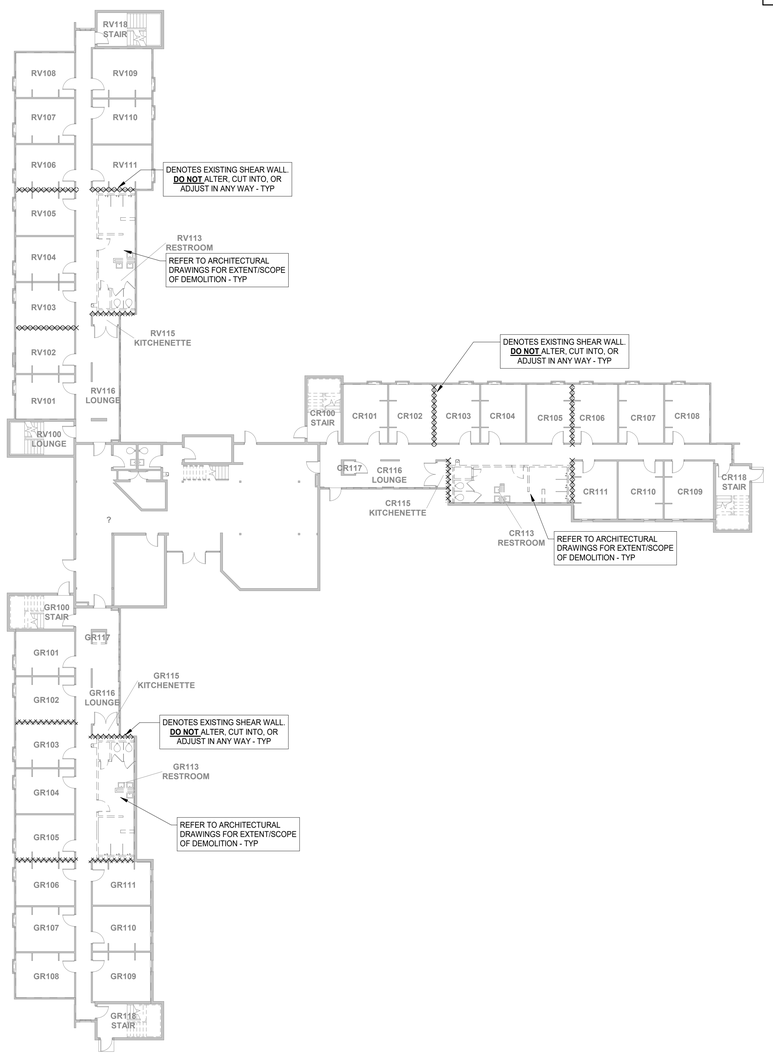

N

1 S101 OVERALL LOWER LEVEL DEMO PLAN

1/16" = 1'-0"

SEE SHEET S000 FOR GENERAL NOTES AND DESIGN LOAD INFORMATION

SEE SHEET S201 FOR NEW WORK

N

2 S101 OVERALL FIRST FLOOR DEMO PLAN

1/16" = 1'-0"

SEE SHEET S000 FOR GENERAL NOTES AND DESIGN LOAD INFORMATION

SEE SHEET S201 FOR NEW WORK

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OVERALL LOWER LEVEL & FIRST FLOOR DEMO PLANS

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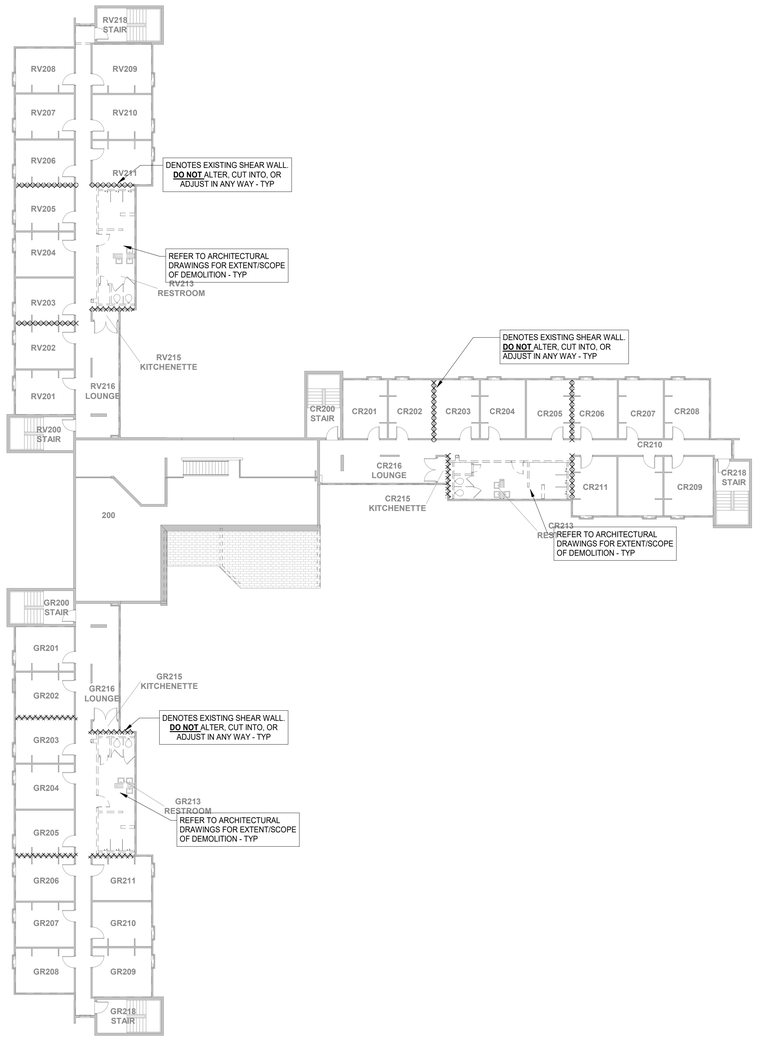

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1 S102 OVERALL SECOND FLOOR DEMO PLAN

1/16" = 1'-0"

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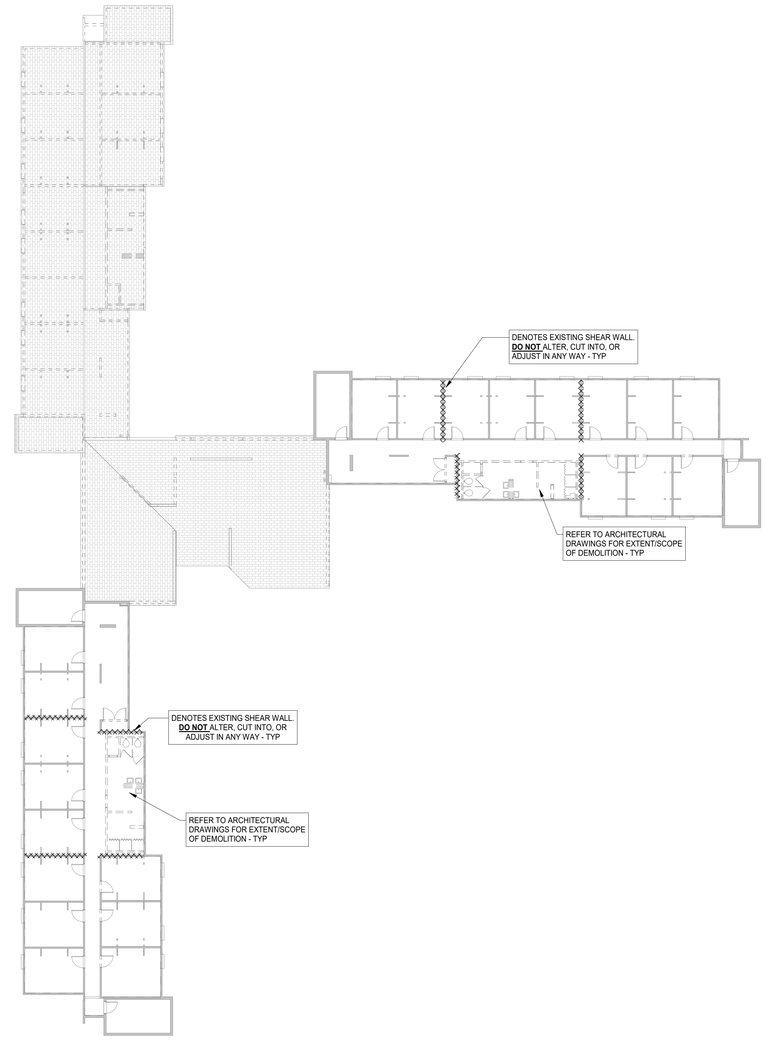
SEE SHEET S202 FOR NEW WORK



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2 S102 OVERALL THIRD FLOOR DEMO PLAN

1/16" = 1'-0"

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SEE SHEET S202 FOR NEW WORK

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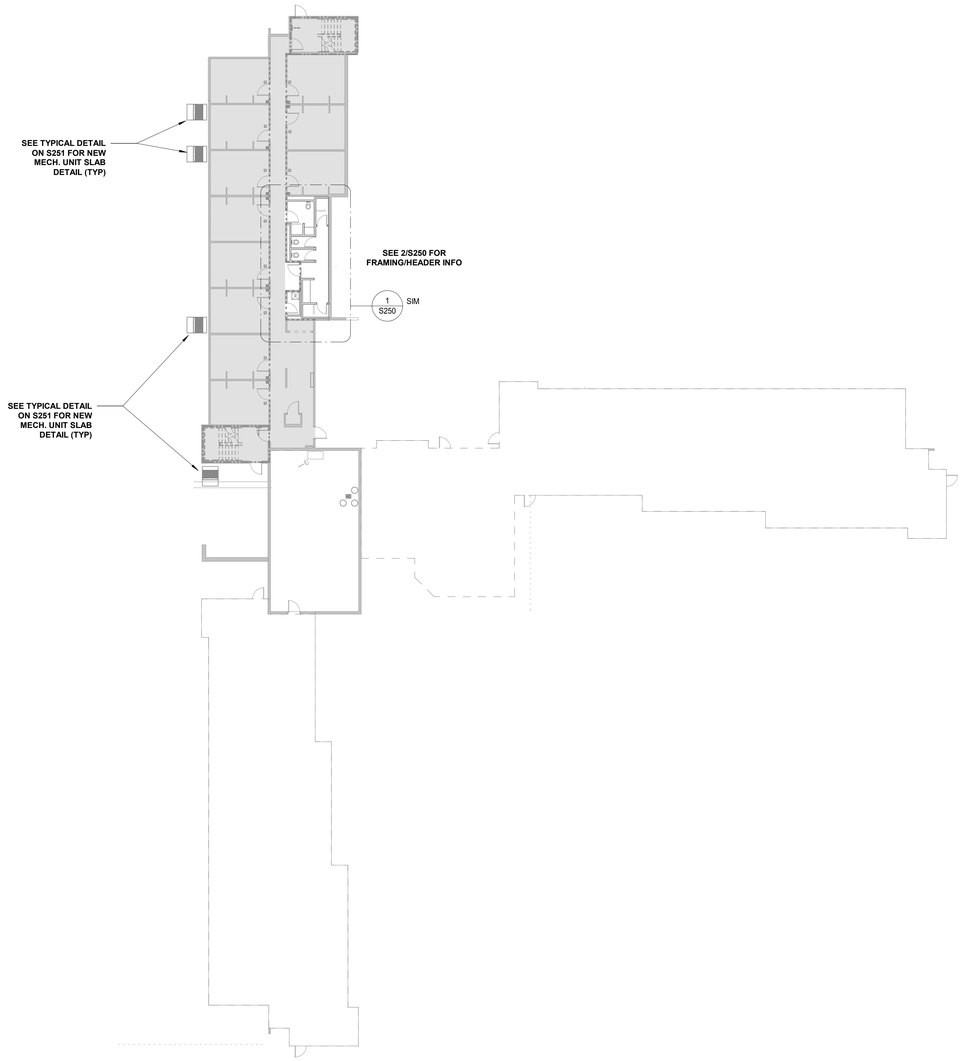

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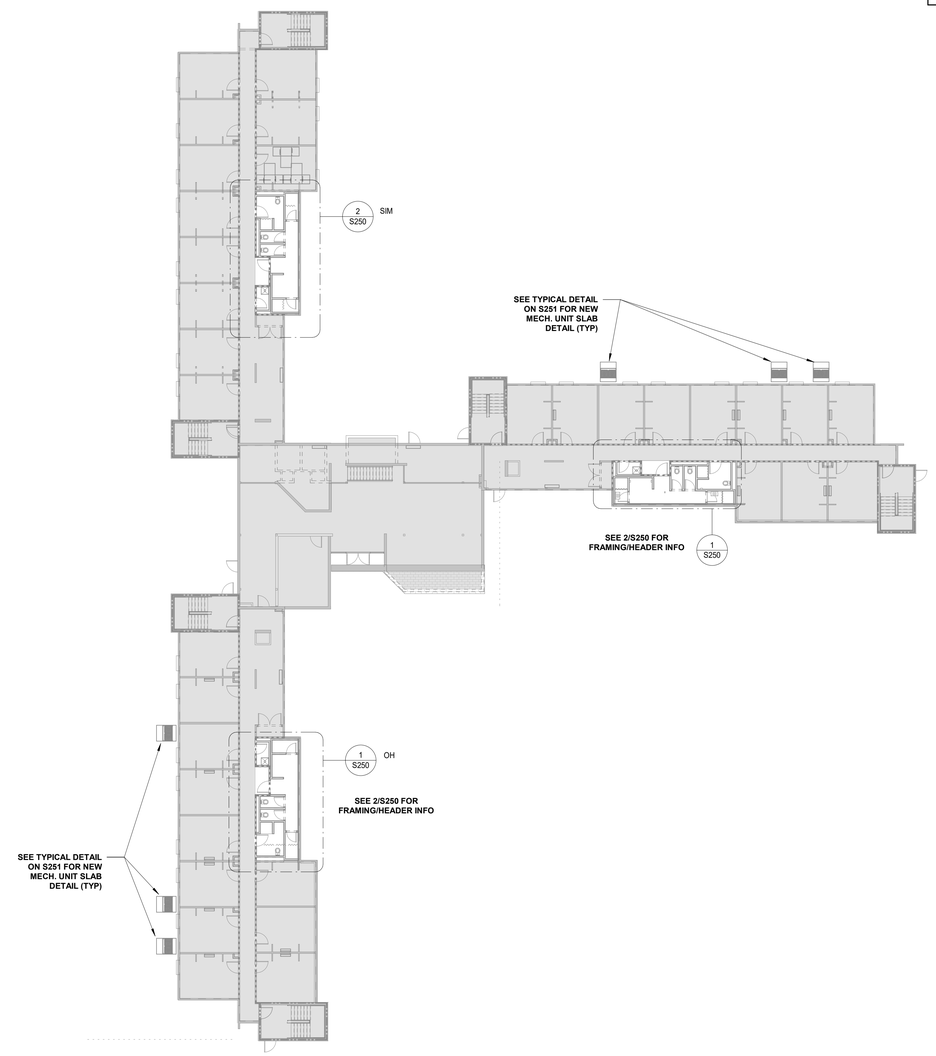
1 S201 OVERALL LOWER LEVEL PLAN
1/16" = 1'-0"



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2 S201 OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"

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OVERALL LOWER LEVEL & FIRST FLOOR PLANS

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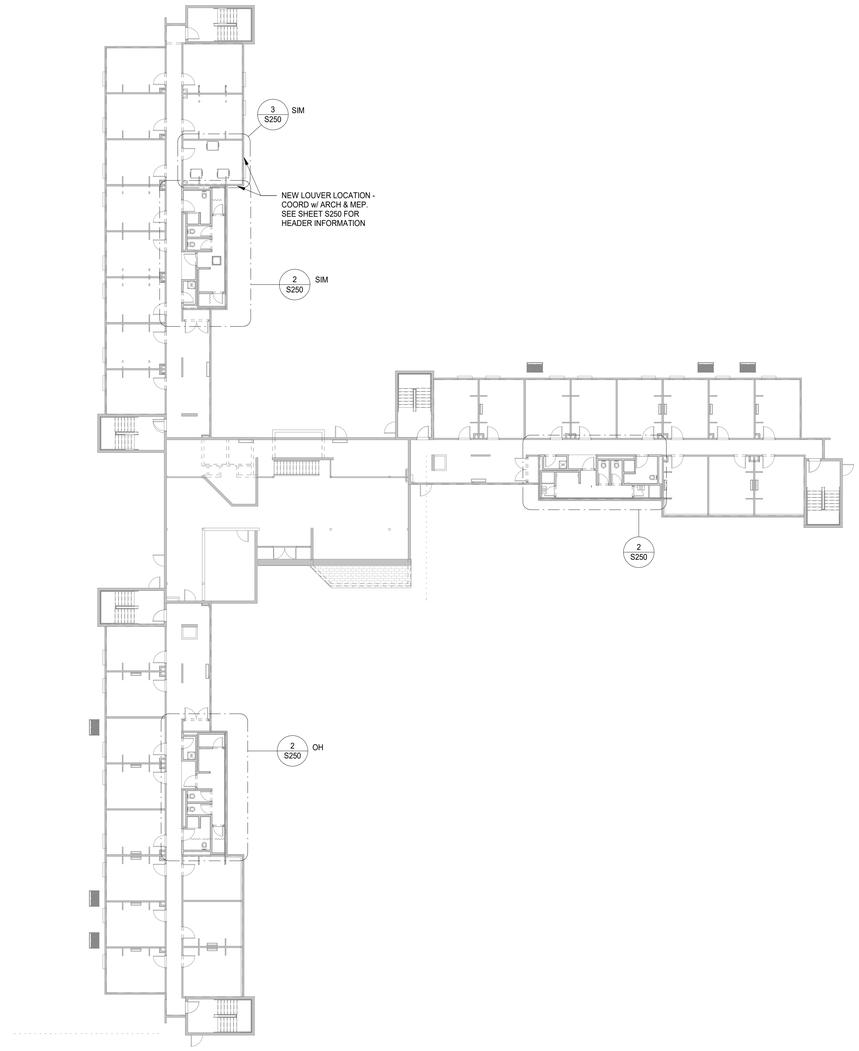

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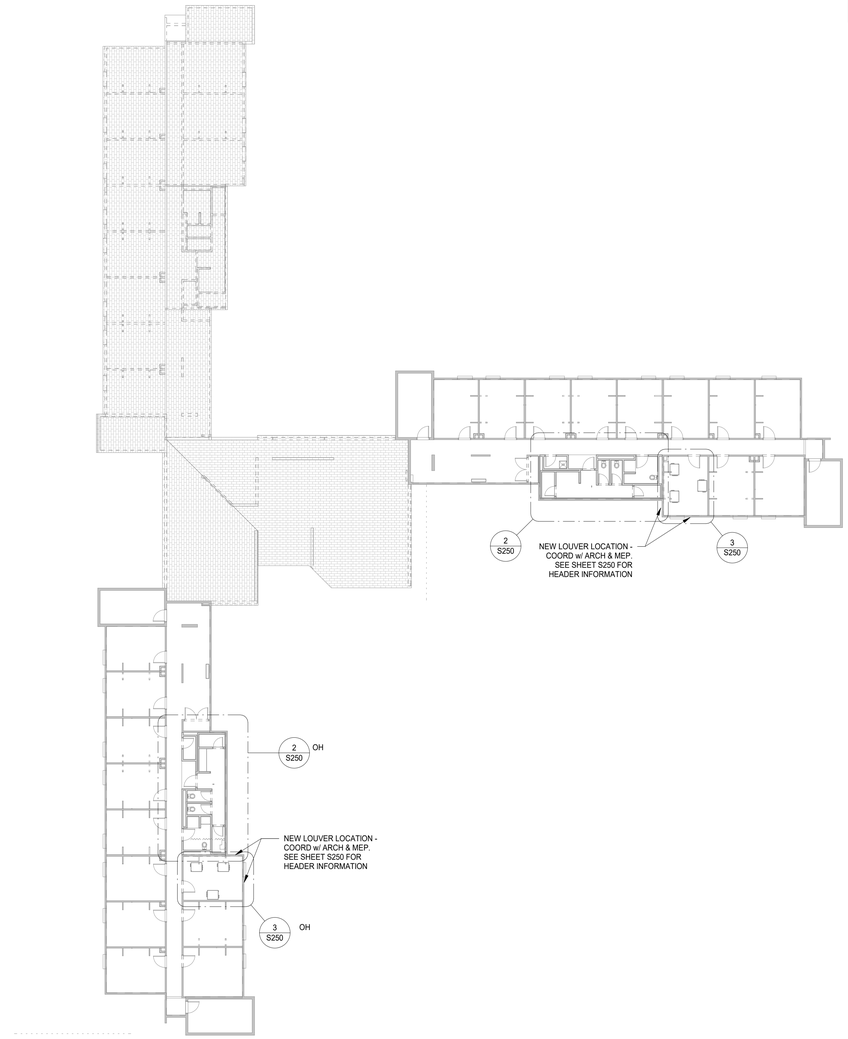
1 S202 OVERALL SECOND FLOOR PLAN
1/16" = 1'-0"



N

2 S202 OVERALL THIRD FLOOR PLAN
1/16" = 1'-0"

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OVERALL SECOND & THIRD FLOOR PLANS

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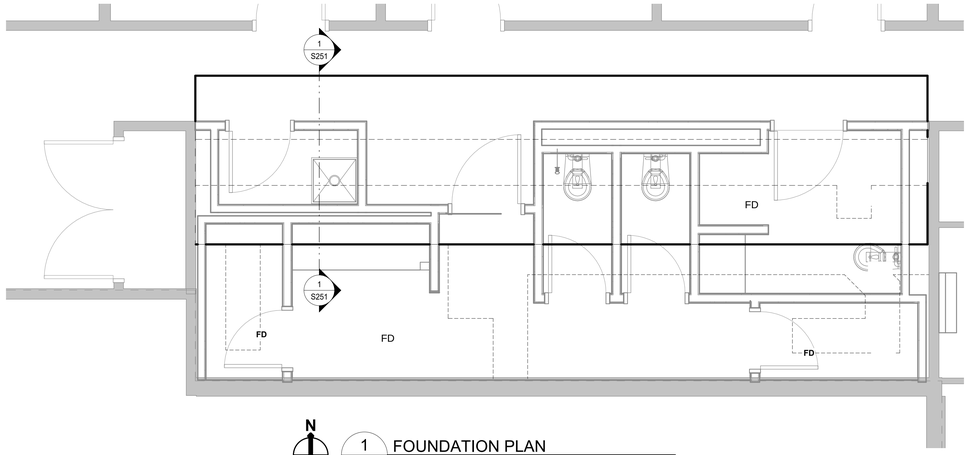


N

1 / S250 FOUNDATION PLAN

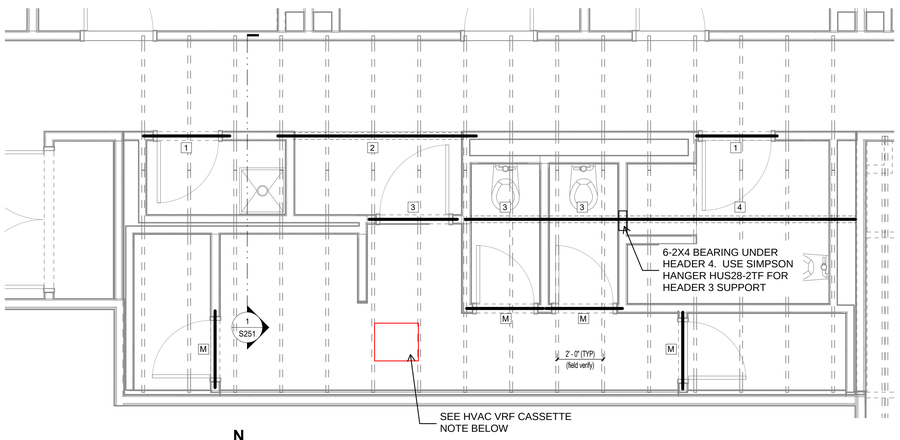
3/8" = 1'-0"

SEE SHEET S000 FOR GENERAL NOTES AND DESIGN LOAD INFORMATION

SAW CUT & REMOVE EXISTING SLAB ON GRADE AS REQ'D TO ACCEPT NEW PLUMBING. REFER TO TYPICAL DETAIL SHEET S251 FOR ADDITIONAL INFO

EXISTING STRUCTURE SHOWN DIAGRAMMATICALLY. FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT AND ENGINEER IF CONDITIONS VARY FROM WHAT IS SHOWN HERE - TYP

FD-REPRESENTS PLUMBING FLOOR DRAWINS-LOCATIONS TO BE COORDINATED WITH PLUMBING DRAWINGS



N

2 / S250 FRAMING/HEADER PLAN

3/8" = 1'-0"

SEE SHEET S000 FOR GENERAL NOTES AND DESIGN LOAD INFORMATION

COORDINATE HEADER ELEVATIONS WITH ARCHITECTURAL DRAWINGS (TYP)
NO HEADERS REQUIRED ABOVE THIRD FLOOR OPENINGS

EXISTING SHEAR WALLS ARE NOT TO BE PENETRATED OR MODIFIED (TYP) - REFER TO SHEETS S101 & S102 FOR LOCATIONS

COORDINATE PLUMBING VENTS, DUCTWORK, PIPES & WATER LINES w/ 2x FLOOR JOISTS.

EXISTING STRUCTURE SHOWN DIAGRAMMATICALLY. FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT AND ENGINEER IF CONDITIONS VARY FROM WHAT IS SHOWN HERE.

EXISTING FLOOR JOISTS ARE NOT TO BE COMPROMISED, CUT OR MODIFIED IN ANY WAY WITHOUT PRIOR WRITTEN APPROVAL FROM ARCHITECT & STRUCTURAL ENGINEER OF RECORD.

VRF CASSETTE REQUIRES 23" CLEAR SPACE IN FRAMING. PROVIDE ADDITIONAL 2 X 12 JOIST EACH SIDE OF CASSETTE, FULL LENGTH AND BEARING. CONNECT TO EXISTING FLOOR JOIST WITH 16 d NAILS AT TOP AND BOTTOM SPACED AT 12" C/C. CUT OUT EXISTING FLOOR JOIST AS NEEDED TO OBTAIN 23" CLEARANCE FOR VRF CASSETTE. DO NOT OVERCUT INTO NEW SISTERED 2X12.

WOOD HEADER SCHEDULE

		FIRST FLOOR	SECOND FLOOR
1	(2) - 2 x 6 + 1/2" PLYWOOD	w/ (3) 2 x 4 BRG STUDS	w/ (3) 2 x 4 BRG STUDS
2	3 1/2" x 11 7/8" MICROLAM	w/ (5) 2 x 4 BRG STUDS	w/ (4) 2 x 4 BRG STUDS
3	(2) - 2 x 8 + 1/2" PLYWOOD	w/ (3) 2 x 4 BRG STUDS	w/ (3) 2 x 4 BRG STUDS
4	(4) - 2 x 8	w/ (6) 2 x 4 BRG STUDS	w/ (6) 2 x 4 BRG STUDS

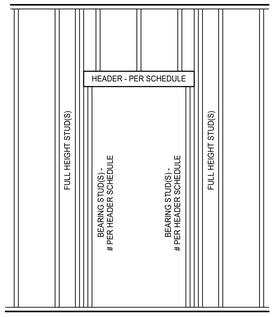
NON-LOAD BEARING WOOD WALLS - MISC M

OPENING WIDTH	HEADER	JAMB
LESS THAN 3'-9"	(2) 2 x 6	(2) 2 x 4
3'-9" UP TO 8'-0"	(2) 2 x 8	(2) 2 x 4
8'-0" UP TO 12'-0"	(2) 2 x 12	(2) 2 x 4

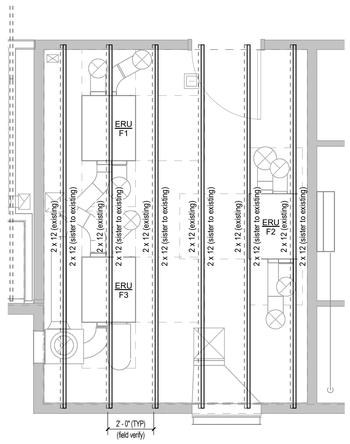
MASONRY WALL OPENINGS

FOR EACH 4" OF MASONRY THICKNESS PROVIDE :
(TO BE USED FOR BRICK OPENINGS)

L 3 1/2 x 3 1/2 x 1/4	4" BRG	UP TO 4'-0" MASONRY OPENING
L 4 x 3 1/2 x 5/16 (LLV)	4" BRG	4'-0" UP TO 5'-0" MASONRY OPENING
L 5 x 3 1/2 x 5/16 (LLV)	6" BRG	5'-0" UP TO 6'-0" MASONRY OPENING
L 6 x 3 1/2 x 5/16 (LLV)	6" BRG	6'-0" UP TO 7'-0" MASONRY OPENING



TYPICAL STUD WALL HEADER ELEVATION



N

3 / S250 THIRD FLOOR FRAMING PLAN

3/8" = 1'-0"

SEE SHEET S000 FOR GENERAL NOTES AND DESIGN LOAD INFORMATION

MEP EQUIPMENT, DUCTWORK, ETC. SHOWN HERE DIAGRAMMATICALLY. COORDINATE w/ MEP DRAWINGS.

EXISTING SHEAR WALLS ARE NOT TO BE PENETRATED OR MODIFIED (TYP) - REFER TO SHEETS S101 & S102 FOR LOCATIONS

COORDINATE PLUMBING VENTS, DUCTWORK, PIPES & WATER LINES w/ FLOOR JOISTS & ROOF TRUSSES.

EXISTING STRUCTURE SHOWN DIAGRAMMATICALLY. FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT AND ENGINEER IF CONDITIONS VARY FROM WHAT IS SHOWN HERE.

EXISTING FLOOR JOISTS & ROOF TRUSSES ARE NOT TO BE COMPROMISED, CUT OR MODIFIED IN ANY WAY WITHOUT PRIOR WRITTEN APPROVAL FROM ARCHITECT & STRUCTURAL ENGINEER OF RECORD.

SISTERED FLOOR JOISTS TO BE CONNECTED TO EXISTING JOISTS WITH 16 d NAILS AT 12"C/C,TOP AND BOTTOM.

NEW FLOOR ON EXISTING FLOOR JOISTS TO BE 3/4" TONGUE AND GROOVED PLYWOOD, GLUED AND NAILED TO JOISTS WITH 8D NAILS AT 6" C/C AT PANEL EDGES AND 12" C/C AT INTERMEDIATE SUPPORTS.

