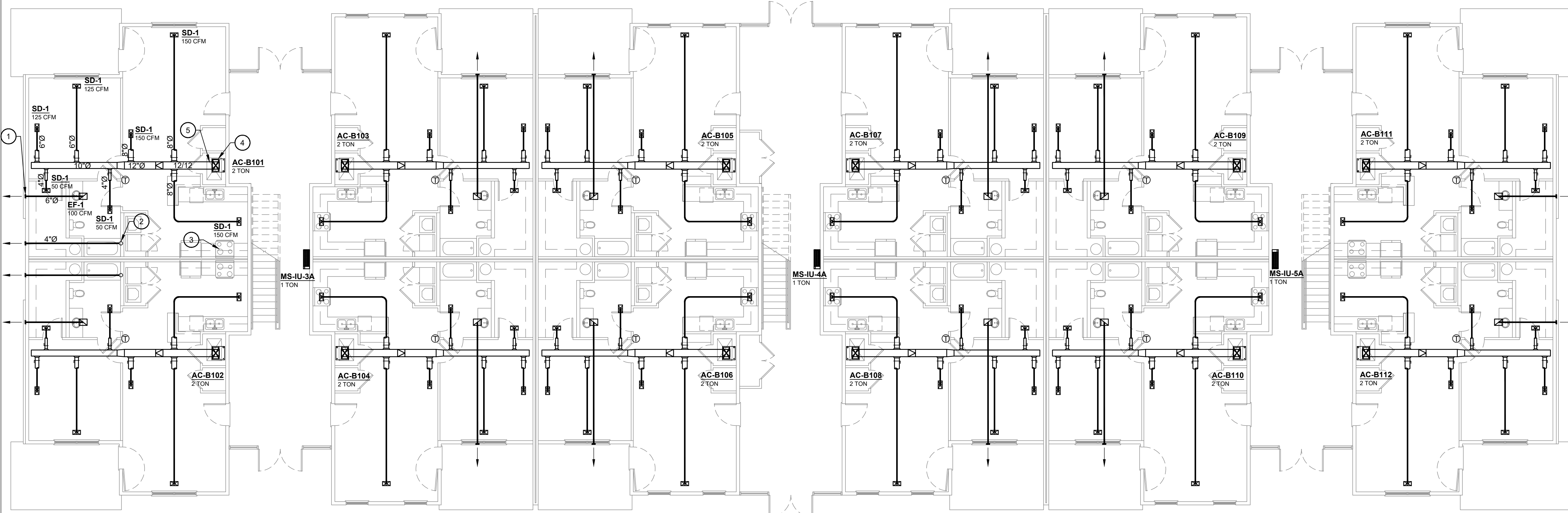


**2 MECHANICAL ROOF PLAN - BUILDING 'B'**  
SCALE: 1/8"=1'-0"



**1 MECHANICAL FLOOR PLAN - BUILDING 'B'**  
SCALE: 1/8"=1'-0"

**GENERAL NOTES:**

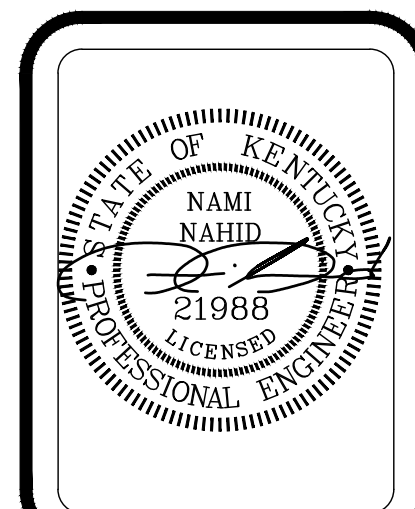
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3. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTES OTHERWISE.
4. THERE SHALL BE NOTHING ABANDONED IN PLACE, UNLESS SPECIFICALLY IDENTIFIED AS SUCH.
5. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING ADDENDA, AND APPLICABLE CODES AND STANDARDS.
6. ALL TRADES SHALL COORDINATE THE ROUTING AND INSTALLATION OF HIS WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR.
7. PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COST, AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE, INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.

**# MECH. NOTES:**

1. ROUTE 6"Ø EXHAUST DUCT THROUGH EXTERIOR WALL AND TERMINATE W/ HOODED WALL CAP. PROVIDE W/ BIRD SCREEN & BACKDRAFT DAMPER. COORDINATE FINISH W/ ARCHITECT. FIELD COORDINATE EXACT LOCATION. MAINTAIN 10'-0" MIN. AWAY FROM O.A. INTAKES. MAINTAIN 3'-0" MIN. AWAY FROM BUILDING OPENINGS.
  2. ROUTE RIGID DRYER DUCT DOWN WALL TO DRYER BOX @ 12" A.F.F. PROVIDE FLEXIBLE DUCT CONNECTOR FROM ELBOW TO DRYER OUTLET. WRAP ALL DRYER DUCT WITH 1" HR RATED "FIREMASTER" FROM THE POINT OF PENETRATION OF THE RATED ASSEMBLY TO THE EXIT FROM BUILDING (TYPICAL). ROUTE 4"Ø DRYER EXHAUST DUCT W/ BACKDRAFT THROUGH EXTERIOR WALL AND TERMINATE W/ HOODED WALL CAP (NO SCREEN). COORDINATE FINISH W/ ARCHITECT. FIELD COORDINATE EXACT TERMINATION POINT. MAINTAIN 3'-0" MIN. AWAY FROM BUILDING OPENINGS.
  3. RECIRCULATION TYPE RANGE HOOD. A SEPARATE SWITCH FOR THE RANGE HOOD IS TO BE INSTALLED IN AN ACCESSIBLE LOCATION FOR ALL ANSI ACCESSIBLE UNIT TYPES. RANGE HOOD & ALL ACCESSORIES ARE TO BE PROVIDED & INSTALLED BY OTHERS. (TYP.)
  4. ROUTE CONDENSATE TO HUB DRAIN. SEE PLUMBING PLANS FOR LOCATIONS AND DETAILS. COORDINATE WITH PLUMBING FOR CONDENSATE PUMP REQUIREMENT.
  5. PROVIDE 1" FILTER BANK AT INDOOR UNIT LOCATION ON RETURN AIR SIDE OF EQUIPMENT. PROVIDE AND INSTALL RG-1 AT RETURN AIR SIDE OF EQUIPMENT IN MECHANICAL CLOSET. CONTRACTOR SHALL COORDINATE WITH GC FOR LOUVERED DOOR. TYPICAL.
  6. ROUTE REF. PIPING IN WALL UP AND PENETRATE INTO SPACE, ABOVE CEILING OF ASSOCIATED FLOOR AND ROUTE TO ASSOCIATED INDOOR UNIT. INSULATE REF. PIPE LINE WITH 1" BLACK FOAM AND UV PROTECTED PVC JACKET. SEAL ANY OPENINGS. WATER TIGHT. PROVIDE REF. PIPE SUPPORT, AS REQUIRED BY MANUFACTURER. TYP.
  7. INSTALL CONDENSING UNITS ON 4" CONCRETE EQUIPMENT PAD. PROVIDE CLEARANCE AROUND CONDENSING UNITS PER MANUFACTURER'S RECOMMENDATIONS. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION. COORDINATE WITH ELECTRICAL FOR METER BANK LOCATION AND CLEARANCE. TYP.
  8. INSTALL WALL MOUNTED PROGRAMMABLE TSTAT IN SPACE TIED TO ASSOCIATED SPLIT SYSTEM. TYP.
  9. PROVIDE FIRE CAULKING AND/OR FIRE DAMPER FOR ALL PENETRATIONS THRU RATED WALLS/ CEILINGS AS REQUIRED. COORDINATE WITH ARCHITECT FOR FIRE RATED LOCATIONS.
- \* SECOND AND THIRD FLOOR IS SIMILAR FLOOR PLAN TO FIRST FLOOR. MECHANICAL EQUIPMENT LOCATIONS AND DUCT LOCATION TO BE SIMILAR. COORDINATE WITH ARCHITECT AS REQUIRED.

MIDDLEBRIDGE APARTMENTS  
MIDDLEBRIDGE ROAD  
BOWLING GREEN, KENTUCKY

**WILLIAMS**  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax



REVISIONS:

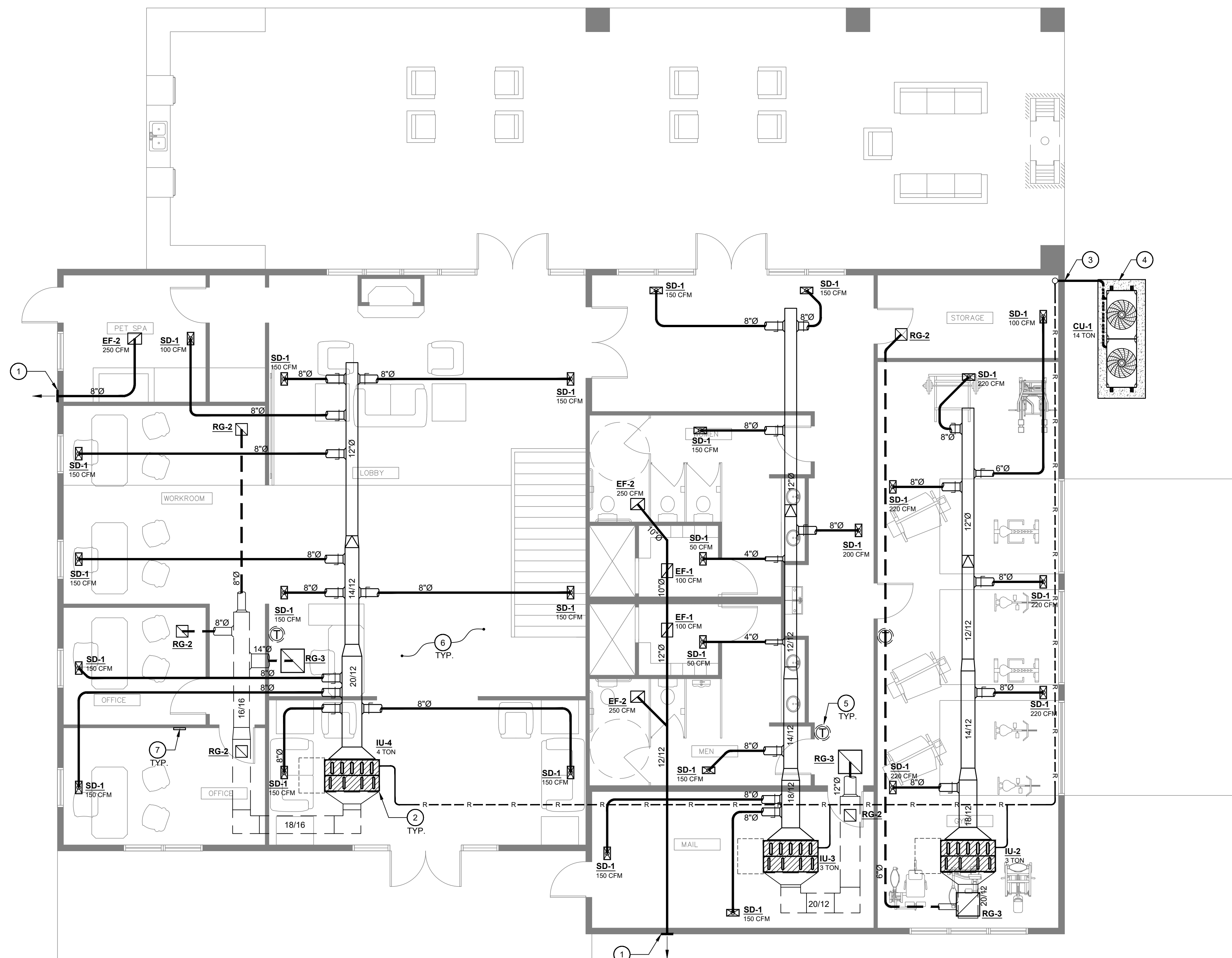

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CHECKED BY: NN

SHEET TITLE:  
MECHANICAL FLOOR PLAN BLDG 'B'

SHEET NO:  
M2.0

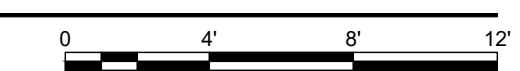
MECHANICAL • ELECTRICAL • PLUMBING



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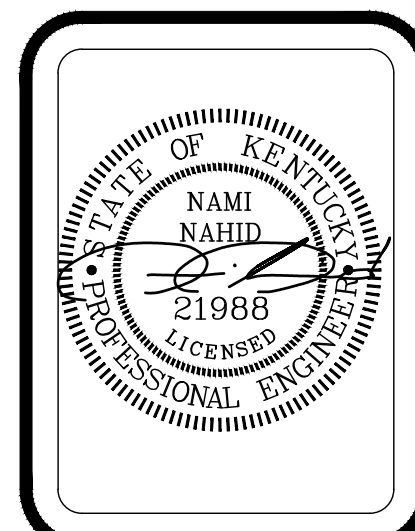
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  4. INSTALL CONDENSING UNIT ON CONCRETE EQUIPMENT PAD. PROVIDE CLEARANCE AROUND CONDENSING UNIT PER MANUFACTURER'S RECOMMENDATIONS. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION. TYP.
  5. INSTALL WALL MOUNTED PROGRAMMABLE TSTAT IN SPACE TIED TO ASSOCIATED INDOOR UNIT AND CENTRAL I-TOUCH MANAGER. TYP.
  6. PROVIDE FIRE CAULKING AND/OR FIRE DAMPER FOR ALL PENETRATIONS THRU RATED WALLS/ CEILINGS AS REQUIRED. COORDINATE WITH ARCHITECT FOR FIRE RATED LOCATIONS.
  7. INSTALL I-TOUCH MANAGER ON WALL IN OFFICE. COORDINATE WITH OWNER FOR FINAL LOCATION.

**1 MECHANICAL FLOOR PLAN - CLUBHOUSE**  
SCALE: 3/16"=1'-0"



MIDDLEBRIDGE APARTMENTS  
MIDDLEBRIDGE ROAD  
BOWLING GREEN, KENTUCKY

**WILLIAMS ASSOCIATE ARCHITECTS**  
John Williams, Architect  
1136 South Park Drive, Suite 102  
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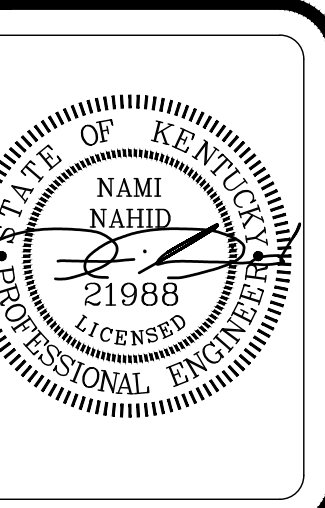
SHEET TITLE:  
MECHANICAL FLOOR PLAN CLUBHOUSE

SHEET NO:  
M3.0

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MIDDLEBRIDGE ROAD  
BOWLING GREEN, KENTUCKY

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WILLIAMS  
associates  
architects



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MECHANICAL  
FLOOR PLAN  
CLUBHOUSE

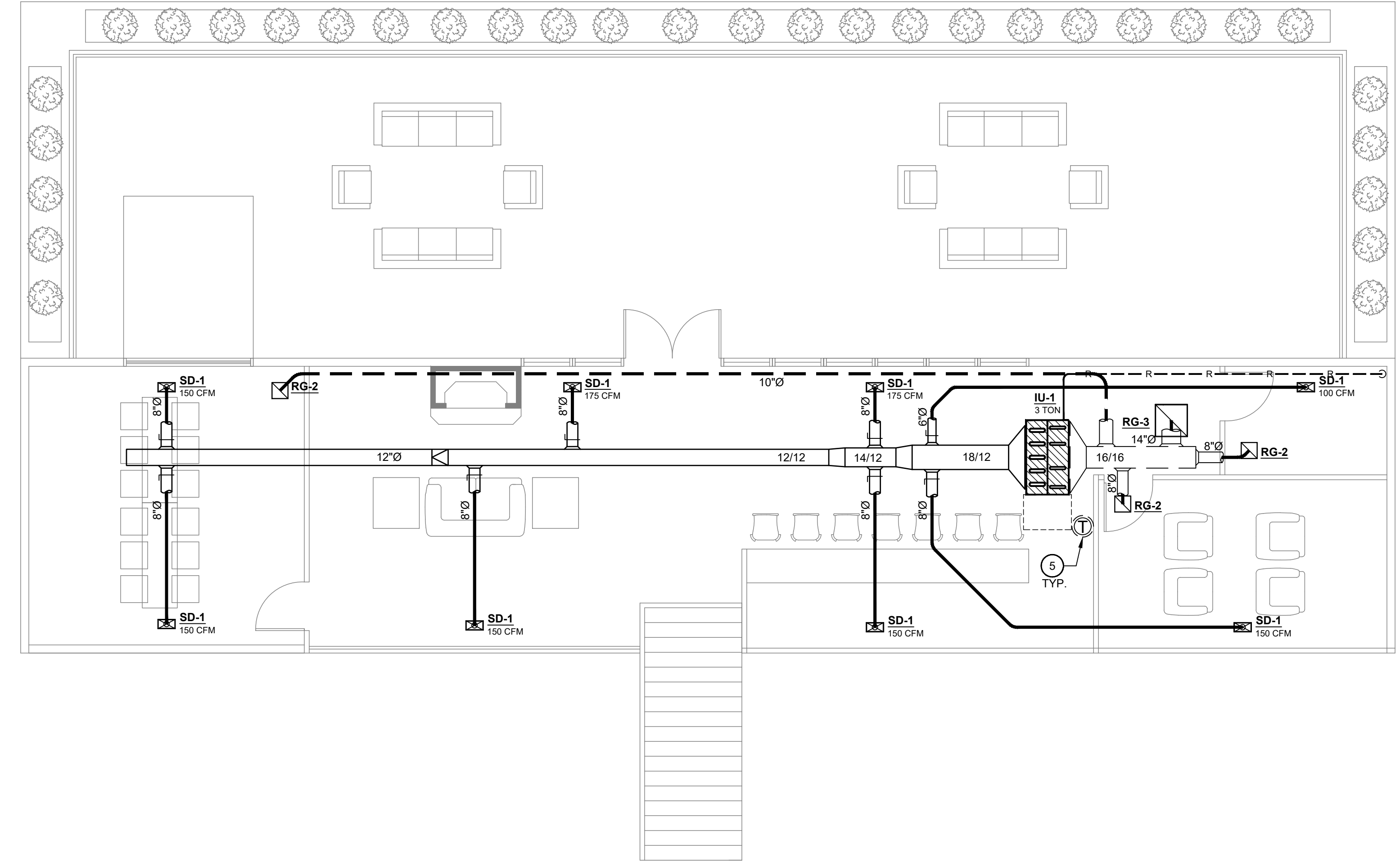
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7. INSTALL I-TOUCH MANAGER ON WALL IN OFFICE. COORDINATE WITH OWNER FOR FINAL LOCATION.