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ENLARGED FLOOR PLANS & HEADER SCHEDULES

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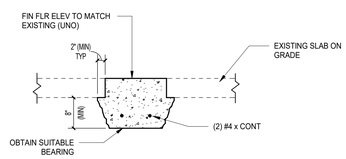
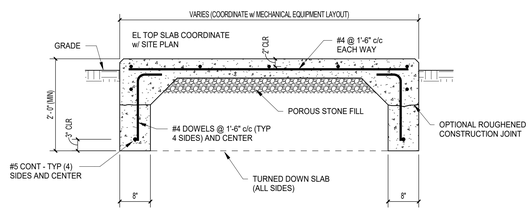


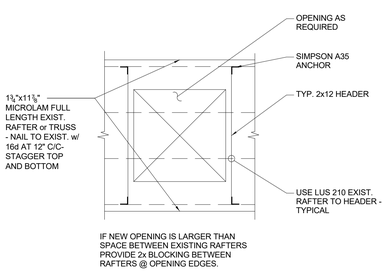
TYPICAL SLAB REPAIR/INFILL AT NEW UNDERSLAB PLUMBING LINES

SCALE : 3/4" = 1' - 0"



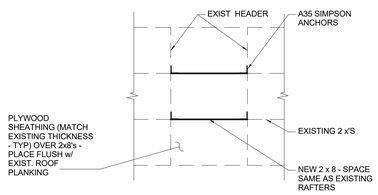
TYPICAL MECH. UNIT ON GRADE

SCALE : 3/4" = 1' - 0"



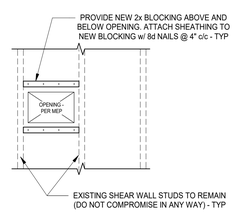
EXISTING ROOF or FLOOR RAFTER - NEW OPENING DETAIL

SCALE : 3/4" = 1' - 0"



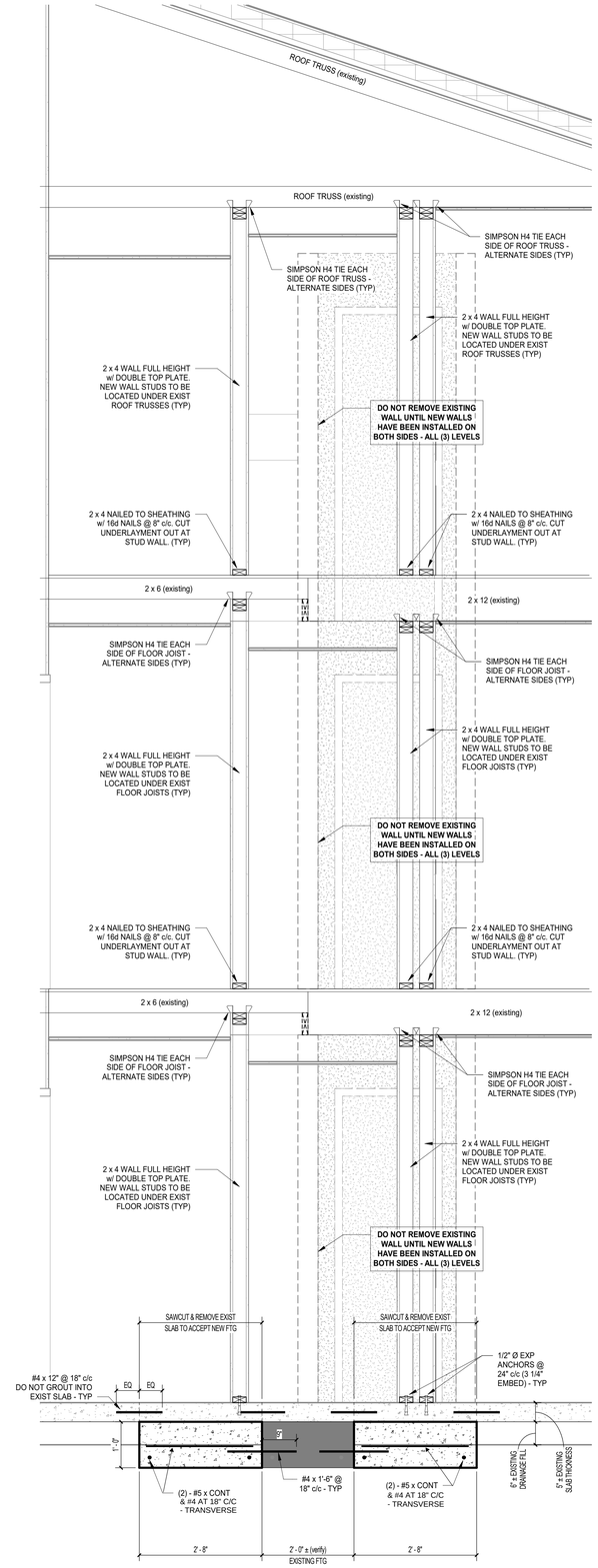
EXISTING ROOF or FLOOR - OPENING INFILL DETAIL

SCALE : 3/4" = 1' - 0"



OPENING THRU EXISTING SHEAR WALL

SCALE : 3/4" = 1' - 0"



1 S251 SECTION
3/4" = 1'-0"

0'-1" REFERENCE LINE

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23611
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10/19/18

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ISSUANCES

10/19/18	PERMIT/BID SET

TYPICAL DETAILS & SECTIONS

COMM NO. 2018066.01

S251

FIRE PROTECTION GENERAL NOTES:

A. ALL AREAS ARE PRESENTLY PROTECTED BY A 100% WET PIPE FIRE SUPPRESSION SYSTEM. CONTRACTOR SHALL MODIFY THE SYSTEM AS REQUIRED TO MAINTAIN 100% PROTECTION, IN ACCORDANCE WITH NFPA 13, KENTUCKY BUILDING CODE AND SPECIFICATIONS.

B. REFER TO A COMPLETE SET OF DOCUMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICAITONS) FOR COORDINATION OF TRADES, ROOMS, STRUCTURE AND EQUIPMENT.

C. WHERE CEILINGS ARE INDICATED ALL SPRINKLER PIPING MUST BE INSTALLED ABOVE CEILINGS. SPRINKLER PIPING MUST BE COORDINATED WITH OTHER TRADES. PIPING MUST BE OFFSET TO AVOID CONFLICTS WITH DUCTWORK, CONDUIT, ALL EQUIPMENT, ETC.

D. INSTALL HEADS IN CENTER OF 2'X2' TILES. INSTALL HEADS ON 1/4 POINTS OF THE 4' DIMENSION AND CENTER OF THE 2' DIMENSION IN 2'X4' TILES. DO NOT MOUNT HEADS IN CENTER OF 2'X4' TILE IF IT IS SCORED TO LOOK LIKE TWO 2'X2' TILES.

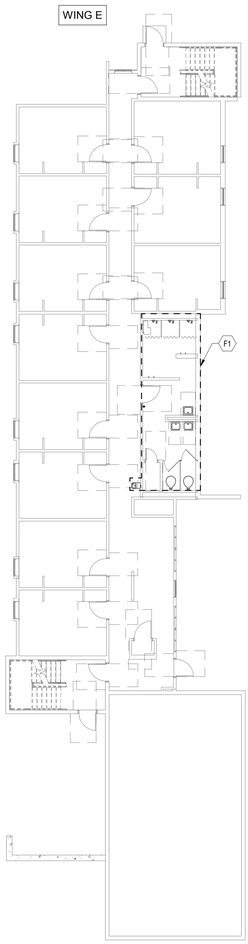
E. ALL FIRE PROTECTION PIPE SIZES SHALL BE HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA-13.

F. THE FIRE PROTECTION CONTRACTOR SHALL PERFORM HIS OWN FLOW TEST PRIOR TO SUBMITTING SHOP DRAWINGS.

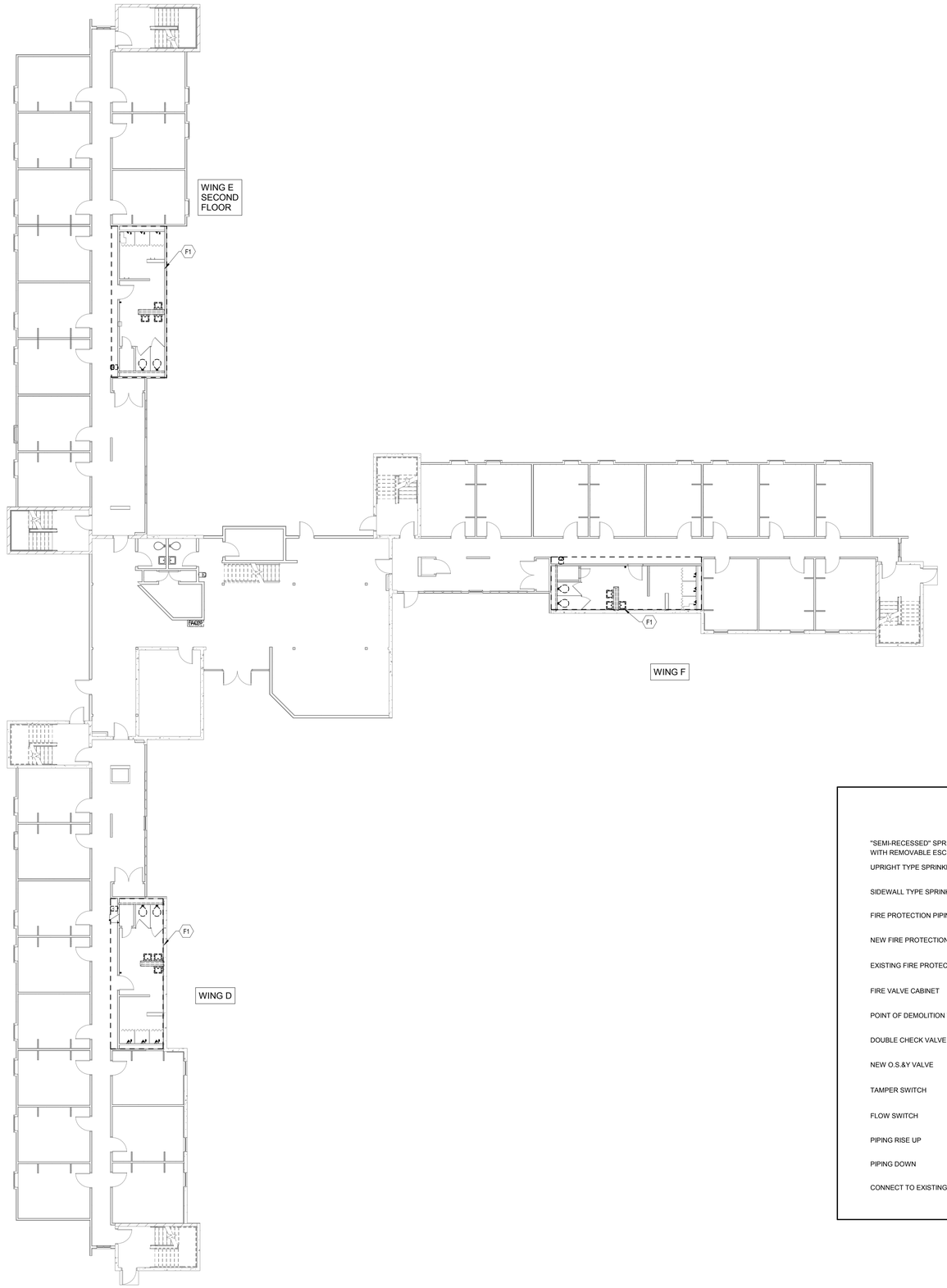
G. ALL NEW FLOOR AND WALL PENETRATIONS FROM PIPING SHALL BE FIRESTOPPED.

TAGGED NOTES (X)

F1	REWORK ALL 100% WET FIRE PROTECTION SYSTEM IN OUTLINED AREA AS NECESSARY TO COMPLY WITH NFPA-13. FIELD VERIFY NECESSARY SPRINKLER HEAD LOCATIONS WITH ALL OTHER TRADES OF NEW CONSTRUCTION. SPRINKLER CONTRACTOR SHALL INSTALL SPRINKLER PIPING SO AS TO NOT INTERFERE WITH HVAC, PLUMBING AND ELECTRICAL EQUIPMENT, MAINTENANCE/SERVICE, AND ARCHITECTURAL FINISH CLEARANCES. PIPING SYSTEM TO BE INSTALLED IN ACCORDANCE WITH NFPA 13.



2 FP301 LOWER LEVEL PLAN - FIRE PROTECTION
3/32" = 1'-0"



1 FP301 FIRST FLOOR PLAN - FIRE PROTECTION
3/32" = 1'-0"

FIRE PROTECTION LEGEND

"SEMI-RECESSED" SPRINKLER HEAD WITH REMOVABLE ESCUTCHEON PLATE	
UPRIGHT TYPE SPRINKLER HEAD	
SIDEWALL TYPE SPRINKLER HEAD	
FIRE PROTECTION PIPING TO BE REMOVED	E(FP)
NEW FIRE PROTECTION PIPING	FP
EXISTING FIRE PROTECTION PIPING	E(FP)
FIRE VALVE CABINET	FVC
POINT OF DEMOLITION TERMINATION	
DOUBLE CHECK VALVE	
NEW O.S.&Y VALVE	
TAMPER SWITCH	TS
FLOW SWITCH	FS
PIPING RISE UP	
PIPING DOWN	
CONNECT TO EXISTING	

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

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ISSUANCES

1	10/19/18	PERMIT/BID

FIRST FLOOR PLAN - FIRE PROTECTION

DATE 10/19/18

COMM NO. 2017066.01

FP301

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FIRE PROTECTION GENERAL NOTES:

A. ALL AREAS ARE PRESENTLY PROTECTED BY A 100% WET PIPE FIRE SUPPRESSION SYSTEM. CONTRACTOR SHALL MODIFY THE SYSTEM AS REQUIRED TO MAINTAIN 100% PROTECTION, IN ACCORDANCE WITH NFPA 13, KENTUCKY BUILDING CODE AND SPECIFICATIONS.

B. REFER TO A COMPLETE SET OF DOCUMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICAITONS) FOR COORDINATION OF TRADES, ROOMS, STRUCTURE AND EQUIPMENT.

C. WHERE CEILINGS ARE INDICATED ALL SPRINKLER PIPING MUST BE INSTALLED ABOVE CEILINGS. SPRINKLER PIPING MUST BE COORDINATED WITH OTHER TRADES. PIPING MUST BE OFFSET TO AVOID CONFLICTS WITH DUCTWORK, CONDUIT, ALL EQUIPMENT, ETC.

D. INSTALL HEADS IN CENTER OF 2'X2' TILES. INSTALL HEADS ON 1/4 POINTS OF THE 4' DIMENSION AND CENTER OF THE 2' DIMENSION IN 2'X4' TILES. DO NOT MOUNT HEADS IN CENTER OF 2'X4' TILE IF IT IS SCORED TO LOOK LIKE TWO 2'X2' TILES.

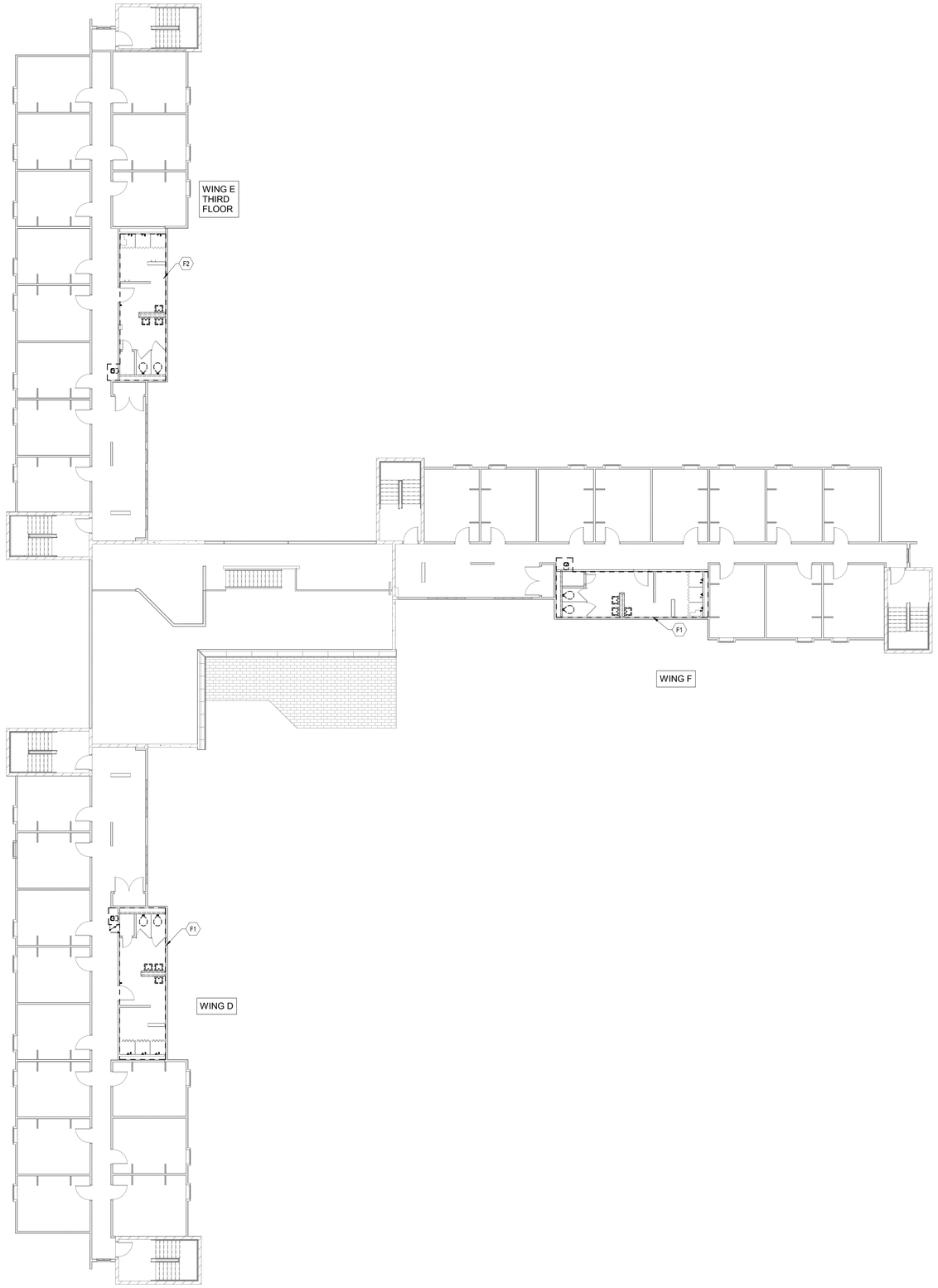
E. ALL FIRE PROTECTION PIPE SIZES SHALL BE HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA-13.

F. THE FIRE PROTECTION CONTRACTOR SHALL PERFORM HIS OWN FLOW TEST PRIOR TO SUBMITTING SHOP DRAWINGS.

G. ALL NEW FLOOR AND WALL PENETRATIONS FROM PIPING SHALL BE FIRESTOPPED.

TAGGED NOTES (X)

F1	REWORK ALL 100% WET FIRE PROTECTION SYSTEM IN OUTLINED AREA AS NECESSARY TO COMPLY WITH NFPA-13. FIELD VERIFY NECESSARY SPRINKLER HEAD LOCATIONS WITH ALL OTHER TRADES OF NEW CONSTRUCTION. SPRINKLER CONTRACTOR SHALL INSTALL SPRINKLER PIPING SO AS TO NOT INTERFERE WITH HVAC, PLUMBING AND ELECTRICAL EQUIPMENT, MAINTENANCE/SERVICE, AND ARCHITECTURAL FINISH CLEARANCES. PIPING SYSTEM TO BE INSTALLED IN ACCORDANCE WITH NFPA 13.
F2	REWORK ALL 100% DRY PIPE FIRE PROTECTION SYSTEM IN OUTLINED AREA AS NECESSARY TO COMPLY WITH NFPA-13. FIELD VERIFY NECESSARY SPRINKLER HEAD LOCATIONS WITH ALL OTHER TRADES OF NEW CONSTRUCTION. SPRINKLER CONTRACTOR SHALL INSTALL SPRINKLER PIPING SO AS TO NOT INTERFERE WITH HVAC, PLUMBING AND ELECTRICAL EQUIPMENT, MAINTENANCE/SERVICE, AND ARCHITECTURAL FINISH CLEARANCES. PIPING SYSTEM TO BE INSTALLED IN ACCORDANCE WITH NFPA 13.



1 FP302 SECOND FLOOR PLAN - FIRE PROTECTION
3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
1" 0'-1" REFERENCE LINE

STATE OF KENTUCKY
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1	10/19/18	PERMIT/BID

SECOND FLOOR PLAN - FIRE PROTECTION

DATE 10/19/18

COMM NO. 2017066.01

FP302

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FIRE PROTECTION GENERAL NOTES:

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B. REFER TO A COMPLETE SET OF DOCUMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATONS) FOR COORDINATION OF TRADES, ROOMS, STRUCTURE AND EQUIPMENT.

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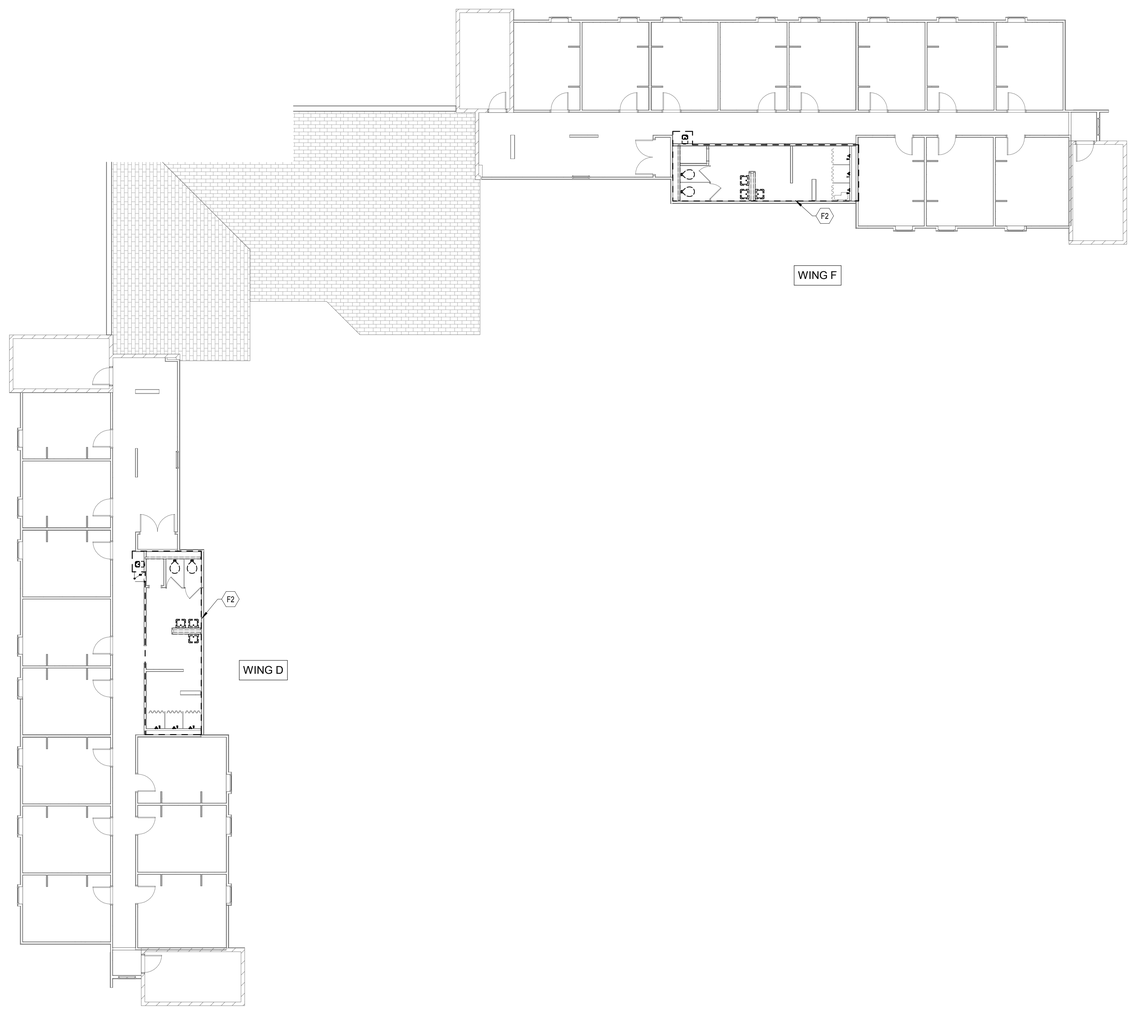
G. ALL NEW FLOOR AND WALL PENETRATIONS FROM PIPING SHALL BE FIRESTOPPED.

TAGGED NOTES (X)

F2	REWORK ALL 100% DRY PIPE FIRE PROTECTION SYSTEM IN OUTLINED AREA AS NECESSARY TO COMPLY WITH NFPA-13. FIELD VERIFY NECESSARY SPRINKLER HEAD LOCATIONS WITH ALL OTHER TRADES OF NEW CONSTRUCTION. SPRINKLER CONTRACTOR SHALL INSTALL SPRINKLER PIPING SO AS TO NOT INTERFERE WITH HVAC, PLUMBING AND ELECTRICAL EQUIPMENT, MAINTENANCE/SERVICE, AND ARCHITECTURAL FINISH CLEARANCES. PIPING SYSTEM TO BE INSTALLED IN ACCORDANCE WITH NFPA 13.



1 FP303 THIRD FLOOR PLAN - FIRE PROTECTION
3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
"0'-1" REFERENCE LINE"

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THIRD FLOOR PLAN - FIRE PROTECTION

DATE 10/19/18

COMM NO. 2017066.01

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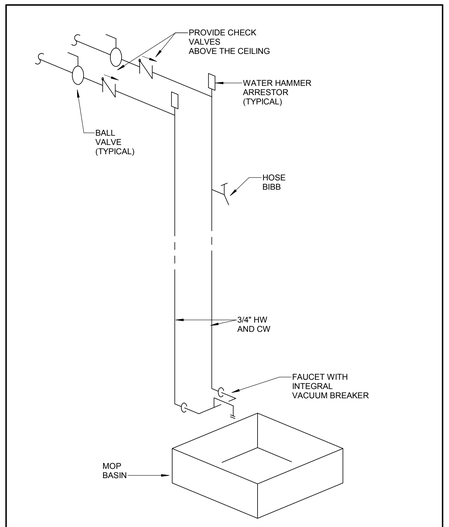
PLUMBING FIXTURE SCHEDULE					
FIXTURE TAG	DESCRIPTION	CW	HW	SAN	VENT
FD-1	FLOOR DRAIN - 6" DIA. : ZURN, ZN-415 OR EQUAL FLOOR DRAIN WITH 6" DIAMETER TOP, TYPE "B" NICKEL BRONZE STRAINER, 3" DRAIN OUTLET AND TRAP PRIMER CONNECTION.	-	-		1-1/2"
FD-2	FLOOR DRAIN - 6" DIA. : ZURN, ZN-415 OR EQUAL FLOOR DRAIN WITH 6" DIAMETER TOP, TYPE "B" NICKEL BRONZE STRAINER, 3" DRAIN OUTLET AND TRAP PRIMER CONNECTION.	-	-		1-1/2"
HB	HOSE BIBB : ZURN MODEL NO. Z1350, ENCASED MODERATE CLIMATE WALL HYDRANT FOR NARROW WALL INSTALLATION. WITH ALL BRONZE BODY, ALL BRONZE INTERIOR PARTS, REPLACEABLE SEAT WASHER, LOOSE KEY OPERATED CONTROL VALVE, VACUUM BREAKER AND 3/4" MALE HOSE CONNECTION. ADJUSTABLE STAINLESS STEEL BOX FURNISHED WITH HINGED COVER CYLINDER LOCK AND "WATER" STAMPED ON THE COVER. MOUNTED WITH HOSE CONNECTION AT 18" ABOVE FINISHED FLOOR ELEVATION OF AREA SERVED.	1/2"	-	0"	-
P-1	WATER CLOSET - WALL MOUNTED: ZURN MODEL NO. Z5615-BWL, VITREOUS CHINA, WALL MOUNTED ELONGATED BOWL, SIPHON JET, 1 1/2" TOP SPUD INLET, CHINA BOLT CAPS AND WHITE OPEN FRONT PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. PROVIDE WITH ZURN, MODEL NO. Z600AV-WS1-DF, DUAL FLUSH, MANUAL FLUSH VALVE, 1.6/1.6 GPF FLUSH VALVE. PROVIDE WALL CARRIER. MOUNT WITH BOWL AT 15" AFF.	1-1/4"	-		2"
P-1A	WATER CLOSET - WALL MOUNTED: ZURN MODEL NO. Z5615-BWL, VITREOUS CHINA, WALL MOUNTED ELONGATED BOWL, SIPHON JET, 1 1/2" TOP SPUD INLET, CHINA BOLT CAPS AND WHITE OPEN FRONT PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. PROVIDE WITH ZURN, MODEL NO. Z600AV-WS1-DF, DUAL FLUSH, MANUAL FLUSH VALVE, 1.6/1.6 GPF FLUSH VALVE. PROVIDE WALL CARRIER. MOUNT WITH BOWL AT 15" AFF.	1-1/4"	-	4"	2"
P-2	LAVATORY - UNDERMOUNT - ADA COMPLIANT: ZURN, MODEL NO.Z5220, VITREOUS CHINA, 19"X16" OVAL, UNDERMOUNT LAVATORY WITH FRONT OVERFLOW. PROVIDE WITH A ZURN, MODEL NO. Z812B4-XL, 1.0 GPM, CHROME-PLATED SOLID BRASS, 5 3/8" GOOSENECK FAUCET WITH 4" DECK PLATE. PROVIDE A GRID DRAIN, KENTUCKY CODE P-TRAP & TAILPIECE, 3/8" ANGLE SUPPLIES WITH STOPS AND ESCUTCHEONS. INSTALL ON THE SUPPLY LINES AND P-TRAP AN INSULATION KIT WITH A VINYL PLASTIC COVERING.	1/2"	1/2"	1 1/2"	1-1/2"
P-2A	LAVATORY - UNDERMOUNT - ADA COMPLIANT: ZURN, MODEL NO.Z5220, VITREOUS CHINA, 19"X16" OVAL, UNDERMOUNT LAVATORY WITH FRONT OVERFLOW. PROVIDE WITH A ZURN, MODEL NO. Z812B4-XL, 1.0 GPM, CHROME-PLATED SOLID BRASS, 5 3/8" GOOSENECK FAUCET WITH 4" DECK PLATE. PROVIDE A GRID DRAIN, KENTUCKY CODE P-TRAP & TAILPIECE, 3/8" ANGLE SUPPLIES WITH STOPS AND ESCUTCHEONS. INSTALL ON THE SUPPLY LINES AND P-TRAP AN INSULATION KIT WITH A VINYL PLASTIC COVERING.	1/2"	1/2"	1 1/2"	1-1/2"
P-3	MOP BASIN: STERN WILLIAMS, MODEL NO. HL-1800, 12" TERRAZZO MOP BASIN, 24"X24" WITH 6" DROP FRONT. PROVIDE WITH A ZURN, MODEL Z843M1-XL, CHROME-PLATED SOLID BRASS SERVICE FAUCET, HOSE AND HOSE BRACKET, VINYL BUMPERGUARD AND 3" DRAIN OUTLET. PROVIDE A CHECK VALVE IN EACH HOT AND COLD WATER SUPPLY.	3/4"	3/4"	2"	2"
P-4	SHOWER: SYMMONS, TEMPTROL MODEL NO. C-96-1-X, PRESSURE BALANCING MIXING VALVE, 1.5 GPM FLOW RATE WITH COMBINATION INTEGRAL DIVERTER AND VOLUME CONTROL, ADJUSTABLE SCREW TO LIMIT HANDLE TURN, AND A SHOWER HEAD WITH ARM AND FLANGE. PROVIDE ZURN, MODEL NO. ZN415, FLOOR DRAIN WITH TYPE "B" STRAINER.	1/2"	1/2"		1-1/2"
P-4A	SHOWER - ADA COMPLIANT: SYMMONS, TEMPTROL MODEL NO. C-96-500-B30-V-X-2.0, PRESSURE BALANCING MIXING VALVE, 1.5 GPM FLOW RATE WITH COMBINATION INTEGRAL DIVERTER AND VOLUME CONTROL, ADJUSTABLE SCREW TO LIMIT HANDLE TURN, SHOWER HEAD WITH ARM AND FLANGE, AND WALL/HAND SHOWER WITH FLEXIBLE METAL HOSE AND 30" SLIDE BAR FOR HAND SHOWER MOUNTING. PROVIDE ZURN, MODEL NO. ZN415, FLOOR DRAIN WITH TYPE"B" STRAINER.	1/2"	1/2"	2"	1-1/2"
P-5	ELECTRIC WATER COOLER - BI LEVEL - ADA COMPLIANT: ELKAY, MODEL LZSTL8WSVRSK, BARRIER FREE WATER COOLER WITH BOTTLE FILLING STATION AND SIGLE COMPRESSOR, WATER SUPPLY, DRAIN AND ELEXTRICAL CONNECTION. 8.0GPH OF 50° F WATER AT 90° F AMBIENT AND 80° F INLET WATER, 18.8 GAUGE STAINLESS STEEL BASIN, 1/5 HP COMPRESSOR, 115V/1PH, SURFACE MOUNTED TO THE WALL WITH CHILLER BELOW BOWL AND SIDE AND FRONT PUSH BAR OPERATORS. MOUNT SO THE BOTTOM OF THE LOWER COOLER IS AT 9" MINIMUM AFF WITH A CLEARANCE OF 27" MINIMUM FROM THE BOTTOM OF THE APRON OF THE BOWL TO THE FIINISED FLOOR. THE DIMENSION TO THE CENTERLINE OF THE LOWER COOLER BUBBLER SHALL BE 35". PROVIDE WITH WATER SENTRY WATER FILTER SYSTEM AND STAINLESS STEEL CANE TOUCH APRON ATTACHED TO THE HI COOLER.	1/2"	-		1-1/2"
TP-1	TRAP PRIMER: PRECISION PLUMBING PRODUCTS, PRIME-PRO MODEL NO. PRO1-500, TRAP PRIMER, WITH ATMOSPHERIC VAUUM BREAKER. TRAP PRIMER SHALL ACTIVATE ON FLOW OF WATER TO MOP BASIN AND BE INSTALLED ON THE 3/4" COLD WATER SUPPLY LINE. INSTALL UNIT AS REQUIRED BY MANUFACTURER.	3/4"	-	0"	-

PLUMBING FIXTURE SCHEDULE REMARKS:
1. ACCEPTABLE MANUFACTURERS ARE LISTED ON THIS SHEET.
2. PIPE SIZE TYPICAL, UNLESS NOTED OTHERWISE ON RISER OR PLANS.
3. UNDERGROUND WASTE PIPE SHALL NOT BE LESS THAN TWO (2) INCHES IN DIAMETER.

ACCEPTABLE MANUFACTURERS FOR PLUMBING FIXTURES, TRIM, & EQUIPMENT			
WATER CLOSETS, LAVATORIES, URINALS AMERICAN STANDARD, KOHLER.	MOP SINKS AND SERVICE SINKS FIAT PRODUCTS, AMERICAN STANDARD, KOHLER, FLORESTONE, STERN-WILLIAMS	WASH FOUNTAINS BRADLEY, ACORN, WILLOUGHBY, INTERSAN	TRAP PRIMERS PPP, SIOUX CHIEF, ZURN
FAUCETS AND TRIM AMERICAN STANDARD, KOHLER, DELTA, ZURN, MOEN	FIXTURE CARRIERS ZURN, TYLER, JOSAM, WATTS, JAY R. SMITH	EMERGENCY FIXTURES - EYEWASH, SHOWERS GUARDIAN, BRADLEY, SPEAKMAN	WATER HEATERS LOCHINVAR, AO SMITH, BRADFORD WHITE, STATE
FLUSH VALVES SLOAN, ZURN, MOEN	STAINLESS STEEL SINKS ELKAY, JUST, MOEN, STERLING	P-TRAP INSULATION KIT (TRAP WRAP) TRUEBRO, BROCAR, PLUMBEREX	TEMPERING VALVES LEONARD, LAWLER, BRADLEY, SYMMONS
FIXTURE SEATS BEMIS, CHURCH, OLSONITE	SHOWER BRADLEY, ZURN, SYMMONS, CHICAGO, SPEAKMAN, POWERS, ACORN, MOEN	FLOOR DRAINS ZURN, WADE, JOSAM, JAY R. SMITH, WATTS	EXPANSION TANKS AMTROL, WATTS, BELL & GOSSETT
ELECTRIC WATER COOLERS ELKAY, HALSEY ACORN, HAWS	WASHER BOX GUY GRAY, WOLVERINE	WALL HYDRANTS AND HOSE BIBBS ZURN, WOODFORD, WATTS	SHOWER VALVES LEONARD, LAWLER, BRADLEY, POWERS



MOP BASIN DETAL
NOT TO SCALE

PLUMBING GENERAL NOTES:

A. COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
B. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
C. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
D. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
E. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
F. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
G. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITIY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
H. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
I. WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
J. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
K. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
L. ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
M. IN ACCORDANCE WITH K.R.S. ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KENTUCKY DIVISION OF PLUMBING AND/OR THE DIVISION OF WATER. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.
N. LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
O. ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
P. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.).
Q. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
R. 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.
S. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
T. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
U. WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.
V. WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.
W. THE DOCUMENTS COMPLY WITH 2012 IMC, 2013 KBC, AND ASHRAE 90.1-2010.

PLUMBING DEMOLITION NOTES:

A. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELED VERIFY EXACT REQUIREMENTS.
B. ALL OUTAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.
C. DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.
D. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.
E. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
F. HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (U.O.N) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
G. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

SYMBOLS & ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
CD	CONDENSATE DRAIN
C.I.	CAST IRON
CW	DOMESTIC COLD WATER
DN	DOWN
FPWH	FREEZE PROOF WALL HYDRANT
HB	HOSE BIBB
HW	DOMESTIC HOT WATER
IAW	IN ACCORDANCE WITH
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
PSI	POUNDS PER SQUARE INCH
RHW	DOMESTIC RECIRCULATING HOT WATER
TP	TRAP PRIMER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
	POINT OF CONNECTION
	LIMIT OF DEMOLITION
	PIPE ELBOW TURNING UP/TURNING DOWN
	PIPE TEE TURNING UP/TURNING DOWN
CA	COMPRESSED AIR
G	GAS LINE
GW	SANITARY WASTE PIPING TO GREASE TRAP
VT	VENT PIPING
E(NAME)	EXISTING PIPING (THIN LINE)
ABAN(NAME)	ABANDONED EXISTING PIPING (THIN LINE)
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER SUPPLY
	DOMESTIC RECIRCULATING HOT WATER
CO	CLEANOUT IN CEILING SPACE
CO	FLOOR CLEANOUT
ECO	EXTERIOR CLEANOUT
	BALANCING VALVE
	BALL VALVE
	CHECK VALVE
	PIPING UNION
	THERMOMETER
FD-#	FLOOR DRAIN DESIGNATOR
P-#	PLUMBING FIXTURE DESIGNATOR
XXX X	EQUIPMENT TAG DESIGNATOR
X	TAGGED NOTE DESIGNATOR
X	REVISION DESIGNATOR
T S	TEMPERATURE SENSOR
	HOSE BIB

"0'-1" REFERENCE LINE"

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PLUMBING LEGEND, SCHEDULES AND DETAILS

DATE 10/19/18
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P100

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TAGGED NOTES

P25	DEMOLISH EXISTING LAVATORY AND ALL ASSOCIATED ACCESSORIES. DEMOLISH SANITARY VENT PIPING BACK TO EXISTING VTR STACK ON THIRD FLOOR. DEMOLISH SANITARY WASTE PIPING BACK TO MAIN BELOW AND CAP. DEMOLISH ALL DOMESTIC HOT, COLD AND RECIRULATION WATER BACK TO MAINS ON FIRST FLOOR AND ISOLATED/CAPPED FOR FUTURE CONNECTION.
P26	DEMOLISH EXISTING SHOWER AND ALL ASSOCIATED ACCESSORIES. DEMOLISH SANITARY VENT PIPING BACK TO EXISTING VTR STACK ON THIRD FLOOR. DEMOLISH SANITARY WASTE PIPING BACK TO MAIN BELOW AND CAP. DEMOLISH ALL DOMESTIC HOT, COLD AND RECIRULATION WATER BACK TO MAINS ON FIRST FLOOR AND ISOLATED/CAPPED FOR FUTURE CONNECTION.
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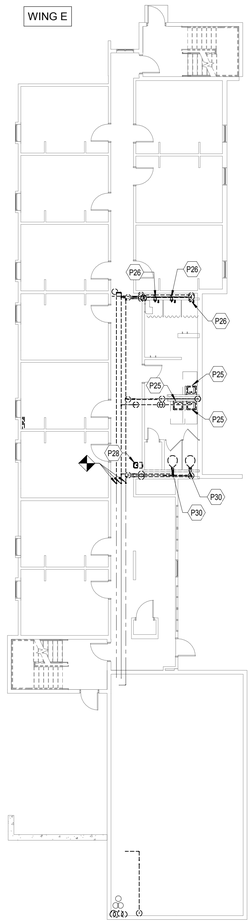

2 P200 LOWER LEVEL FLOOR PLAN - PLUMBING DEMOLITION
(3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

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LOWER LEVEL FLOOR PLAN - PLUMBING DEMOLITION

DATE 10/19/18

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P200

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TAGGED NOTES	
P26	DEMOLISH EXISTING SHOWER AND ALL ASSOCIATED ACCESSORIES. DEMOLISH SANITARY VENT PIPING BACK TO EXISTING VTR STACK ON THIRD FLOOR. DEMOLISH SANITARY WASTE PIPING BACK TO MAIN BELOW AND CAP. DEMOLISH ALL DOMESTIC HOT, COLD AND RECIRULATION WATER BACK TO MAINS ON FIRST FLOOR AND ISOLATED/CAPPED FOR FUTURE CONNECTION.
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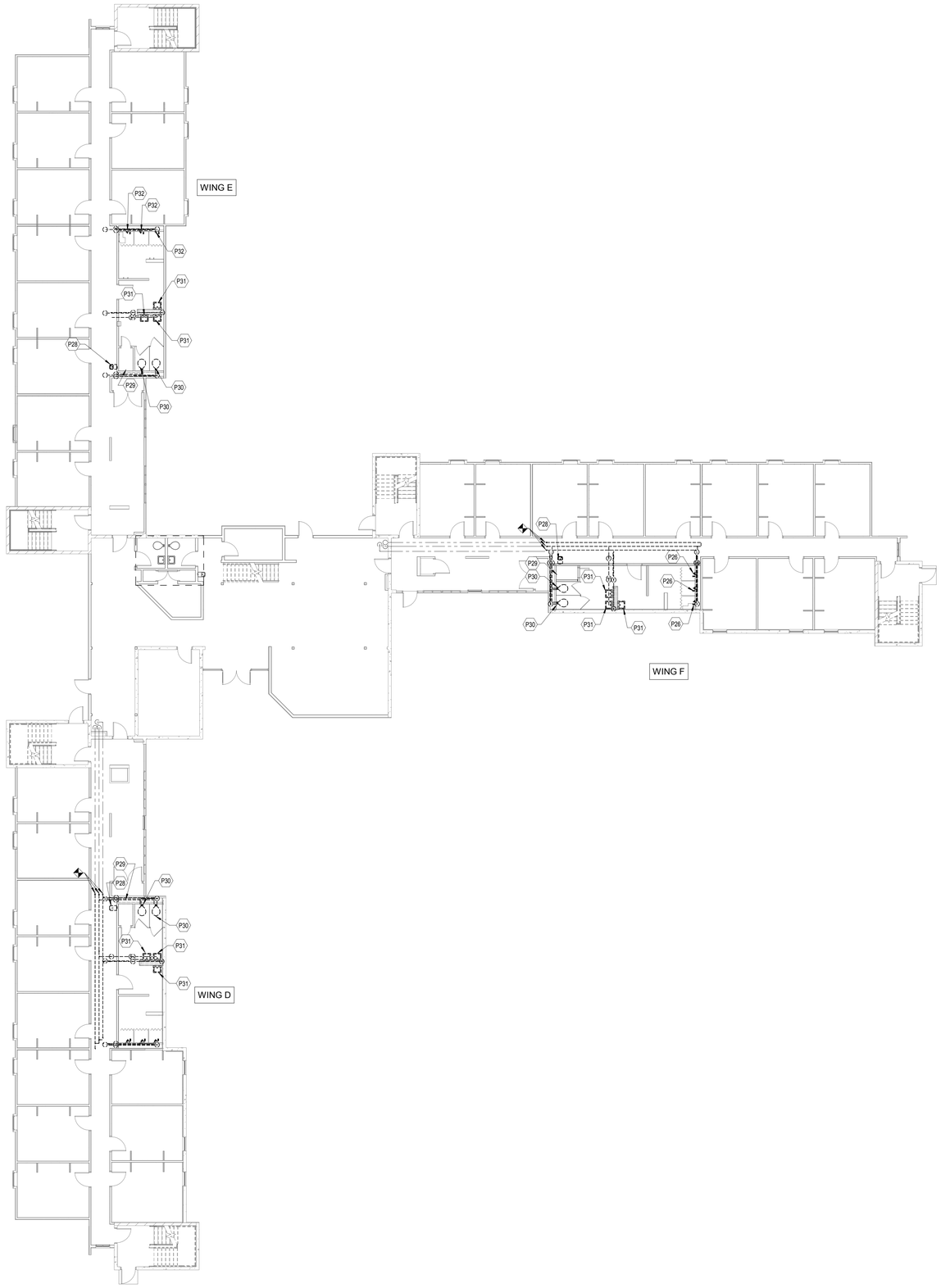

1 / P201 FIRST FLOOR PLAN - PLUMBING DEMOLITION
3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
"0'-1" REFERENCE LINE"

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FIRST FLOOR PLAN - PLUMBING DEMOLITION

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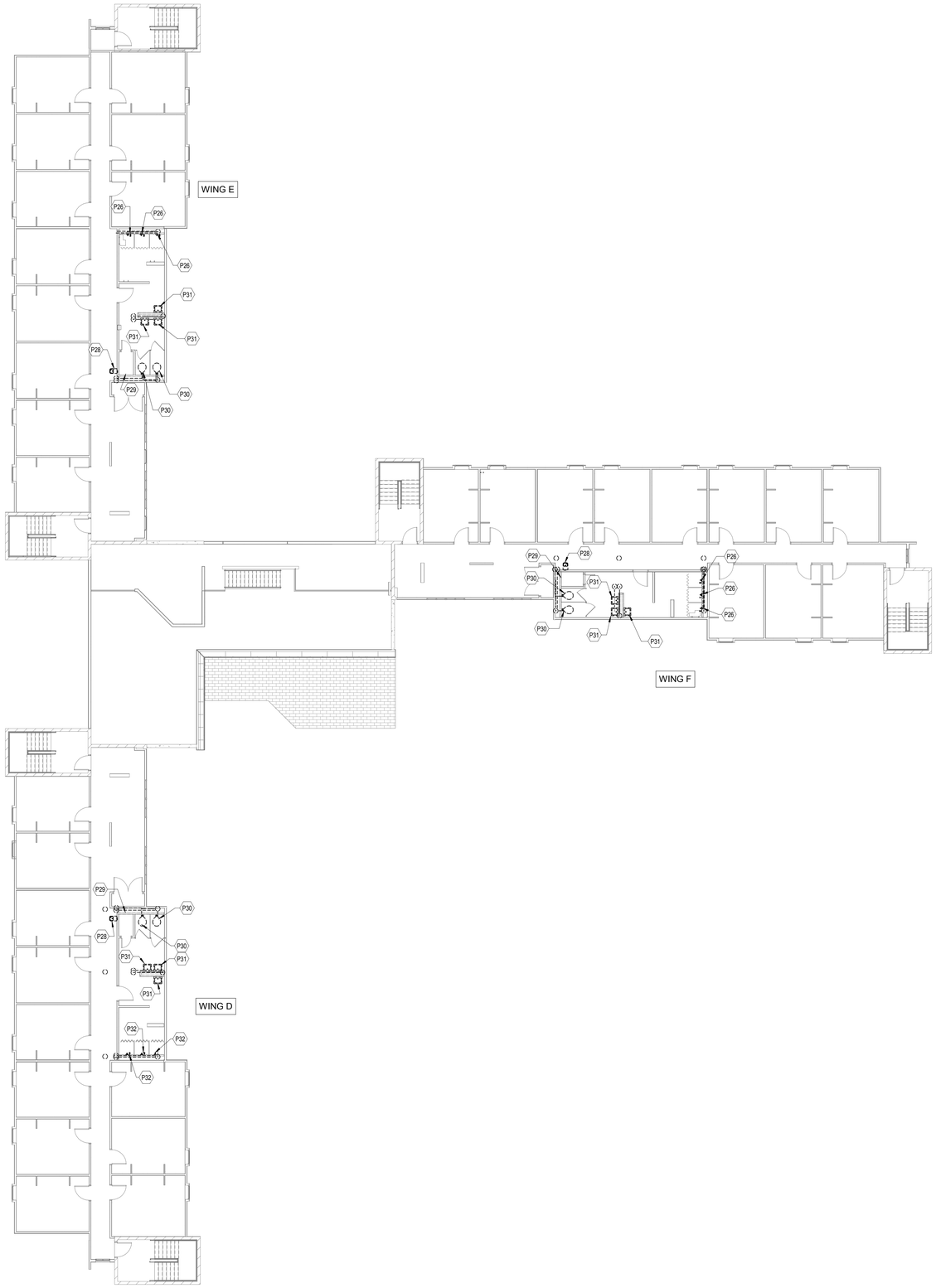

1 SECOND FLOOR PLAN - PLUMBING DEMOLITION
3/32" = 1'-0"

TAGGED NOTES

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SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

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SECOND FLOOR PLAN - PLUMBING DEMOLITION

DATE 10/19/18
COMM NO. 2017066.01

P202

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TAGGED NOTES	
P26	DEMOLISH EXISTING SHOWER AND ALL ASSOCIATED ACCESSORIES. DEMOLISH SANITARY VENT PIPING BACK TO EXISTING VTR STACK ON THIRD FLOOR. DEMOLISH SANITARY WASTE PIPING BACK TO MAIN BELOW AND CAP. DEMOLISH ALL DOMESTIC HOT, COLD AND RECIRULATION WATER BACK TO MAINS ON FIRST FLOOR AND ISOLATED/CAPPED FOR FUTURE CONNECTION.
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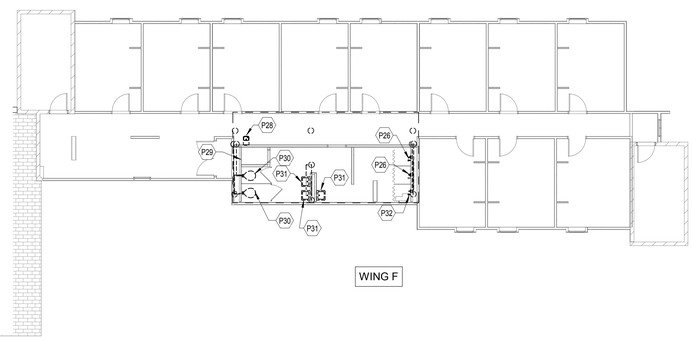

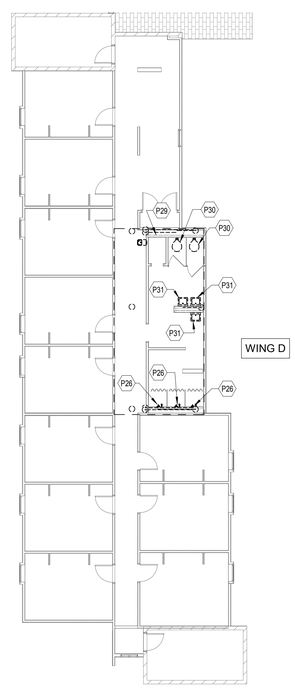

1 THIRD FLOOR PLAN - PLUMBING DEMOLITION
3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

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THIRD FLOOR PLAN - PLUMBING DEMOLITION

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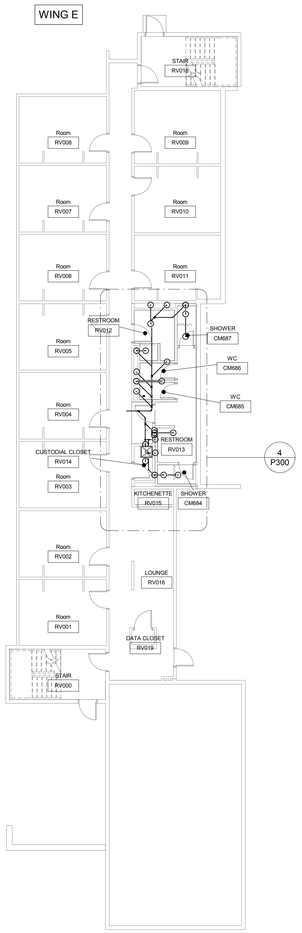
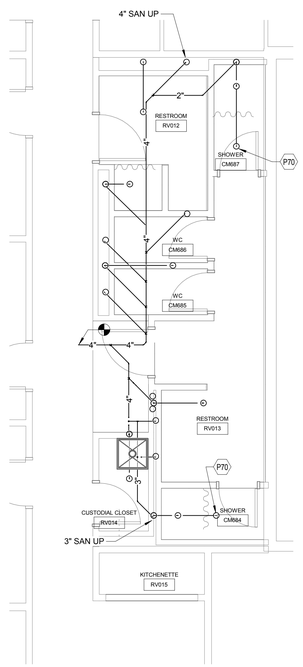
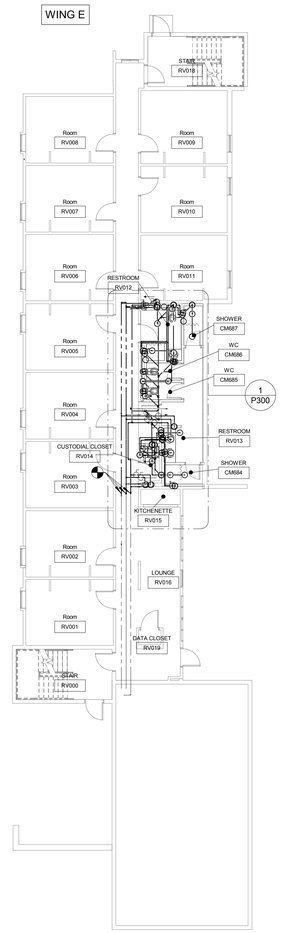
TAGGED NOTES	
P3	PROVIDE TRAP PRIMER IN THE EXPOSED COLD WATER SUPPLY OF MOP BASIN. ROUTE PIPING TO FLOOR DRAIN, FD-1, IN RESTROOM ON THIS FLOOR.
P5	PROVIDE 24"X24" ACCESS DOOR IN CEILING. COORDINATE VALVES & ACCESS DOOR WITH REFLECTIVE CEILING PLAN, ALL TRADES, ETC.
P8	3/4" HOT WATER PIPING UP & 1" HOT WATER PIPING DOWN.
P10	3/4" HOT & COLD WATER PIPING DOWN IN WALL TO LAVS & SHOWER. 1" HOT & COLD WATER PIPING UP TO FLOOR ABOVE.
P61	PROVIDE 12"X12" ACCESS DOOR IN CEILING. COORDINATE VALVES & ACCESS DOOR WITH REFLECTIVE CEILING PLAN, ALL TRADES, ETC.
P70	FLOOR DRAIN, FD-2, SHOWN FOR REFERENCE ONLY. FLOOR DRAIN MAY BE ADDED BY UNIT PRICE.
P73	4" VENT PIPING UPTO FLOOR ABOVE.
P74	PROVIDE 1/2" DOMESTIC COLD AND HOT WATER PIPING FOR KITCHENETTE SINK. PROVIDE ISOLATION VALVES TO SUPPLY PIPING LINES.



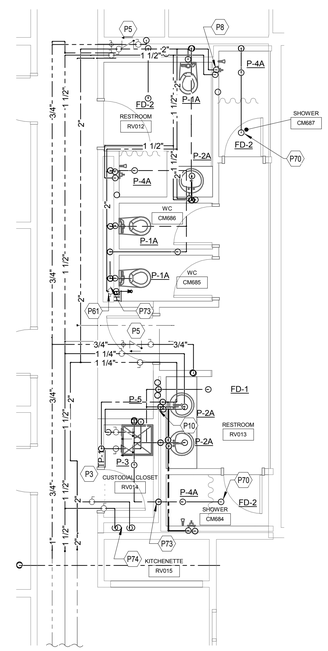
3 UNDERSLAB PLAN - PLUMBING
3/32" = 1'-0"



4 UNDERSLAB PLAN - PLUMBING - ENLARGED RESTROOM
1/4" = 1'-0"



2 LOWER LEVEL FLOOR PLAN - PLUMBING
3/32" = 1'-0"



1 LOWER LEVEL FLOOR PLAN - PLUMBING - ENLARGED RESTROOM
1/4" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

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ISSUANCES

1	10/19/18	PERMIT/BID

LOWER LEVEL FLOOR PLAN - PLUMBING

DATE 10/19/18

COMM NO. 2017066.01

P300

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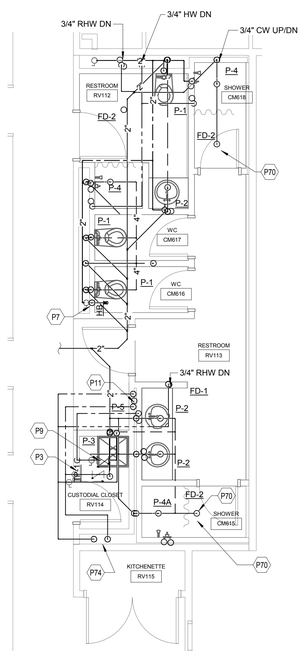
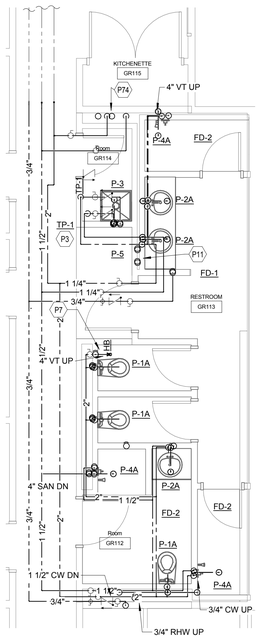
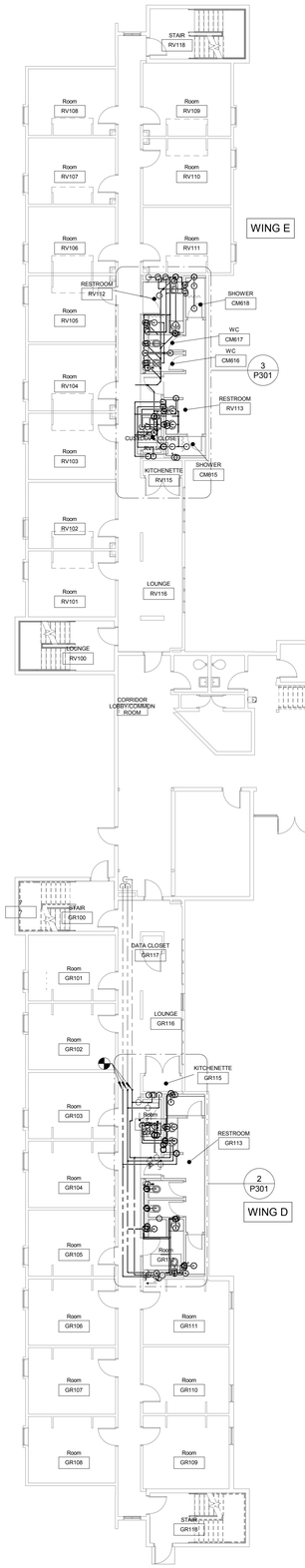
TAGGED NOTES	
P3	PROVIDE TRAP PRIMER IN THE EXPOSED COLD WATER SUPPLY OF MOP BASIN. ROUTE PIPING TO FLOOR DRAIN, FD-1, IN RESTROOM ON THIS FLOOR.
P5	PROVIDE 24"X24" ACCESS DOOR IN CEILING. COORDINATE VALVES & ACCESS DOOR WITH REFLECTIVE CEILING PLAN, ALL TRADES, ETC.
P6	2" COLD WATER PIPING UP TO WATER CLOSETS ON UPPER FLOORS & 1 1/2" COLD WATER PIPING DOWN IN CHASE TO WATER CLOSETS.
P7	1 1/2" COLD WATER PIPING TO WATER CLOSETS IN CHASE. 1 1/2" COLD WATER PIPING UP TO WATER CLOSETS ON UPPER FLOOR & 2" COLD WATER PIPING DOWN.
P9	HOT & COLD WATER SUPPLIES, CHECK VALVE, BALL VALVES, ETC. FOR MOP BASIN EXPOSED AT CEILING. PROVIDE HOSE BIBB IN WALL, 4'-0 AFF. REFER TO MOP BASIN DETAIL ON SHEET P500 FOR MORE INFORMATION.
P10	3/4" HOT & COLD WATER PIPING DOWN IN WALL TO LAVS & SHOWER. 1" HOT & COLD WATER PIPING UP TO FLOOR ABOVE.
P11	3/4" HOT & COLD WATER PIPING IN WALL TO LAVS & SHOWER. 3/4" HOT & COLD WATER PIPING UP TO FLOOR ABOVE.
P70	FLOOR DRAIN, FD-2, SHOWN FOR REFERENCE ONLY. FLOOR DRAIN MAY BE ADDED BY UNIT PRICE.
P74	PROVIDE 1/2" DOMESTIC COLD AND HOT WATER PIPING FOR KITCHENETTE SINK. PROVIDE ISOLATION VALVES TO SUPPLY PIPING LINES.

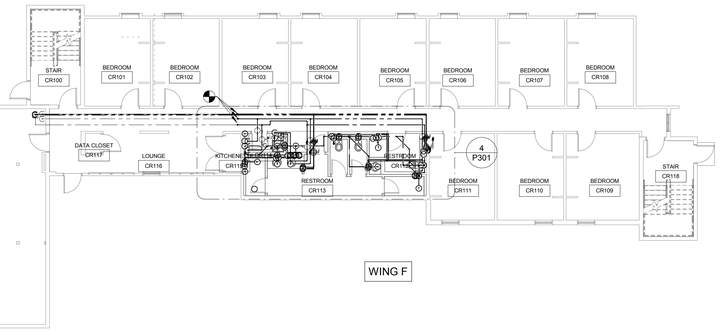


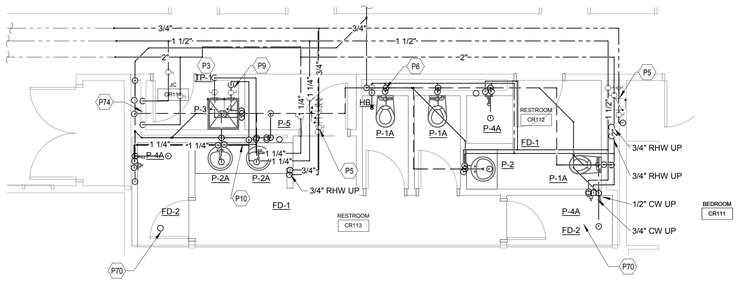
3 FIRST FLOOR PLAN - PLUMBING - ENLARGED RESTROOM WING E
1/4" = 1'-0"



2 FIRST FLOOR PLAN - PLUMBING - ENLARGED RESTROOM WING D
1/4" = 1'-0"







4 FIRST FLOOR PLAN - PLUMBING - ENLARGED RESTROOM WING F
1/4" = 1'-0"

1 P301 FIRST FLOOR PLAN - PLUMBING
3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

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ISSUANCES		
1	10/19/18	PERMIT/BID

FIRST FLOOR PLAN - PLUMBING

DATE 10/19/18
COMM NO. 2017066.01

P301

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TAGGED NOTES	
P3	PROVIDE TRAP PRIMER IN THE EXPOSED COLD WATER SUPPLY OF MOP BASIN. ROUTE PIPING TO FLOOR DRAIN, FD-1, IN RESTROOM ON THIS FLOOR.
P7	1 1/2" COLD WATER PIPING TO WATER CLOSETS IN CHASE. 1 1/2" COLD WATER PIPING UP TO WATER CLOSETS ON UPPER FLOOR & 2" COLD WATER PIPING DOWN.
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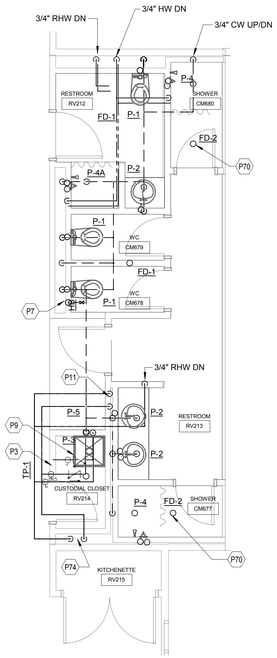
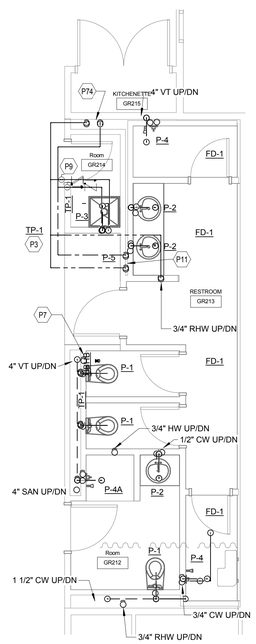
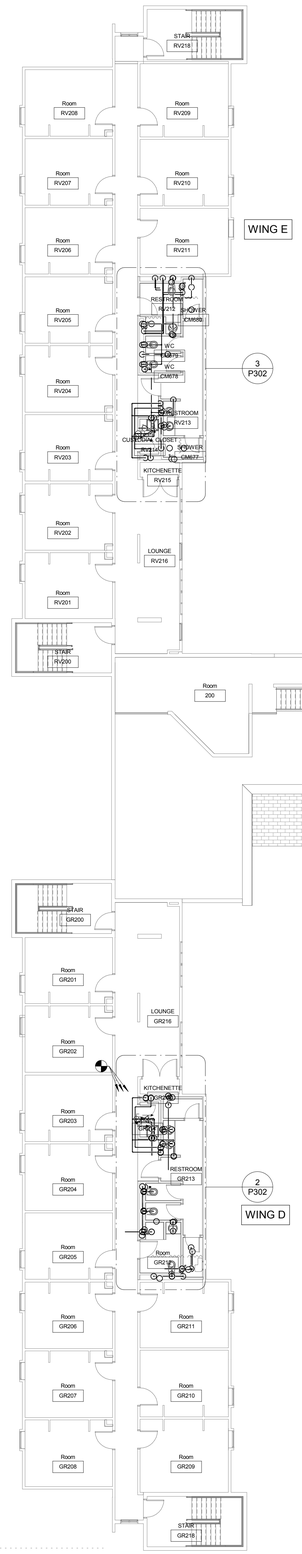
P12	3/4" HOT & COLD WATER PIPING IN WALL TO LAVS & SHOWER. 3/4" HOT & COLD WATER PIPING DOWN TO FLOOR BELOW.
P68	ROUTE NEW VENT PIPING UP INTO ATTIC SPACE. TIE INTO NEARBY EXISTING 4" VENT PIPING THAT CONTINUES OUT ROOF.
P70	FLOOR DRAIN, FD-2, SHOWN FOR REFERENCE ONLY. FLOOR DRAIN MAY BE ADDED BY UNIT PRICE.
P74	PROVIDE 1/2" DOMESTIC COLD AND HOT WATER PIPING FOR KITCHENETTE SINK. PROVIDE ISOLATION VALVES TO SUPPLY PIPING LINES.