1 MECHANICAL FLOOR PLAN - SECOND FLOOR  
SCALE: 3/16"=1'-0"



## VRF CONDENSING UNIT SCHEDULE

Name	Model	CR	Cooling				Heating			Piping
			Temp C °F	CC BTU/h	Rq CC BTU/h	Temp H °F (DBT/RH)	HC BTU/h	Rq HC BTU/h	ft	
CU-1	RXYQ168XATJA	92.9	95.0	167,563	109,327	5.0/86%	105,410	126,328	24.6	

Name	Model	PS	MCA A	MOP A	RLA A	FLA A	WxHxD inch	Weight lbs
CU-1	RXYQ168XATJA	208V - 230V 3ph	55.1	60.0	37.6		48.9 x 66.7 x 30.2	694.5

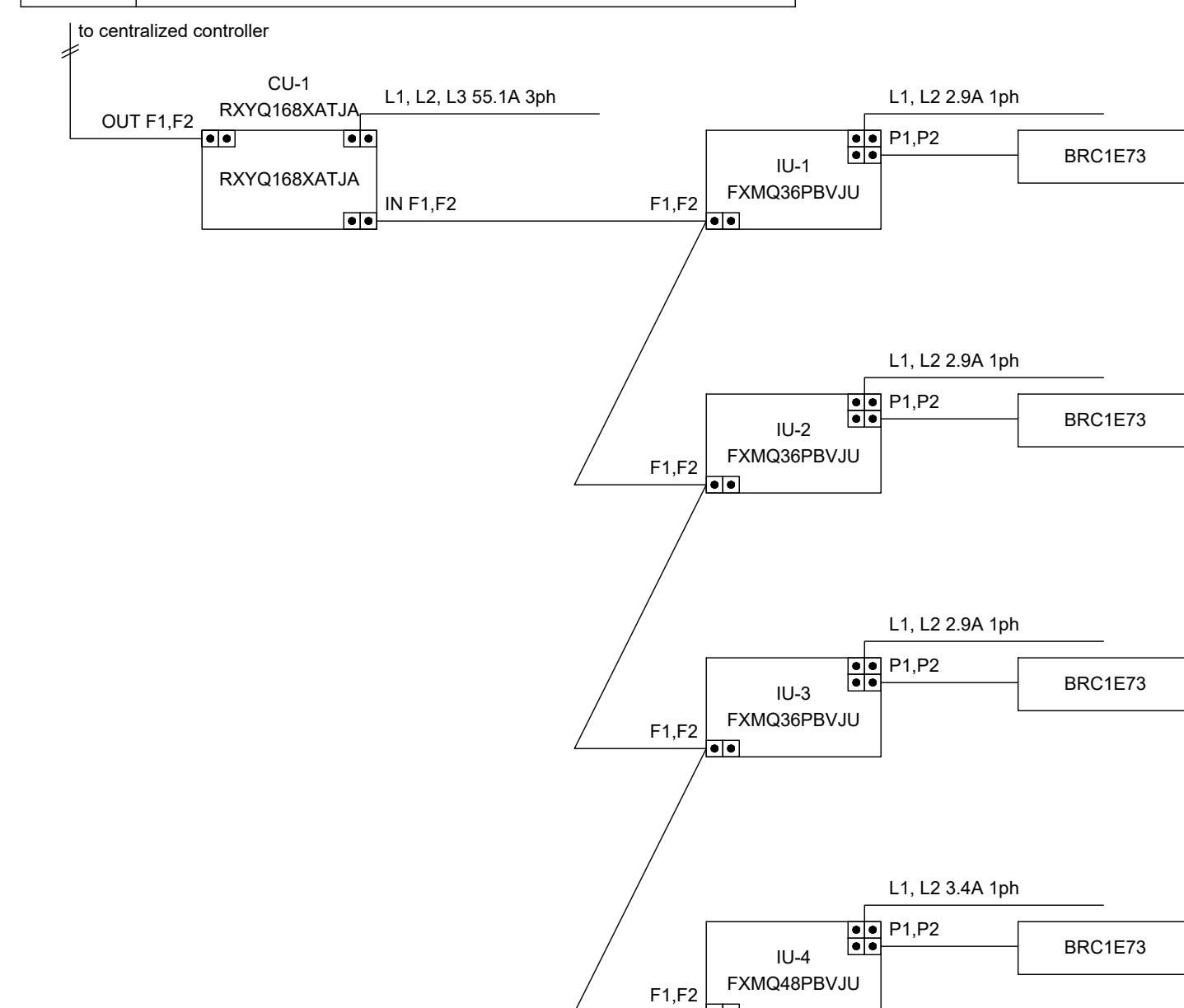
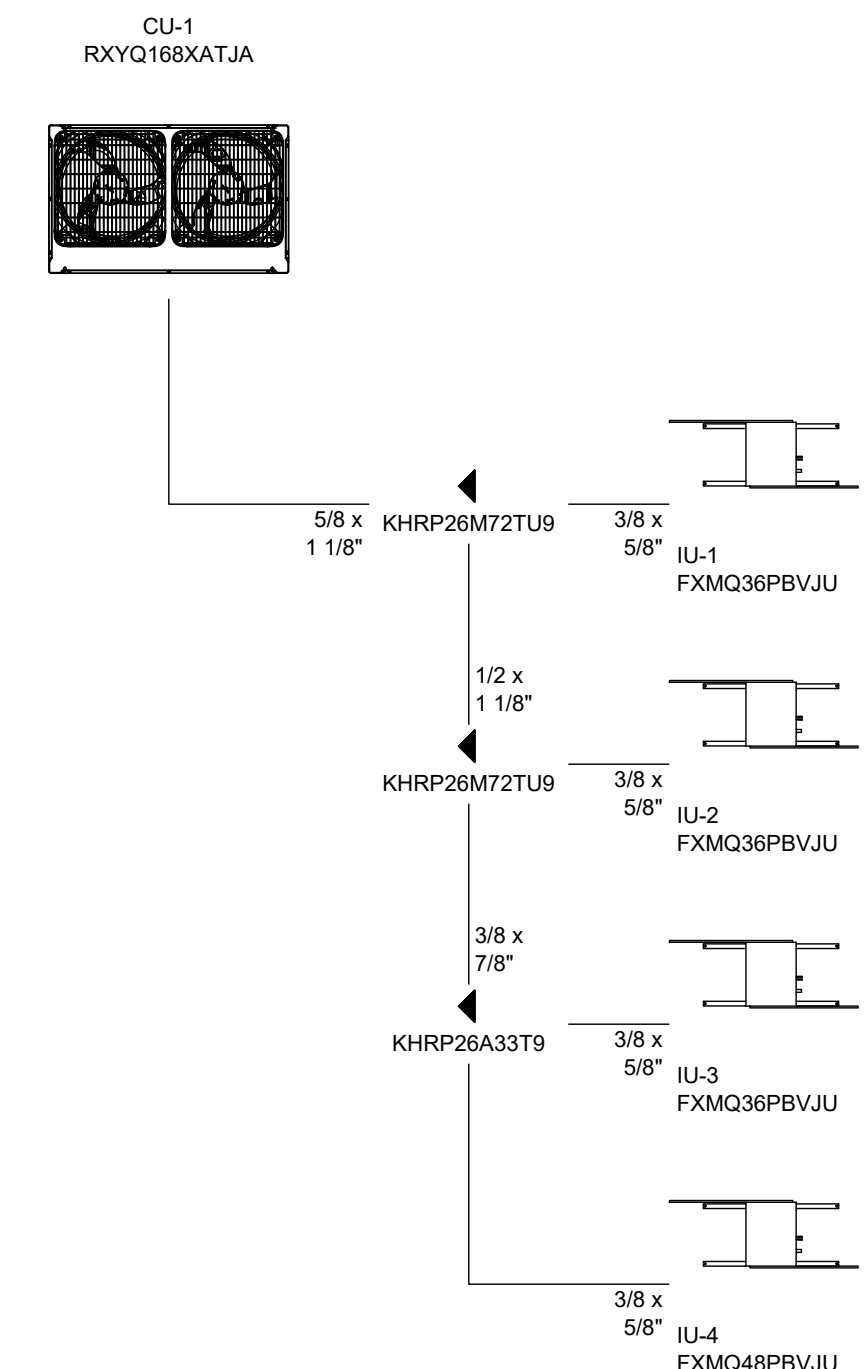
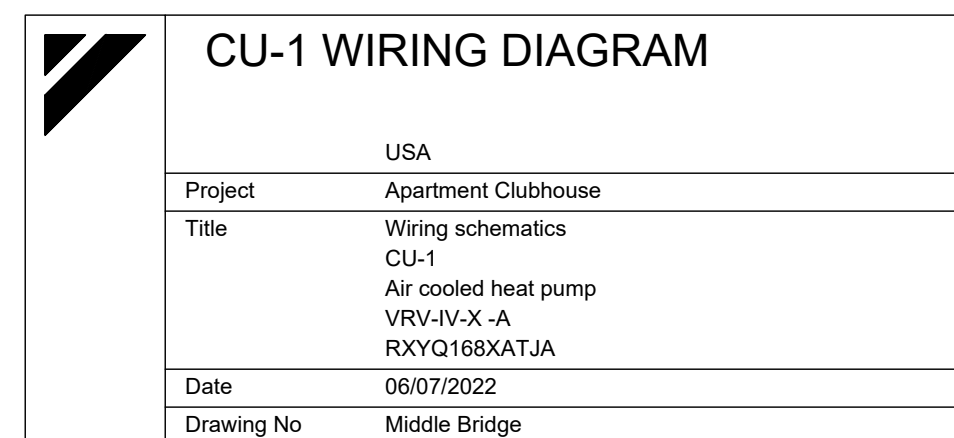
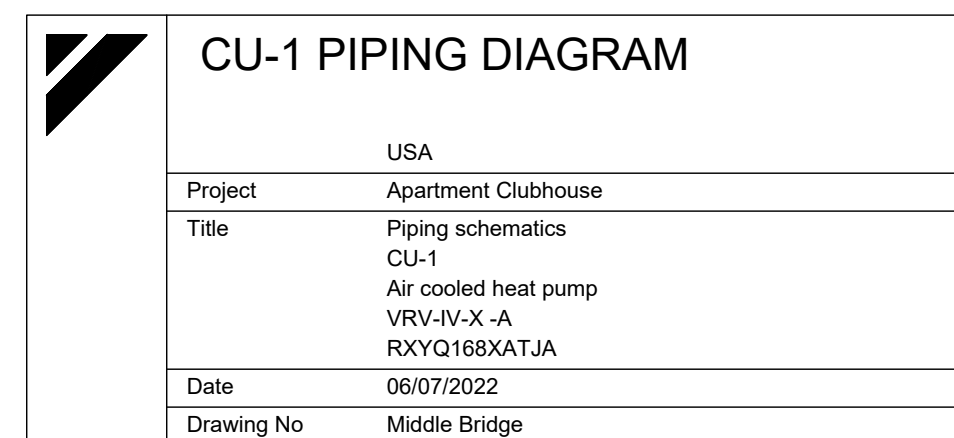
Name	Efficiency Metrics																	
	Combination			Ducted						Non-Ducted								
	EER	SEER	HSPF	EER	IEER	COP47	COP17	SCHE	SEER	HSPF	EER	IEER	COP47	COP17	SCHE	SEER	HSPF	
CU-1				10.6	19.8	3.2	2.27					10.6	22.6	3.4	2.34			

## VRF INDOOR UNIT SCHEDULE

Name	FCU	Cooling							
		Temp C °F (DBT/RH)	Rq TC BTU/h	Rv TC BTU/h	Max TC BTU/h	Rq SC BTU/h	Tevap °F	Tdis C °F	Max SC BTU/h
IU-1	FXMQ36PBVJU	78.8/55%	n/a	0	36,039	n/a	42.8	57.5	26,579
IU-2	FXMQ36PBVJU	78.8/55%	n/a	0	36,039	n/a	42.8	57.5	26,579
IU-3	FXMQ36PBVJU	78.8/55%	n/a	0	36,039	n/a	42.8	57.5	26,579
IU-4	FXMQ48PBVJU	78.8/55%	n/a	0	48,065	n/a	42.8	56.9	33,209

Name	FCU	Heating						
		Temp H °F	Rq HC BTU/h	Max HC BTU/h	Tdis H °F	Min coil in³	Max coil in³	Air Flow Rate cfm
IU-1	FXMQ36PBVJU	68.0	n/a	41,492	101.3	n/a	n/a	1,130
IU-2	FXMQ36PBVJU	68.0	n/a	41,492	101.3	n/a	n/a	1,130
IU-3	FXMQ36PBVJU	68.0	n/a	41,492	101.3	n/a	n/a	1,130
IU-4	FXMQ48PBVJU	68.0	n/a	55,993	104.9	n/a	n/a	1,377

Name	Room	Sound dBA	PS	MCA A	MOP	WxHxD inch	Weight lbs
IU-1		39 - 43	208-230V 1ph	2.9	15A	55.1 x 11.8 x 27.6	101.4
IU-2		39 - 43	208-230V 1ph	2.9	15A	55.1 x 11.8 x 27.6	101.4
IU-3		39 - 43	208-230V 1ph	2.9	15A	55.1 x 11.8 x 27.6	101.4
IU-4		40 - 44	208-230V 1ph	3.4	15A	55.1 x 11.8 x 27.6	101.4



## DIFFUSER, GRILLE, & REGISTER SCHEDULE

UNIT TAG	FRAME SIZE	NECK SIZE	TYPE	LOCATION & MOUNTING	MATERIAL	FINISH	MODEL NO.	NOTES
SD-1	12X6	SEE PLAN	LOUVERED	CEILING	ALUM.	OFF-WHITE	640	1,3
RG-1	20X20	SEE PLAN	LOUVERED	SIDEWALL	ALUM.	OFF-WHITE	630	1,2,4

- NOTES:
- BASED ON PRICE
  - PROVIDE AND INSTALL 1" RETURN FILTER GRILLE.
  - PROVIDE WITH OPTIONAL STEEL-OPOSED BLADE DAMPER
  - MOUNT RG-1 TO RETURN AIR SIDE OF EQUIPMENT WITH FILTER GRILLE

## PIPING, DUCTWORK, AND INSULATION SCHEDULE

**REFRIGERANT PIPING**  
**WEATHER EXPOSED REFRIGERANT PIPING:**  
 RIDGID COPPER TYPE L, INSULATED WITH 1" BLACK FOAM AND ADDITIONAL UV PROTECTED PVC JACKET OVER INSTALLATION. PENETRATE REFRIGERANT PIPING THRU SIDE-WALL WITH A SLEEVED OPENING AND SEALED WATER TIGHT AFTER INSTALLATION.

**REFRIGERANT PIPING WITHIN BUILDING:**  
 RIDGID COPPER TYPE L, INSULATE PIPING WITH 1" BLACK FOAM. SUPPORT PIPING FROM STRUCTURE WITH UNISTRUTS. FLEXIBLE INSULATED COPPER SHALL ONLY BE USED FOR SINGLE UNIT CONNECTION WITH MAXIMUM LENGTH OF 6'-0".

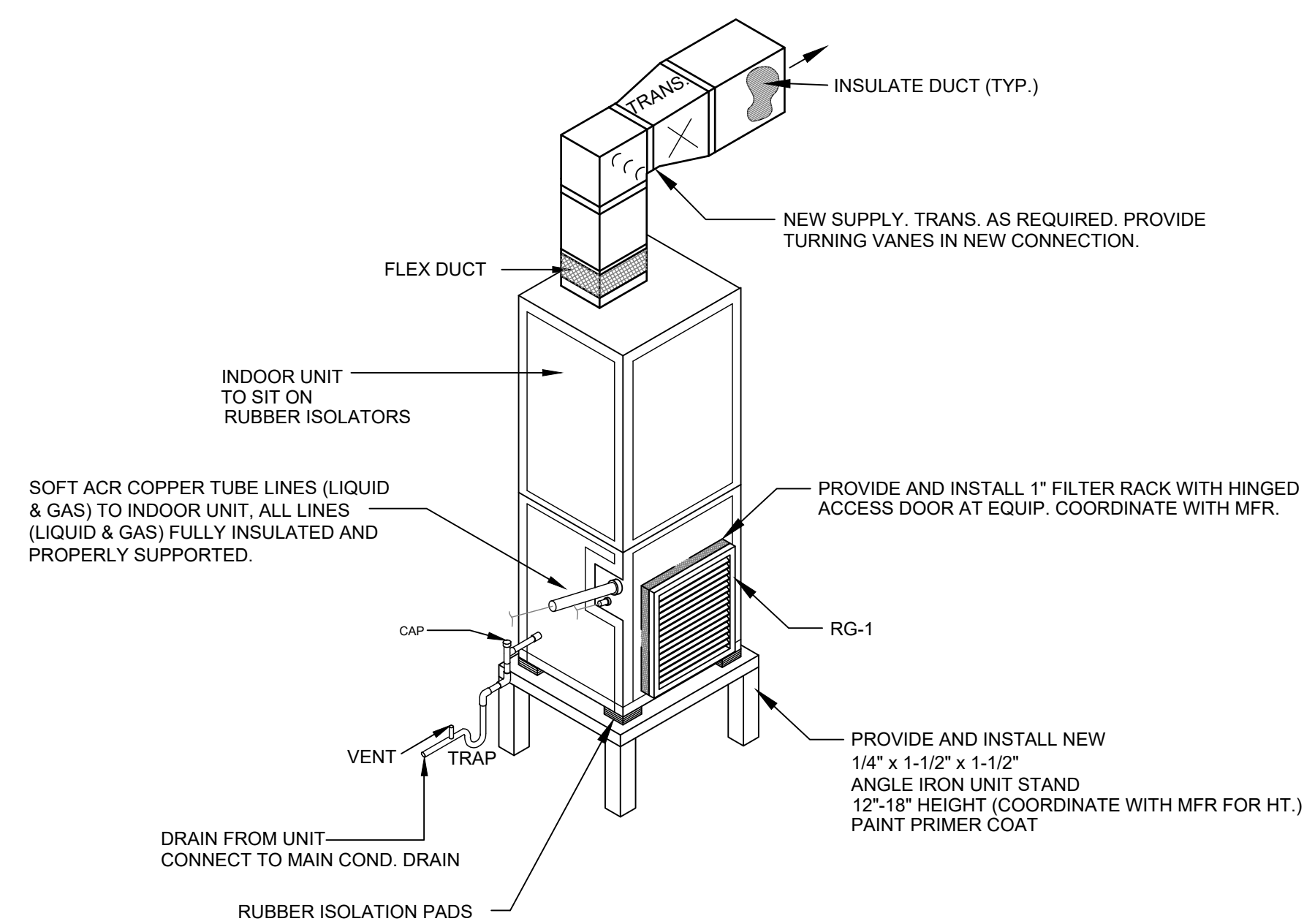
**DUCTWORK AND AIR DEVICES INSULATION:**  
 DUCTWORK AS PER LATEST SMACNA GUIDELINES FOR LOW PRESSURE SYSTEM. INSULATED ALL (SUPPLY, RETURN, EXHAUST, OUTSIDE AIR) WITH DOUBLE BUBBLE WRAP TYPE (R-8) ALL DIFFUSERS AND GRILLES SHALL HAVE ABOVE DIFFUSER MOLDED INSULATION ON FACE PLATES.