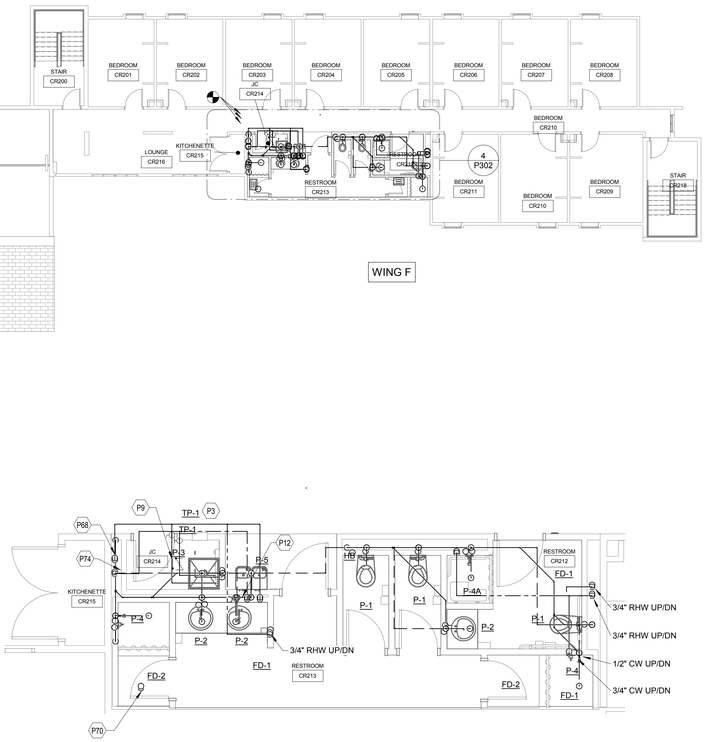
3 SECOND FLOOR PLAN - PLUMBING - ENLARGED RESTROOM WING E
1/4" = 1'-0"



2 SECOND FLOOR PLAN - PLUMBING - ENLARGED RESTROOM WING D
1/4" = 1'-0"



1 SECOND FLOOR PLAN - PLUMBING
P302 3/32" = 1'-0"



4 SECOND FLOOR PLAN - PLUMBING - ENLARGED RESTROOM WING F
1/4" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

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ISSUANCES		
1	10/19/18	PERMIT/BID

SECOND FLOOR PLAN - PLUMBING

DATE 10/19/18
COMM NO. 2017066.01

P302

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TAGGED NOTES	
P3	PROVIDE TRAP PRIMER IN THE EXPOSED COLD WATER SUPPLY OF MOP BASIN. ROUTE PIPING TO FLOOR DRAIN, FD-1, IN RESTROOM ON THIS FLOOR.
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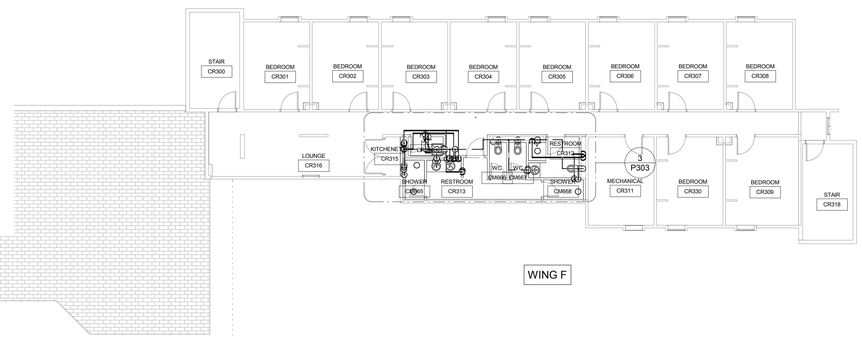
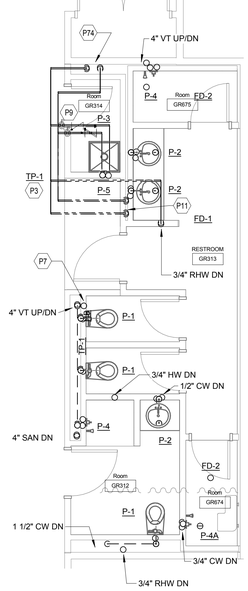
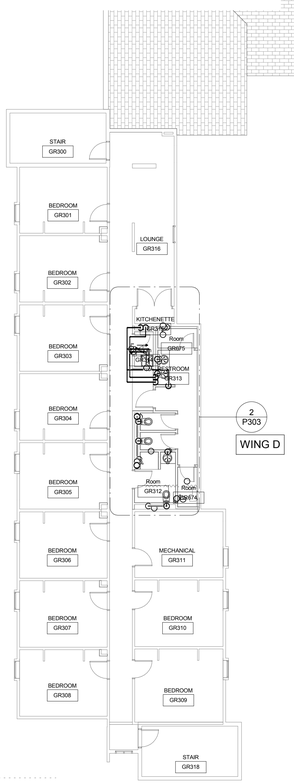
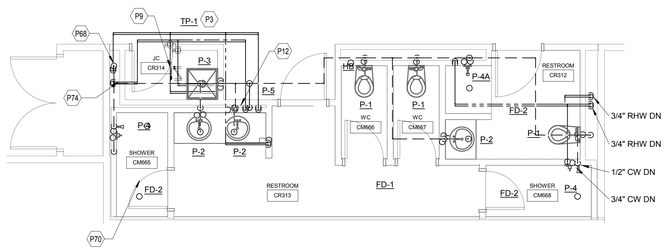




2 THIRD FLOOR PLAN - PLUMBING - ENLARGED RESTROOM WING D
1/4" = 1'-0"



1 THIRD FLOOR PLAN - PLUMBING
P303 3/32" = 1'-0"



3 THIRD FLOOR PLAN - PLUMBING - ENLARGED RESTROOM WING F
1/4" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

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ISSUANCES

1	10/19/18	PERMIT/BID

THIRD FLOOR PLAN - PLUMBING

DATE 10/19/18

COMM NO. 2017066.01

P303

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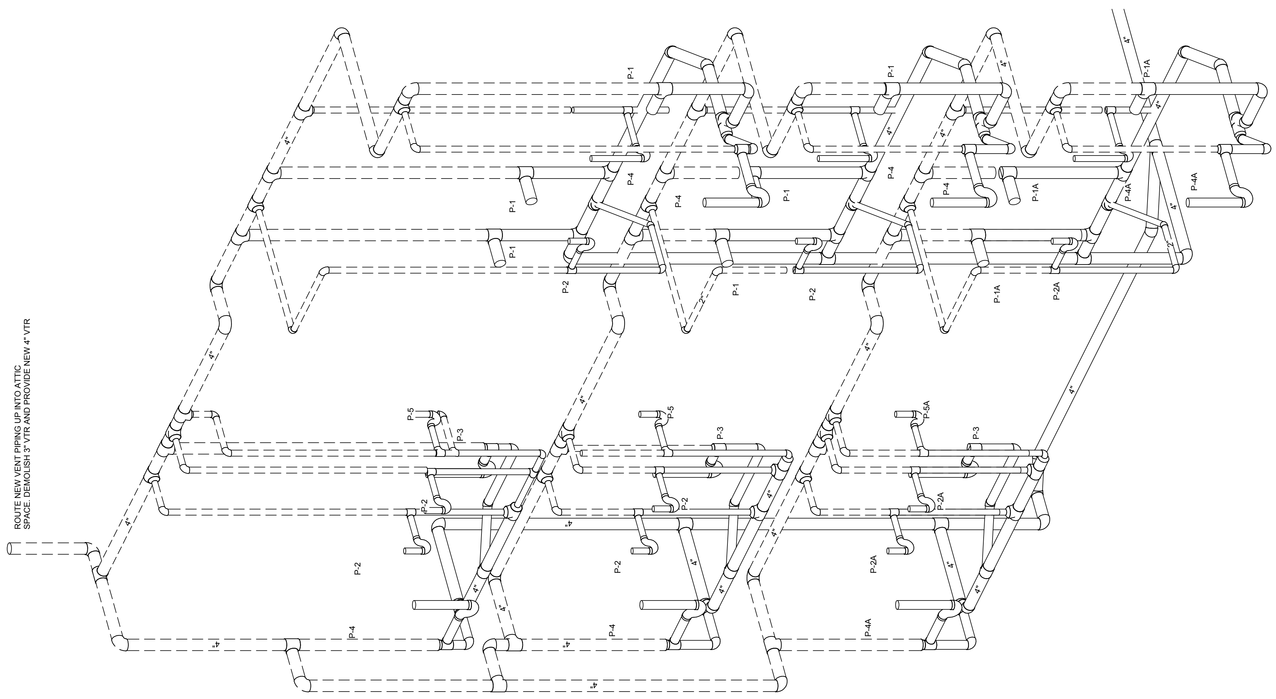

1 TYPICAL BATHROOM RISER

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CAROLINE
MARIE
KELLY
LICENSED
PROFESSIONAL ENGINEER

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ISSUANCES

1	10/19/18	REBIDDING

PLUMBING RISERS

DATE 10/19/18

COMM NO. 2017066.01

P400

6" = REFERENCE LINE

HAZARDOUS MATERIALS NOTE:

A. THE OWNER HAS ATTEMPTED TO REMOVE ALL KNOWN ASBESTOS; HOWEVER, THE CONTRACTOR IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC. WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN ME ASCERTAINED TO BE NON-HAZARDOUS. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. NKU WILL ATTEMPT TO HAVE A REPORT IDENTIFYING THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS, OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM/HER IMMEDIATELY. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, IT'S PRINCIPALS, EMPLOYEES, AGENTS, OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, IT'S PRINCIPALS, EMPLOYEES, AGENTS, OR CONSULTANT HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS, OR ANY OTHER THIRD PARTY.

MECHANICAL GENERAL NOTES:

A. COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.

B. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

C. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.

D. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.

E. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.

F. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.

G. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)

H. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.

I. IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB. CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.

J. WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.

K. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.

L. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.

M. ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.

N. INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS.

O. LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.

P. ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.

Q. COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.

R. INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.

S. SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.

T. SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL, IRONGRIP 6O1 OR EQUAL WATER BASED SEALANT.

U. ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.

V. THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.

W. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.

X. DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.

Y. 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.

Z. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

AA. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.

AB. ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.

AC. WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.

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

AE. THE DOCUMENTS COMPLY WITH 2012 IMC, 2013 KBC, AND 2009 IECC.

AF. REFRIGERANT LINE FROM HP-"X" TO RC-"X" INDICATES LIQUID, SUCTION, AND GAS LINES OF VARIABLE REFRIGERANT FLOW SYSTEM. REFRIGERANT LINE FROM RC-"X" TO AC-"X"/CC-"X"/WC-"X"/FS-"X" INDICATES LIQUID AND GAS LINES OF VARIABLE REFRIGERANT FLOW SYSTEM.

AG. WITH THE EXCEPTION OF DORMITORY DIRECTOR APARTMENT, THE BUILDING WILL BE UNOCCUPIED DURING THE CONSTRUCTION PERIOD. WORK THAT WILL BE IN PROXIMITY TO DORMITORY DIRECTOR APARTMENT MUST OCCUR DURING 8:00AM - 5:00PM TIMEFRAME.

AH. CONTRACTOR SHALL PROVIDE NECESSARY MEANS TO PREVENT DAMAGE TO FINISHES FROM EXPANSION AND CONTRACTION DURING RENOVATION. CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS PRIOR TO CONSTRUCTION TO INDICATE FINISHES THAT HAVE BEEN PREVIOUSLY DAMAGED.

SYMBOLS & ABBREVIATIONS

	SUPPLY DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE
	LINEAR SLOT DIFFUSER
SA	SUPPLY AIR DUCT
RA	RETURN AIR DUCT
EA	EXHAUST AIR DUCT
RA	OUTSIDE AIR DUCT
OA	TRANSFER AIR DUCT
SA	SA AIR DUCT TURNING UP
SA	SA AIR DUCT TURNING DOWN
RA	RA AIR DUCT TURNING UP
RA	RA AIR DUCT TURNING DOWN
EA	EA AIR DUCT TURNING UP
EA	EA AIR DUCT TURNING DOWN
D(NAME)	DUCT TO BE DEMOLISHED
E(NAME)	EXISTING DUCT
	FLEXIBLE DUCT
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
	MOTORIZED DAMPER
	VOLUME DAMPER
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
BAS	BUILDING AUTOMATION SYSTEM
CAV	CONSTANT AIR VOLUME BOX
CD	CONDENSATE DRAIN
C.I.	CAST IRON
CO	CARBON MONOXIDE SENSOR
DD	DUCT SMOKE DETECTOR
DN	DOWN
FD	FIRE DAMPER
ID	INSIDE DIMENSION
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OUTSIDE DIMENSION
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OR	OPEN RECEPTACLE
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSI	POUNDS PER SQUARE INCH
S	SWITCH
SD	SMOKE DAMPER
TB	THRUST BLOCK
TE	TOP ELEVATION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

VAV	VARIABLE AIR VOLUME BOX
VFD	VARIABLE FREQUENCY DRIVE
XXX X	EQUIPMENT TAG DESIGNATOR
	POINT OF CONNECTION
	LIMIT OF DEMOLITION
	PIPE ELBOW TURNING UP/TURNING DOWN
	PIPE TEE TURNING UP/TURNING DOWN
R	REFRIGERANT
CD	CONDENSATE DRAIN
D(NAME)	PIPING TO BE DEMOLISHED
E(NAME)	EXISTING PIPING
ABAN(NAME)	ABANDONED EXISTING PIPING
	EXISTING DUCT OR PIPING TO BE REMOVED
	BALL VALVE
	PIPING UNION
	THERMOMETER
X	TAGGED NOTE DESIGNATOR
X	REVISION DESIGNATOR
T	THERMOMETER
T_S	TEMPERATURE SENSOR

"0'-1" REFERENCE LINE"

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ISSUANCES

#	DATE	DESCRIPTION
1	10/19/18	PERMIT/BID

MECHANICAL LEGEND

DATE 10/19/18

COMM NO. 2017066.01

M100

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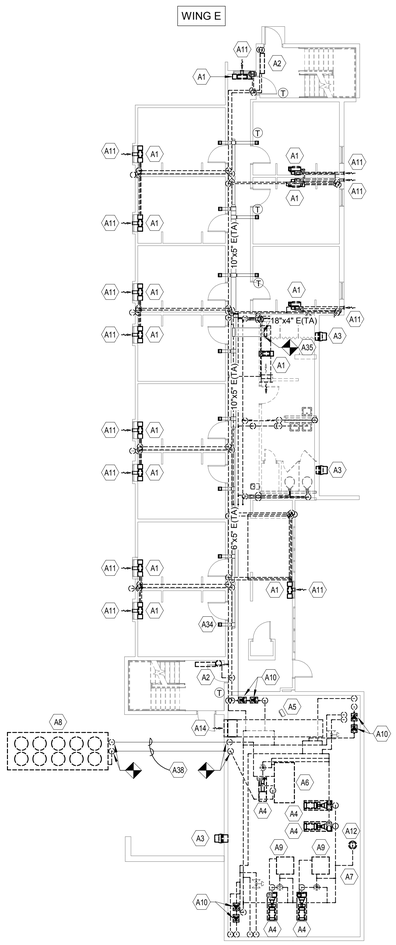
TAGGED NOTES	
A1	REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED PIPING, VALVES, WIRING, CONTROLS, CONDENSATE, DUCTWORK, ETC. PATCH AND REPAIR INTERIOR WALL TO MATCH ADJACENT.
A2	REMOVE EXISTING CONVECTOR AND ASSOCIATED PIPING, VALVES, CONTROLS, ETC. PATCH AND REPAIR WALL TO MATCH ADJACENT.
A3	REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK , GRILLES, WIRING, CONTROLS, ETC. PROVIDE PAINT GRIP SHEET METAL BLANK PANEL TO PATCH AND REPAIR EXTERIOR WALL. PROVIDE INDULATED PANEL BETWEEN SHEET METAL BLANK AND INTERIOR WALL. SEAL AIR TIGHT. PAINT COLOR SHALL BE SELECTED BY ARCHITECT.
A4	REMOVE EXISTING PUMP AND ASSOCIATED PIPING, VALVES, WIRING, CONCRETE PAD, ETC.
A5	EXISTING UNIT HEATER TO REMAIN.
A6	REMOVE EXISTING CHILLER AND ASSOCIATED PIPING, VALVES, WIRING, ETC. CONTRACTOR SHALL RECOVER AND RECYCLE ALL REFRIGERANT. RECOVERED REFRIGERANT SHALL BE RECYCLED TO NKU'S RECOVERY TANKS.
A7	REMOVE EXISTING COLD WATER MAKE-UP ASSEMBLY AND ASSOCIATED PIPING, VALVES, WIRING, ETC.
A8	REMOVE EXISTING AIR COOLED CONDENSER AND ASSOCIATED PIPING, VALVES, WIRING, CONCRETE PAD, ETC.
A9	REMOVE EXISTING BOILER AND ASSOCIATED PIPING, VALVES, WIRING, CONCRETE PAD, ETC. CAP GAS PIPING AT PIPE ELBOW FROM ABOVE BOILER.
A10	REMOVE EXISTING PUMP AND ASSOCIATED PIPING, VALVES, WIRING, ETC.
A11	EXISTING LOUVER INTAKE TO REMAIN. PROVIDE SHEET METAL AND EXTERNAL DUCT INSULATION FOR EXISTING INTAKE LOUVER. PATCH AND REPAIR INTERIOR WALL TO MATCH ADJACENT.
A12	REMOVE EXISTING EXPANSION TANK AND ASSOCIATED PIPING, CONCRETE PAD, ETC.
A14	REMOVE EXISTING LOUVER AND ASSOCIATED DUCTWORK, MOTORIZED DAMPER, ETC. PATCH AND REPAIR EXTERIOR WALL TO MATCH ADJACENT.
A34	EXISTING TRANSFER AIR GRILLE TO REMAIN. TYPICAL.
A35	EXTENT OF DUCTWORK DEMOLITION. EXISTING TRANSFER AIR DUCTWORK FROM THIS POINT TO AIR TERMINALS IN BEDROOMS SHALL REMAIN.
A38	ABANDON EXISTING UNDERGROUND CONDENSER SUPPLY AND RETURN PIPING FROM CONDENSER TO ENTRANCE OF MECHANICAL ROOM 1102. CAP PIPING BELOW GRADE AND IN MECHANICAL ROOM.



1 M200 LOWER LEVEL PLAN - HVAC DEMOLITION
3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

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ISSUANCES

1	10/19/18	PERMIT/BID

LOWER LEVEL PLAN - HVAC DEMOLITION

DATE 10/19/18
COMM NO. 2017066.01

M200

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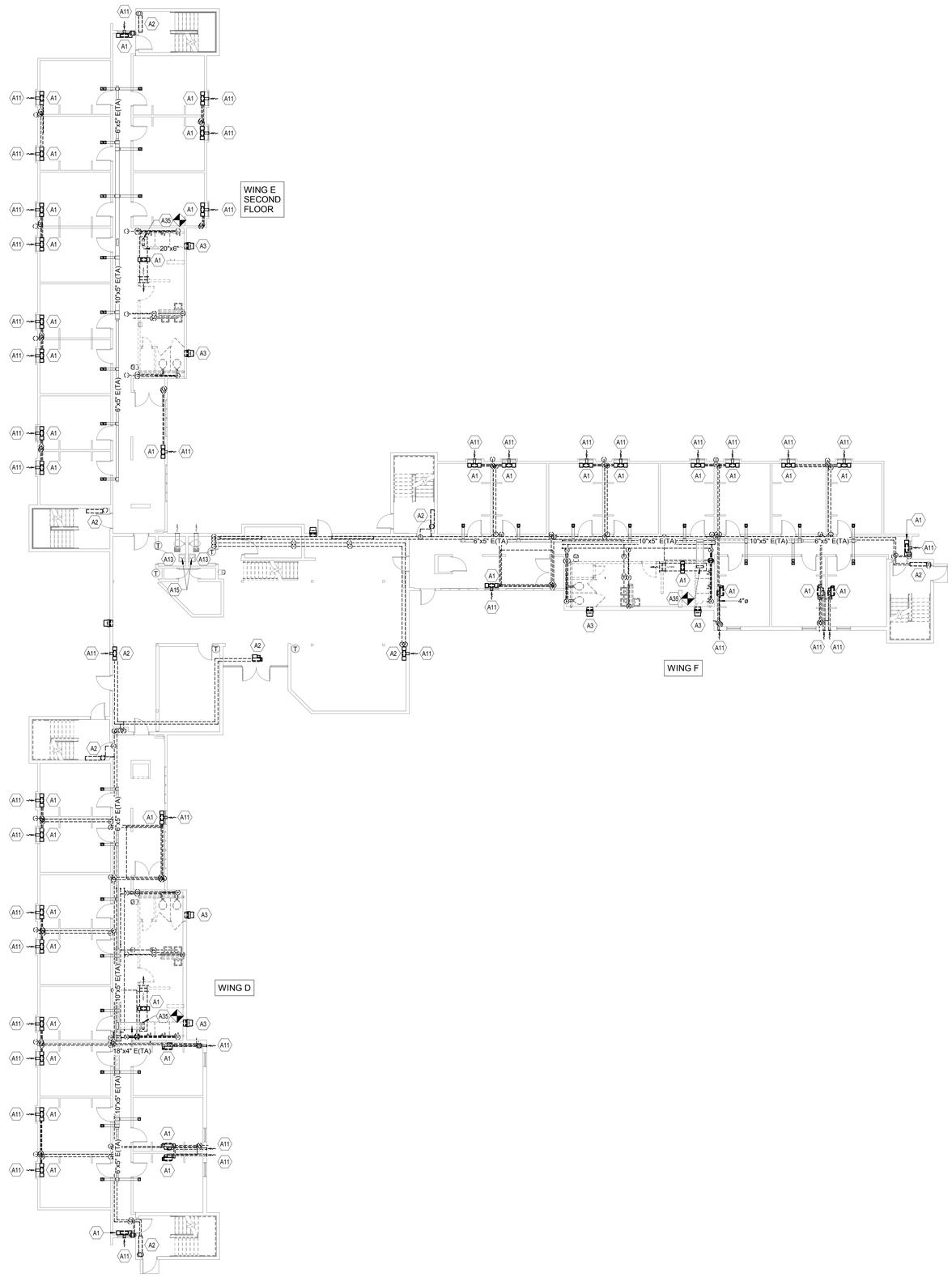
TAGGED NOTES	
A1	REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED PIPING, VALVES, WIRING, CONTROLS, CONDENSATE, DUCTWORK, ETC. PATCH AND REPAIR INTERIOR WALL TO MATCH ADJACENT.
A2	REMOVE EXISTING CONVECTOR AND ASSOCIATED PIPING, VALVES, CONTROLS, ETC. PATCH AND REPAIR WALL TO MATCH ADJACENT.
A3	REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK , GRILLES, WIRING, CONTROLS, ETC. PROVIDE PAINT GRIP SHEET METAL BLANK PANEL TO PATCH AND REPAIR EXTERIOR WALL. PROVIDE INDULATED PANEL BETWEEN SHEET METAL BLANK AND INTERIOR WALL. SEAL AIR TIGHT. PAINT COLOR SHALL BE SELECTED BY ARCHITECT.
A11	EXISTING LOUVER INTAKE TO REMAIN. PROVIDE SHEET METAL AND EXTERNAL DUCT INSULATION FOR EXISTING INTAKE LOUVER. PATCH AND REPAIR INTERIOR WALL TO MATCH ADJACENT.
A13	EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK, GRILLES, CONTROLS, ETC. TO REMAIN.
A15	EXISTING ELECTRIC CEILING HEATER AND ASSOCIATED CONTROLS, ETC TO REMAIN.
A35	EXTENT OF DUCTWORK DEMOLITION. EXISTING TRANSFER AIR DUCTWORK FROM THIS POINT TO AIR TERMINALS IN BEDROOMS SHALL REMAIN.



1 M201 FIRST FLOOR PLAN - HVAC DEMOLITION
3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
1 0'-1" REFERENCE LINE

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ISSUANCES

1	10/19/18	PERMIT/BID

FIRST FLOOR PLAN - HVAC DEMOLITION

DATE 10/19/18

COMM NO. 2017066.01

M201

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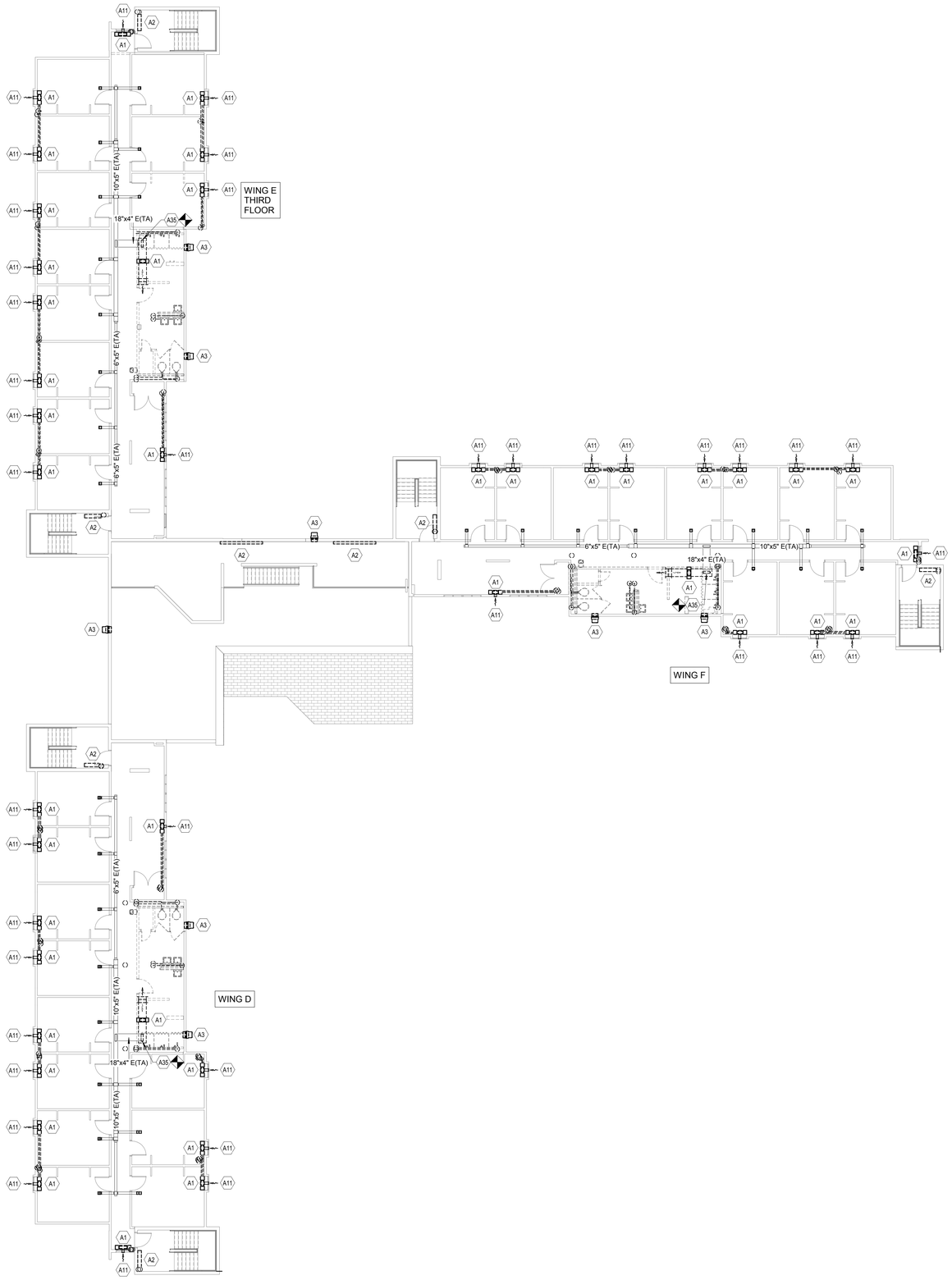
TAGGED NOTES (X)

A1	REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED PIPING, VALVES, WIRING, CONTROLS, CONDENSATE, DUCTWORK, ETC. PATCH AND REPAIR INTERIOR WALL TO MATCH ADJACENT.
A2	REMOVE EXISTING CONVECTOR AND ASSOCIATED PIPING, VALVES, CONTROLS, ETC. PATCH AND REPAIR WALL TO MATCH ADJACENT.
A3	REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK , GRILLES, WIRING, CONTROLS, ETC. PROVIDE PAINT GRIP SHEET METAL BLANK PANEL TO PATCH AND REPAIR EXTERIOR WALL. PROVIDE INDULATED PANEL BETWEEN SHEET METAL BLANK AND INTERIOR WALL. SEAL AIR TIGHT. PAINT COLOR SHALL BE SELECTED BY ARCHITECT.
A11	EXISTING LOUVER INTAKE TO REMAIN. PROVIDE SHEET METAL AND EXTERNAL DUCT INSULATION FOR EXISTING INTAKE LOUVER. PATCH AND REPAIR INTERIOR WALL TO MATCH ADJACENT.
A35	EXTENT OF DUCTWORK DEMOLITION. EXISTING TRANSFER AIR DUCTWORK FROM THIS POINT TO AIR TERMINALS IN BEDROOMS SHALL REMAIN.