**DRAIN PIPING**  
 ALL INDOOR UNITS SHALL HAVE PVC CONDENSATE DRAIN PIPING ROUTED TO HUB DRAIN. PIPING MAY BE COMBINED FOR MULTIPLE INDOOR UNITS. SLOPE PIPING FOR GRAVITY DRAIN. INSULATE CONDENSATE LINE WITH 3/4" ARMAFLEX INSULATION THROUGHOUT. TO DRAIN POINT LOCATION

## EXHAUST FAN SCHEDULE

UNIT TAG	EF-1	EF-2
MANUFACTURER	GREENHECK	GREENHECK
MODEL	SP-A110	SP-A250
CFM	98 @ 0.25" STATIC	250 @ 0.25" STATIC
ELECTRICAL	115/60/1	115/60/1
AMPS	0.16	0.56
WATTS	19.4	67
SIZE HP	---	---
FAN RPM	950	1000
NOTES:	1,2,3,4	1,2,3,4

- NOTES:
- TIE EXHAUST FAN TO TOILET LIGHT SWITCH.
  - PROVIDE BACKDRAFT DAMPER ON FANS.
  - PROVIDE WITH OPTIONAL LIGHT PACK.
  - COORDINATE WITH LIGHTING AND CEILING GRID CONTRACTOR.



## VERTICAL INDOOR UNIT DETAIL

NO SCALE

## SPLIT SYSTEM SCHEDULE

UNIT TAG	CU/AC#	CU/AC#
MANUFACTURER	LENNOX	LENNOX
SERIES	MERIT	MERIT
TYPE	VERTICAL HEAT PUMP	VERTICAL HEAT PUMP
SYSTEM TONNAGE	2	2.5

AIR HANDLING UNIT	CBX25UH-024	CBX25UH-030
MOTOR	CAV Direct Drive	CAV Direct Drive
AIR FLOW CFM	800	1,000
E.S.P. IN WG.	0.5	0.5
SPEED	MED - HIGH	MED - HIGH
FAN H.P.	1/3	1/3
POWER	240V / 1PH	240V / 1PH

HEATING	12R60	12R60
TYPE	AUX. ELECTRIC	AUX. ELECTRIC
VOLT	240 V	240 V
POWER	5KW	5KW
MCA (A)	28	28
MOP (A)	30	30

CONDENSING UNIT	14HPX-024	14HPX-030
SERIES	MERIT	MERIT
COOLING STAGES	1	1
SEER	14	14
POWER	240V / 1PH	240V / 1PH
COMPRESSOR	1 STAGE	1 STAGE
MCA (AMP)	17.9	17.1
FUSE SIZE (AMP)	30	25

ACCESSORIES		
THERMOSTAT	13H14 COMFORTSENSE 7500	13H14 COMFORTSENSE 7500

- NOTES:
- PROGRAMMABLE THERMOSTAT WITH WALL PLATE.
  - SYSTEM SHALL BE UL LISTED
  - 2" FILTER HOUSING WITH ACCESS DOOR
  - SINGLE POINT POWER KIT FOR AIR HANDLER AND AUX. HEAT.
  - OTHER ACCEPTABLE MANUFACTURERS: RHEEM, GOODMAN, YORK

## MINI-SPLIT SYSTEM SCHEDULE

UNIT TAG	MS-CU# / MS-CU#
MANUFACTURER	DAIKIN
TYPE	4 PORT MINI-SPLIT HP
SYSTEM TONNAGE	3

CONDENSING UNIT	4MXS36RMVJUA
COOLING CAP (BTU/H)	36000
HEATING CAP (BTU/H)	36000
ELECTRICAL	208 / 60 / 1
MCA (A)	23.9
MOP (A)	25
SEER	17.7
EER	9.2

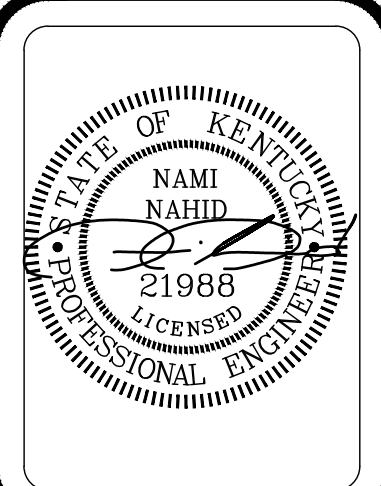
WALL MOUNTED UNIT	FTXS12LVJU
AIRFLOW (CFM)	155-403
NOM. CAP (BTU/H)	12000
WEIGHT	22

WALL MOUNTED UNIT	FTXS12LVJU
AIRFLOW (CFM)	155-403
NOM. CAP (BTU/H)	12000
WEIGHT	22

- NOTES:
- PROGRAMMABLE THERMOSTAT WITH WALL PLATE.
  - SYSTEM SHALL BE UL LISTED
  - CORRINATE WITH ELECTRICAL CONTRACTOR.
  - OTHER ACCEPTABLE MANUFACTURERS: SAMSUNG OR LG

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 MECHANICAL SCHEDULES AND DETAILS

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## ELECTRICAL LEGEND - POWER

SYMBOL	DESCRIPTION
	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 18 INCHES ABOVE FINISHED FLOOR TO TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 48 INCHES ABOVE FINISHED FLOOR TO CENTER, OR 8 INCHES ABOVE COUNTER OR COUNTER BACKSPLASH TO CENTER, UNLESS NOTED OTHERWISE.
	CEILING MOUNTED OUTLET WITH 20A, 125V DUPLEX RECEPTACLE.
	WALL OUTLET WITH 20A, 125V DOUBLE-DUPLEX RECEPTACLE. MOUNT 18 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH 20A, 125V DOUBLE-DUPLEX RECEPTACLE. MOUNT 48 INCHES ABOVE FINISHED FLOOR TO TO CENTER, OR 8 INCHES ABOVE COUNTER OR COUNTER BACKSPLASH TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH SIMPLEX RECEPTACLE AS NOTED ON POWER PLANS.
	WALL OUTLET WITH 2 POLE, 250V RECEPTACLE. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT BEING SERVED. NEMA TYPE AND CONFIGURATION TO MATCH EQUIPMENT BEING SERVED.
	FLOOR OUTLET WITH 125V, 20A, DUPLEX RECEPTACLE AND DATA OUTLET. PROVIDE WITH LOW VOLTAGE BARRIER.
	FLOOR OUTLET WITH 125V, 20A, DOUBLE-DUPLEX RECEPTACLE AND DATA OUTLET. PROVIDE WITH LOW VOLTAGE BARRIER.
GFCI	SYMBOL INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE WHEN SHOWN ADJACENT TO RECEPTACLE SYMBOL ON PLANS.
WP	SYMBOL INDICATES WEATHER RATED RECEPTACLE AND WEATHER-PROOF WHILE-IN-USE TYPE ENCLOSURE WHEN SHOWN ADJACENT TO RECEPTACLE SYMBOL ON PLANS.
USB	SYMBOL INDICATES USB WALL OUTLET CHARGER WITH 20A, 125V DUPLEX RECEPTACLE WHEN SHOWN ADJACENT TO RECEPTACLE SYMBOL ON PLANS. PROVIDE GFCI AND WEATHER PROTECTION AS NECESSARY.
1,3,5...	NUMBER TEXT INDICATES CIRCUIT NUMBERS WHEN SHOWN ADJACENT TO SYMBOLS ON PLAN.
a,b,c...	LOWER-CASE LETTER TEXT INDICATES CIRCUIT SWITCHING ARRANGEMENT WHEN SHOWN WITHIN OR ADJACENT TO SYMBOLS ON PLAN.
+48"	NUMBER TEXT INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF OUTLET BOX WHEN SHOWN ADJACENT TO SYMBOLS ON PLAN.
J	WALL-MOUNT JUNCTION BOX AS NOTED ON PLANS.
J	CEILING-MOUNT JUNCTION BOX AS NOTED ON PLANS.
J	JUNCTION BOX WITH PHOTO EYE.
J	WALL-MOUNT PUSH BUTTON FOR ADA DOORS. MOUNTED AT ADA REQUIRED HEIGHTS.
30A/3 NEMA 3R	NON-FUSIBLE DISCONNECT SWITCH. TEXT INDICATES AMP AND ENCLOSURE RATINGS.
30A/3 NEMA 3R	FUSIBLE DISCONNECT SWITCH. TEXT INDICATES AMP AND ENCLOSURE RATINGS.
30A/3 NEMA 3R	MOTOR STARTER, DISCONNECT SWITCH COMBO. TEXT INDICATES AMP AND ENCLOSURE RATINGS.
PHASE CONDUCTOR	CIRCUIT. NUMBER OF CROSSBARS INDICATE QUANTITY OF CONDUCTORS REQUIRED. MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH TRADE SIZE. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG.
GROUND NEUTRAL	
LP1-1,3,5	HOME RUN TO PANEL. NUMBER OF ARROW HEADS INDICATES NUMBER OF CIRCUITS. PREFIX INDICATES PANEL NOMENCLATURE. NUMBERS INDICATE CIRCUIT NUMBERS.

## GENERAL NOTES:

- ALL WORK SHALL BE DONE BY A LICENSED CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY, INCLUDING REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTES OTHERWISE.
- THERE SHALL BE NOTHING ABANDONED IN PLACE, UNLESS SPECIFICALLY IDENTIFIED AS SUCH.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING ADDENDA, AND APPLICABLE CODES AND STANDARDS.
- ALL TRADES SHALL COORDINATE THE ROUTING AND INSTALLATION OF HIS WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR.
- PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COST, AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE, INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES, INCLUDING THE NEC.
- ALL ELECTRICAL EQUIPMENT INSTALLED SHALL MEET MANUFACTURER SPECIFICATIONS.
- PROVIDE AND INSTALL TAMPER RESISTANT DEVICES IN ALL LOCATIONS SPECIFIED IN SECTION 406.12 OF THE NEC.

## ELECTRICAL LEGEND - LIGHTING

SYMBOL	DESCRIPTION
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	REMOTE HEAD, CONTROLLED BY EXIT LIGHT.
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	WALL OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	WALL MOUNTED EMERGENCY LIGHT AS SCHEDULED.
	WALL OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	SYMBOL INDICATES FIXTURE TYPE WHEN SHOWN ON LIGHTING PLANS ADJACENT TO FIXTURE SYMBOL. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE REQUIREMENTS.
S <sub>a</sub>	OUTLET BOX AND 20-AMP, SINGLE-POLE SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
S <sub>3a</sub>	OUTLET BOX AND 20-AMP, THREE-WAY SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
S <sub>4a</sub>	OUTLET BOX AND 20-AMP, FOUR-WAY SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
S <sub>a</sub> <sup>D</sup>	OUTLET BOX AND 20-AMP, SINGLE-POLE DIMMER SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
S <sub>a</sub> <sup>3D</sup>	OUTLET BOX AND 20-AMP, THREE-WAY DIMMER SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
S <sub>xx</sub>	OUTLET BOX AND 20-AMP, COMBINATION SWITCH AND OCCUPANCY SENSOR. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. OTHER TEXT INDICATES SWITCH CONFIGURATION AND CIRCUIT SWITCHED AS OTHER NON-OCCUPANCY SENSOR SWITCHES.
S <sub>xxD</sub>	OUTLET BOX AND 10-AMP, COMBINATION SWITCH AND LOW-VOLTAGE (0-10V) DIMMER. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. OTHER TEXT INDICATES SWITCH CONFIGURATION AND CIRCUIT SWITCHED AS OTHER NON-DIMMER SWITCHES.
S <sub>a</sub>	CEILING-MOUNT OCCUPANCY SENSOR. THE LETTER(S) DESIGNATION ADJACENT TO THE SYMBOL (IF SHOWN) INDICATE SWITCHING ZONES TO BE CONTROLLED BY THE SENSOR. IF A LETTER DESIGNATION IS NOT SHOWN, THE SENSOR SHALL CONTROL ALL LIGHTING FIXTURES WITHIN THE ROOM.
S <sub>a,b,c</sub>	WALL-MOUNT OCCUPANCY SENSOR. THE LETTER(S) DESIGNATION ADJACENT TO THE SYMBOL (IF SHOWN) INDICATE SWITCHING ZONES TO BE CONTROLLED BY THE SENSOR. IF A LETTER DESIGNATION IS NOT SHOWN, THE SENSOR SHALL CONTROL ALL LIGHTING FIXTURES WITHIN THE ROOM.
PP	OUTLET BOX AND 20 AMP POWER PACK
LC	LIGHTING CONTACTOR AS SPECIFIED ON PLANS

## ELECTRICAL LEGEND - TELCOM

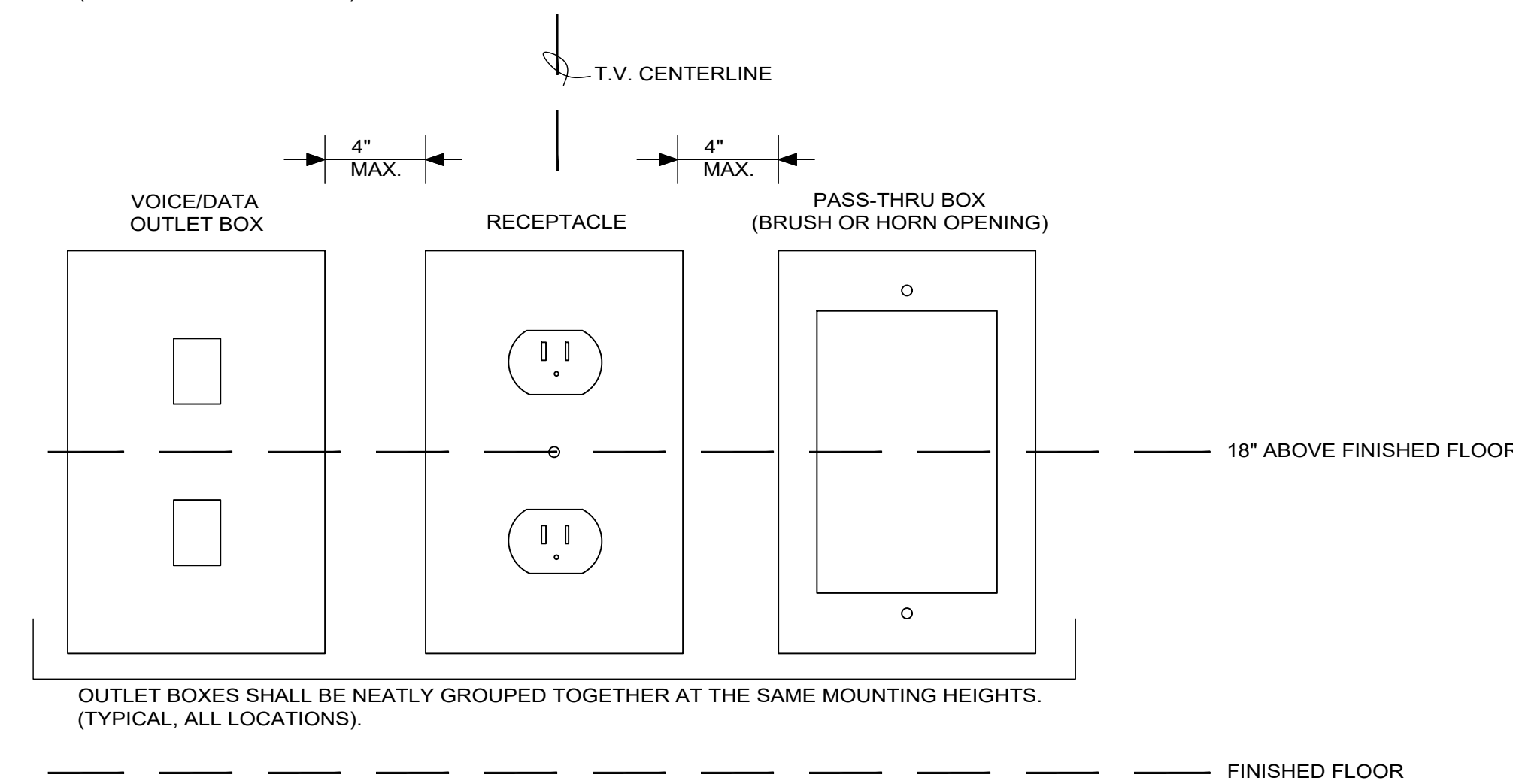
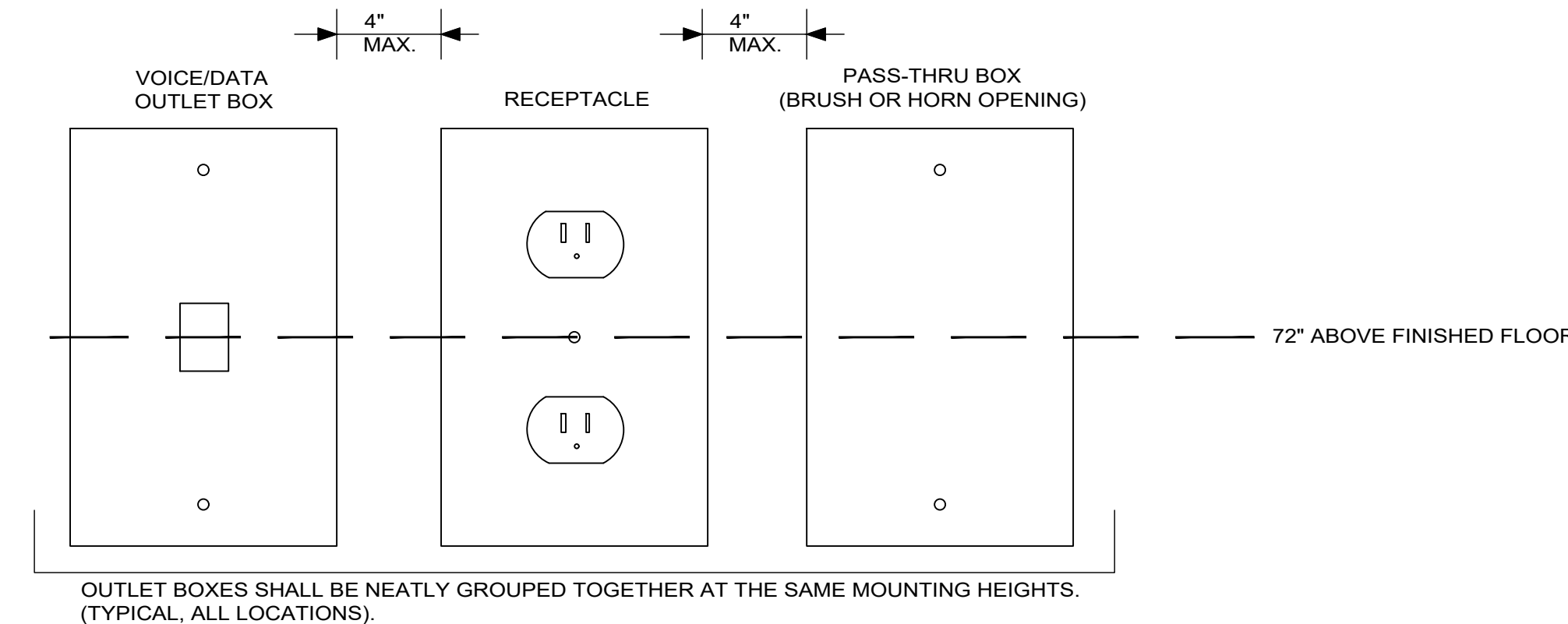
SYMBOL	DESCRIPTION
	VOICE/DATA OUTLET. MOUNT OUTLET BOX AT 18 INCHES A.F.F. TO CENTER (EVEN WITH ADJACENT RECEPTACLE IF PRESENT) OR 8 INCHES ABOVE COUNTER OR COUNTER BACKSPLASH TO CENTER, UNLESS NOTED OTHERWISE. PROVIDE 1 INCH CONDUIT WITH PULLSTRING FROM OUTLET BOX TO NEAREST ACCESSIBLE CEILING CAVITY. BUSH CONDUIT ENDS. OUTLET BOX SHALL BE 4 INCH SQUARE BY 2-3/4 INCH DEEP WITH A SINGLE GANG PLASTER RING, UNLESS NOTED OTHERWISE. "W" TEXT ADJACENT TO SYMBOL DENOTES WALL PHONE LOCATION (MOUNT AT 56 INCHES A.F.F. TO CENTER), WHERE SHOWN ADJACENT TO A POWER RECEPTACLE, INSTALL OUTLET AT SAME HEIGHT, WITHIN 6 INCHES OF RECEPTACLE, UNLESS OTHERWISE NOTED.
	CABLE TELEVISION OUTLET. MOUNT OUTLET BOX EVEN WITH ADJACENT RECEPTACLE. PROVIDE 1 INCH CONDUIT FROM OUTLET BOX TO NEAREST ACCESSIBLE ATTIC SPACE. BUSH CONDUIT ENDS. OUTLET BOX SHALL BE 4 INCH SQUARE BY 2-3/4 INCH DEEP WITH A SINGLE GANG PLASTER RING, UNLESS NOTED OTHERWISE.
	CEILING MOUNTED COMMUNICATIONS OUTLET BOX FOR WIRELESS ACCESS POINT. OUTLET BOX SHALL BE FOUR INCHES WITH A SINGLE GANG PLASTER RING.