1 M202 SECOND FLOOR PLAN - HVAC DEMOLITION
3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
1 "0'-1" REFERENCE LINE

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1	10/19/18	PERMIT/BID

SECOND FLOOR PLAN - HVAC DEMOLITION

DATE 10/19/18

COMM NO. 2017066.01

M202

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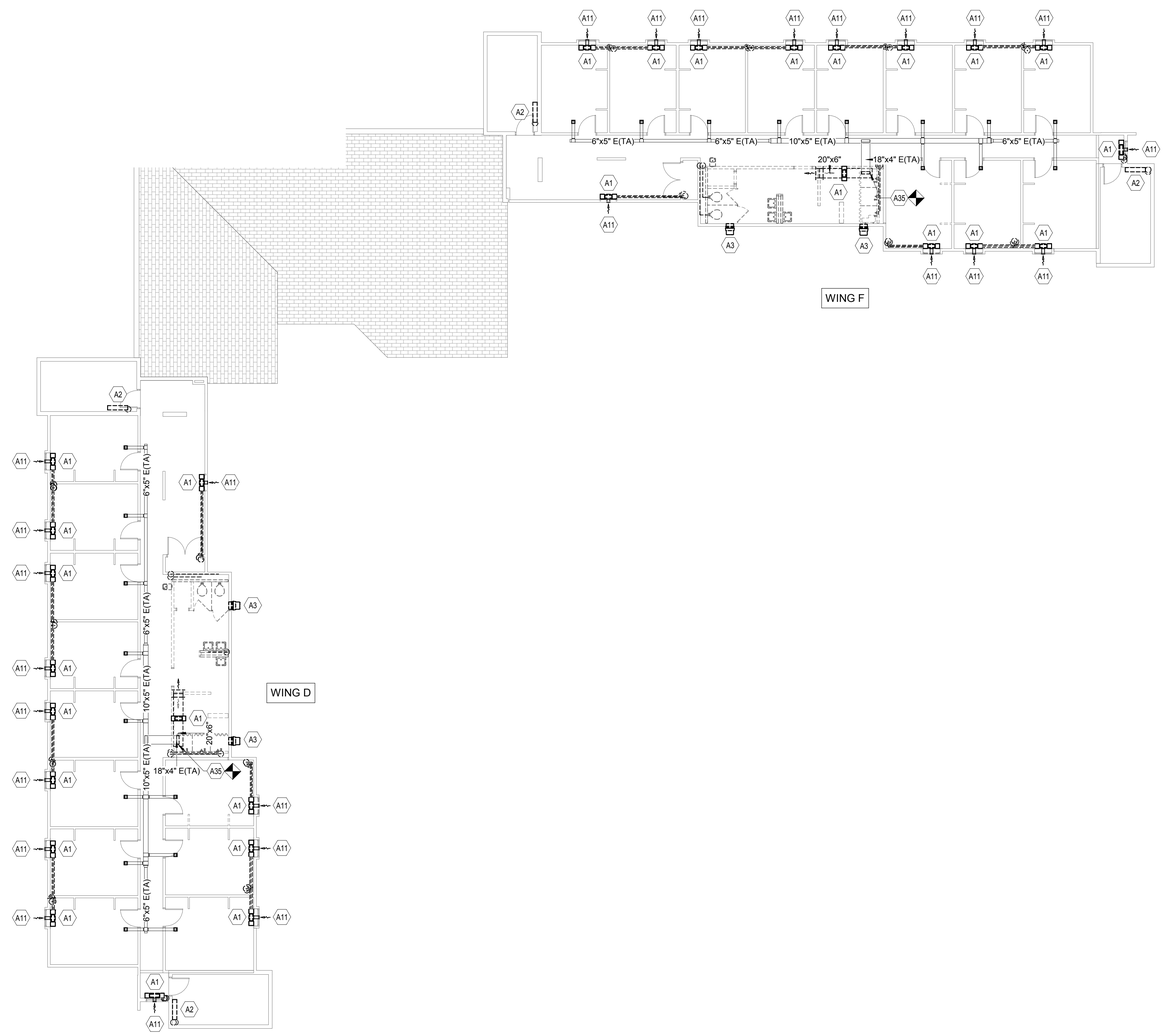
TAGGED NOTES	
A1	REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED PIPING, VALVES, WIRING, CONTROLS, CONDENSATE, DUCTWORK, ETC. PATCH AND REPAIR INTERIOR WALL TO MATCH ADJACENT.
A2	REMOVE EXISTING CONVECTOR AND ASSOCIATED PIPING, VALVES, CONTROLS, ETC. PATCH AND REPAIR WALL TO MATCH ADJACENT.
A3	REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK , GRILLES, WIRING, CONTROLS, ETC. PROVIDE PAINT GRIP SHEET METAL BLANK PANEL TO PATCH AND REPAIR EXTERIOR WALL. PROVIDE INDULATED PANEL BETWEEN SHEET METAL BLANK AND INTERIOR WALL. SEAL AIR TIGHT. PAINT COLOR SHALL BE SELECTED BY ARCHITECT.
A11	EXISTING LOUVER INTAKE TO REMAIN. PROVIDE SHEET METAL AND EXTERNAL DUCT INSULATION FOR EXISTING INTAKE LOUVER. PATCH AND REPAIR INTERIOR WALL TO MATCH ADJACENT.
A35	EXTENT OF DUCTWORK DEMOLITION. EXISTING TRANSFER AIR DUCTWORK FROM THIS POINT TO AIR TERMINALS IN BEDROOMS SHALL REMAIN.



1 THIRD FLOOR PLAN - HVAC DEMOLITION
M203 3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

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THIRD FLOOR PLAN - HVAC DEMOLITION

DATE 10/19/18

COMM NO. 2017066.01

M203

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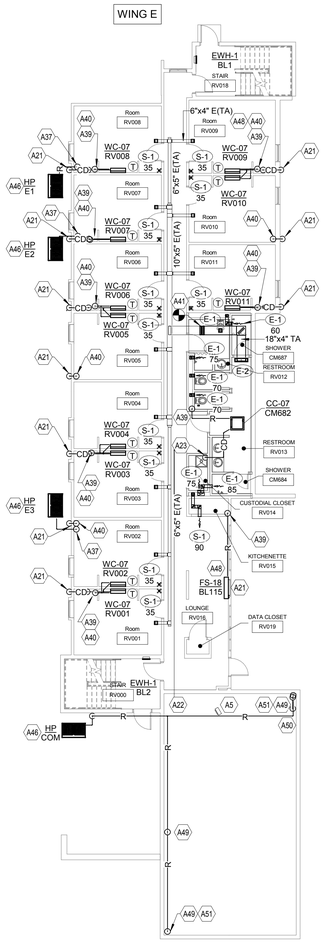
GENERAL NOTES:

A. REFER TO MECHANICAL PIPING SCHEMATICS FOR ALL REFRIGERANT PIPE SIZES.
B. REFER TO MECHANICAL SCHEDULE SHEET FOR VRF UNIT CONDENSATE DRAIN PIPE SIZES.
C. ALL NEW FLOOR PENETRATIONS FROM DUCTS (OUTSIDE AIR, EXHAUST AIR, ETC.) SHALL BE PROVIDED WITH FIRE DAMPERS. ALL NEW FLOOR PENETRATIONS FROM PIPING SHALL BE FIRE STOPPED.

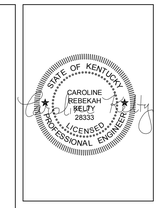
TAGGED NOTES (X)

A5	EXISTING UNIT HEATER TO REMAIN.
A21	SPILL CONDENSATE TO GRADE.
A22	CENTRAL TOUCHSCREEN USER INTERFACE FOR VRF SYSTEM CONTROLS.
A23	SPILL 3/4" CONDENSATE DRAIN TO MOP SINK.
A37	ROUTE REFRIGERANT LINES UP FROM VRF OUTDOOR UNIT TO REFRIGERANT CONTROLLER LOCATED IN ATTIC SPACE.
A39	ROUTE REFRIGERANT PIPES UP TO REFRIGERANT CONTROLLER IN ATTIC. TYPICAL.
A40	ROUTE 1-1/2" CONDENSATE PIPES UP TO FLOOR ABOVE. TYPICAL.
A41	CONNECT TO EXISTING 18"x4" EXHAUST AIR DUCT.
A46	PROVIDE EQUIPMENT PAD THAT EXTENDS TO EXTERIOR BUILDING WALL. CONTRACTOR SHALL LEVEL GRADE. PROVIDE CONCRETE PAD, AND RETAINING WALLS TO ENSURE A LEVEL SURFACE FOR OUTDOOR UNIT INSTALLATION. REFER TO SPECIFICATIONS FOR CONCRETE REQUIREMENTS.
A48	PROVIDE PAINT GRIP FINISH SHEET METAL SHROUD TO CONCEAL REFRIGERANT AND CONDENSATE PIPING. TYPICAL. PAINT COLOR SHALL BE SELECTED BY ARCHITECT.
A49	ROUTE REFRIGERANT PIPING UP TO FLOOR ABOVE.
A50	ROUTE CONDESATE DRAIN DOWN TO EXISTING FLOOR DRAIN.
A51	ROUTE PIPING IN EXISTING CHASE OR WALL TO FLOOR ABOVE.



1 / M300 LOWER LEVEL PLAN - HVAC
3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE



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ISSUANCES

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LOWER LEVEL PLAN - HVAC

DATE 10/19/18
COMM NO. 2017066.01

M300

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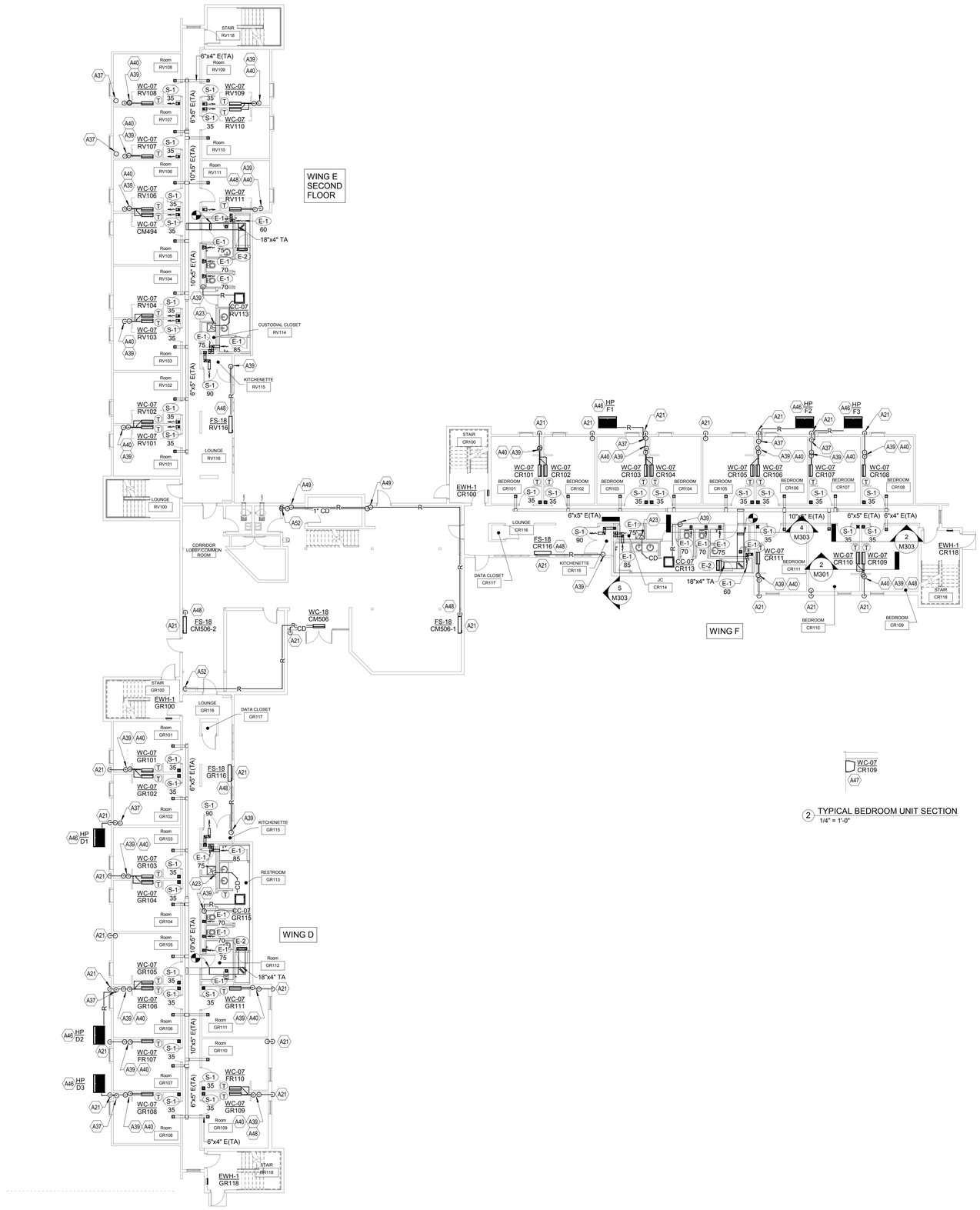
GENERAL NOTES:

A. REFER TO MECHANICAL PIPING SCHEMATICS FOR ALL REFRIGERANT PIPE SIZES.
B. REFER TO MECHANICAL SCHEDULE SHEET FOR VRF UNIT CONDENSATE DRAIN PIPE SIZES.
C. ALL NEW FLOOR PENETRATIONS FROM DUCTS (OUTSIDE AIR, EXHAUST AIR, ETC.) SHALL BE PROVIDED WITH FIRE DAMPERS. ALL NEW FLOOR PENETRATIONS FROM PIPING SHALL BE FIRE STOPPED.

TAGGED NOTES (X)

A21	SPILL CONDENSATE TO GRADE.
A23	SPILL 3/4" CONDENSATE DRAIN TO MOP SINK.
A37	ROUTE REFRIGERANT LINES UP FROM VRF OUTDOOR UNIT TO REFRIGERANT CONTROLLER LOCATED IN ATTIC SPACE
A39	ROUTE REFRIGERANT PIPES UP TO REFRIGERANT CONTROLLER IN ATTIC. TYPICAL.
A40	ROUTE 1-1/2" CONDENSATE PIPES UP TO FLOOR ABOVE. TYPICAL.
A46	PROVIDE EQUIPMENT PAD THAT EXTENDS TO EXTERIOR BUILDING WALL. CONTRACTOR SHALL LEVEL GRADE. PROVIDE CONCRETE PAD, AND RETAINING WALLS TO ENSURE A LEVEL SURFACE FOR OUTDOOR UNIT INSTALLATION. REFER TO SPECIFICATIONS FOR CONCRETE REQUIREMENTS.
A47	MOUNT BOTTOM OF WALL MOUNTED UNIT 6'-8" ABOVE FINISHED FLOOR.
A48	PROVIDE PAINT GRIP FINISH SHEET METAL SHROUD TO CONCEAL REFRIGERANT AND CONDENSATE PIPING. TYPICAL. PAINT COLOR SHALL BE SELECTED BY ARCHITECT.
A49	ROUTE REFRIGERANT PIPING UP TO FLOOR ABOVE.
A52	ROUTE PIPING IN EXISTING CHASE OR WALL TO FLOOR BELOW.



1 M301 FIRST FLOOR PLAN - HVAC
3/32" = 1'-0"

2 TYPICAL BEDROOM UNIT SECTION
1/4" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
1 0'-1" REFERENCE LINE

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ISSUANCES

1	10/19/18	PERMIT/BID

FIRST FLOOR PLAN - HVAC

DATE 10/19/18
COMM NO. 2017066.01

M301

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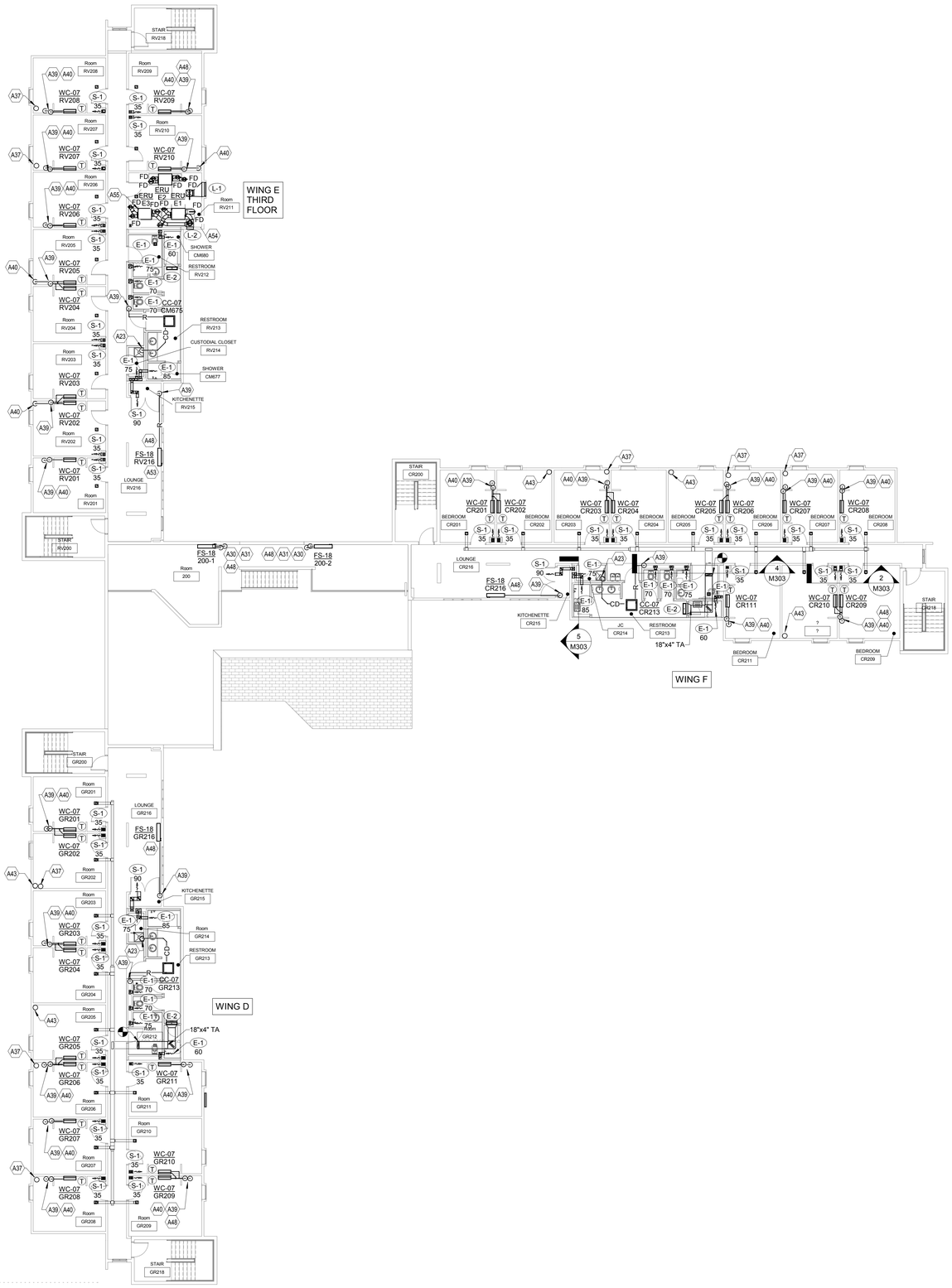
GENERAL NOTES:

A. REFER TO MECHANICAL PIPING SCHEMATICS FOR ALL REFRIGERANT PIPE SIZES.
B. REFER TO MECHANICAL SCHEDULE SHEET FOR VRF UNIT CONDENSATE DRAIN PIPE SIZES.
C. ALL NEW FLOOR PENETRATIONS FROM DUCTS (OUTSIDE AIR, EXHAUST AIR, ETC.) SHALL BE PROVIDED WITH FIRE DAMPERS. ALL NEW FLOOR PENETRATIONS FROM PIPING SHALL BE FIRE STOPPED.

TAGGED NOTES

A23	SPILL 3/4" CONDENSATE DRAIN TO MOP SINK.
A30	ROUTE REFRIGERANT PIPING DOWN TO FLOOR BELOW. REFER TO FIRST FLOOR PLAN - HVAC, SHEET M301, FOR CONTINUATION.
A31	ROUTE 1" CONDENSATE TO FLOOR BELOW.
A37	ROUTE REFRIGERANT LINES UP FROM VRF OUTDOOR UNIT TO REFRIGERANT CONTROLLER LOCATED IN ATTIC SPACE
A39	ROUTE REFRIGERANT PIPES UP TO REFRIGERANT CONTROLLER IN ATTIC. TYPICAL.
A40	ROUTE 1-1/2" CONDENSATE PIPES UP TO FLOOR ABOVE. TYPICAL.
A43	ROUTE 1" CONDENSATE PIPING UP TO FLOOR ABOVE. TYPICAL.
A48	PROVIDE PAINT GRIP FINISH SHEET METAL SHROUD TO CONCEAL REFRIGERANT AND CONDENSATE PIPING. TYPICAL. PAINT COLOR SHALL BE SELECTED BY ARCHITECT.
A53	PROVIDE 1" CONDENSATE LINE FROM THIRD FLOOR UNIT DOWN IN EXTERIOR WALL TO 2' ABOVE FINISHED GRADE AND DISCHARGE TO GRADE. LOUNGE UNITS ARE STACKED AND CONDENSATE DRAIN LINES AT EACH FLOOR'S LOUNGE UNIT SHALL CONNECT TO THIS MAIN 1" CONDENSATE DRAIN LINE.
A54	CONDENSATE PIPE FROM ERU UNITS SHALL COLLECT TO 1" CONDENSATE LINE IN THIS LOCATION AND ROUTE DOWN IN CHASE DOWN TO 2' ABOVE FINISHED GRADE AND DISCHARGE TO GRADE.
A55	MOUNT UNIT ON 1" SOLID NEOPRENE VIBRATION ISOLATION PAD. TYPICAL.



1 M302 SECOND FLOOR PLAN - HVAC
3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

STATE OF KENTUCKY
CAROLINE REBEKAH BELTY
28333
LICENSED PROFESSIONAL ENGINEER

SHP
312 Plum Street, Ste 700
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513.381.2112
250 Civic Center Drive, Ste 200
Columbus, Ohio 43215
614.223.7224
223 Fairfield Avenue, Ste 100
Bellevue, Kentucky 41073
859.360.1234

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COMMONWEALTH HALL RENOVATIONS
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Nunn Drive | Highland Heights, Kentucky 41099

ISSUANCES

1	10/19/18	PERMIT/BID

SECOND FLOOR PLAN - HVAC

DATE 10/19/18
COMM NO. 2017066.01

M302

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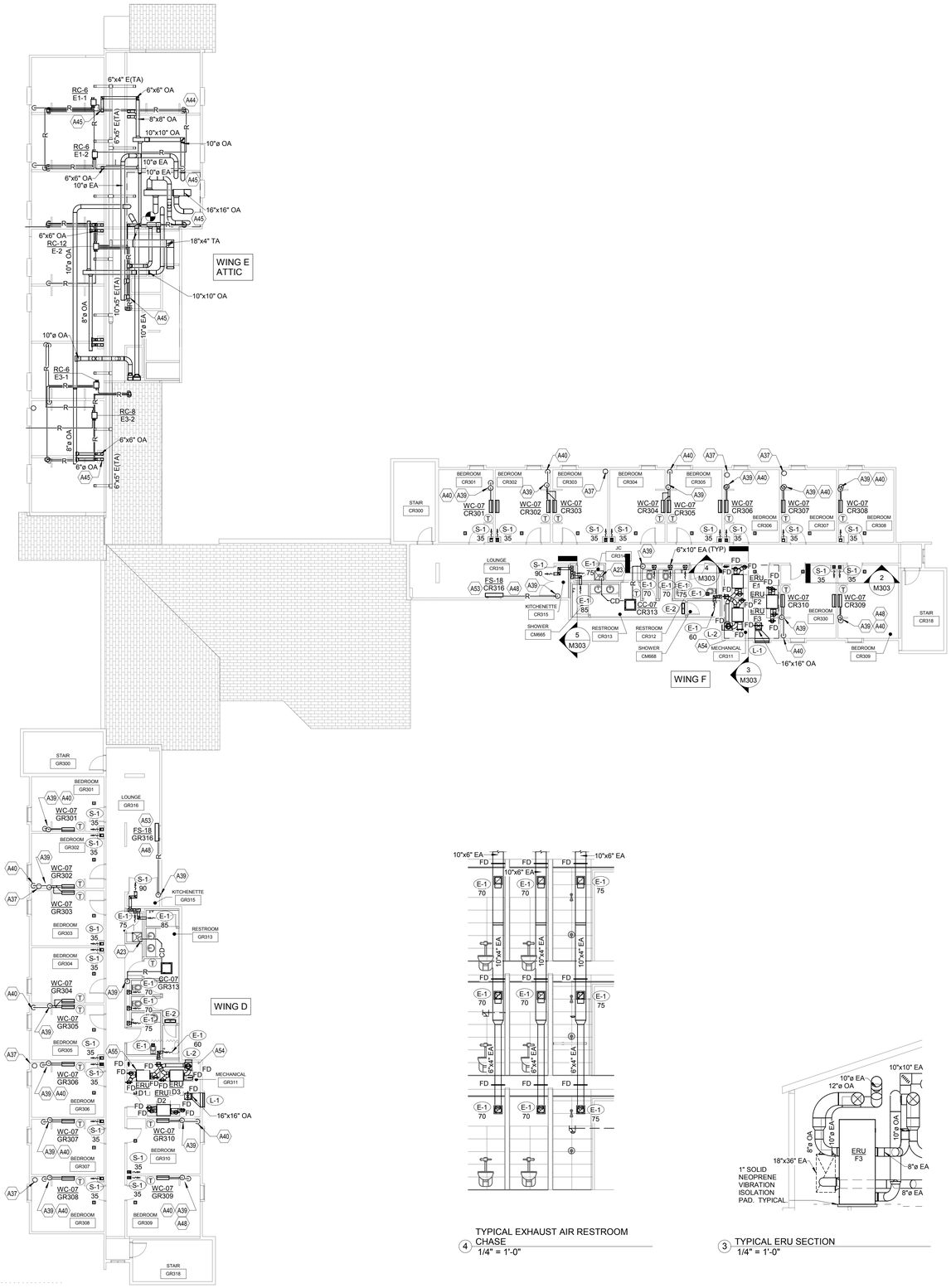
GENERAL NOTES:

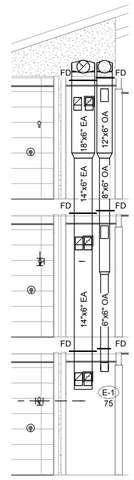
A. REFER TO MECHANICAL PIPING SCHEMATICS FOR ALL REFRIGERANT PIPE SIZES.
B. REFER TO MECHANICAL SCHEDULE SHEET FOR VRF UNIT CONDENSATE DRAIN PIPE SIZES.
C. ALL NEW FLOOR PENETRATIONS FROM DUCTS (OUTSIDE AIR, EXHAUST AIR, ETC.) SHALL BE PROVIDED WITH FIRE DAMPERS. ALL NEW FLOOR PENETRATIONS FROM PIPING SHALL BE FIRE STOPPED.

TAGGED NOTES (X)

A23	SPILL 3/4" CONDENSATE DRAIN TO MOP SINK.
A37	ROUTE REFRIGERANT LINES UP FROM VRF OUTDOOR UNIT TO REFRIGERANT CONTROLLER LOCATED IN ATTIC SPACE
A39	ROUTE REFRIGERANT PIPES UP TO REFRIGERANT CONTROLLER IN ATTIC. TYPICAL.
A40	ROUTE 1-1/2" CONDENSATE PIPES UP TO FLOOR ABOVE. TYPICAL.
A44	ROUTE REFRIGERANT PIPING DOWN TO FLOOR BELOW. TYPICAL.
A45	ROUTE DUCT DOWN TO FLOOR BELOW. TYPICAL.
A48	PROVIDE PAINT GRIP FINISH SHEET METAL SHROUD TO CONCEAL REFRIGERANT AND CONDENSATE PIPING. TYPICAL. PAINT COLOR SHALL BE SELECTED BY ARCHITECT.
A53	PROVIDE 1" CONDENSATE LINE FROM THIRD FLOOR UNIT DOWN IN EXTERIOR WALL TO 2' ABOVE FINISHED GRADE AND DISCHARGE TO GRADE. LOUNGE UNITS ARE STACKED AND CONDENSATE DRAIN LINES AT EACH FLOOR'S LOUNGE UNIT SHALL CONNECT TO THIS MAIN 1" CONDENSATE DRAIN LINE.
A54	CONDENSATE PIPE FROM ERU UNITS SHALL COLLECT TO 1" CONDENSATE LINE IN THIS LOCATION AND ROUTE DOWN IN CHASE DOWN TO 2' ABOVE FINISHED GRADE AND DISCHARGE TO GRADE.
A55	MOUNT UNIT ON 1" SOLID NEOPRENE VIBRATION ISOLATION PAD. TYPICAL.



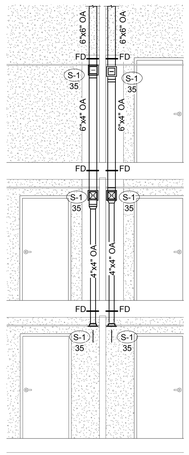
1 THIRD FLOOR PLAN - HVAC
M303 3/32" = 1'-0"



5 TYPICAL LOUNGE AND JANITOR CLOSET DUCT CHASE
1/4" = 1'-0"

4 TYPICAL EXHAUST AIR RESTROOM CHASE
1/4" = 1'-0"

3 TYPICAL ERU SECTION
1/4" = 1'-0"



2 TYPICAL OUTSIDE AIR DUCT CHASE
1/4" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

STATE OF KENTUCKY
CAROLINE REBEKAH BELTY
28333
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ISSUANCES

1	10/19/18	PERMIT/BID

THIRD FLOOR PLAN - HVAC

DATE 10/19/18
COMM NO. 2017066.01

M303

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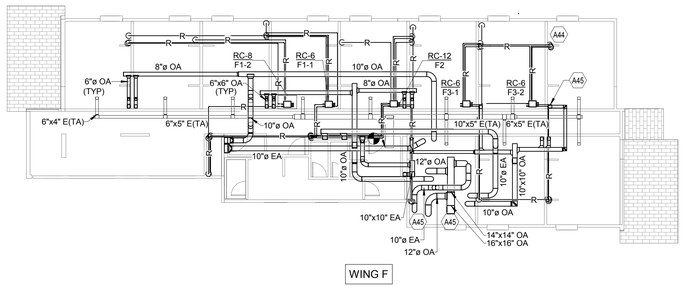
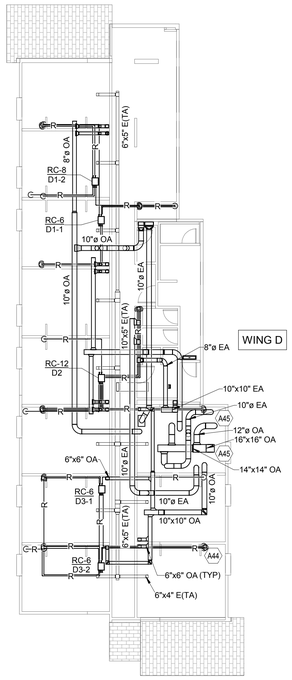
GENERAL NOTES:

A. REFER TO MECHANICAL PIPING SCHEMATICS FOR ALL REFRIGERANT PIPE SIZES.
B. REFER TO MECHANICAL SCHEDULE SHEET FOR VRF UNIT CONDENSATE DRAIN PIPE SIZES.
C. ALL NEW FLOOR PENETRATIONS FROM DUCTS (OUTSIDE AIR, EXHAUST AIR, ETC.) SHALL BE PROVIDED WITH FIRE DAMPERS. ALL NEW FLOOR PENETRATIONS FROM PIPING SHALL BE FIRE STOPPED.

TAGGED NOTES	
A44	ROUTE REFRIGERANT PIPING DOWN TO FLOOR BELOW. TYPICAL.
A45	ROUTE DUCT DOWN TO FLOOR BELOW. TYPICAL.