## ELECTRICAL LEGEND - FIRE ALARM

SYMBOL	DESCRIPTION
	CEILING MOUNT SMOKE DETECTOR WITH SOUNDER BASE.
	CEILING MOUNT HEAT DETECTOR WITH SOUNDER BASE.
	WALL MOUNT VISUAL NOTIFICATION DEVICE.

## ELECTRICAL SPECIFICATIONS:

- ALL ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND WITH ALL OTHER APPLICABLE STATE AND LOCAL CODES.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT AS INDICATED ON THE DRAWINGS. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF FIRST-CLASS CONSTRUCTION, AND SHALL BE THE PRODUCT OF AN ESTABLISHED AND REPUTABLE MANUFACTURER AND SHALL BE DESIGNED TO PERFORM THE SERVICE REQUIRED.
- ALL ELECTRICAL SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE ENTIRE ELECTRICAL SYSTEM SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER AND ACCORDING TO GOOD PRACTICE.
- ALL MATERIALS USED IN THE WORK SHALL BE APPROVED BY THE UNDERWRITERS LABORATORIES, INC., AND SHALL BEAR THEIR LABEL WHERE SUCH APPROVAL IS AVAILABLE FOR THE TYPE OF MATERIAL.
- THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROCURE ALL PERMITS, CERTIFICATES, AND LICENSES REQUIRED OF HIM BY LAW FOR THE EXECUTION OF HIS WORK.
- THE CONTRACTOR SHALL VISIT SITE TO OBTAIN KNOWLEDGE OF EXACT CIRCUIT DISTANCES AND INSTALLATION REQUIREMENTS.
- CONDUCTORS NO. 8 AND LARGER SHALL BE CODE GRADE THWN STRANDED COPPER WIRE. CONDUCTORS SMALLER THAN NO. 8 SHALL BE CODE GRADE THHN WIRE, SOLID OR STRANDED COPPER. MINIMUM WIRE SIZE SHALL BE NO. 12, UNLESS NOTED OTHERWISE. NON-METALLIC SHEATHED CABLE SHALL BE ALLOWED WHERE PERMITTED BY THE NEC.
- CONDUIT SHALL BE AS FOLLOWS: LIQUID TIGHT FLEXIBLE METAL CONDUIT WITH LIQUID TIGHT CONNECTIONS SHALL BE USED FOR ALL MECHANICAL EQUIPMENT CONNECTIONS. FLEXIBLE METALLIC (NON-LIQUID-TIGHT) CONDUIT SHALL BE USED FOR LAY-IN TYPE LIGHTING FIXTURES. CONDUIT SHALL BE 3/4" MINIMUM SIZE. THE USE OF CRIMP TIGHT CONNECTORS FOR CONDUIT WILL NOT BE ALLOWED. UNDERGROUND CONDUIT SHALL BE PVC EXCEPT AT CONDUIT BEND THROUGH FLOOR WHERE CONDUIT SHALL BE RIGID. ALL WORK PER NEC.
- DISCONNECT SWITCHES SHALL BE "HEAVY-DUTY" RATED. NEMA 1, 3R, OR 4X AS REQUIRED.
- WIRING DEVICES (SWITCHES AND RECEPTACLES) SHALL BE 20A, 125VAC "SPECIFICATION GRADE", WITH METAL DEVICE PLATE. SWITCH DEVICES SHALL BE HUBBELL 1221 OR APPROVED EQUAL BY BRYANT, ARROW-HART, OR PASS AND SEYMOUR. RECEPTACLES SHALL BE HUBBELL #5362 SERIES OR APPROVED EQUAL BY BRYANT, ARROW-HART, OR PASS AND SEYMOUR. UTILIZE GFI WHERE INDICATED.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER ARCHITECTURAL FRONT END DOCUMENTS ON ALL ELECTRICAL EQUIPMENT INCLUDING (BUT NOT LIMITED TO) LIGHT FIXTURES, SWITCHGEAR/PANELBOARDS, WIRING DEVICES, DATA/VOICE CABLING, DISCONNECT SWITCHES/CONTACTORS/TIME CLOCK, MOTION SENSORS, TRANSFORMERS AND DATA/TELEPHONE SUPPORT SYSTEMS.
- EXAMINE ALL ARCHITECTURAL, STRUCTURAL, PLUMBING AND HVAC CONSTRUCTION DRAWINGS COOPERATE WITH OTHER TRADES IN LOCATING COMPONENTS IN ORDER TO AVOID CONFLICT WITH OTHER TRADES' WORK. NO CLAIM FOR COSTS WILL BE ALLOWED FOR RELOCATING EQUIPMENT, ETC. THAT INTERFERES WITH OTHER TRADES WORK.
- IN ADDITION TO EQUIPMENT GUARANTEE PROVIDED BY MANUFACTURER, THE CONTRACTOR SHALL FURNISH OWNER A WRITTEN GUARANTEE AGAINST DEFECT IN ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF WORK. DURING GUARANTEE PERIOD AND WITHOUT EXPENSE TO THE OWNER, REPAIR ALL DEFECTS IN WORKMANSHIP OR MATERIAL PROVIDED.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL INSTALLATION. THE EXACT LOCATION AND / OR ROUTING OF CONDUIT, RECEPTACLES, PANELS ETC., SHALL BE DETERMINED IN THE FIELD. MAKE REASONABLE MODIFICATIONS IN THE INSTALLATION AS REQUIRED BASED ON FIELD CONDITIONS.
- AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE FROM THE SITE AND DISPOSE OF ALL RUBBISH AND DISCARDED MATERIALS.
- THE ELECTRICAL CONTRACTOR SHALL KEEP ACCURATE RECORDS OF INSTALLATION THAT DEVIATED FROM THE DRAWINGS. AT THE COMPLETION OF PROJECT, CONTRACTOR SHALL PRESENT TO THE OWNER A MARKED UP SET OF AS BUILT PRINTS WITH INDICATED CHANGES.
- ALL PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROVIDED WITH PROPERLY SIZED SLEEVES. SEAL ALL SLEEVES WITH APPROPRIATE CAULK. PENETRATIONS THROUGH FIRE WALLS SHALL BE SEALED USING FIRE CAULK MATCHING THE FIRE RATING OF THE FIRE WALL.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE TRAINING TO THE OWNER ON ALL ELECTRICAL EQUIPMENT.
- CIRCUIT BREAKER PANELBOARDS SHALL HAVE AIC RATING AS INDICATED ON BUSING DIAGRAM. PANELBOARDS SHALL BE SQUARE D OR APPROVED EQUAL BY GE, CUTLER HAMMER, OR SIEMENS. CONTRACTOR SHALL PROVIDE DETAILED TYPED PANELBOARD DIRECTORY.
- ALL HVAC, PLUMBING AND ELECTRICAL EQUIPMENT, PIPES, DUCTWORK, CONDUIT, ETC. SHALL BE RESTRAINED TO RESIST SEISMIC FORCES. RESTRAINTS SHALL MAINTAIN EQUIPMENT. PIPING, DUCTWORK AND CONDUIT IN A CAPTIVE POSITION. RESTRAINT DEVICES SHALL BE DESIGNED AND SELECTED TO MEET THE SEISMIC REQUIREMENTS AS DEFINED IN THE LATEST ISSUE OF THE KENTUCKY BUILDING CODE OR LOCAL JURISDICTION BUILDING CODE.



NOTE: COORDINATE EXACT OUTLET BOX INSTALLATION LOCATIONS IN FIELD WITH ARCHITECT PRIOR TO ROUGH-IN.

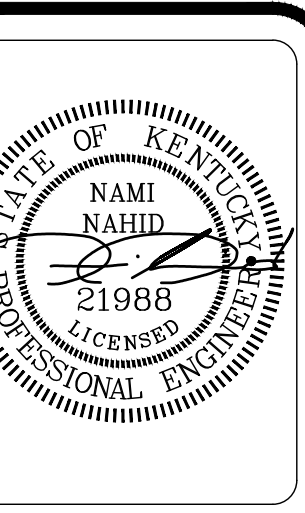
## TYPICAL OUTLET INSTALLATION AT T.V. LOCATION

NOT TO SCALE

MIDDLEBRIDGE APARTMENTS  
MIDDLEBRIDGE ROAD  
BOWLING GREEN, KENTUCKY

WILLIAMS  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax

WILLIAMS  
associates  
architects



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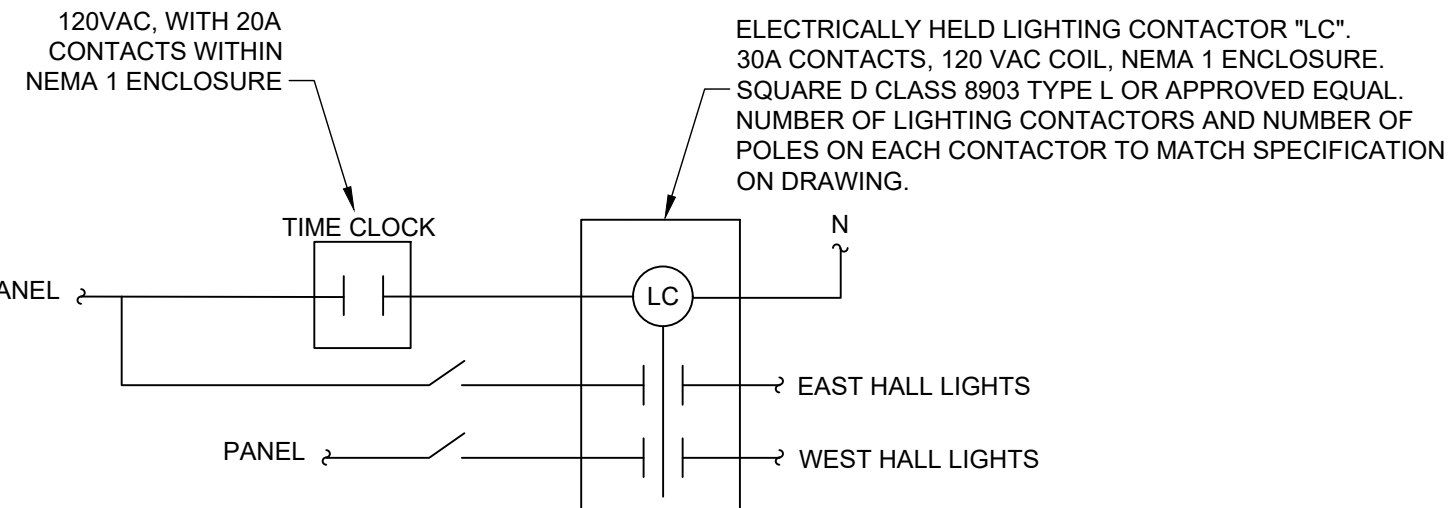
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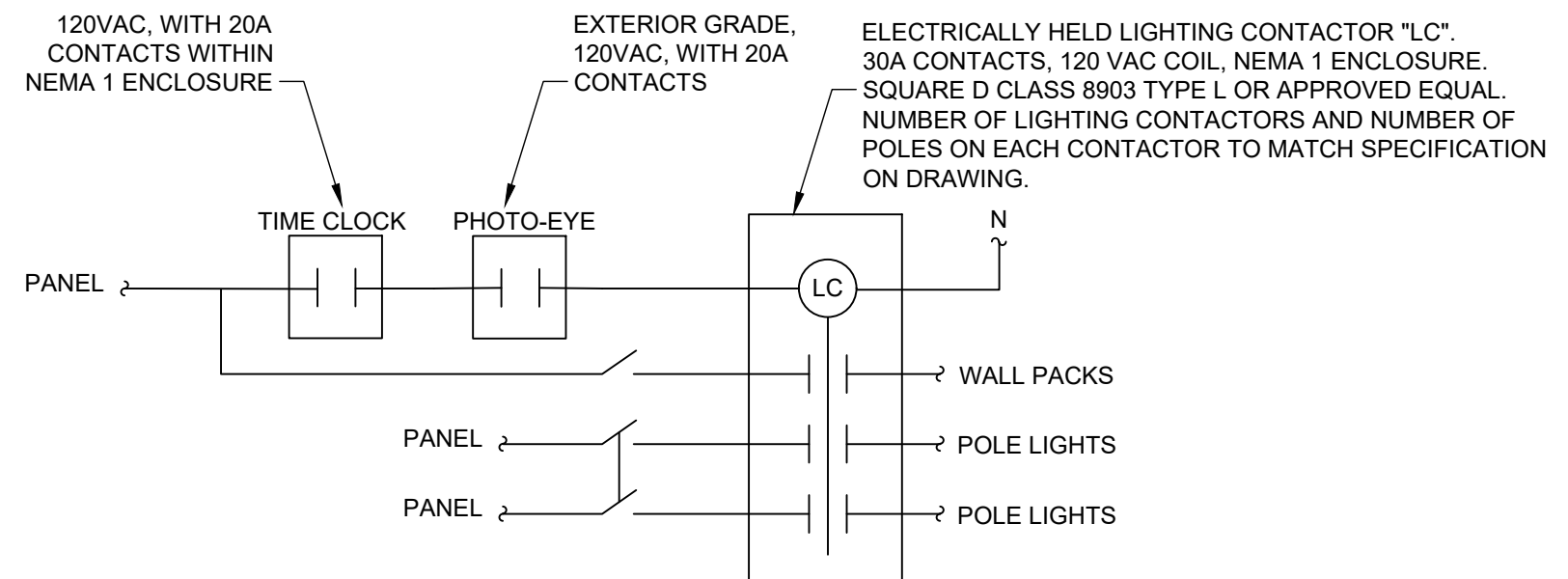
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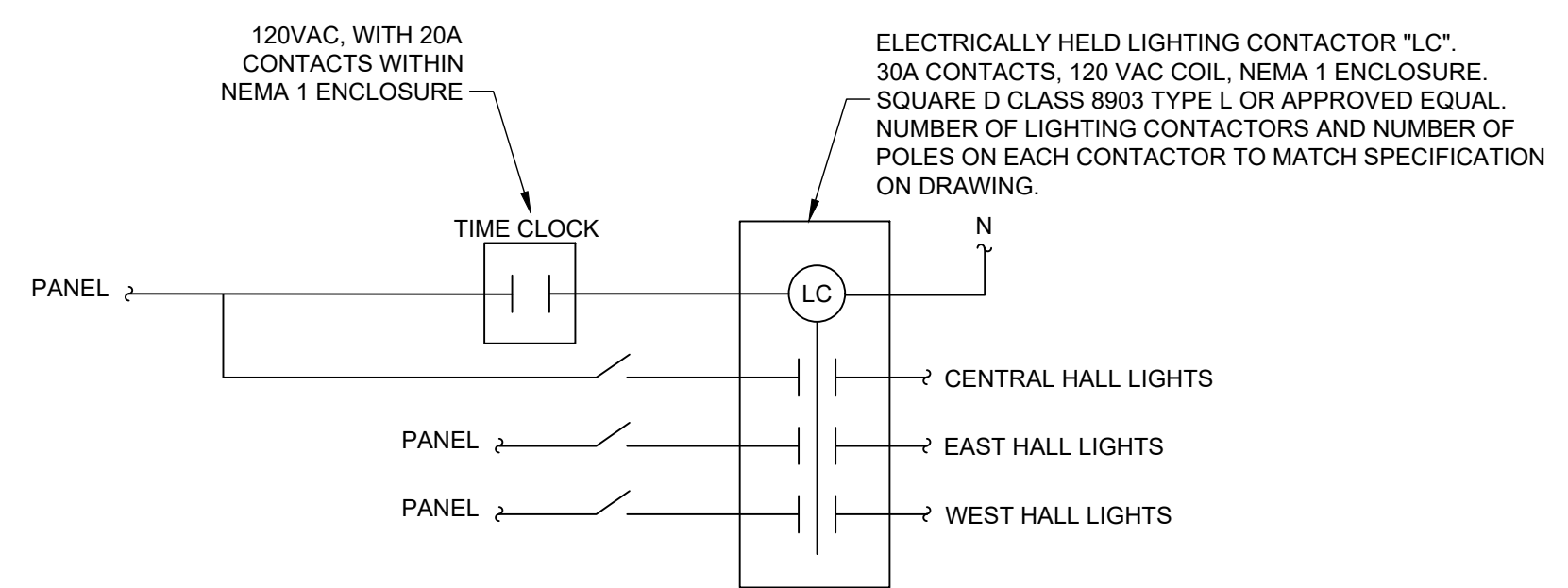
**BUILDING A HALLWAY LIGHTING CONTROL DIAGRAM**

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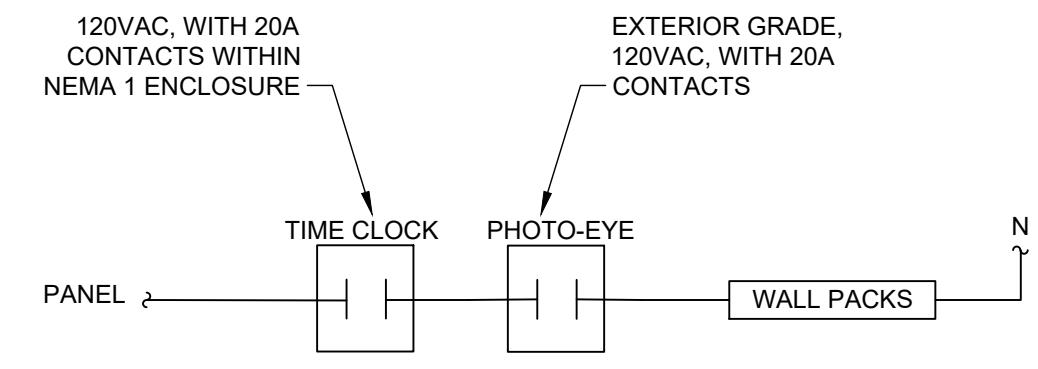
**EXTERIOR LIGHTING CONTROL DIAGRAM - WITH POLE LIGHTS**

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**BUILDING B HALLWAY LIGHTING CONTROL DIAGRAM**












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**EXTERIOR LIGHTING CONTROL DIAGRAM - WITHOUT POLE LIGHTS**

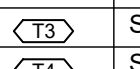
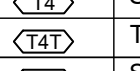
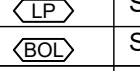
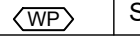


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**APARTMENT BUILDING LIGHTING FIXTURE SCHEDULE**

SYMBOL	DESCRIPTION	MANUFACTURER	FIXTURE SERIES	LAMP DATA			FIXTURE VOLTAGE	MOUNTING	REMARKS
				TYPE	# OF LAMPS	TOTAL WATTAGE			
	LED 6" ROUND DISK LIGHT, WET LOCATION TRIM	NDR ELECTRIC	RZR	13W LED 3000K 1020 LUMEN 50,000 HRS	INTEGRATED	14.3W	120V	SURFACE	MODEL: RZR-3000K-FT811-WH
	(1) LIGHT LED PENDANT	PROGRESS LIGHTING	REPLAY COLLECTION	8.5W LED (E26) 3000K	(1)	8.5W	120V	CEILING (PENDANT)	PROVIDE LIGHT BULBS AS DIRECTED.
	(2) LIGHT VANITY FIXTURE	PROGRESS LIGHTING	REPLAY COLLECTION	8.5W LED (E26) 3000K	(2)	17W	120V	WALL	PROVIDE LIGHT BULBS AS DIRECTED.
	(1) LIGHT OUTDOOR SCONCE	PROGRESS LIGHTING	ROMAN COACH COLLECTION	8.5W LED (E26) 3000K	(1)	8.5W	120V	WALL	PROVIDE LIGHT BULBS AS DIRECTED.
	LED 16" ROUND SEMI-FLUSH MOUNT	PROGRESS LIGHTING	RATIO COLLECTION	8.5W LED (E26) 3000K	(3)	25.5W	120V	CEILING (SURFACE)	
	(3) LIGHT CHANDELIER, ADJUSTABLE HEIGHT	PROGRESS LIGHTING	MERRY COLLECTION	8.5W LED (E26) 3000K	(3)	25.5W	120V	CEILING (PENDANT)	PROVIDE LIGHT BULBS AS DIRECTED.
	52", 5 BLADE CEILING FAN WITH (3) LIGHT HOUSINGS	HAMPTON BAY	ROCKPORT 52"	9.5W LED (E26) 3000K	(3)	LIGHTS: 28.5W FAN: 68W MAX.	120V	CEILING (FAN BOX)	PROVIDE LIGHT BULBS AS DIRECTED.
	LED WALL PACK	HUBBELL	PRELUDE	LED 4000K SWITCH, LUM 70 CRI 195,000 HRS L70	AS REQD.	18-60W	120-277V	EXTERIOR WALL	PART #: PRL-R-LS-4K
	LED COMBINATION EXIT/EMERGENCY LIGHT	HUBBELL	CC	LED (RED LETTER) (2) WHITE LAMP HEADS	AS REQD.	4.1W	120/277V	WALL	PART #: CCRGRC
	LED EMERGENCY LIGHT	HUBBELL	CU2HL	(2) WHITE LAMP HEADS 550 LUMENS	AS REQD.	1.0W	120-277V	WALL	PART #: CU2HL
	LED REMOTE HEAD FIXTURE, COMPATIBLE WITH "EX" FIXTURE SCHEDULED ABOVE	HUBBELL	COR	(1) WHITE LAMP HEAD	AS REQD.	---	---	WALL	PART #: CORS

\*\*\*LIGHTING FIXTURES SCHEDULED OR AN ENGINEER APPROVED EQUAL SHALL BE INSTALLED  
 \*\*\*COORDINATE FINAL FINISHES OF ALL LIGHTING FIXTURES WITH THE ARCHITECT AND THE OWNER.  
 \*\*\*MOUNTING HARDWARE AND ACCESSORIES SHALL BE ACQUIRED FOR EACH FIXTURE, AND SHALL BE SUITABLE FOR THE MOUNTING APPLICATION AND THE ENVIRONMENT IN WHICH THE FIXTURE IS TO BE INSTALLED.

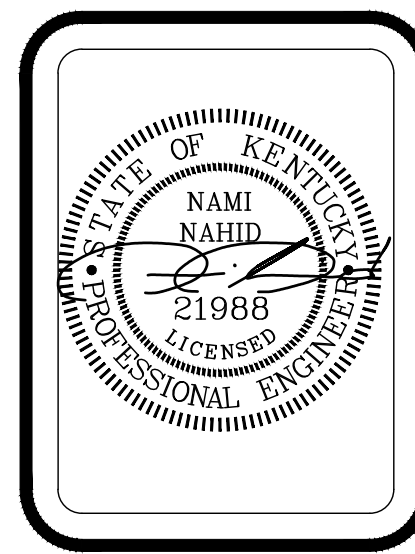
**SITE PLAN FIXTURE SCHEDULE**

SYMBOL	ARRANGEMENT	DESCRIPTION	LLF	LUMINAIRE LUMENS	LUMINAIRE WATTS	TOTAL WATTS
	SINGLE	BEACON VP-1-160L-75-4K7-3-BC	1.000	6,219	72.1	72.1
	SINGLE	BEACON VP-1-160L-75-4K7-4F-BC	1.000	5,555	72.1	72.1
	TWIN	(2) BEACON VP-1-160L-75-4K7-4F-BC	1.000	5,555	72.1	144.2
	SINGLE	ALN40-Y5-32LED-4K-700	1.000	5,634	74.3	74.3
	SINGLE	KBR8 LED 16C 350 40K SYM MVOLT	1.000	1,116	22	22
	SINGLE	PRL-R-LS-4K	1.000	2,553	18	18

MIDDLEBRIDGE APARTMENTS  
 MIDDLEBRIDGE ROAD  
 BOWLING GREEN, KENTUCKY

**WILLIAMS**  
 ASSOCIATE ARCHITECTS  
 John Williams, Architect  
 1136 South Park Drive, Suite 102  
 Bowling Green, KY 42103  
 270-782-2273 270-782-2173 Fax

**WILLIAMS**  
 associates  
 architects



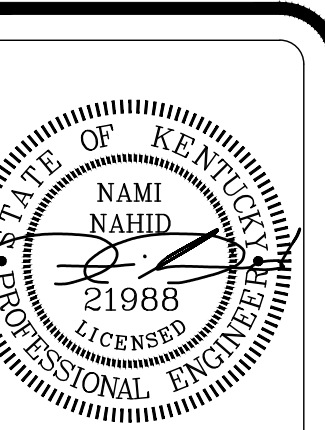
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MIDDLEBRIDGE APARTMENTS  
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270-782-2273 270-782-2173 Fax



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PANEL  
SCHEDULES

SHEET NO:

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PANEL "AHP" 120/240 VOLT 100 AMP SINGLE PHASE 3 WIRE MLO PANELBOARD									
CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE	A	B	CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE
1	MS-CU-1	30A/2	2#10, 1#10 G, 3/4"C	5760		2	MS-CU-2	30A/2	2#10, 1#10 G, 3/4"C
3					5760	4			
5	ROOFTOP RECEPTACLES EAST	20A/1	2#12, 1#12 G, 3/4"C	1440		6	ROOFTOP RECEPTACLES WEST	20A/1	2#12, 1#12 G, 3/4"C
7	RECEPTACLES EAST 1ST FLR	20A/1	2#12, 1#12 G, 3/4"C	720		8	RECEPTACLES WEST 1ST FLR	20A/1	2#12, 1#12 G, 3/4"C
9	RECEPTACLES EAST 2ND FLR	20A/1	2#12, 1#12 G, 3/4"C	720		10	RECEPTACLES WEST 2ND FLR	20A/1	2#12, 1#12 G, 3/4"C
11	RECEPTACLES EAST 3RD FLR	20A/1	2#12, 1#12 G, 3/4"C	720		12	RECEPTACLES WEST 3RD FLR	20A/1	2#12, 1#12 G, 3/4"C
13	HALLWAY LIGHTING - EAST	20A/1	2#12, 1#12 G, 3/4"C	1600		14	HALLWAY LIGHTING - WEST	20A/1	2#12, 1#12 G, 3/4"C
15	FACP	20A/1	2#12, 1#12 G, 3/4"C	1250		16	EXTERIOR WALL PACKS	20A/1	2#12, 1#12 G, 3/4"C
17				1050		18	POLE LIGHTS	20A/2	2#12, 1#12 G, 3/4"C
19					1050	20			
21				0		22			
23				0		24			
				Total Load (KVA)	10.6	9.5	NOTE: REFER TO SITE PLAN AND OMIT 2 POLE BREAKER FOR POLE LIGHTING AS NECESSARY. REPLACE WITH 20A/1 SPARES.		
				Total Load (A)	88.1	79.2			

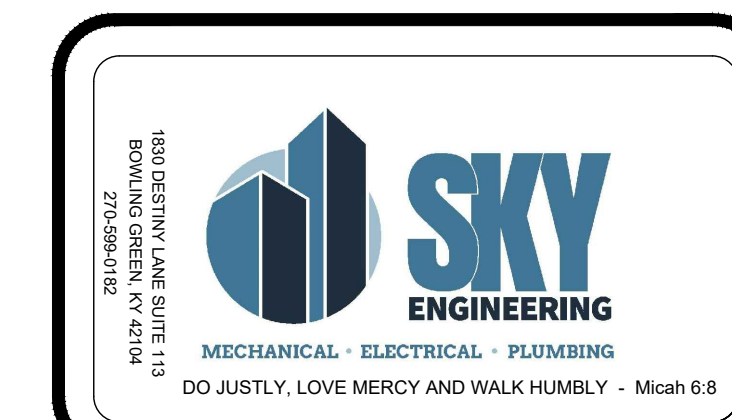
PANEL "BHP" 120/208 VOLT 225 AMP SINGLE PHASE 3 WIRE MLO PANELBOARD									
CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE	A	B	CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE
1	MS-CU-3	30A/2	2#10, 1#10 G, 3/4"C	5760		2	MS-CU-4	30A/2	2#10, 1#10 G, 3/4"C
3					5760	4			
5	MS-CU-5	30A/2	2#10, 1#10 G, 3/4"C	3240		6	RECEPTACLES WEST 1ST FLR	20A/1	2#12, 1#12 G, 3/4"C
7					3240	8	RECEPTACLES CENTRAL 1ST FLR	20A/1	2#12, 1#12 G, 3/4"C
9	ROOFTOP RECEPTACLES WEST	20A/1	2#12, 1#12 G, 3/4"C	1080		10	RECEPTACLES EAST 1ST FLR	20A/1	2#12, 1#12 G, 3/4"C
11	ROOFTOP RECEPTACLES CENTRAL	20A/1	2#12, 1#12 G, 3/4"C	1080		12	RECEPTACLES WEST 2ND FLR	20A/1	2#12, 1#12 G, 3/4"C
13	ROOFTOP RECEPTACLES EAST	20A/1	2#12, 1#12 G, 3/4"C	1080		14	RECEPTACLES CENTRAL 2ND FLR	20A/1	2#12, 1#12 G, 3/4"C
15	HALLWAY LIGHTING - WEST	20A/1	2#12, 1#12 G, 3/4"C	1360		16	RECEPTACLES EAST 2ND FLR	20A/1	2#12, 1#12 G, 3/4"C
17	HALLWAY LIGHTING - CENTRAL	20A/1	2#12, 1#12 G, 3/4"C	1360		18	RECEPTACLES WEST 3RD FLR	20A/1	2#12, 1#12 G, 3/4"C
19	HALLWAY LIGHTING - EAST	20A/1	2#12, 1#12 G, 3/4"C	1360		20	RECEPTACLES CENTRAL 3RD FLR	20A/1	2#12, 1#12 G, 3/4"C
21	EXTERIOR WALL PACKS	20A/1	2#12, 1#12 G, 3/4"C	720		22	RECEPTACLES EAST 3RD FLR	20A/1	2#12, 1#12 G, 3/4"C
23	FACP	20A/1	2#12, 1#12 G, 3/4"C		1000	24			
25	SPARE					26			
27	SPARE					28			
29	SPARE					30			
				Total Load (KVA)	13.2	13.8	NOTE: SEE SITE PLAN DRAWING FOR ANY ADDITIONAL BREAKERS REQUIRED FOR SITE LIGHTING.		
				Total Load (A)	110.3	115.0			

PANEL "A102" 120/240 VOLT 200 AMP SINGLE PHASE 3 WIRE MLO PANELBOARD									
CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE	A	B	CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE
1	CU	30A/2	2#10, 1#10 G, 3/4"C	5508		2	AC	30A/2	2#10, 1#10 G, 3/4"C
3					5508	4			
5	WATER HEATER	30A/2	2#10, 1#10 G, 3/4"C	6400		6	RANGE OVEN	50A/2	2#6, 1#6 G, 1"C
7					6400	8			
9	DRYER	30A/2	2#10, 1#10 G, 3/4"C	4000		10	REFRIGERATOR	20A/1	2#12, 1#12 G, 3/4"C
11					4000	12	DISHWASHER	20A/1	2#12, 1#12 G, 3/4"C
13	WASHER	20A/1	2#12, 1#12 G, 3/4"C	2100		14	RANGE HOOD	20A/1	2#12, 1#12 G, 3/4"C
15	BR1 REC	20A/1	2#12, 1#12 G, 3/4"C	1680		16	KIT COUNTER REC	20A/1	2#12, 1#12 G, 3/4"C
17	RR1 REC	20A/1	2#12, 1#12 G, 3/4"C	1680		18	KIT COUNTER REC	20A/1	2#12, 1#12 G, 3/4"C
19	MEDIA CENTER	20A/1	2#12, 1#12 G, 3/4"C	980		20	GARBAGE DISPOSAL	20A/1	2#12, 1#12 G, 3/4"C
21	LIGHTING	20A/1	2#12, 1#12 G, 3/4"C	1720		22	LR REC	20A/1	2#12, 1#12 G, 3/4"C
23	LIGHTING	20A/1	2#12, 1#12 G, 3/4"C	2260		24	LR REC	20A/1	2#12, 1#12 G, 3/4"C
25	SPARE	20A/1		0		26	SPARE	20A/1	2#12, 1#12 G, 3/4"C
27	SPARE	20A/1		0		28	SPACE		
29	SPACE			0		30	SPACE		
				Total Load (KVA)	21.4	20.8			
				Total Load (A)	178.4	173.6			

PANEL "A103" 120/240 VOLT 200 AMP SINGLE PHASE 3 WIRE MLO PANELBOARD									
CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE	A	B	CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE
1	CU	30A/2	2#10, 1#10 G, 3/4"C	5412		2	AC	30A/2	2#10, 1#10 G, 3/4"C
3					5412	4			
5	WATER HEATER	30A/2	2#10, 1#10 G, 3/4"C	6400		6	RANGE OVEN	50A/2	2#6, 1#6 G, 1"C
7					6400	8			
9	DRYER	30A/2	2#10, 1#10 G, 3/4"C	4000		10	REFRIGERATOR	20A/1	2#12, 1#12 G, 3/4"C
11					4000	12	DISHWASHER	20A/1	2#12, 1#12 G, 3/4"C
13	WASHER	20A/1	2#12, 1#12 G, 3/4"C	2100		14	RANGE HOOD	20A/1	2#12, 1#12 G, 3/4"C
15	BR1 REC	20A/1	2#12, 1#12 G, 3/4"C	1680		16	KIT COUNTER REC	20A/1	2#12, 1#12 G, 3/4"C
17	RR1 REC	20A/1	2#12, 1#12 G, 3/4"C	1680		18	KIT COUNTER REC	20A/1	2#12, 1#12 G, 3/4"C
19	BR2 REC	20A/1	2#12, 1#12 G, 3/4"C	1700		20	GARBAGE DISPOSAL	20A/1	2#12, 1#12 G, 3/4"C
21	RR2 REC	20A/1	2#12, 1#12 G, 3/4"C	1080		22	LR REC	20A/1	2#12, 1#12 G, 3/4"C
23	LIGHTING	20A/1	2#12, 1#12 G, 3/4"C	1900		24	LR REC	20A/1	2#12, 1#12 G, 3/4"C
25	LIGHTING	20A/1	2#12, 1#12 G, 3/4"C	1180		26	MEDIA CENTER REC	20A/1	2#12, 1#12 G, 3/4"C
27	SPARE	20A/1		0		28	SPARE	20A/1	
29	SPARE	20A/1		0		30	SPACE		
				Total Load (KVA)	21.9	22.0			
				Total Load (A)	182.1	183.3			

PANEL "B101" 120/208 VOLT 200 AMP SINGLE PHASE 3 WIRE MLO PANELBOARD									
CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE	A	B	CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE
1	CU	30A/2	2#10, 1#10 G, 3/4"C	5412		2	AC	30A/2	2#10, 1#10 G, 3/4"C
3					5412	4			
5	WATER HEATER	35A/2	2#10, 1#10 G, 3/4"C	6400		6	RANGE OVEN	50A/2	2#6, 1#6 G, 1"C
7					6400	8			
9	DRYER	30A/2	2#10, 1#10 G, 3/4"C	4000		10	REFRIGERATOR	20A/1	2#12, 1#12 G, 3/4"C
11					4000	12	DISHWASHER	20A/1	2#12, 1#12 G, 3/4"C
13	WASHER	20A/1	2#12, 1#12 G, 3/4"C	2100		14	RANGE HOOD	20A/1	2#12, 1#12 G, 3/4"C
15	BR1 REC	20A/1	2#12, 1#12 G, 3/4"C	1680		16	KIT COUNTER REC	20A/1	2#12, 1#12 G, 3/4"C
17	RR1 REC	20A/1	2#12, 1#12 G, 3/4"C	1680		18	KIT COUNTER REC	20A/1	2#12, 1#12 G, 3/4"C
19	MEDIA CENTER REC	20A/1	2#12, 1#12 G, 3/4"C	980		20	GARBAGE DISPOSAL	20A/1	2#12, 1#12 G, 3/4"C
21	CONVENIENCE REC	20A/1	2#12, 1#12 G, 3/4"C	1440		22	LR REC	20A/1	2#12, 1#12 G, 3/4"C
23	LIGHTING	20A/1	2#12, 1#12 G, 3/4"C	1720		24	LR REC	20A/1	2#12, 1#12 G, 3/4"C
25	LIGHTING	20A/1	2#12, 1#12 G, 3/4"C	1000		26	SPARE	20A/1	
27	SPARE	20A/1		0		28	SPARE	20A/1	
29	SPACE			0		30	SPACE		
				Total Load (KVA)	22.0	21.1			
				Total Load (A)	183.6	175.8			

NOTE: PROVIDE AND INSTALL ARC-FAULT CIRCUIT INTERRUPTER WHERE REQUIRED BY NEC SEC 210.12. TYPICAL



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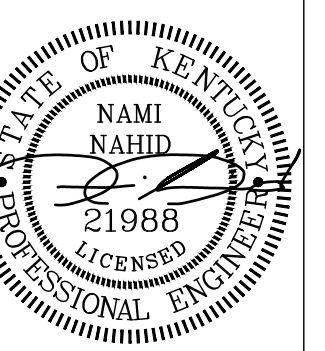
**SKY**  
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MECHANICAL • ELECTRICAL • PLUMBING  
DO JUSTLY, LOVE MERCY AND WALK HUMBLLY - Micah 6:8