1 M304 ATTIC PLAN - HVAC
3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

STATE OF KENTUCKY
CAROLINE REBEKAH KELTY
28333
LICENSED
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ISSUANCES		
1	10/19/18	PERMIT/BID

ATTIC PLAN - HVAC

DATE 10/19/18
COMM NO. 2017066.01

M304

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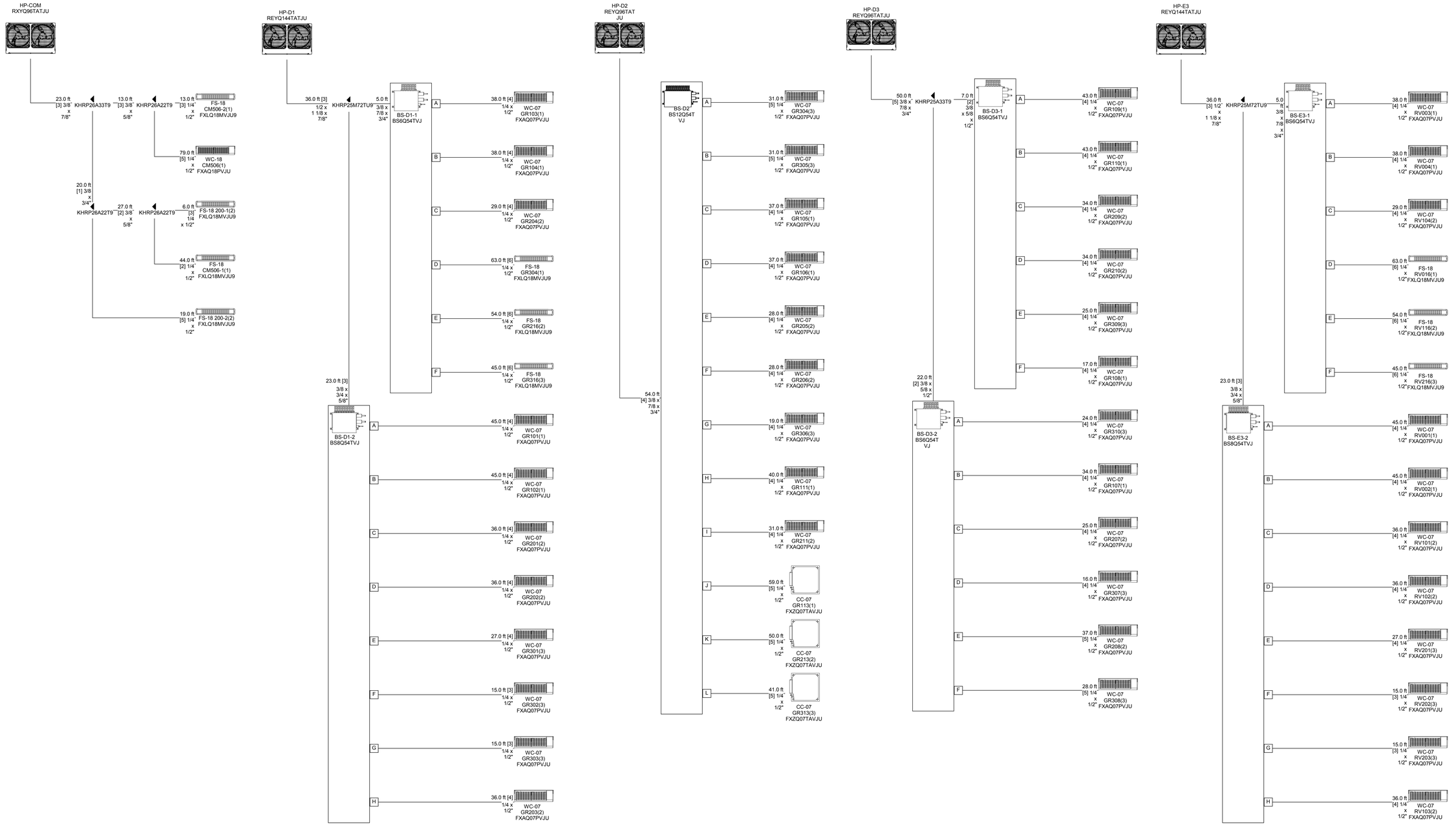

STATE OF KENTUCKY
CAROLINE REBEKAH KELTY
28333
LICENSED PROFESSIONAL ENGINEER

SHP

223 Fairfield Avenue, Ste 100
Bellevue, Kentucky 41073
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Columbus, Ohio 43215
614.223.2124

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Cincinnati, Ohio 45202
513.381.2112

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NORTHERN KENTUCKY UNIVERSITY
Nunn Drive | Highland Heights, Kentucky 41099

ISSUANCES

1	10/19/18	PERMIT/BID

PIPING SCHEMATICS

DATE 10/19/18

COMM NO. 2017066.01

M400

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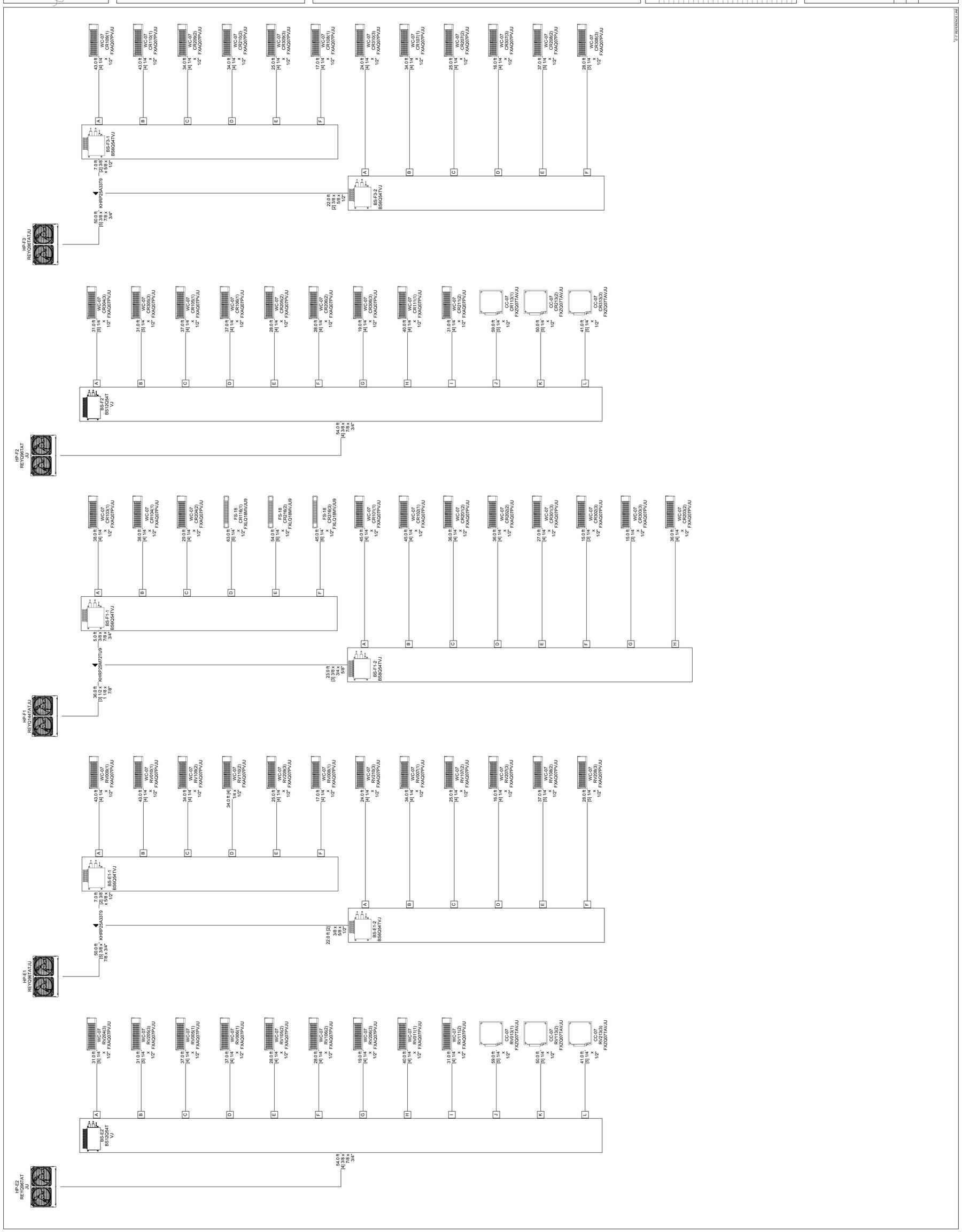

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COMMONWEALTH HALL RENOVATIONS

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Nunn Drive | Highland Heights, Kentucky 41099

ISSUANCES

1	10/19/18	REMARTIED

PIPING SCHEMATICS

DATE 10/19/18

COMM NO. 2017066.01

M401

SHP

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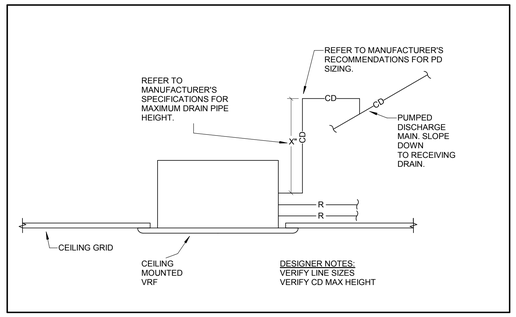
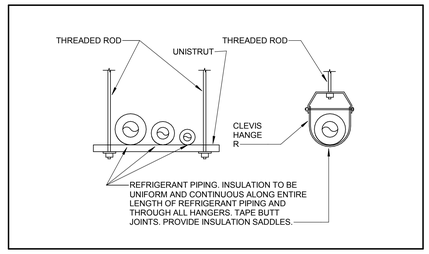
513.381.2112 | 614.223.2124 | 859.360.1234

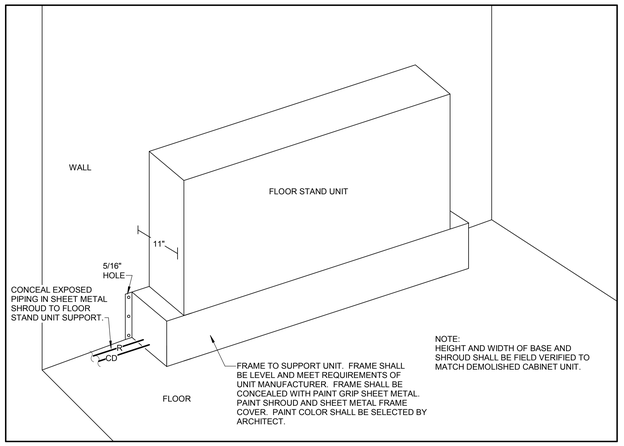
STATE OF KENTUCKY
CAROLINE MARIE KELLY
LICENSED
PROFESSIONAL ENGINEER



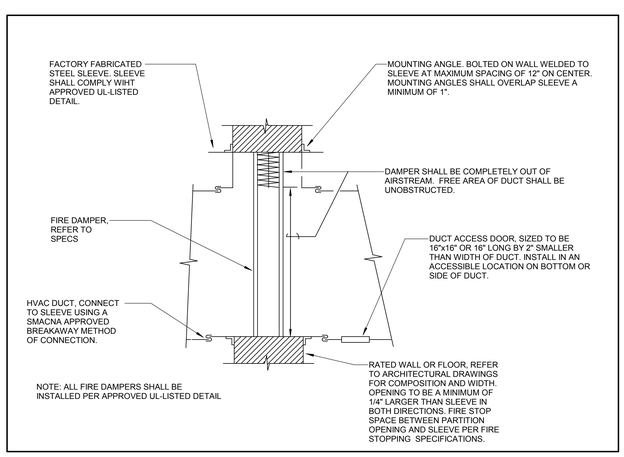
4 VRF CASSETTE PIPING SCHEMATIC
NOT TO SCALE



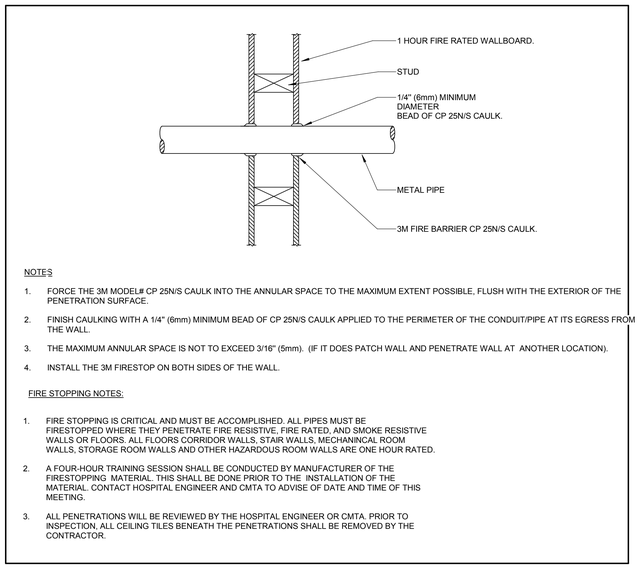
3 REFRIGERANT PIPING INSULATION DETAIL
NOT TO SCALE



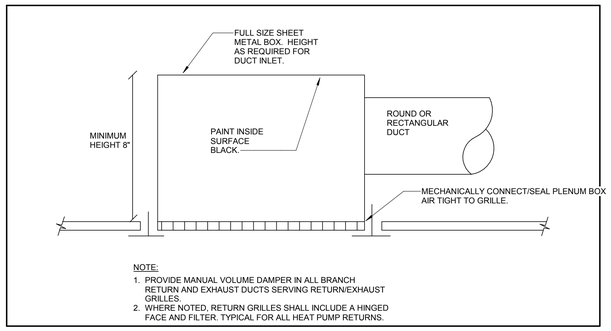
6 FLOOR STAND UNIT MOUNTING SHROUD DETAIL
NOT TO SCALE



2 FIRE DAMPER DETAIL
NOT TO SCALE



5 PENETRATION FIRESTOP FOR METAL PIPE/CONDUIT THROUGH ONE HOUR WALL
NOT TO SCALE



1 DUCTED RETURN/EXHAUST/RELIEF AIR GRILLE DETAIL
NOT TO SCALE

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312 Plum Street, Ste 700
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513.381.2112
250 Civic Center Drive, Ste 200
Columbus, Ohio 43215
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Nunn Drive | Highland Heights, Kentucky 41099

ISSUANCES

1	10/19/18	PERMIT/BID

MECHANICAL DETAILS

DATE 10/19/18

COMM NO. 2017066.01

M500

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0'-1" REFERENCE LINE

VARIABLE REFRIGERANT FLOW INDOOR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL #	INSTANCE MARK	TYPE	TOTAL NOMINAL COOLING (MBH)	SENSIBLE COOLING (MBH)	MINIMUM NOMINAL HEATING (MBH)	AIRFLOW (CFM)	SOUND (dB)	CD PIPE SIZE	DIMENSIONS (IN) LENGTH	DIMENSIONS (IN) WIDTH	DIMENSIONS (IN) HEIGHT	WEIGHT (LBS)	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	ELECTRICAL MCA	ELECTRICAL MOCP	REMARKS
FS-18	DAIKIN	FXLQ18	200-1	FLOOR STANDING	17.0	11.5	21.0	480	40	3/4"	10	56	24	80	208 V	1	1 A	15	1,2,3,4,5,6,8,9
FS-18	DAIKIN	FXLQ18	200-2	FLOOR STANDING	17.0	11.5	21.0	480	40	3/4"	10	56	24	80	208 V	1	1 A	15	1,2,3,4,5,6,8,9
FS-18	DAIKIN	FXLQ18	BL115	FLOOR STANDING	17.0	11.5	21.0	480	40	3/4"	10	56	24	80	208 V	1	1 A	15	1,2,3,4,5,6,8,9
WC-07	DAIKIN	FXAQ07	CM494	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-18	DAIKIN	FXAQ18	CM506	WALL MOUNTED	15.1	11.7	21.0	480	43	3/4"	10	42	12	31	208 V	1	1 A	15	1,2,3,4,5,6,8
FS-18	DAIKIN	FXLQ18	CM506-1	FLOOR STANDING	17.0	11.5	21.0	480	40	3/4"	10	56	24	80	208 V	1	1 A	15	1,2,3,4,5,6,8,9
FS-18	DAIKIN	FXLQ18	CM506-2	FLOOR STANDING	17.0	11.5	21.0	480	40	3/4"	10	56	24	80	208 V	1	1 A	15	1,2,3,4,5,6,8,9
CC-07	DAIKIN	FXZQ07	CM675	CEILING MOUNTED CASSETTE	6.3	5.0	8.7	320	31	3/4"	23	23	11	42	208 V	1	1 A	15	1,2,3,4,5,6,7
CC-07	DAIKIN	FXZQ07	CM682	CEILING MOUNTED CASSETTE	6.3	5.0	8.7	320	35	3/4"	23	23	11	42	208 V	1	1 A	15	1,2,3,4,5,6,7
CC-07	DAIKIN	FXZQ07	CM682	CEILING MOUNTED CASSETTE	6.3	5.0	8.7	320	35	3/4"	23	23	11	42	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR101	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR102	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR103	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR104	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR105	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR106	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR107	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR108	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR109	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR110	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR111	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR111	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
CC-07	DAIKIN	FXZQ07	CR113	CEILING MOUNTED CASSETTE	6.3	5.0	8.7	320	31	3/4"	23	23	11	42	208 V	1	1 A	15	1,2,3,4,5,6,7
FS-18	DAIKIN	FXLQ18	CR116	FLOOR STANDING	17.0	11.5	21.0	480	40	3/4"	10	56	24	80	208 V	1	1 A	15	1,2,3,4,5,6,8,9
WC-07	DAIKIN	FXAQ07	CR201	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR202	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR203	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR204	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR205	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR206	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR207	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR208	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR209	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR210	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
CC-07	DAIKIN	FXZQ07	CR213	CEILING MOUNTED CASSETTE	6.3	5.0	8.7	320	31	3/4"	23	23	11	42	208 V	1	1 A	15	1,2,3,4,5,6,7
FS-18	DAIKIN	FXLQ18	CR216	FLOOR STANDING	17.0	11.5	21.0	480	40	3/4"	10	56	24	80	208 V	1	1 A	15	1,2,3,4,5,6,8,9
WC-07	DAIKIN	FXAQ07	CR301	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR302	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR303	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR304	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR305	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR306	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR307	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR308	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR309	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	CR310	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
CC-07	DAIKIN	FXZQ07	CR313	CEILING MOUNTED CASSETTE	6.3	5.0	8.7	320	31	3/4"	23	23	11	42	208 V	1	1 A	15	1,2,3,4,5,6,7
FS-18	DAIKIN	FXLQ18	CR316	FLOOR STANDING	17.0	11.5	21.0	480	40	3/4"	10	56	24	80	208 V	1	1 A	15	1,2,3,4,5,6,8,9
WC-07	DAIKIN	FXAQ07	FR107	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	FR110	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR101	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR102	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR103	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR104	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR105	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR106	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR108	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR109	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR111	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
CC-07	DAIKIN	FXZQ07	GR115	CEILING MOUNTED CASSETTE	6.3	5.0	8.7	320	31	3/4"	23	23	11	42	208 V	1	1 A	15	1,2,3,4,5,6,7
FS-18	DAIKIN	FXLQ18	GR116	FLOOR STANDING	17.0	11.5	21.0	480	40	3/4"	10	56	24	80	208 V	1	1 A	15	1,2,3,4,5,6,8,9
WC-07	DAIKIN	FXAQ07	GR201	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR202	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR203	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR204	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR205	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR206	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR207	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR208	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR209	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR210	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR211	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
CC-07	DAIKIN	FXZQ07	GR213	CEILING MOUNTED CASSETTE	6.3	5.0	8.7	320	31	3/4"	23	23	11	42	208 V	1	1 A	15	1,2,3,4,5,6,7
FS-18	DAIKIN	FXLQ18	GR216	FLOOR STANDING	17.0	11.5	21.0	480	40	3/4"	10	56	24	80	208 V	1	1 A	15	1,2,3,4,5,6,8,9
WC-07	DAIKIN	FXAQ07	GR301	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR302	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR303	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR304	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR305	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR306	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR307	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR308	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR309	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	GR310	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
CC-07	DAIKIN	FXZQ07	GR313	CEILING MOUNTED CASSETTE	6.3	5.0	8.7	320	31	3/4"	23	23	11	42	208 V	1	1 A	15	1,2,3,4,5,6,7
FS-18	DAIKIN	FXLQ18	GR316	FLOOR STANDING	17.0	11.5	21.0	480	40	3/4"	10	56	24	80	208 V	1	1 A	15	1,2,3,4,5,6,8,9
WC-07	DAIKIN	FXAQ07	RV001	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV002	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV003	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV004	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV005	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV006	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV007	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV008	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV009	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV010	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV011	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV101	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV102	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV103	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV104	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV106	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV107	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV108	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV109	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV110	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV111	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
CC-07	DAIKIN	FXZQ07	RV113	CEILING MOUNTED CASSETTE	6.3	5.0	8.7	320	31	3/4"	23	23	11	42	208 V	1	1 A	15	1,2,3,4,5,6,7
FS-18	DAIKIN	FXLQ18	RV116	FLOOR STANDING	17.0	11.5	21.0	480	40	3/4"	10	56	24	80	208 V	1	1 A	15	1,2,3,4,5,6,8,9
WC-07	DAIKIN	FXAQ07	RV201	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV202	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV203	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV204	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV205	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV206	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV207	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV208	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV209	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
WC-07	DAIKIN	FXAQ07	RV210	WALL MOUNTED	7.1	5.9	8.7	280	35	3/4"	10	32	12	26	208 V	1	1 A	15	1,2,3,4,5,6,7
FS-18	DAIKIN	FXLQ18	RV216	FLOOR STANDING	17.0	11.5	21.0	480	40	3/4"	10	56	24	80	208 V	1	1 A	15	1,2,3,4,5,6,8,9

REMARKS:

1. COOLING PERFORMANCE IS FOR 95 °F OUTDOOR, 70 °F DB / 61 °F WB INDOOR.
2. HEATING PERFORMACE IS FOR 6 °F OUTDOOR, 68 °F INDOOR.
3. HEATING CAPACITY IS BASED ON FULLY HEATING INDOOR UNITS AND COOLING CAPACITY IS BASED ON FULLY COOLING INDOOR UNITS.
4. CONTRACTOR SHALL COORDINATE TO ENSURE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES ARE MAINTAINED.
5. ACCEPTABLE MANUFATURERS INCLUDE DAIKIN, PANASONIC, MITSUBISHI, TRANE, OR LG.
6. SINGLE POINT CONNECTION.
7. TEMPERATURE SENSOR FOR SPACE SHALL BE AT WALL SENSOR, NOT IN RETURN DUCT / PLENUM OF UNIT.
8. PROVIDE INTEGRAL THERMOSTAT.
9. PROVIDE INTEGRAL CONDENSATE PUMP.

VARIABLE REFRIGERANT FLOW OUTDOOR UNIT SCHEDULE

MARK	INSTANCE MARK	MANUFACTURER	MODEL #	TYPE	MINIMUM ACTUAL INSTALLED COOLING (MBH)	MINIMUM NOMINAL HEATING (MBH)	REFRIGERANT (LBS)	NOMINAL SIZE (IN) LENGTH	NOMINAL SIZE (IN) WIDTH	NOMINAL SIZE (IN) HEIGHT	WEIGHT (LBS)	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	ELECTRICAL MCA	ELECTRICAL MOCP	REMARKS
HP	COM	DAIKIN	RXYQ96	HEAT PUMP	85.2	92.6	22.7	30	49	67	525.00	480 V	3	21 A	25	1,2,3,4,5,6,7
HP	D1	DAIKIN	REYQ144	HEAT RECOVERY	64.6	133.2	25.8	30	49	67	780.00	480 V	3	32 A	40	1,2,3,4,5,6,7
HP	D2	DAIKIN	REYQ96	HEAT RECOVERY	42.7	96.0	25.8	30	49	67	705.00	480 V	3	21 A	25	1,2,3,4,5,6,7
HP	D3	DAIKIN	REYQ96	HEAT RECOVERY	42.7	96.0	25.8	30	49	67	705.00	480 V	3	21 A	25	1,2,3,4,5,6,7
HP	E1	DAIKIN	REYQ96	HEAT RECOVERY	42.7	96.0	25.8	30	49	67	705.00	480 V	3	21 A	25	1,2,3,4,5,6,7
HP	E2	DAIKIN	REYQ96	HEAT RECOVERY	42.7	96.0	25.8	30	49	67	705.00	480 V	3	21 A	25	1,2,3,4,5,6,7
HP	E3	DAIKIN	REYQ144	HEAT RECOVERY	64.6	133.2	25.8	30	49	67	780.00	480 V	3	32 A	40	1,2,3,4,5,6,7
HP	F1	DAIKIN	REYQ144	HEAT RECOVERY	64.6	133.2	25.8	30	49	67	780.00	480 V	3	32 A	40	1,2,3,4,5,6,7
HP	F2	DAIKIN	REYQ96	HEAT RECOVERY	42.7	96.0	25.8	30	49	67	705.00	480 V	3	21 A	25	1,2,3,4,5,6,7
HP	F3	DAIKIN	REYQ96	HEAT RECOVERY	42.7	96.0	25.8	30	49	67	705.00	480 V	3	21 A	25	1,2,3,4,5,6,7

REMARKS:

1. COOLING PERFORMANCE IS FOR 95 °F OUTDOOR, 70 °F DB / 61 °F WB INDOOR.
2. HEATING PERFORMANCE IS FOR 6 °f OUTDOOR, 68 °F INDOOR.
3. HEATING CAPACITY IS BASED ON FULLY HEATING INDOOR UNITS AND COOLING CAPACITY IS BASED ON FULLY COOLING INDOOR UNITS.
4. CONTRACTOR SHALL COORDINATE TO ENSURE MANUFACTURER'S REOMMENDED SERVICE CLEARANCES ARE MAITAINED.
5. ACCEPTABLE MANUFACTURERS INCLUDE DAIKIN, PANASONIC, MITSUBISHI, TRANE, OR LG.
6. PROVIDE WIND BAFFLES FOR LOW AMBIENT COOLING.
7. PROVIDE HAIL GUARDS.

VARIABLE REFRIGERANT CONTROLLER UNIT SCHEDULE

MARK	INSTANCE MARK	MANUFACTURER	MODEL #	DIMENSIONS (IN.) LENGTH	DIMENSIONS (IN.) WIDTH	DIMENSIONS (IN.) HEIGHT	WEIGHT (LBS)	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	ELECTRICAL MCA	ELECTRICAL MOCP	REMARKS
RC-8	F1-2	DAIKIN	BS8Q54	19	34	12	115.00	208 V	1	1 A	15	1,2,3,4
RC-6	F1-1	DAIKIN	BS6Q54	19	34	12	115.00	208 V	1	1 A	15	1,2,3,4
RC-12	F2	DAIKIN	BS12Q54	19	34	12	115.00	208 V	1	1 A	15	1,2,3,4
RC-6	F3-1	DAIKIN	BS6Q54	19	34	12	115.00	208 V	1	1 A	15	1,2,3,4
RC-6	F3-2	DAIKIN	BS6Q54	19	34	12	115.00	208 V	1	1 A	15	1,2,3,4
RC-8	D1-2	DAIKIN	BS8Q54	19	34	12	115.00	208 V	1	1 A	15	1,2,3,4
RC-6	D1-1	DAIKIN	BS6Q54	19	34	12	115.00	208 V	1	1 A	15	1,2,3,4
RC-12	D2	DAIKIN	BS12Q54	19	34	12	115.00	208 V	1	1 A	15	1,2,3,4
RC-6	D3-1	DAIKIN	BS6Q54	19	34	12	115.00	208 V	1	1 A	15	1,2,3,4
RC-6	D3-2	DAIKIN	BS6Q54	19	34	12	115.00	208 V	1	1 A	15	1,2,3,4
RC-8	E3-2	DAIKIN	BS8Q54	19	34	12	115.00	208 V	1	1 A	15	1,2,3,4
RC-6	E3-1	DAIKIN	BS6Q54	19	34	12	115.00	208 V	1	1 A	15	1,2,3,4
RC-12	E-2	DAIKIN	BS12Q54	19	34	12	115.00	208 V	1	1 A	15	1,2,3,4
RC-6	E1-1	DAIKIN	BS6Q54	19	34	12	115.00	208 V	1	1 A	15	1,2,3,4
RC-6	E1-2	DAIKIN	BS6Q54	19	34	12	115.00	208 V	1	1 A	15	1,2,3,4

REMARKS:

1. PROVIDE SINGLE POINT CONNECTION.
2. REFER TO PIPING SCHEMATICS FOR ADDITIONAL INFORMATION.
3. CONTRACTOR SHALL COORDINATE TO ENSURE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES ARE MAITAINED.
4. ACCEPTABLE MAUFACTURERS INCLUDE DAIKIN, PANASONIC, MITSUBISHI, TRANE, OR LG.

REGISTERS, GRILLES, AND DIFFUSERS

MARK	MANUFACTURER	MODEL #	TYPE	GRILLE SIZE	PANEL SIZE	DUCT INLET SIZE	CFM	P.D.	NOISE CRITERIA	THROW PATTERN	REMARKS
E-1	TITUS	350FL	ALUMINUM DOUBLE DEFLECTION GRILLE	6X6	6X6	-	225	0.05	20	-	1,2,3,4
E-2	TITUS	350FL	ALUMINUM DOUBLE DEFLECTION GRILLE	26X6	26X6	-	300	0.05	20	-	1,2,3,4
S-1	TITUS	300FL	ALUMINUM DOUBLE DEFLECTION SIDEWALL DIFFUSER	6X6	6X6	-	225	0.05	20	-	1,2,3,4
S-2	TITUS	300FL	ALUMINUM DOUBLE DEFLECTION SIDEWALL DIFFUSER	26X6	26X6	-	300	0.05	20	-	1,2,3,4

REMARKS:

1. COLOR SHALL BE SELECTED BY ARCHITECT.
2. COORDINATE MOUNTING TYPE (LAY-IN, GYP BOARD, ETC.) WITH ARCHITECTURAL DRAWINGS.
3. ACCEPTABLE MAUFACTURERS INCLUDE METALAIRE, KRUEGER, BAILEY, PRICE, OR APPROVED EQUAL.
4. PROVIDE OPTIONAL AIR ADJUSTER FLAPS / AIR PATTER DEFLECTORS.

ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	INSTANCE MARK	MANUFACTURER	MODEL #	SUPPLY AIRFLOW (CFM)	EXHAUST AIRFLOW (CFM)	SUPPLY AIR CONDITIOND SUMMER DB (°F)	SUPPLY AIR CONDITIOND SUMMER WB (°F)	SUPPLY AIR CONDITIOND WINTER DB (°F)	ENERGY RECOVERY COOLING (MBH)	ENERGY RECOVERY HEATING (MBH)	FAN STATIC OA FAN E.S.P. (IN.)	FAN STATIC EA FAN E.S.P (IN.)	WEIGHT (LBS)	ELECTRICAL DATA OA FAN VOLTAGE	ELECTRICAL DATA OA FAN PHASE	ELECTRICAL DATA OA FAN MCA	ELECTRICAL DATA OA FAN MOCP	REMARKS
ERU	D1	UNITED COOL AIR	AAH100	480	480	73	60	73	37.1	42.0	1.00	1.00	750	208 V	1	10 A	15	1,2,3,4,5
ERU	D2	UNITED COOL AIR	AAH100	490	420	73	60	73	37.1	42.0	1.00	1.00	750	208 V	1	10 A	15	1,2,3,4,5
ERU	D3	UNITED COOL AIR	AAH100	420	405	73	60	73	37.1	42.0	1.00	1.00	750	208 V	1	10 A	15	1,2,3,4,5
ERU	E1	UNITED COOL AIR	AAH100	480	480	73	60	73	37.1	42.0	1.00	1.00	750	208 V	1	10 A	15	1,2,3,4,5
ERU	E2	UNITED COOL AIR	AAH100	490	420	73	60	73	37.1	42.0	1.00	1.00	750	208 V	1	10 A	15	1,2,3,4,5
ERU	E3	UNITED COOL AIR	AAH100	420	405	73	60	73	37.1	42.0	1.00	1.00	750	208 V	1	10 A	15	1,2,3,4,5
ERU	F1	UNITED COOL AIR	AAH100	480	480	73	60	73	37.1	42.0	1.00	1.00	750	208 V	1	10 A	15	1,2,3,4,5
ERU	F2	UNITED COOL AIR	AAH100	490	420	73	60	73	37.1	42.0	1.00	1.00	750	208 V	1	10 A	15	1,2,3,4,5
ERU	F3	UNITED COOL AIR	AAH100	420	405	73	60	73	37.1	42.0	1.00	1.00	750	208 V	1	10 A	15	1,2,3,4,5

REMARKS:

1. PROVIDE WITH INTEGRAL SUPPORT RAILS AND HANGING BRACKETS.
2. ENTIRE UNIT SHALL BE DOUBLE WALL CONSTRUCTION.
3. ENTERING OUTSIDE AIR TEMPERATURE IN WINTER IS 18 °F AND IN SUMMER IS 84 °F.
4. PROVIDE CONTROLS HARDWARE FOR REMOTE INTEGRATION OF START/STOP STATUS TO MAIN DDC CENTRAL STATION.
5. PROVIDE WITH COMPRESSOR BLANKET.
6. ACCEPTABLE MANUFACTURERS INCLUDE LG AND TRANE.