MIDDLEBRIDGE APARTMENTS  
MIDDLEBRIDGE ROAD  
BOWLING GREEN, KENTUCKY

WILLIAMS  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax

WILLIAMS  
associates  
architects



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DATE: 7-7-22  
DRAWN BY: GT  
CHECKED BY: NN

SHEET TITLE:  
ELECTRICAL  
RISERS

SHEET NO.:

E0.3

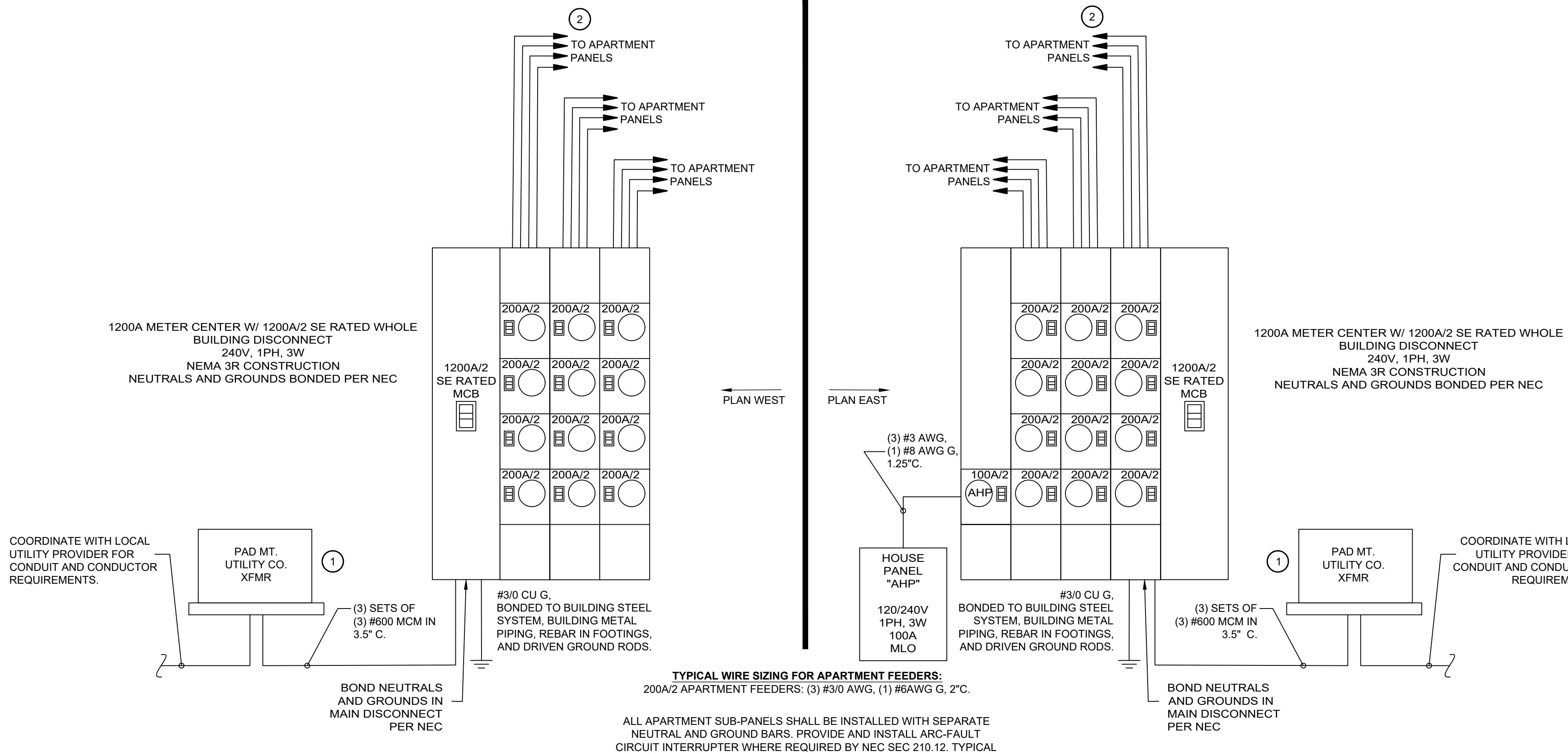
**GENERAL AIC NOTE:**  
CONTRACTOR SHALL COORDINATE WITH THE UTILITY CO. FOR AVAILABLE FAULT CURRENT OF THE UTILITY TRANSFORMER, AND DETERMINE THE MAXIMUM FAULT CURRENT ON THE BUILDING POWER DISTRIBUTION SYSTEM BASED UPON AVAILABLE FAULT CURRENT FROM UTILITY POWER AND MOTOR LOADS ON THE SYSTEM. THE GEAR EQUIPMENT VENDOR SHALL PROVIDE A FAULT CURRENT ANALYSIS WITH PANEL SPECIFICATIONS FOR REVIEW BY THE ENGINEER.

**GENERAL RISER NOTES:**

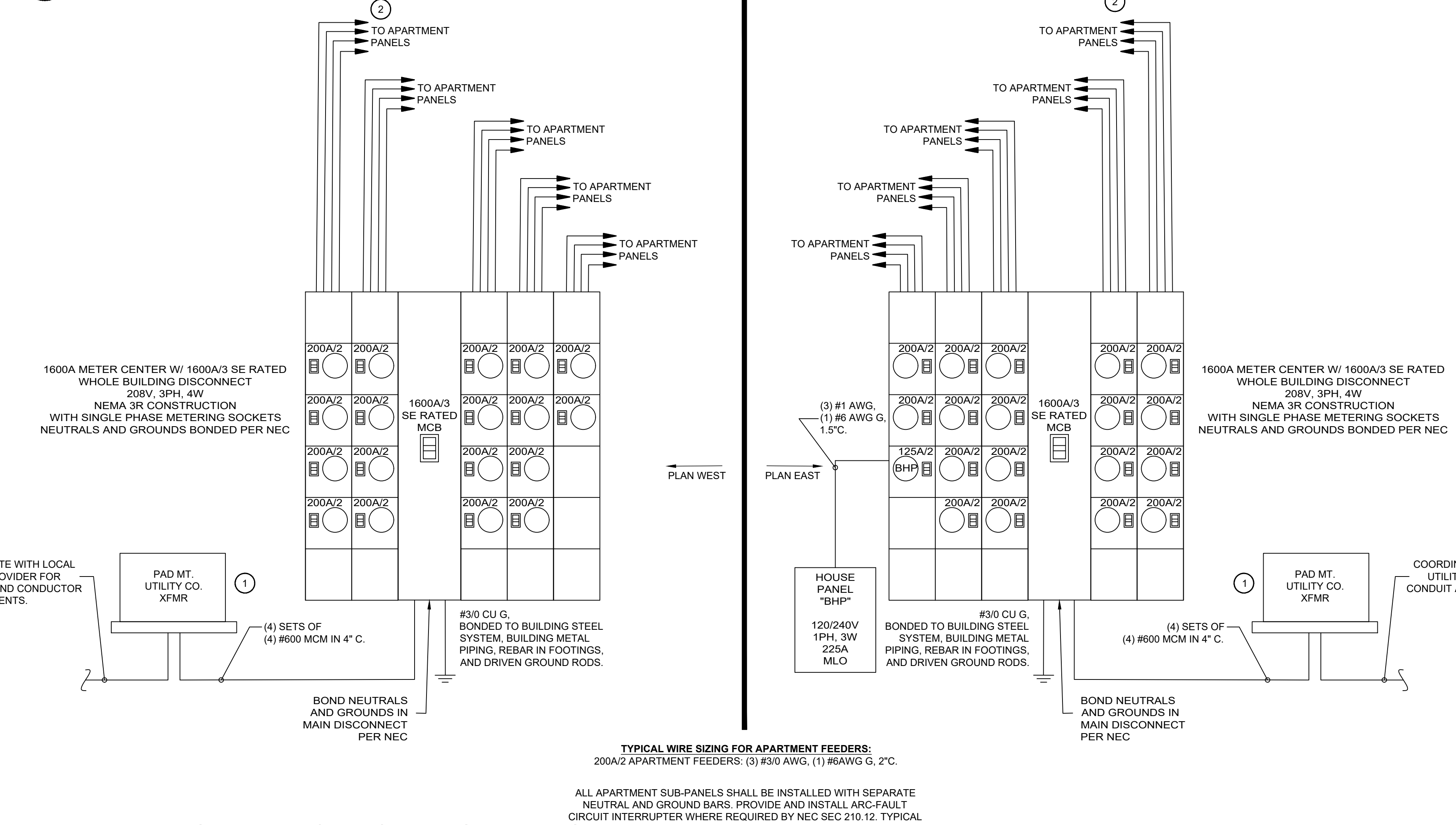
1. PROVIDE LABEL ON ALL PANELS INDICATING:  
PANEL NAME  
PANEL VOLTAGE  
PANEL FED FROM
2. PROVIDE ALL EQUIPMENT WITH ARC FLASH LABELS.
3. METER PACK MAINS TO CONTAIN MAINTENANCE SWITCH OR OTHER LISTED METHOD TO REDUCE CLEARING TIME LISTED IN SECTION 240.87(B) OF THE NEC.

**# BUILDING RISER NOTES:**

1. COORDINATE PAD SIZING, BONDING, AND STRUCTURAL REQUIREMENTS WITH UTILITY CO. COORDINATE WITH CIVIL FOR TRANSFORMER LOCATION ON SITE.
2. SEE PANEL SCHEDULES FOR APARTMENT PANEL SPECIFICATIONS. TYPICAL.

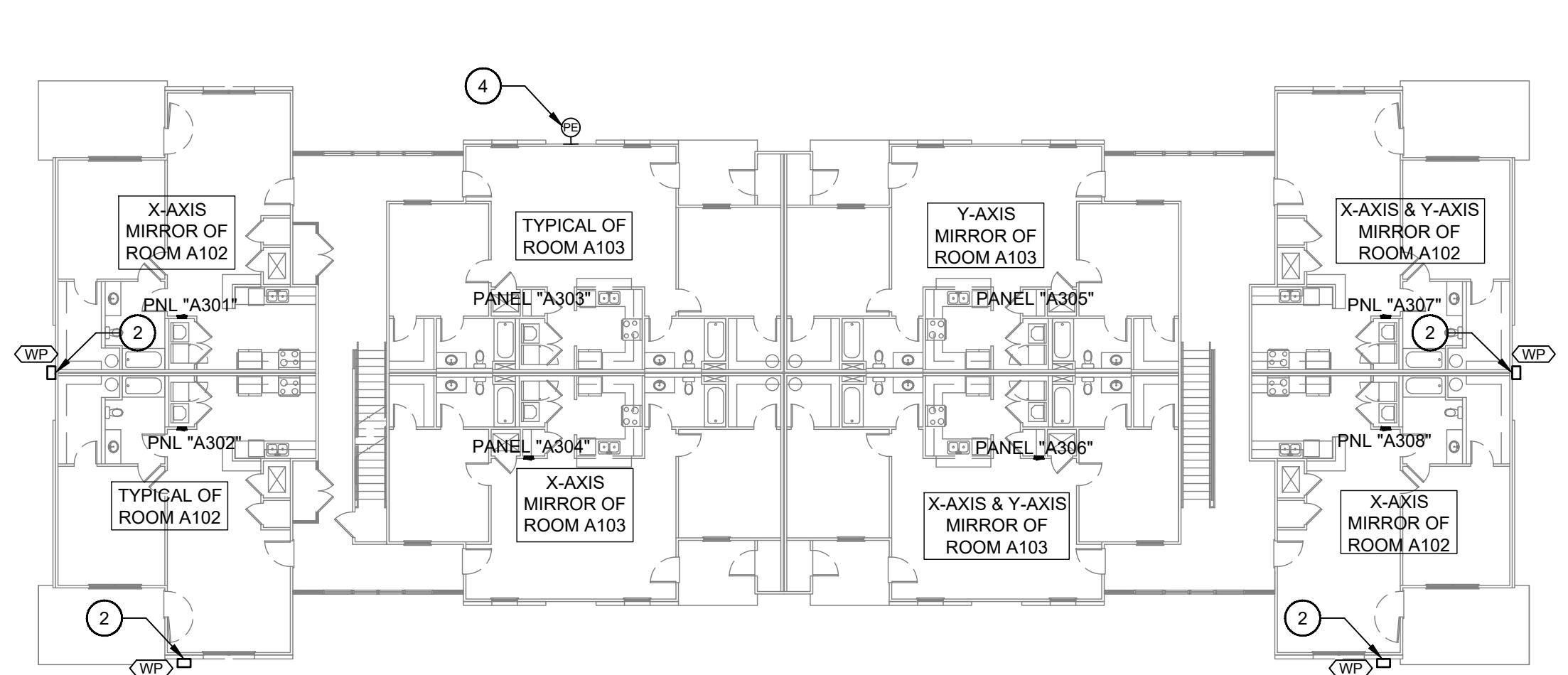


**1 BUILDING A - ELECTRICAL RISER DIAGRAM**  
NOT TO SCALE



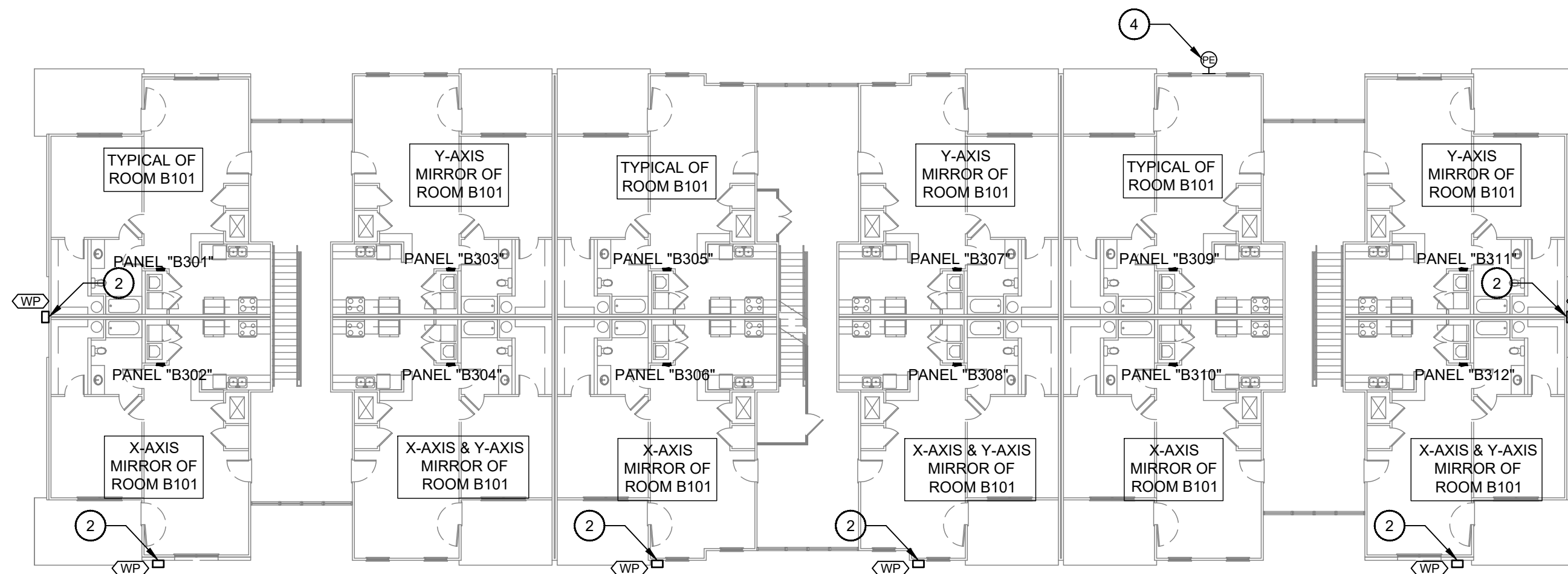
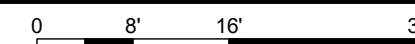
**2 BUILDING B - ELECTRICAL RISER DIAGRAM**  
NOT TO SCALE





**1 BUILDING A - THIRD FLOOR**

SCALE: 1/16"=1'-0"



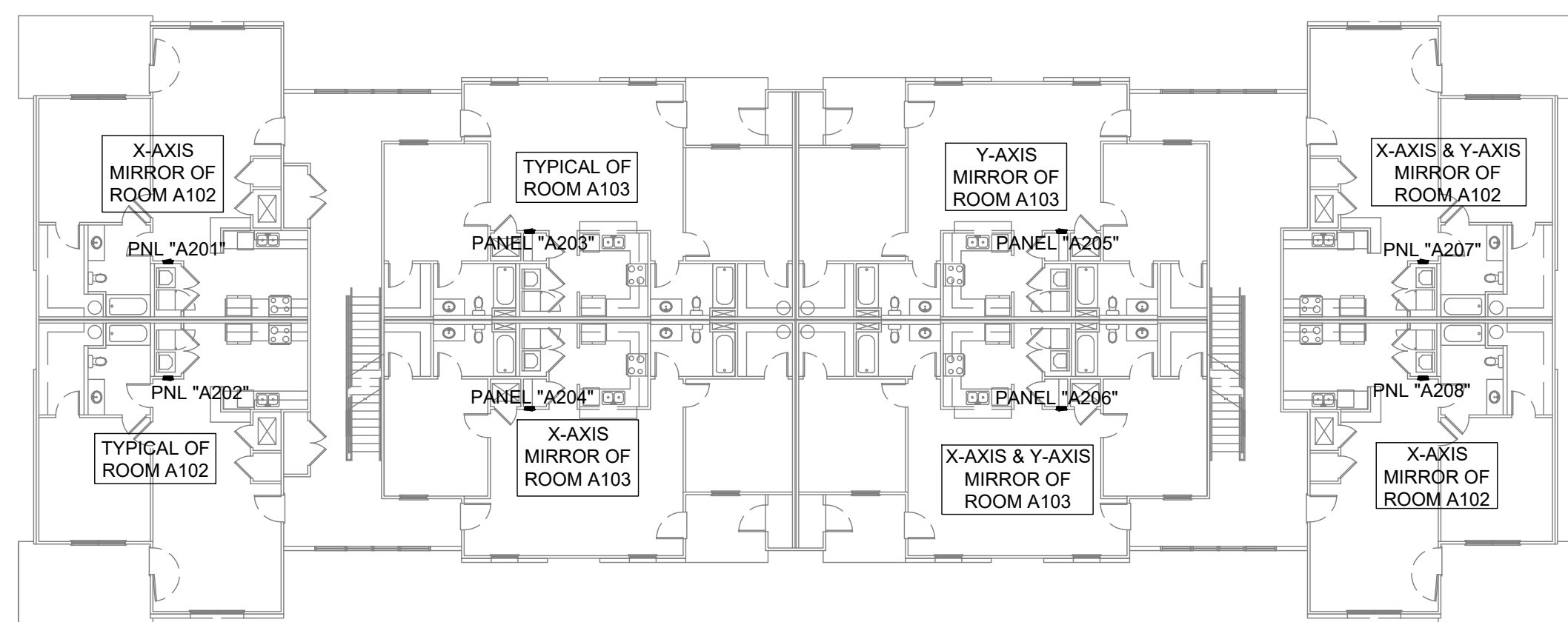
**4 BUILDING B - THIRD FLOOR**

SCALE: 1/16"=1'-0"