LOUVER SCHEDULE

MARK	MODEL #	SERVICE	CFM	LENGTH (IN)	HEIGHT (IN)	FREE AREA	VELOCITY (FPM)	APD (IN. WG.)	REMARKS
L-1	RUSKIN ELF375	INTAKE	1500	36	60	2	750 FPM	0.05	1,2,3
L-2	RUSKIN ELF375	EXHAUST	1500	18	36	2	750 FPM	0.05	1,2,3

REMARKS:

1. COLOR SHALL BE SELECTED BY ARCHITECT.
2. PROVIDE WITH BIRDSCREEN.
3. ACCEPTABLE MANUFACTURER'S INCLUDE RUSKIN, AIR BALANCE, PENN, GREENHECK, OR APPROVED EQUAL.

ELECTRIC HEATER SCHEDULE

MARK	INSTANCE MARK	MANUFACTURER	MODEL #	TYPE	DIMENSIONS (IN) HEIGHT	DIMENSIONS (IN) WIDTH	DIMENSIONS (IN) LENGTH	KW	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	REMARKS
EWH-1	BL1	MARKEL	3320 SERIES	SURFACE MOUNTED	20	14	4	3 W	208 V	1	1,2,3,4,5
EWH-1	BL2	MARKEL	3320 SERIES	SURFACE MOUNTED	20	14	4	3 W	208 V	1	1,2,3,4,5
EWH-1	CR100	MARKEL	3320 SERIES	SURFACE MOUNTED	20	14	4	3 W	208 V	1	1,2,3,4,5
EWH-1	CR118	MARKEL	3320 SERIES	SURFACE MOUNTED	20	14	4	3 W	208 V	1	1,2,3,4,5
EWH-1	GR100	MARKEL	3320 SERIES	SURFACE MOUNTED	20	14	4	3 W	208 V	1	1,2,3,4,5
EWH-1	GR118	MARKEL	3320 SERIES	SURFACE MOUNTED	20	14	4	3 W	208 V	1	1,2,3,4,5

REMARKS:

1. COLORS SHALL BE SELECTED BY ARCHITECT.
2. PROVIDE WITH THERMAL OVERLOAD PROTECTION.
3. PROVIDE INTEGRAL CONCEALED THERMOSTAT.
4. PROVIDE INTEGRAL DISCONNECT SWITCH.
5. ACCEPTABLE MANUFACTURERS INCLUDE MARKEL, REZNOR, Q-MARK OR APPROVED EQUAL.

0'-1" REFERENCE LINE

STATE OF KENTUCKY
CAROLINE REBEKAH KELTY
28333
LICENSED PROFESSIONAL ENGINEER

SHP
312 Plum Street, Ste 700 Cincinnati, Ohio 45202 513.381.2112
250 Civic Center Drive, Ste 200 Columbus, Ohio 43215 614.223.2124
223 Fairfield Avenue, Ste 100 Bellevue, Kentucky 41073 859.360.1234

NORTHERN KENTUCKY UNIVERSITY
COMMONWEALTH HALL RENOVATIONS
Nunn Drive | Highland Heights, Kentucky 41099
NORTHERN KENTUCKY UNIVERSITY
Nunn Drive | Highland Heights, Kentucky 41099

ISSUANCES

1	10/19/18	PERMIT/BID

MECHANICAL SCHEDULES

DATE 10/19/18

COMM NO. 2017066.01

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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 SEISMIC 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 INCLUDED FOR SAME AT 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 ADDENDUM.

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 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 U/NO. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE U/NO.

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.

P. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER 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.

Q. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK 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 CONTRACTORS' 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 FROM 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 OUTLETS, 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 RESPONSIBLE CONTRACTOR(S).

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, UNLESS WAIVED BY THE ENGINEER IN WRITING.

AE. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, 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, STANDARD 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 PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. 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 SEQUENCE OF THE WORK FROM 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 AROUND BOXES 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 CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, 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 KEYED LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYING SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. 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 THIN SOLID 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 HEREIN 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 (U/ON). 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 "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.

HAZARDOUS MATERIALS NOTE:

A. THE CONTRACTOR IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC. WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN ME ASCERTAINED TO BE NON-HAZARDOUS. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. NKU WILL ATTEMPT TO HAVE A REPORT IDENTIFYING THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS, OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM/HER IMMEDIATELY. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, IT'S PRINCIPALS, EMPLOYEES, AGENTS, OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, IT'S PRINCIPALS, EMPLOYEES, AGENTS, OR CONSULTANT HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS, OR ANY OTHER THIRD PARTY.

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
LIGHTING CONTROL SWITCHES		
LIGHT SWITCH: LOW VOLTAGE	4'-0"	$
OCCUPANCY OR VACANCY SENSOR SWITCH DIMMING	4'-0"	$OS
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CLG	OS
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAIL)	CLG	ER
POWER OUTLETS		
SIMPLEX RECEPTACLE	1'-6"	
DUPLEX RECEPTACLE-SAFETY TYPE, TAMPER-RESISTANT	1'-6"	S
DUPLEX RECEPTACLE	1'-6"	
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH		
FILLED CENTER BAR INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI)	1'-6"	
DUPLEX RECEPTACLE, CEILING MOUNTED	CLG	
QUADRUPLEX RECEPTACLE	1'-6"	
JUNCTION BOX, CEILING OR WALL		J
VOLTAGE/1PH RECEPTACLE, AS NOTED	AS NOTED	
FIRE ALARM		
MAIN CONTROL PANEL CENTRAL PROCESSING UNIT (CPU)	6'-6" TO TOP	FACP
PULL STATION : DOUBLE ACTION	48" TO LEVER	F
AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL, CLG	F, F
VISUAL-ONLY NOTIFICATION APPLIANCE	WALL, CLG	V, V
DUCT SMOKE DETECTOR	ABV CLG	DD

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
LIGHTING		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE OR SUSPENDED CEILING FIXTURE (SLASH INDICATES RECESSED)		
POLE MOUNTED AREA LIGHT		
EMERGENCY BATTERY WALL-PACK		
WALL MOUNT FIXTURE		
EXIT LIGHT (CEILING, END, WALL MOUNT)		
STRIP FIXTURE		
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS: HASHMARKS INDICATE # OF CONDUCTORS. DASHED LINE INDICATES CONDUIT BELOW FLOOR.		GROUND, NEUTRAL, PHASE
DISCONNECT SWITCH	5'-0"	
PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP	
TRANSFORMER	AS NOTED	
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		EQUIP-1
TAGGED NOTE		
REVISION TAG		
MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)		
LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN	
DOORBELL PUSHBUTTON STATION, PROVIDE COMPLETE WITH TRANSFORMER (MOUNT ABOVE CEILING IN CORRIDOR NEAR PUSH-BUTTON) AND ALL ACCESSORIES. POWER FROM NEAREST AVAILABLE 120V NORMAL POWER GENERAL RECEPTACLE CIRCUIT, NUTONE OR EQUAL	4'-0"	DB
EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE		
CONDUIT UP		
CONDUIT DOWN		
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
ABBREVIATIONS		
UNLESS OTHERWISE NOTED		UON
OWNER FURNISHED CONTRACTOR INSTALLED		OFCI
OWNER FURNISHED OWNER INSTALLED		OFOI
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFCI
CONTRACTOR FURNISHED OWNER INSTALLED		CFOI
INDICATES EMERGENCY POWER		E, EM
SPECIAL OUTLETS		
POKE THOUGH FLOOR BOX, COORDINATE EXACT COVER REQUIREMENTS WITH ARCHITECTURAL FINISHES, DEVICES AS SCHEDULED	FLOOR	
AUDIO/VISUAL SYSTEM OUTLET WITH DUPLEX RECEPTACLE. REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	AV
COMBINATION POWER AND DATA OUTLET LOCATION, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	
COMBINATION POWER AND A/V OUTLET LOCATION, GFCI DUPLEX RECEPTACLE, PROVIDE WIREMOLD EVOLUTION EWH84-WH OR EQUAL.	72"	TV
POWER POLE AS NOTED		PP

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ISSUANCES

1	10/19/18	PERMIT/BID

ELECTRICAL LEGEND

DATE 10/19/18

COMM NO. 2017066.01

E100

1" 0'-1" REFERENCE LINE

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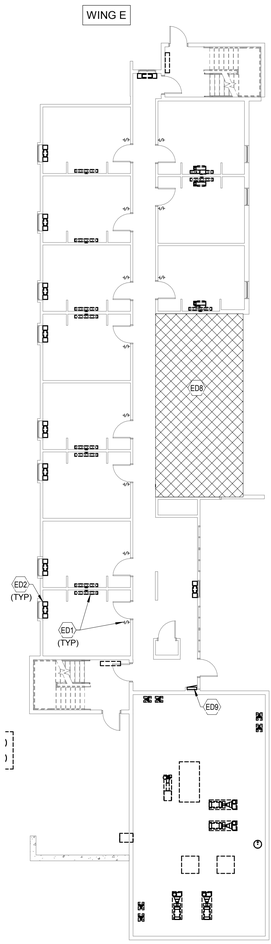
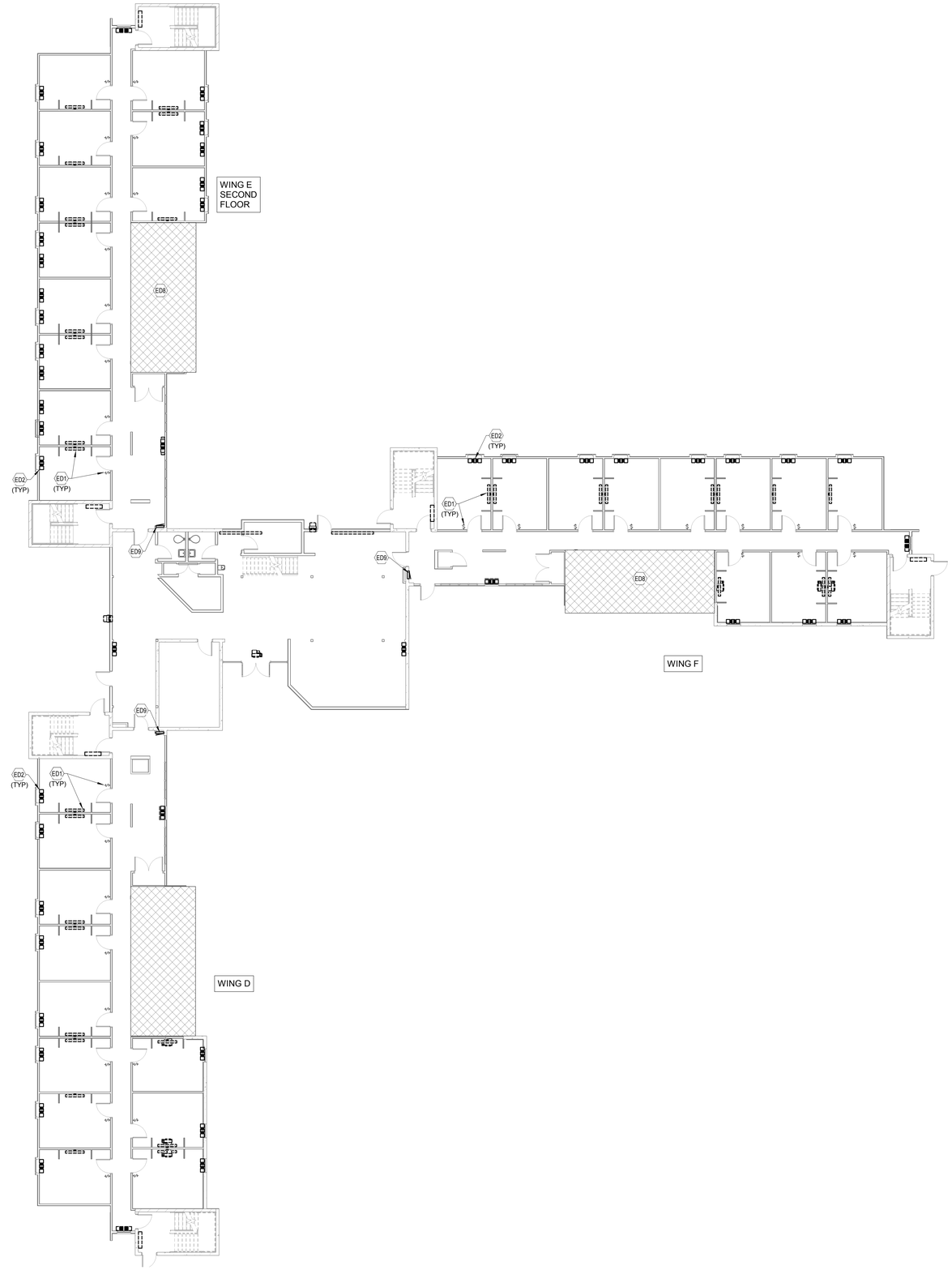


2 LOWER LEVEL PLAN - ELECTRICAL DEMOLITION
E201 3/32" = 1'-0"



1 FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
E201 3/32" = 1'-0"

ELECTRICAL DEMOLITION NOTES

- DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- 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.
- 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.
- 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).
- COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
- 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.
- 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.
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TAGGED NOTES (X)

ED1	DEMOLISH EXISTING LIGHT FIXTURE AND SWITCH. SURVEY AND FIELD VERIFY SOURCE AND REMOVE ELECTRICAL BACK TO SOURCE.
ED2	DEMOLISH ALL ELECTRICAL ASSOCIATED WITH DEMOLISHED HVAC UNIT BACK TO SOURCE. ALL DOWNSTREAM LOADS SHALL REMAIN IN SERVICE.
ED8	DEMOLISH ALL EXISTING LIGHTING FIXTURES AND DEVICES IN RESTROOM.
ED9	EXISTING PANELBOARD GENERAL ELECTRIC NLAB TO REMAIN. PANEL IS 100A, 120V/208, 3 PHASE, 4 WIRE.

CONTRACTOR NOTE: THE POTENTIAL TO ENCOUNTER CONDUIT/WIRING UNDERSLAB DURING DEMOLITION/WORK EXISTS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR/MAINTAIN ELECTRICAL AS NEEDED.

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
"0'-1" REFERENCE LINE"

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ISSUANCES

1	10/19/18	PERMIT/BID

FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

DATE 10/19/18
COMM NO. 2017066.01

E201

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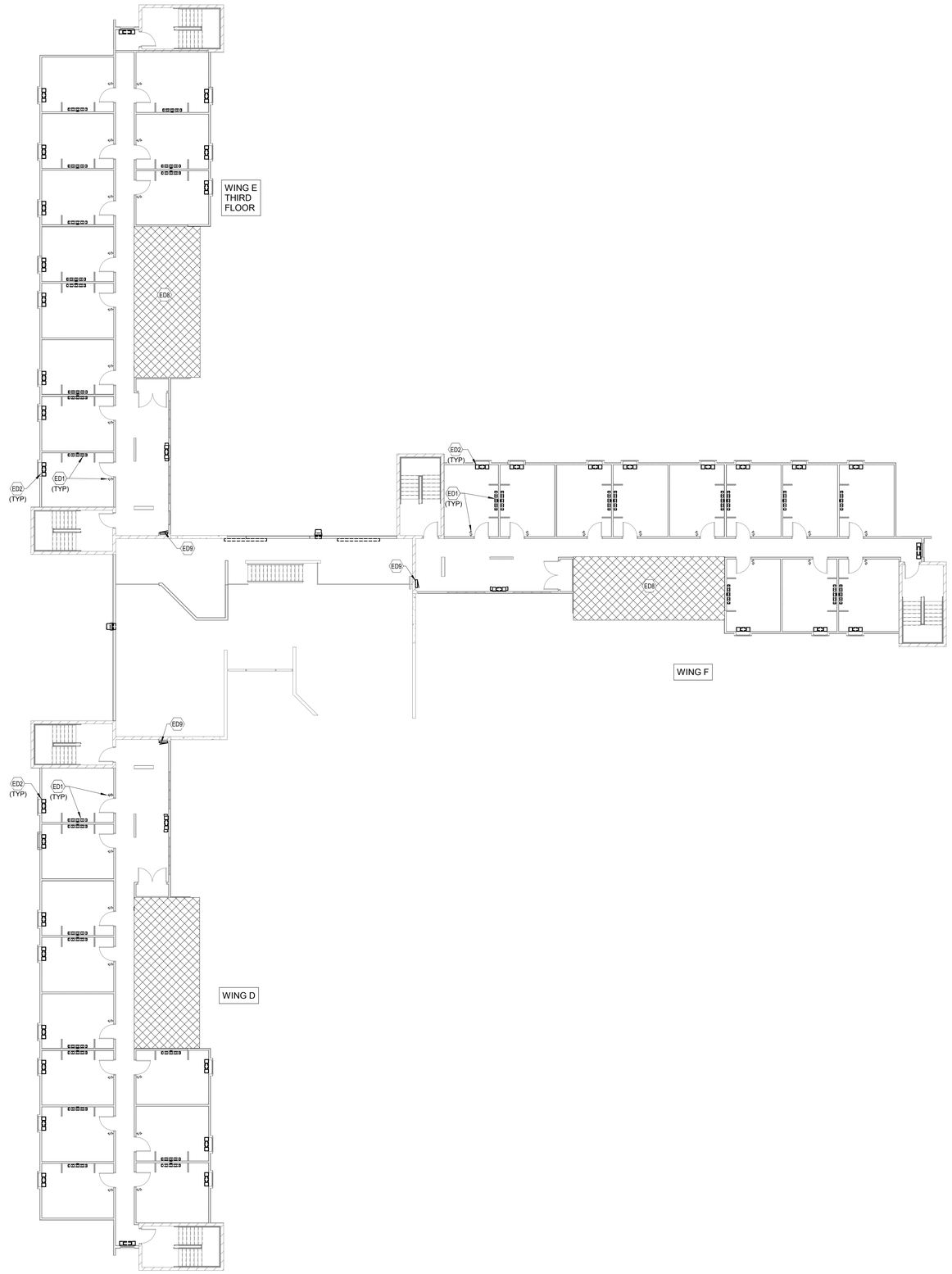

1 E202 SECOND FLOOR PLAN - ELECTRICAL DEMOLITION
3/32" = 1'-0"

ELECTRICAL DEMOLITION NOTES

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- 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.
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- PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
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0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

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ISSUANCES

1	10/19/18	PERMIT/BID

SECOND FLOOR PLAN - ELECTRICAL DEMOLITION

DATE 10/19/18
COMM NO. 2017066.01

E202

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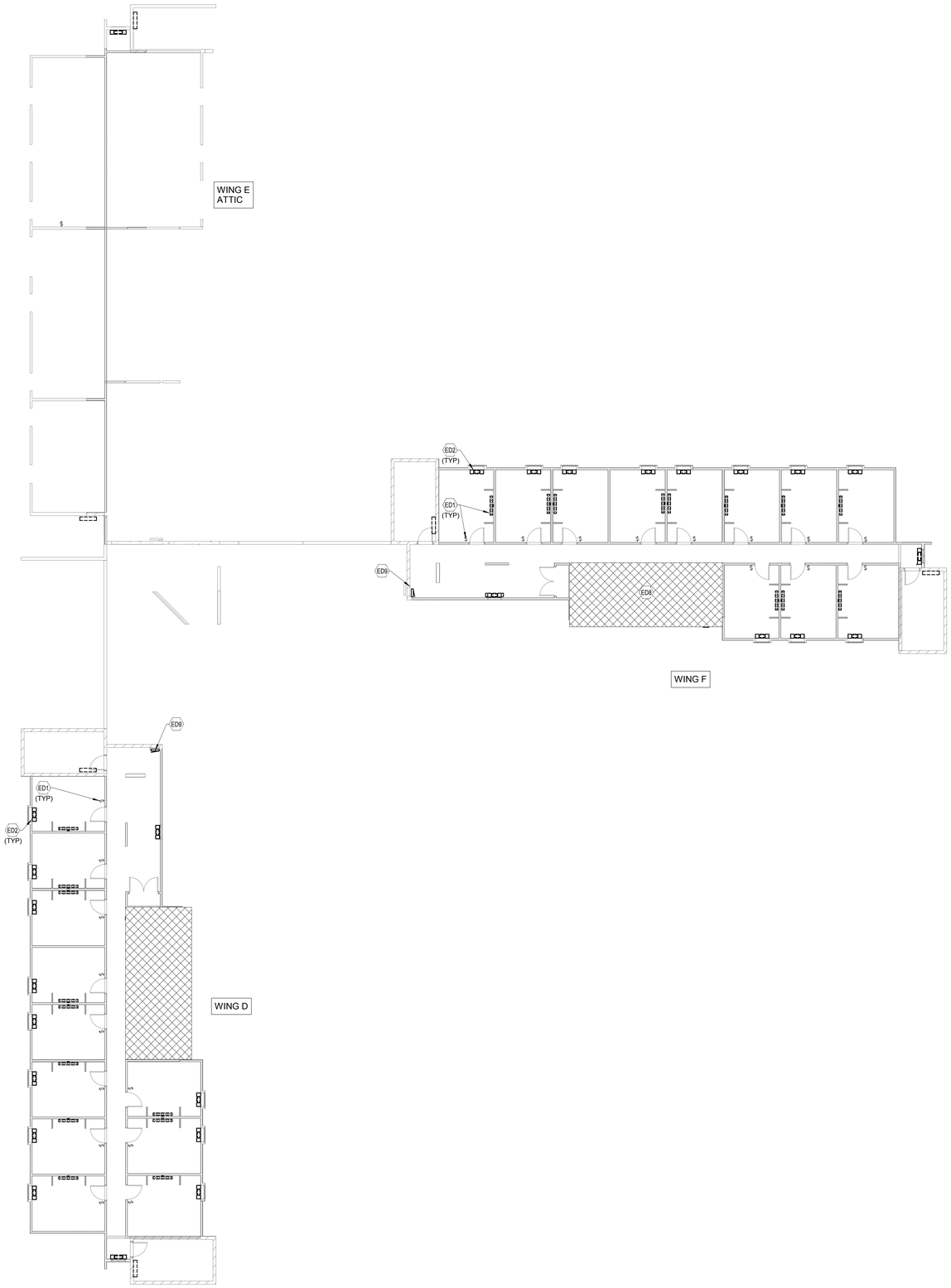

1 E203 THIRD FLOOR PLAN - ELECTRICAL DEMOLITION
3/32" = 1'-0"

ELECTRICAL DEMOLITION NOTES

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0'-1" REFERENCE LINE

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ISSUANCES

1	10/19/18	PERMIT/BID

THIRD FLOOR PLAN - ELECTRICAL DEMOLITION

DATE 10/19/18
COMM NO. 2017066.01

E203

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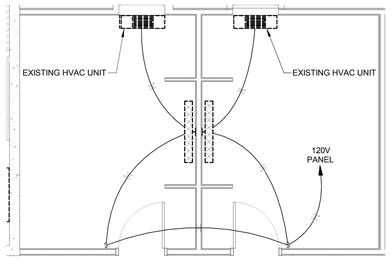
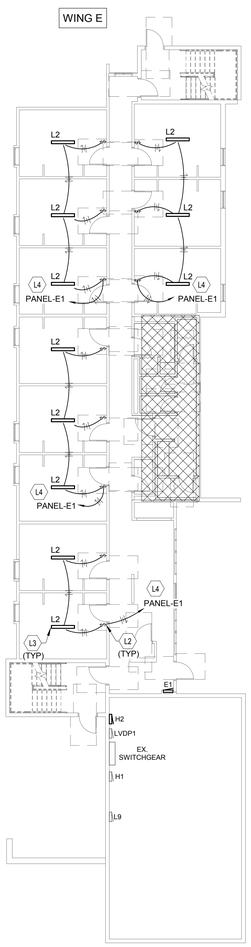
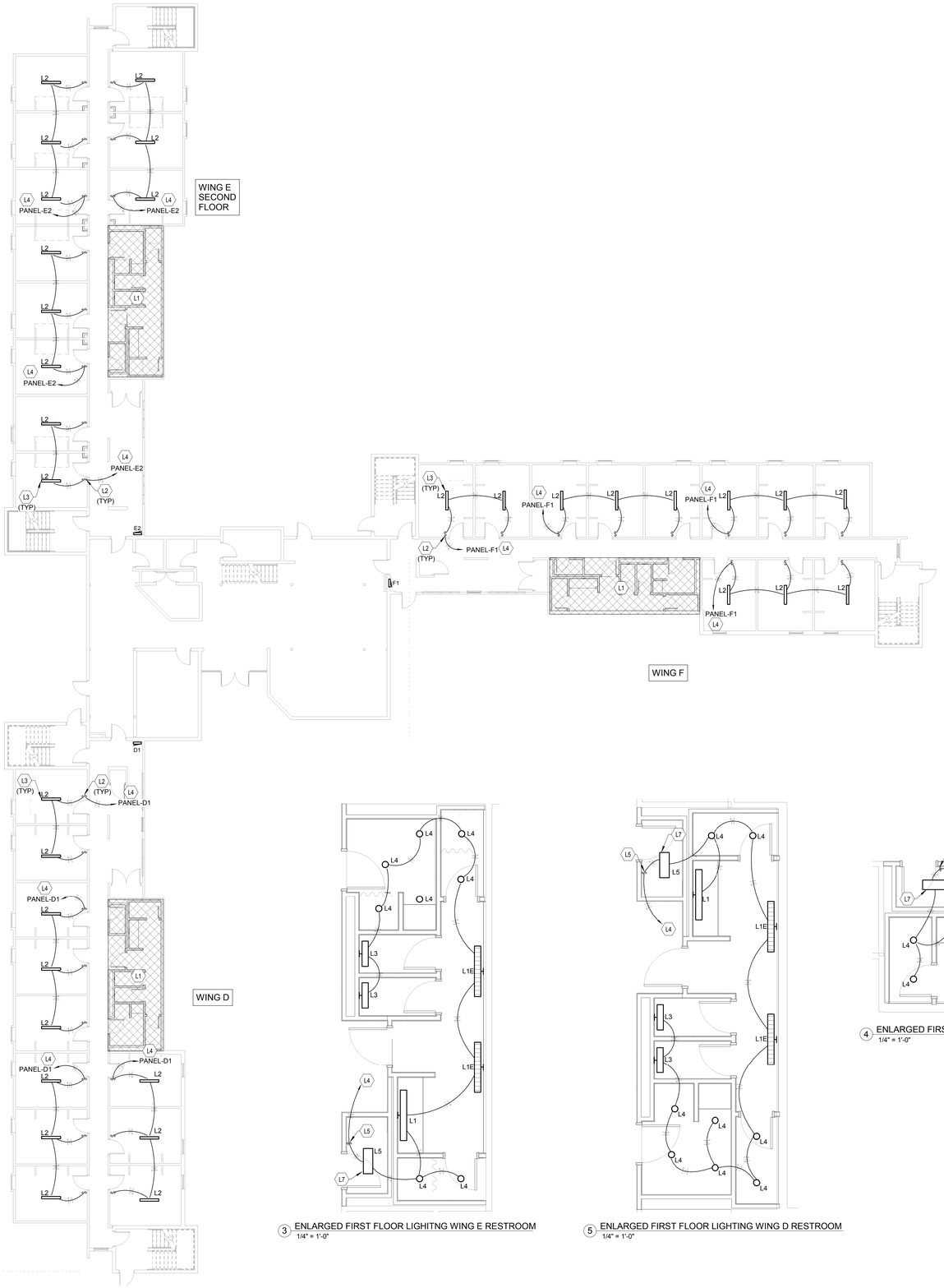


6 TYPICAL EXISTING BEDROOM ELEC LAYOUT
1/4" = 1'-0"

*NOTE:
ENGINEER HAS PERFORMED FIELD WORK AND BELIEVES THIS IS THE TYPICAL WIRING OF BEDROOMS. IF CONTRACTOR FINDS DIFFERENT CONDITIONS HE SHALL NOTIFY ENGINEER PRIOR TO WORK ON THAT ITEM.



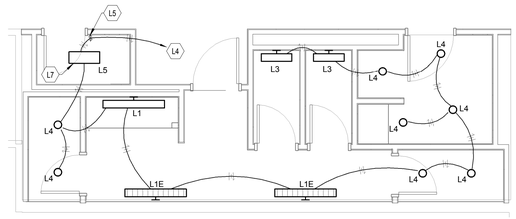
2 LOWER LEVEL PLAN - LIGHTING
E301 3/32" = 1'-0"



1 FIRST FLOOR PLAN - LIGHTING
E301 3/32" = 1'-0"

3 ENLARGED FIRST FLOOR LIGHITNG WING E RESTROOM
1/4" = 1'-0"

5 ENLARGED FIRST FLOOR LIGHTING WING D RESTROOM
1/4" = 1'-0"



4 ENLARGED FIRST FLOOR LIGHTING WING F RESTROOM
1/4" = 1'-0"

GENERAL NOTES (LIGHTING):

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. WHERE EXIT SIGNS OR EMERGENCY BATTERY PACKS ARE PROVIDED, THEY SHALL BE CONNECTED TO AN UNSWITCHED LINE.

G. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.

H. 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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J. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

TAGGED NOTES	(X)
L1	REFER TO ENLARGED PLAN FOR LIGHTING IN THIS AREA.
L2	PROVIDE NEW LIGHT SWITCH IN EXISTING SWITCH BOX AND PROVIDE NEW STAINLESS STEEL COVER PLATE.
L3	PROVIDE NEW LIGHT FIXTURE IN CEILING. COORDINATE LOCATION WITH EXISTING SMOKE DETECTOR AND SPRINKLER HEAD. FIXTURE SHALL BE 12" MINIMUM FROM SPRINKLER. PROVIDE CIRCUIT ABOVE CEILING BY FISHING, ETC. AS NECESSARY. WHERE WIREMOLD IS EXISTING, EXTEND WIREMOLD ACROSS CEILING TO NEW LIGHT FIXTURE. WIREMOLD SHALL BE METAL, PAINTABLE TYPE.
L4	PROVIDE 2#12, 1#12 GROUND IN 3/4" CONDUIT. PROVIDE NEW 20A/1P BREAKER IN PANEL.
L5	PROVIDE KEYED LIGHT SWITCH CONTROLLING RESTROOM/SHOWER LIGHTS IN THIS LOCATION. JANITOR ROOM LIGHT SHALL BE CONTROLLED VIA A SEPARATE SNAP SWITCH.
L7	COORDINATE LIGHT FIXTURE LOCATION/ROTATION WITH DOOR SWINGS. VERIFY DOOR WILL NOT INTERFERE WITH LIGHT FIXTURE ONCE INSTALLED.