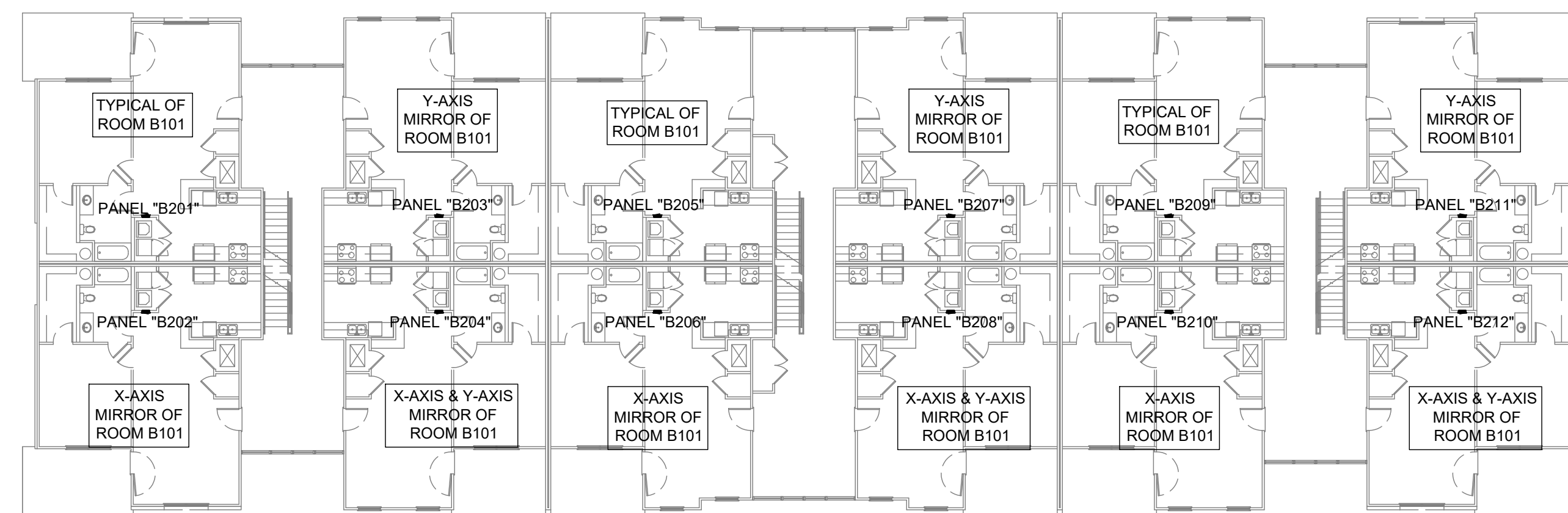
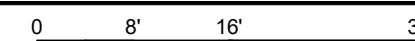
**BLDG. PLAN NOTES:**

1. NOT USED.
2. WALL PACKS SHALL BE MOUNTED 20" A.F.F AND CONTROLLED BY BUILDING EXTERIOR LIGHTING CONTROL CIRCUIT OFF OF THE BUILDING HOUSE PANEL. REFER TO EXTERIOR LIGHTING CONTROLS DETAIL.
3. UTILITY METER LOCATION SHALL BE PLACED ON EAST AND WEST OF BUILDING. COORDINATED WITH TRANSFORMER LOCATION. COORDINATE LOCATION WITH CIVIL. REFER TO ONE-LINE.
4. PHOTOEYE SHALL BE LOCATED ON SITE NORTH SIDE OF THE BUILDING. DEVICE SHALL BE EXTERIOR GRADE RATED WITH 20A CONTACTS. REFER TO EXTERIOR LIGHTING CONTROL DETAILS.



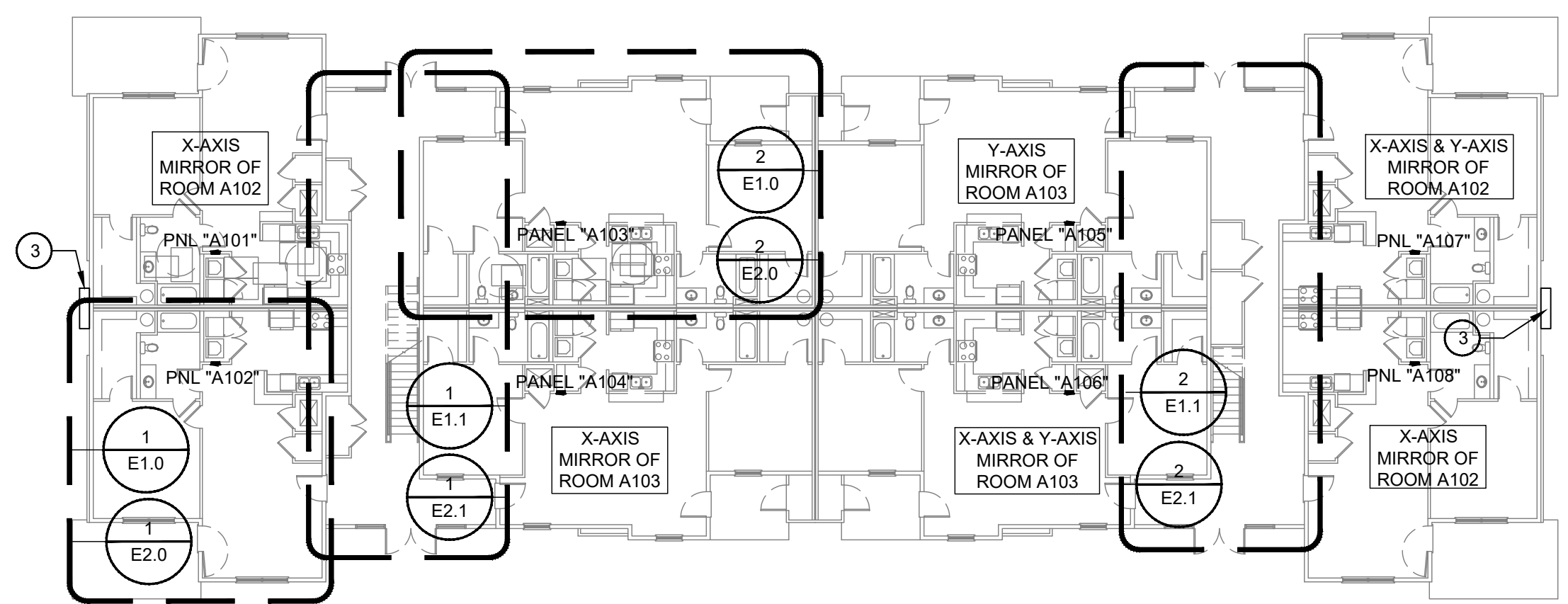
**2 BUILDING A - SECOND FLOOR**

SCALE: 1/16"=1'-0"



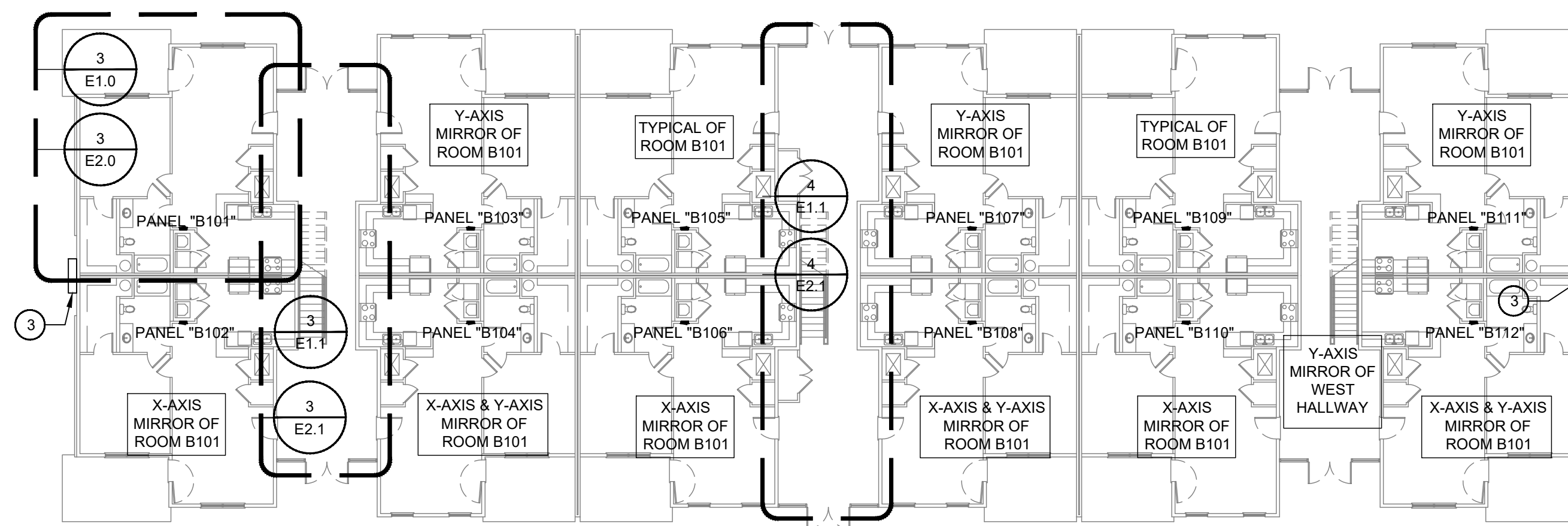
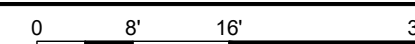
**5 BUILDING B - SECOND FLOOR**

SCALE: 1/16"=1'-0"



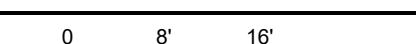
**3 BUILDING A - FIRST FLOOR**

SCALE: 1/16"=1'-0"



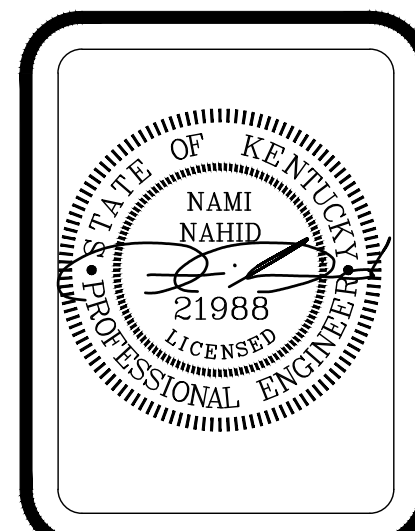
**6 BUILDING B - FIRST FLOOR**

SCALE: 1/16"=1'-0"



MIDDLEBRIDGE APARTMENTS  
MIDDLEBRIDGE ROAD  
BOWLING GREEN, KENTUCKY

**WILLIAMS**  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax



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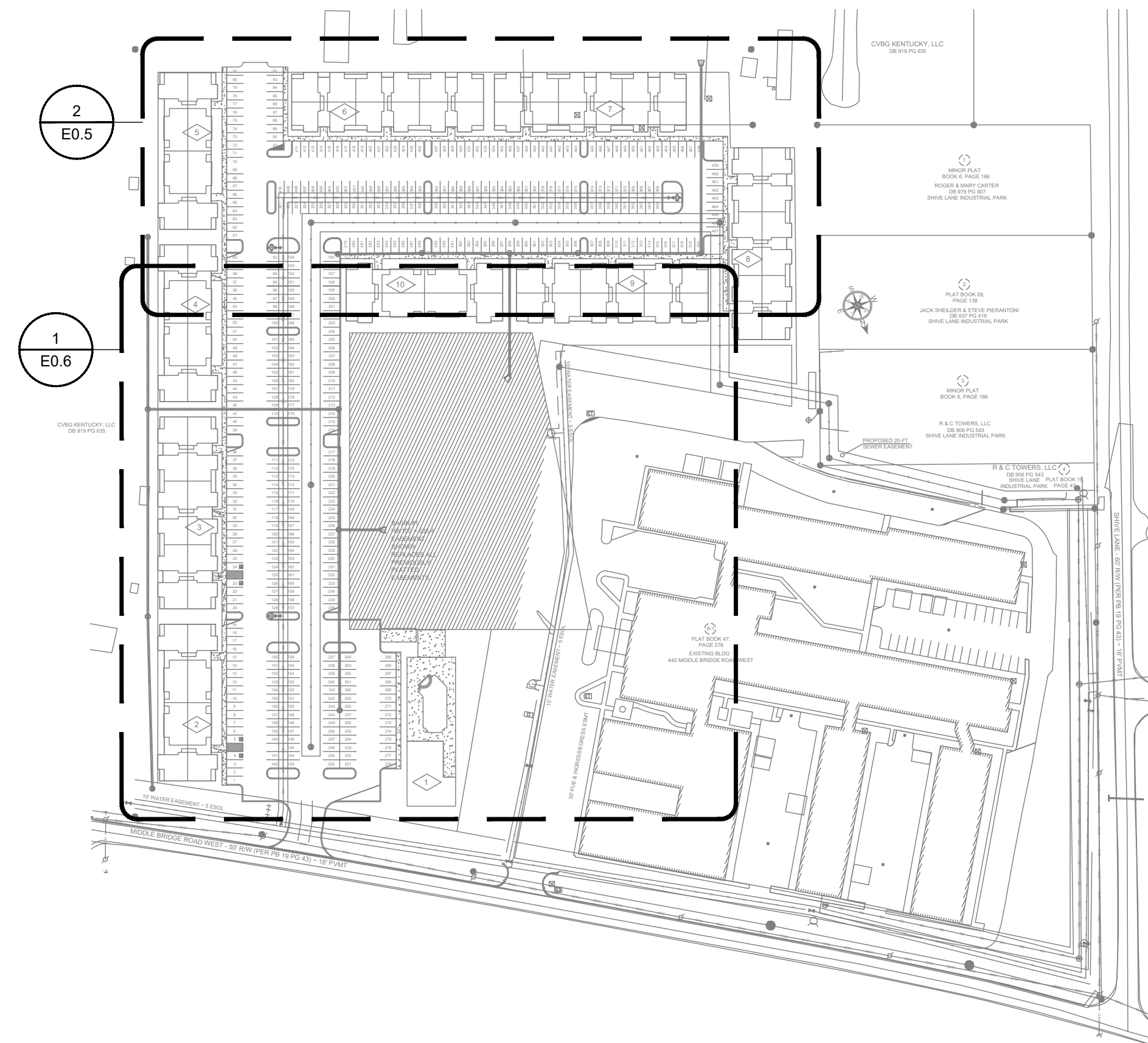

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DATE: 7-7-22  
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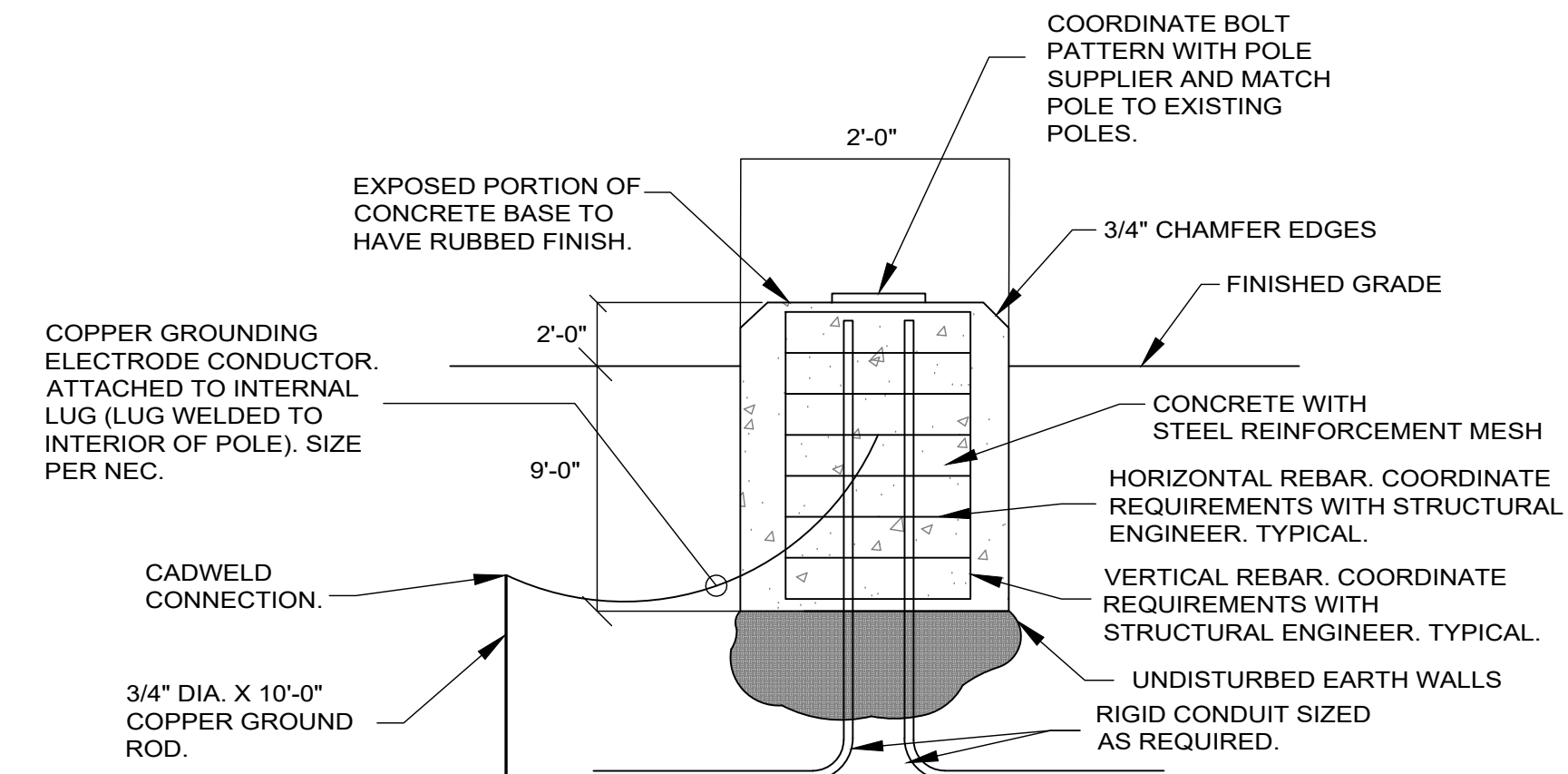
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OVERALL  
BUILDING  
PLANS

SHEET NO:  
E0.4



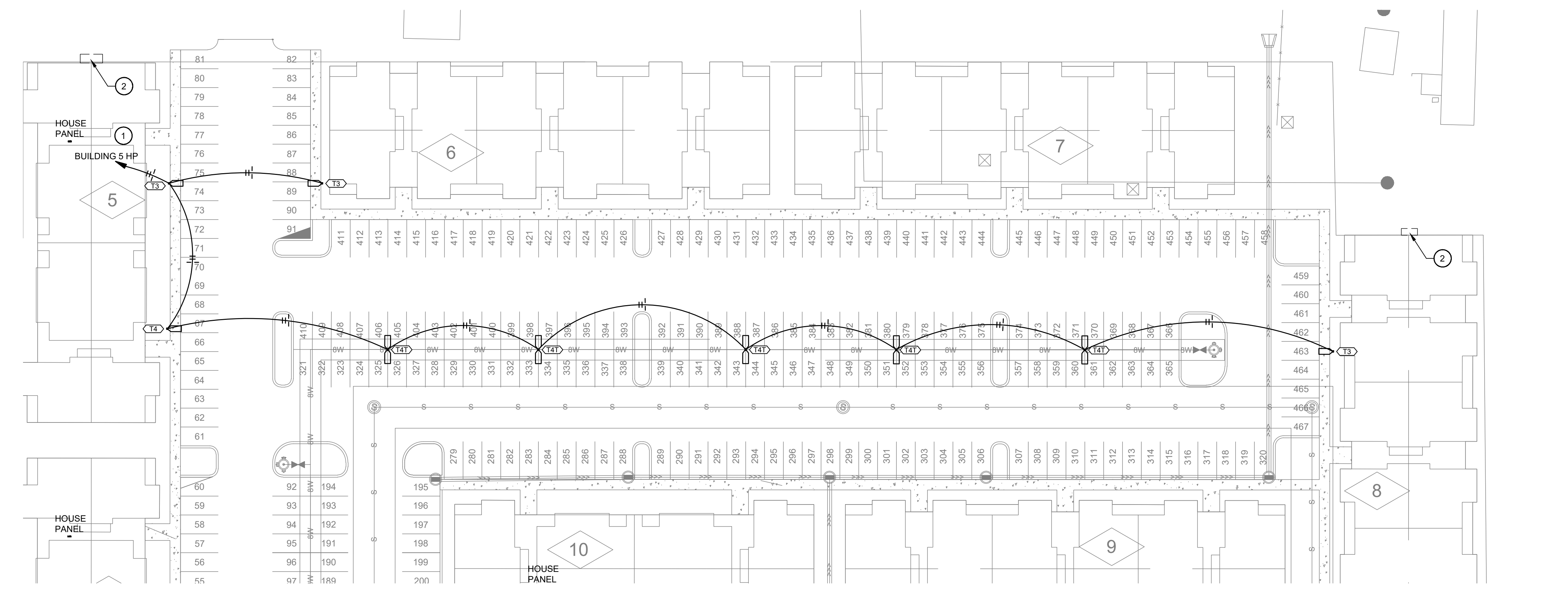


**1 OVERALL SITE PLAN**  
SCALE: 1/128"=1'-0" 0' 64' 128' 256'



**POLE BASE DETAIL**  
NOT TO SCALE

- ① SITE PLAN NOTES:**
- SITE LIGHTING SHALL BE OPERATED BY 240VAC CIRCUITS AND CONTROLLED BY A LIGHTING CONTRACTOR. REFER TO THE RESPECTIVE EXTERIOR LIGHTING CONTROL DIAGRAM DETAIL.
  - NOTED AREAS/BUILDING SIDE SHALL NOT CONTAIN A WALL PACK FIXTURE.