SCALE: 3/32" = 1'-0"
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0'-1" REFERENCE LINE

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Nunn Drive | Highland Heights, Kentucky 41099

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ISSUANCES		
1	10/19/18	PERMIT/BID

FIRST FLOOR PLAN - LIGHTING

DATE 10/19/18
COMM NO. 2017066.01

E301

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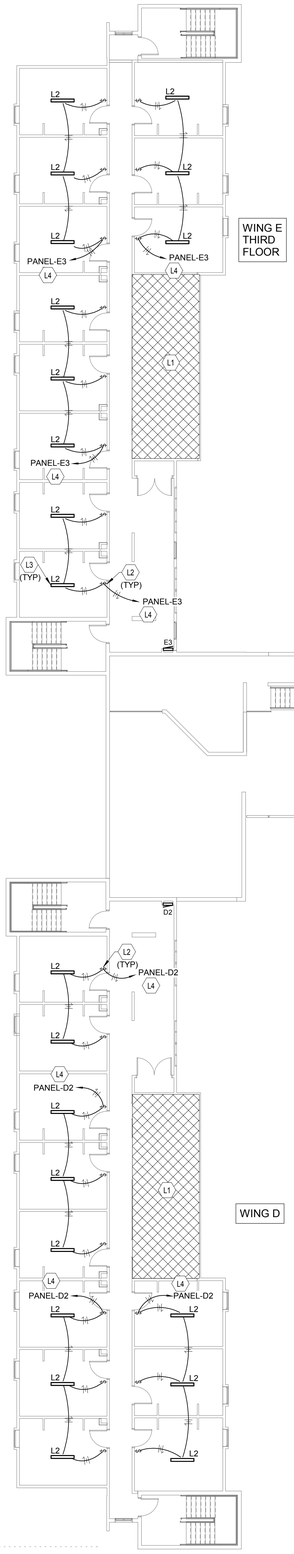
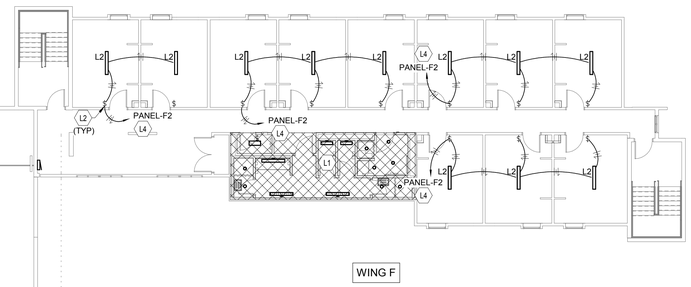
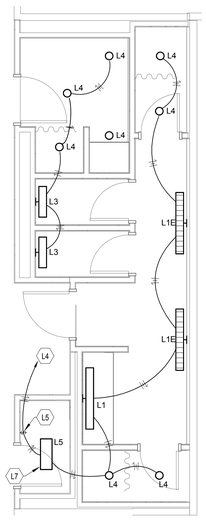
ELEC - LUMINAIRE SCHEDULE

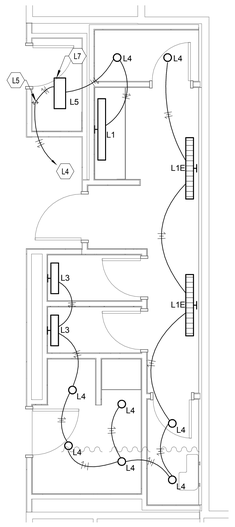
TYPE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANUFACTURERS	MOUNTING	MAXIMUM WATTAGE	VOLTAGE	REMARKS
L1	4'-0" LED WALL MOUNTED BRACKET WITH COLD ROLLED STEEL HOUSING, DIE CAST END CAPS, CRESENT SHAPED IMPACT MODIFIED LINEAR FACETED ACRYLIC DIFFUSER, HIGH EFFICIENCY INTEGRAL LED DRIVER, 4000 DELIVERED LUMENS FROM LED ARRAY, L80 OF 50,000 HOURS, AND FIVE YEAR LIMITED WARRANTY.	LITHONIA WL4 40L LP835	WILLIAMS, PHILIPS	WALL	59	277	
L1E	4'-0" LED WALL MOUNTED BRACKET WITH COLD ROLLED STEEL HOUSING, DIE CAST END CAPS, CRESENT SHAPED IMPACT MODIFIED LINEAR FACETED ACRYLIC DIFFUSER, HIGH EFFICIENCY INTEGRAL LED DRIVER, 4000 DELIVERED LUMENS FROM LED ARRAY, L80 OF 50,000 HOURS, AND FIVE YEAR LIMITED WARRANTY. WITH INTEGRAL BATTERY PACK AND EMERGENCY OPTION.	LITHONIA WL4 40L LP835 EL14L	WILLIAMS, PHILIPS	WALL	59	277	
L2	4'-0" LED SURFACE MOUNTED BRACKET WITH COLD ROLLED STEEL HOUSING, DIE CAST END CAPS, CRESENT SHAPED IMPACT MODIFIED LINEAR FACETED ACRYLIC DIFFUSER, HIGH EFFICIENCY INTEGRAL LED DRIVER, 4000 DELIVERED LUMENS FROM LED ARRAY, L80 OF 50,000 HOURS, AND FIVE YEAR LIMITED WARRANTY.	LITHONIA WL4 40L LP835	WILLIAMS, PHILIPS	CEILING	59	120	
L3	2'-0" LED WALL MOUNTED BRACKET WITH COLD ROLLED STEEL HOUSING, DIE CAST END CAPS, CRESENT SHAPED IMPACT MODIFIED LINEAR FACETED ACRYLIC DIFFUSER, HIGH EFFICIENCY INTEGRAL LED DRIVER, 2200 DELIVERED LUMENS FROM LED ARRAY, L80 OF 50,000 HOURS, AND FIVE YEAR LIMITED WARRANTY.	LITHONIA WL2 22L LP835	WILLIAMS, PHILIPS	WALL	59	277	
L4	RECESSED 6" LED SHOWER LIGHT WITH 1000 LUMEN OUTPUT SELF-FLANGED WHITE LOWER REFLECTOR, WHITE TRIM RING, HIGHLY TRANSMISSIVE LENS, 45° CUT-OFF TO SOURCE AND SOURCE IMAGE FOR A SMOOTH TRANSITION FROM TOP OF THE REFLECTOR TO BOTTOM, GALVENIZED STEEL MOUNTING FRAME, ADJUSTABLE 16-GAUGE GALVANIZED STEEL MOUNTING BARS WITH CONTINUOUS 4" VERTICAL ADJUSTMENT FROM BELOW CEILING, GALVANIZED STEEL JUNCTION BOX WITH HINGED ACCESS COVERS, SOLID STATE LED LIGHT ENGINE AVAILABLE IN 3500° OR 4100°K COLOR TEMPERATURES, CLASS P, THERMALLY PROTECTED SOLID-STATE 0-10V DIMMING DRIVER, RATED SYSTEM LIFE OF 50,000 HOURS AT 70% OUTPUT, MAXIMUM 40 DEGREE CELCIUS OPERATING TEMPERATURE, FIXTURES ARE WET LOCATION LISTED, AND 3-YEAR LIMITED WARRANTY.	GOTHAM EVO 35K 10 6 DFR 277	WILLIAMS, PHILIPS	CEILING	37	277	
L5	2'-0" LED SURFACE MOUNTED BRACKET WITH COLD ROLLED STEEL HOUSING, TRANSLUCENT WHITE DIFFUSER, HIGH EFFICIENCY INTEGRAL LED DRIVER, 1937 DELIVERED LUMENS FROM LED ARRAY, L80 OF 50,000 HOURS, AND FIVE YEAR LIMITED WARRANTY.	LITHONIA SBL2 LP835	WILLIAMS, PHILIPS	CEILING	59	277	







3 ENLARGED SECOND FLOOR PLAN LIGHTING WING E RESTROOM
1/4" = 1'-0"



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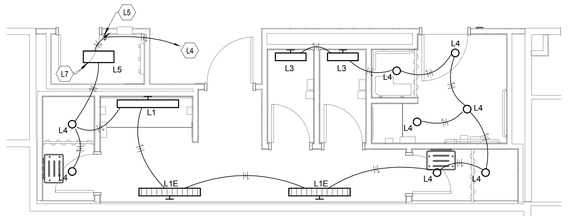

2 ENLARGED SECOND FLOOR PLAN LIGHTING WING F RESTROOM
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1 E302 SECOND FLOOR PLAN - LIGHTING
3/32" = 1'-0"

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ISSUANCES

1	10/19/18	PERMIT/BID

SECOND FLOOR PLAN - LIGHTING

DATE 10/19/18
COMM NO. 2017066.01

E302

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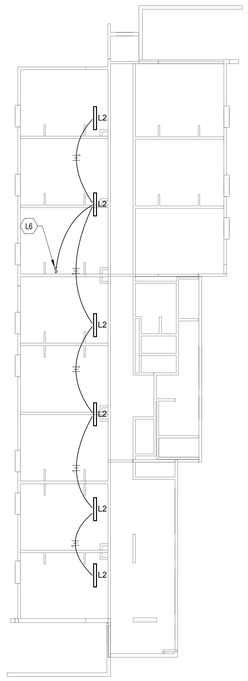

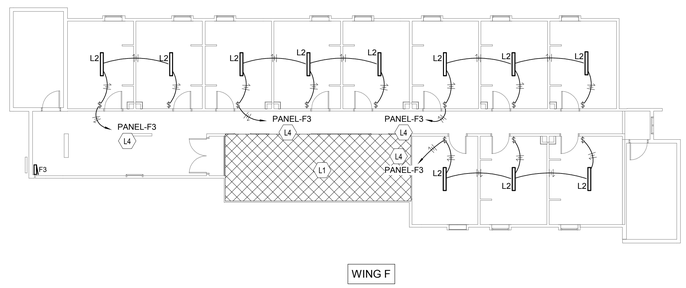

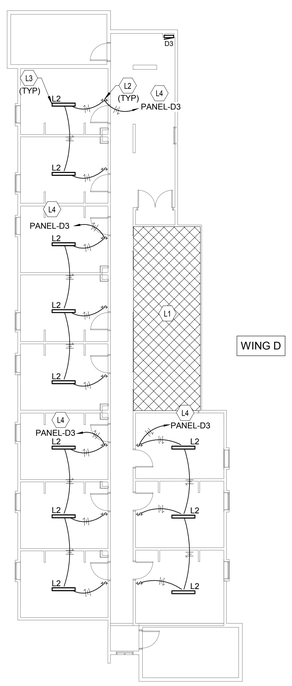

1 THIRD FLOOR PLAN - LIGHTING
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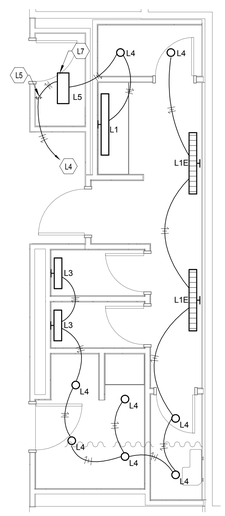

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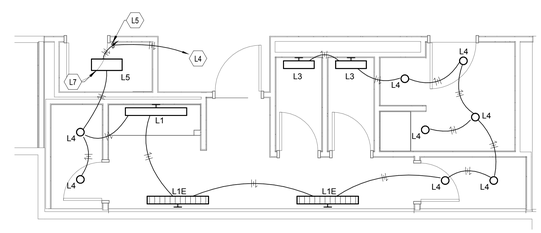

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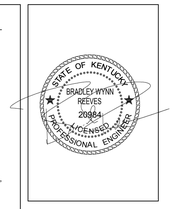
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE



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ISSUANCES		
1	10/19/18	PERMIT/BID

THIRD FLOOR PLAN - LIGHTING

DATE 10/19/18
COMM NO. 2017066.01

E303

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GENERAL NOTES (LIGHTING):

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. WHERE EXIT SIGNS OR EMERGENCY BATTERY PACKS ARE PROVIDED, THEY SHALL BE CONNECTED TO AN UNSWITCHED LINE.

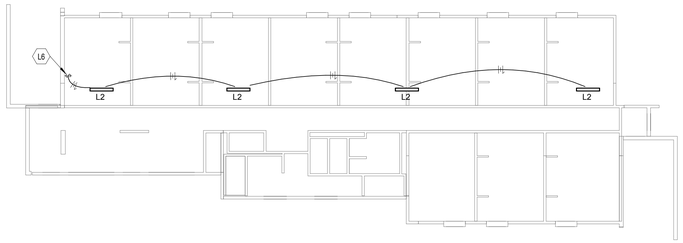
G. LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.

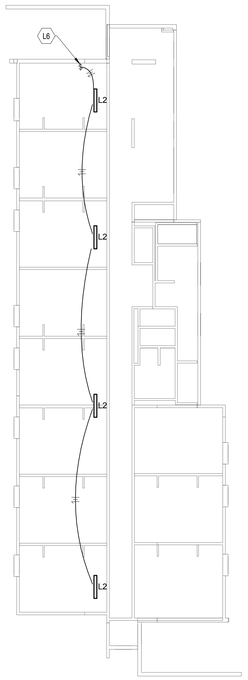
H. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. 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.

I. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.

J. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

TAGGED NOTES	
L6	PROVIDE LIGHT SWITCH AT NEW ATTIC HATCH LOCATION. COORDINATE WITH ARCHITECTURAL





1 OVERALL LIGHTING DESIGN PLAN ROOF
3/32" = 1'-0"

0'-1" REFERENCE LINE

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ISSUANCES

1	10/19/18	PERMIT/BID

ATTIC PLAN - LIGHTING

DATE 10/19/18

COMM NO. 2017066.01

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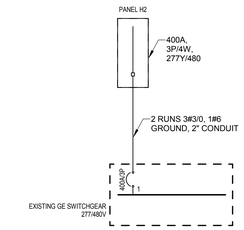

3 MECH. 1102 POWER RISER
1/8" = 1'-0"

PANELBOARD AND WIRING SCHEDULE

PANEL: H2
VOLTAGE: 480Y/277V,3P,4W
AMPERES: 400 A
MAINS TYPE: MLO
SPD:
MOUNTING: SURFACE
kAIC VALUE:
AIC RATING: 22000
LOCATION: Space 143
SUPPLY FROM: EX. SWITCHGEAR

CIRCUIT DESCRIPTION	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	CIRCUIT DESCRIPTION
						1	5.0	5.0					2						
HP - COM	10	10	3/4"	25	3	3			5.0	5.0			4	3	40	1"	10	8	HP - E3
						5					5.0	5.0	6						
						7	5.0	5.0					8						
HP - E2	10	10	3/4"	25	3	9			5.0	5.0			10	3	25	3/4"	10	10	HP - E1
						11					5.0	5.0	12						
						13	5.0	5.0					14						
HP - D1	8	10	1"	40	3	15			5.0	5.0			16	3	25	3/4"	10	10	HP - D2
						17					5.0	5.0	18						
						19	0.3	5.0					20						
HP - D3	10	10	3/4"	25	3	21			0.3	5.0			22	3	40	1"	10	8	HP - F1
						23					0.3	5.0	24						
						25	5.0	5.0					26						
HP - F2	10	10	3/4"	25	3	27			5.0	5.0			28	3	25	3/4"	10	10	HP - F3
						29					5.0	5.0	30						
SPARE	--	--	--	20	1	31	0.0	0.0					32	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	33			0.0	0.0			34	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	35					0.0	0.0	36	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	37	0.0	0.0					38	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	39			0.0	0.0			40	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	41					0.0	0.0	42	1	20	--	--	--	SPARE
						TOTAL LOAD (kVA):	45.3 kVA		45.3 kVA		45.3 kVA								
						TOTAL CURRENT (A):	164 A		164 A		164 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	136000 VA	100.00%	136000 VA	TOTAL CONNECTED LOAD:	136000 VA
				TOTAL ESTIMATED DEMAND:	136000 VA
				TOTAL CONNECTED CURRENT:	164 A
				TOTAL ESTIMATED DEMAND CURRENT:	164 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

GENERAL NOTES (POWER):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

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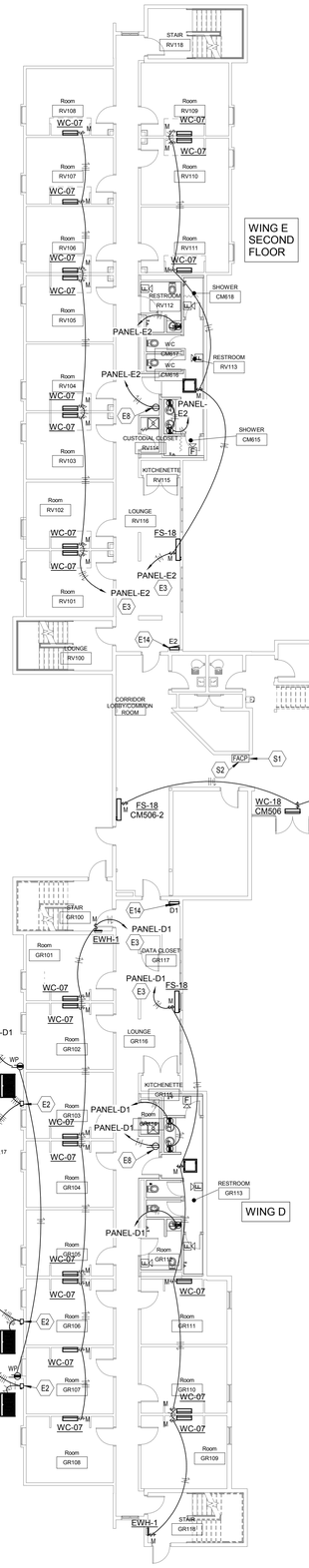
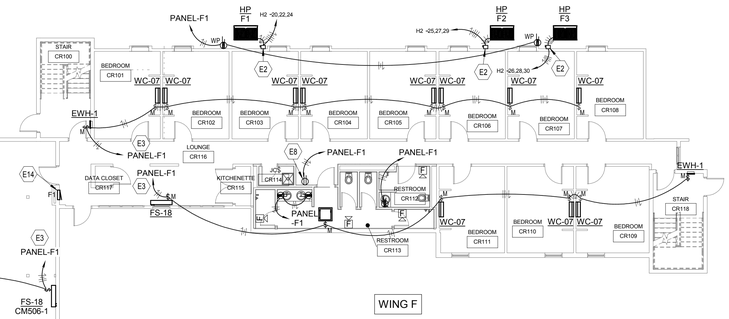
D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

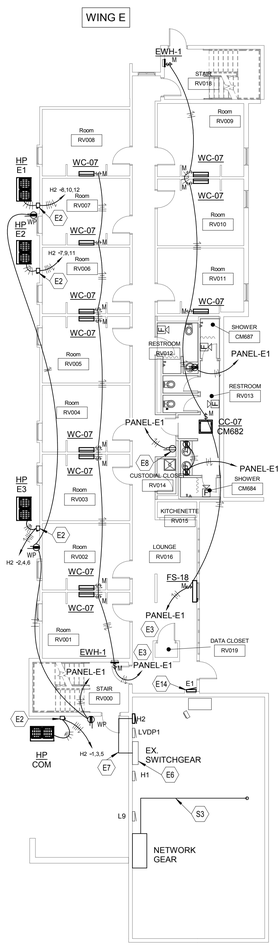
E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

TAGGED NOTES

E2	PROVIDE HEAVY DUTY 3-POLE, NEMA 3R 35A DISCONNECT SWITCH. PROVIDE A 35A/3P BREAKER IN PANEL H2. PROVIDE 3#8, 1#10 GND., IN 1" CONDUIT.
E3	PROVIDE 3#12, 1#12 GROUND IN 3/4" CONDUIT BETWEEN UNITS AND TO PANEL. PROVIDE A 20A/2P BREAKER IN PANEL.
E6	PROVIDE 400A/3P BREAKER TO SERVE NEW PANEL H2. EXISTING SWITCHGEAR IS GE 1200A THKSS4612SGA3, SERIAL NUMBER V40476. SEE DETAIL 2, THIS SHEET.
E7	PROVIDE 2 RUNS 3#3/0, 1#6 GROUND IN 2" CONDUIT FROM EXISTING SWITCHGEAR TO NEW PANEL H2.
E8	PROVIDE GFI BREAKER TO SERVE WATER COOLERS.
E14	EXISTING GENERAL ELECTRIC NLAB PANELBOARD TO REMAIN. PANEL IS 100A, 120V/208, 3 PHASE, 4 WIRE. REPLACE ALL EXISTING BREAKERS, RECONNECT ALL EXISTING CIRCUITS, EXTEND ALL EXISTING WIRING AS NECESSARY TO LAND ON NEW BREAKERS. CONNECT ALL NEW CIRCUITS TO NEW BREAKERS IN EXISTING PANEL.
S1	NEW EST3 PANEL SHALL BE CONNECTED TO THE CAMPUS LOOP SYSTEM BACK TO THE FIRE ALARM MONITORING STATION IN THE CENTRAL PLANT. PROVIDE FIBER OPTIC CABLE TO CONNECT THE EST3 FIRE ALARM PANEL TO THE CAMPUS LOOP. THE TIE IN POINT FOR THE CAMPUS LOOP IS LOCATED IN THE LOWER LEVEL MECHANICAL ROOM.
S2	PROVIDE NEW EST3 FIRE ALARM PANEL IN DIRECT REPLACEMENT OF EXISTING PANEL. RE-CONNECT ALL FIRE ALARM CIRCUITS TO COMPLETE A FUNCTIONAL SYSTEM.
S3	PROVIDE 1" CONDUIT WITH SINGLE MODE FIBER FROM NEW FIRE ALARM CONTROL PANEL ON FLOOR ABOVE TO NETWORK GEAR ALONG PATH AS SHOWN. DRILL 1 1/2" HOLE THROUGH CORE OF FLOOR PLANK SYSTEM TO PASS CONDUIT THROUGH. SEAL/PATCH FLOOR AROUND CONDUIT. RUN CONDUIT/FIBER ACROSS CEILING OF MECHANICAL ROOM UP TO ABOVE. CONNECT TO FIBER IN GEAR.







2 E401 LOWER LEVEL PLAN - POWER/SYSTEMS
3/32" = 1'-0"

1 E401 FIRST FLOOR PLAN - POWER/SYSTEMS
3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

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ISSUANCES		
1	10/19/18	PERMIT/BID

FIRST FLOOR PLAN - POWER/SYSTEMS

DATE 10/19/18
COMM NO. 2017066.01

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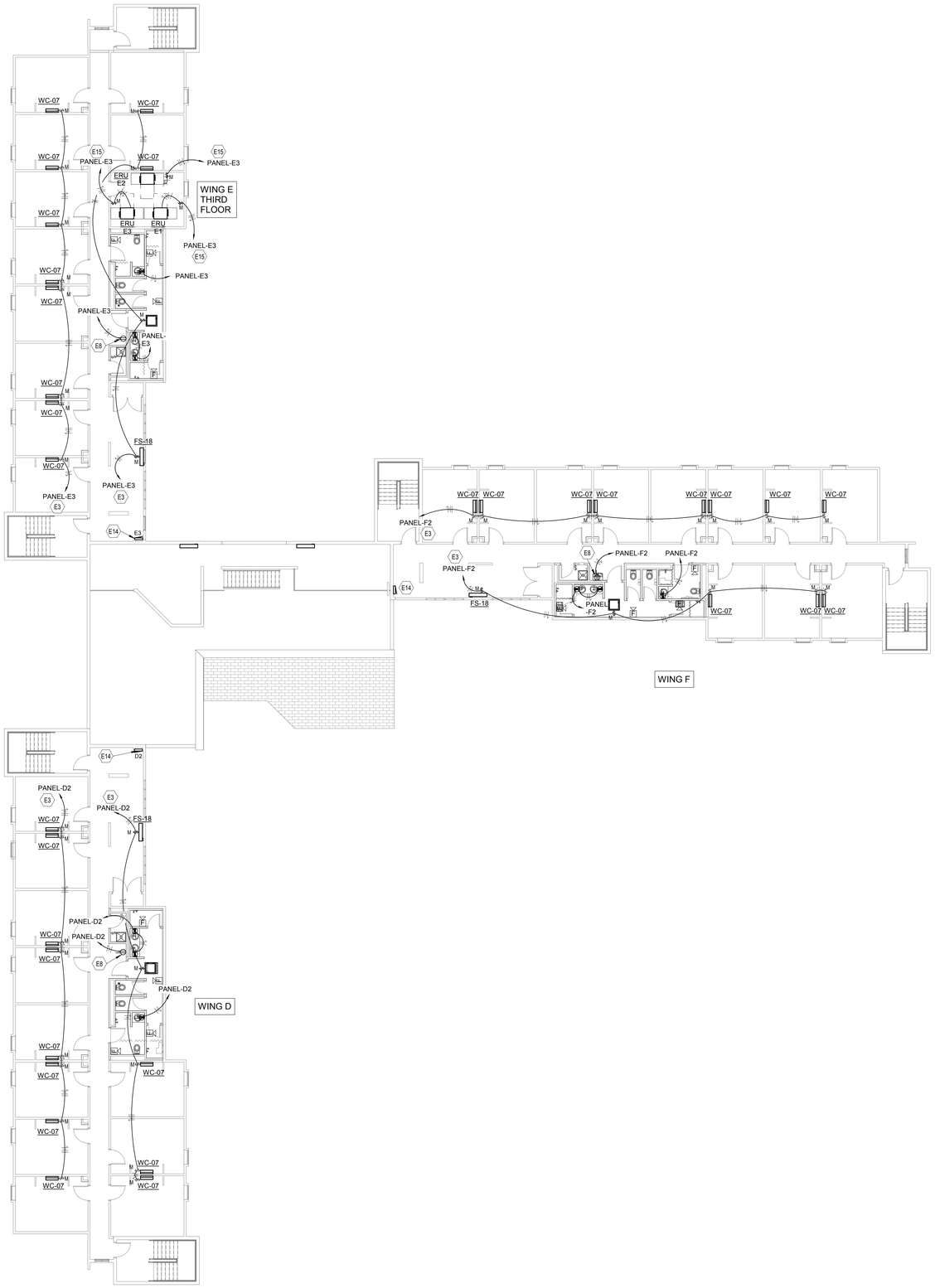

1 SECOND FLOOR PLAN - POWER/SYSTEMS
E402 3/32" = 1'-0"

GENERAL NOTES (POWER):

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 NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 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. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

TAGGED NOTES	(X)
E3	PROVIDE 3#12, 1#12 GROUND IN 3/4" CONDUIT BETWEEN UNITS AND TO PANEL. PROVIDE A 20A/2P BREAKER IN PANEL.
E8	PROVIDE GFI BREAKER TO SERVE WATER COOLERS.
E14	EXISTING GENERAL ELECTRIC NLAB PANELBOARD TO REMAIN. PANEL IS 100A, 120V/208, 3 PHASE, 4 WIRE. REPLACE ALL EXISTING BREAKERS, RECONNECT ALL EXISTING CIRCUITS, EXTEND ALL EXISTING WIRING AS NECESSARY TO LAND ON NEW BREAKERS. CONNECT ALL NEW CIRCUITS TO NEW BREAKERS IN EXISTING PANEL.
E15	PROVIDE 3#12, 1#12 GROUND IN 3/4" CONDUIT TO PANEL. PROVIDE A 20A/2P BREAKER IN PANEL.

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

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ISSUANCES

1	10/19/18	PERMIT/BID

SECOND FLOOR PLAN - POWER/SYSTEMS

DATE 10/19/18
COMM NO. 2017066.01

E402

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GENERAL NOTES (POWER):

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TAGGED NOTES (X)

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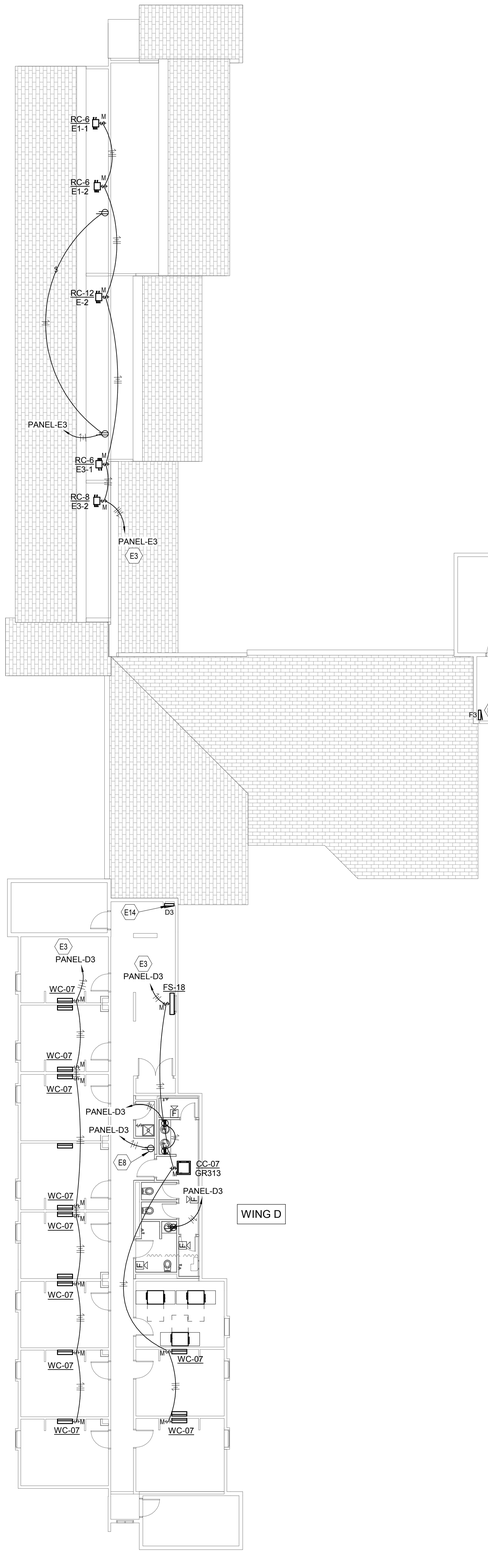

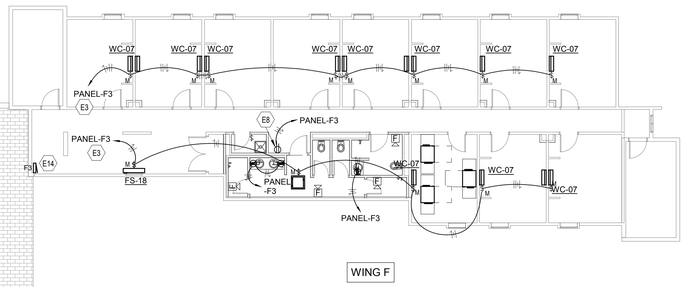

1 E403 THIRD FLOOR PLAN - POWER/SYSTEMS
3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
1 "0'-1" REFERENCE LINE

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ISSUANCES

1	10/19/18	PERMIT/BID

THIRD FLOOR PLAN - POWER/SYSTEMS

DATE 10/19/18

COMM NO. 2017066.01

E403

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GENERAL NOTES (POWER):

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 NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

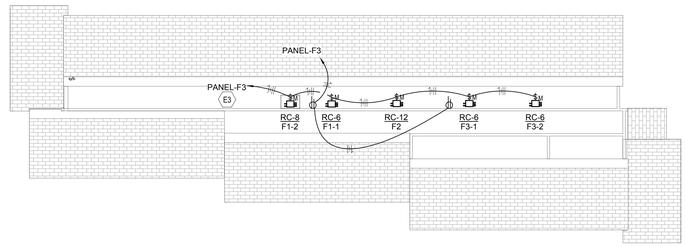
C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

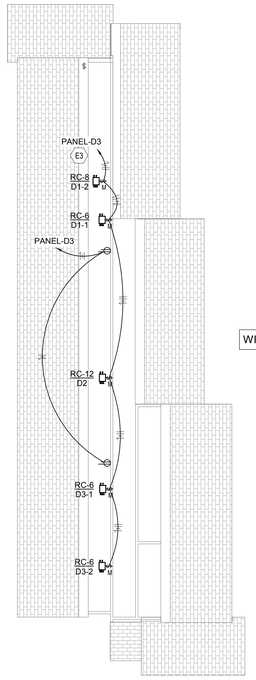
E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

TAGGED NOTES (X)

E3	PROVIDE 3#12, 1#12 GROUND IN 3/4" CONDUIT BETWEEN UNITS AND TO PANEL. PROVIDE A 20A/2P BREAKER IN PANEL.



WING F



WING D

1 / E404 ATTIC PLAN - POWER/SYSTEMS
3/32" = 1'-0"

SCALE: 3/32" = 1'-0"
0 1 2 4 8 16 24 32 40'
0'-1" REFERENCE LINE

STATE OF KENTUCKY
BRADLEY-WYNN REEVES
20384
LICENSED
PROFESSIONAL ENGINEER

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COMMONWEALTH HALL RENOVATIONS
Nunn Drive | Highland Heights, Kentucky 41099

NORTHERN KENTUCKY UNIVERSITY
Nunn Drive | Highland Heights, Kentucky 41099

ISSUANCES

1	10/19/18	PERMIT/BID

ATTIC PLAN - POWER/SYSTEMS

DATE 10/19/18

COMM NO. 2017066.01

E404

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