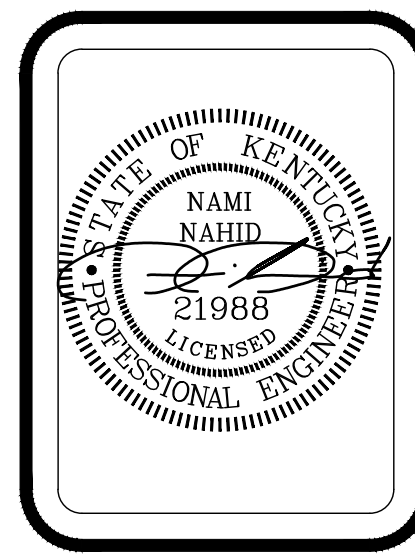


**2 SITE PLAN - NORTHERN HALF**  
SCALE: 1/32"=1'-0"



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**WILLIAMS**  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
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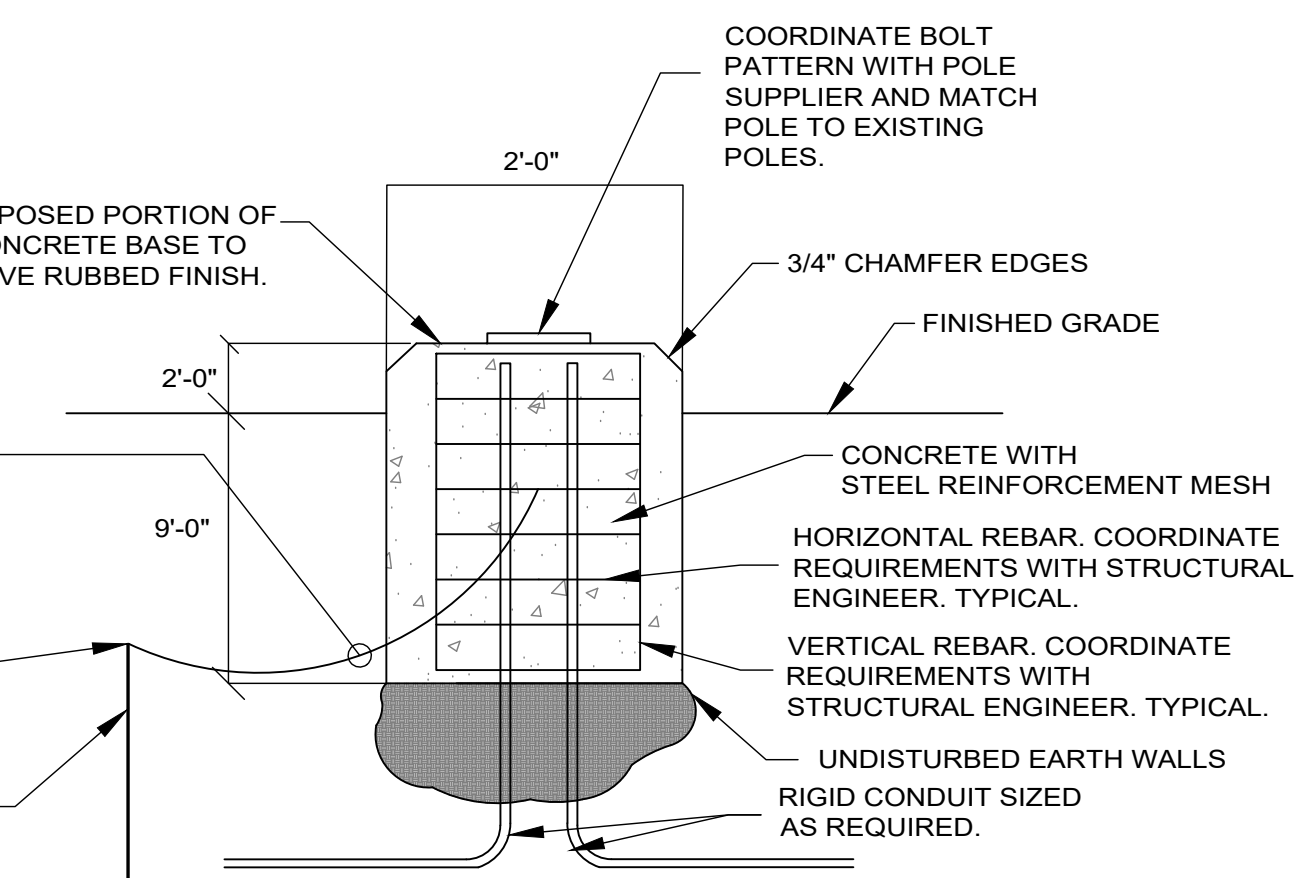
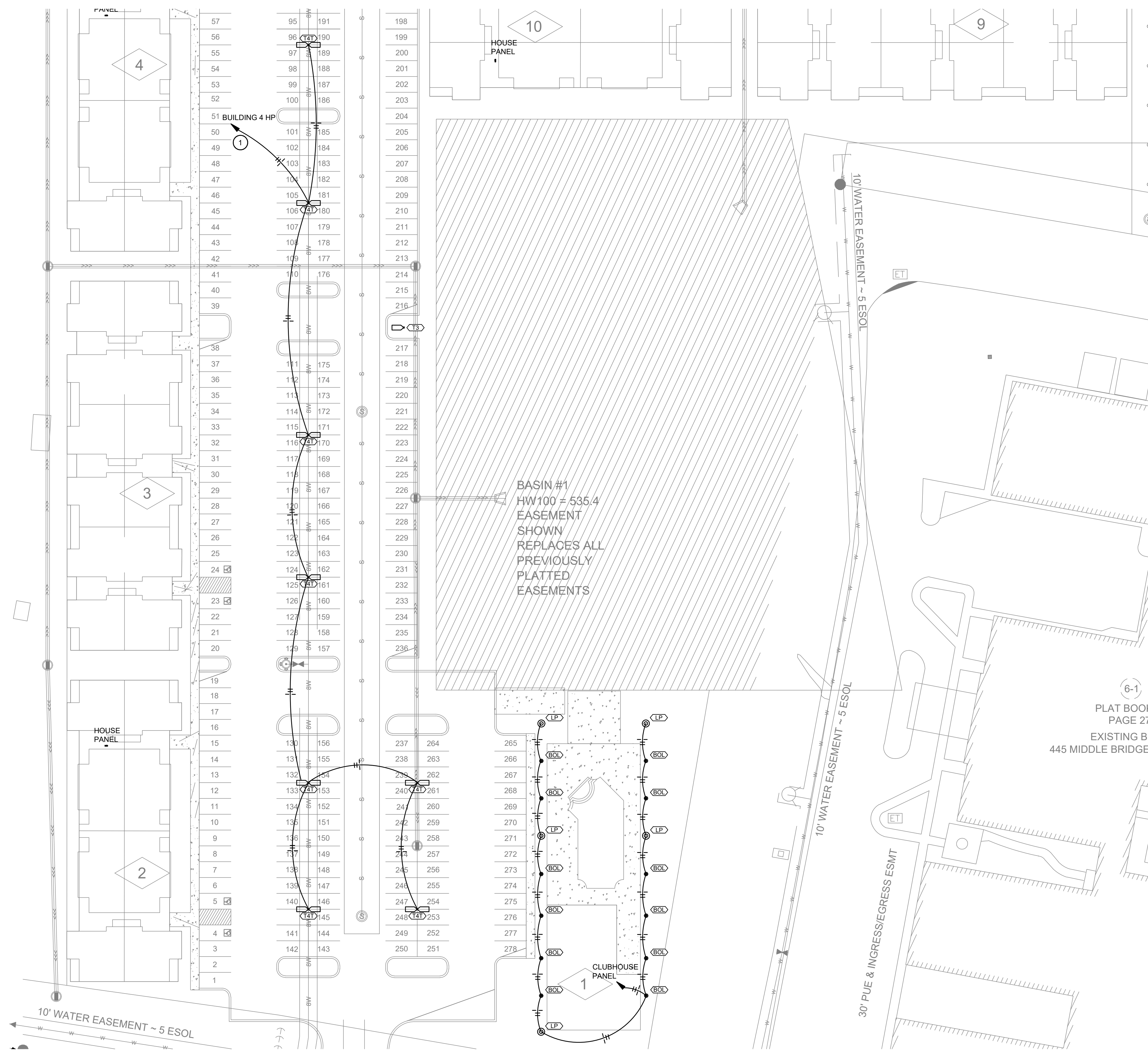

CADD FILE:

DATE: 7-7-22  
DRAWN BY: GT  
CHECKED BY: NN

SHEET TITLE:  
ELECTRICAL  
SITE PLAN

SHEET NO:  
E0.5

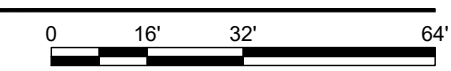




**POLE BASE DETAIL**  
NOT TO SCALE

- Ⓢ SITE PLAN NOTES:**
- SITE LIGHTING SHALL BE OPERATED BY 240VAC CIRCUITS AND CONTROLLED BY A LIGHTING CONTACTOR. REFER TO THE RESPECTIVE EXTERIOR LIGHTING CONTROL DIAGRAM DETAIL.
  - NOTED AREAS/BUILDING SIDE SHALL NOT CONTAIN A WALL PACK FIXTURE.

**1 SITE PLAN - SOUTHERN HALF**  
SCALE: 1/32"=1'-0"

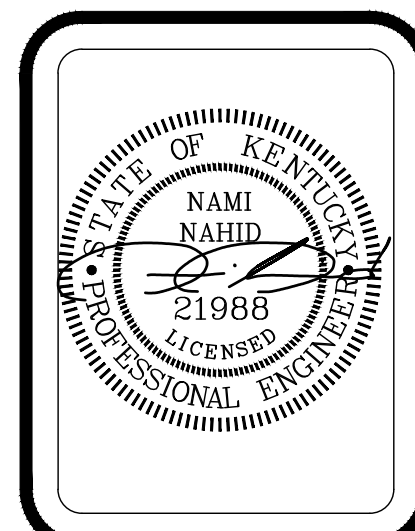


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**MIDDLEBRIDGE APARTMENTS**  
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**WILLIAMS**  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
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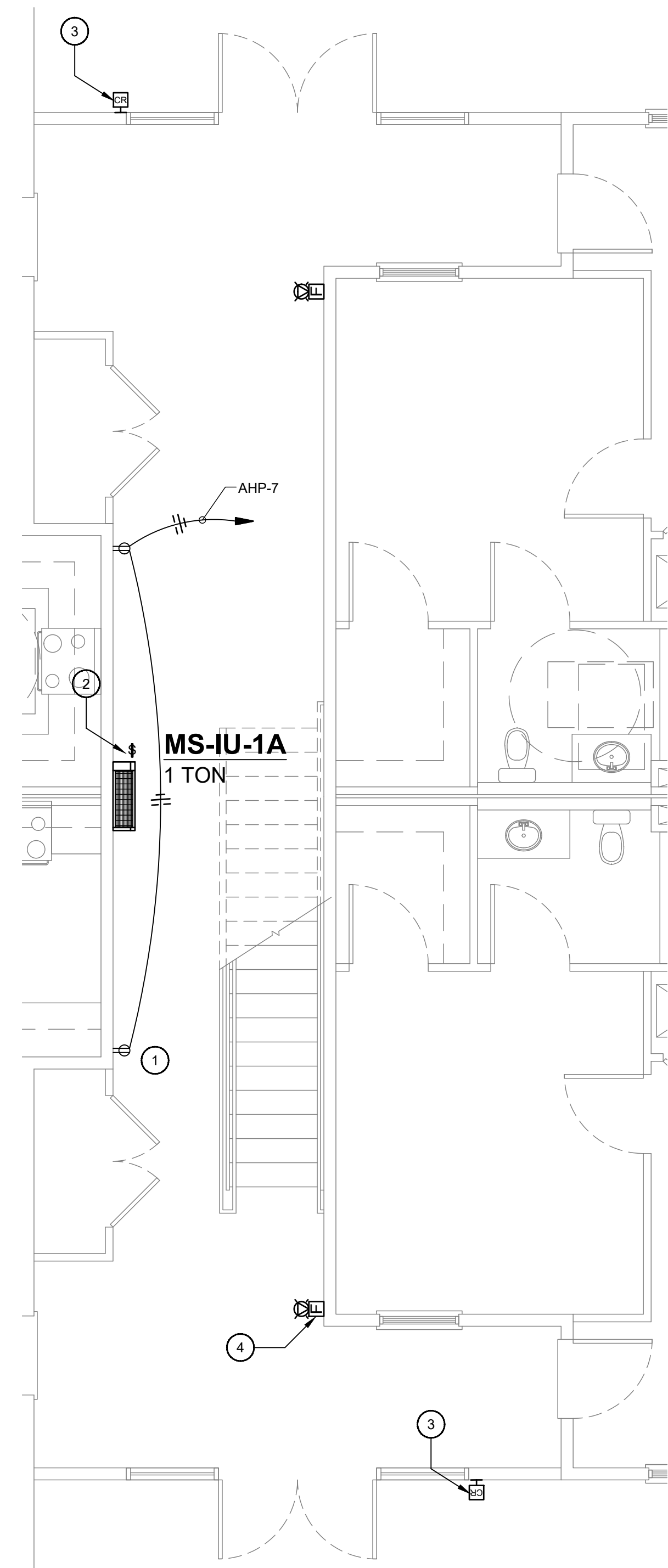

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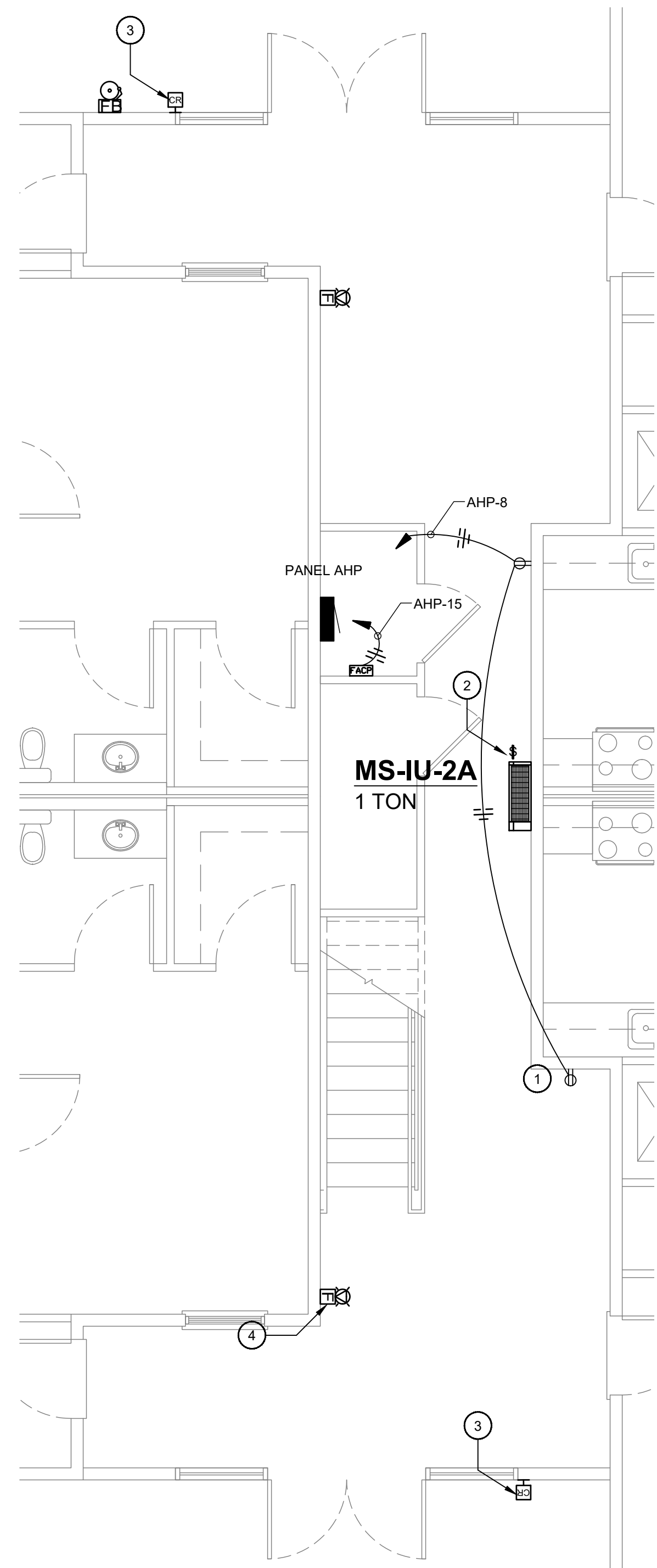
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**ELECTRICAL  
SITE PLAN**

SHEET NO:  
**E0.6**

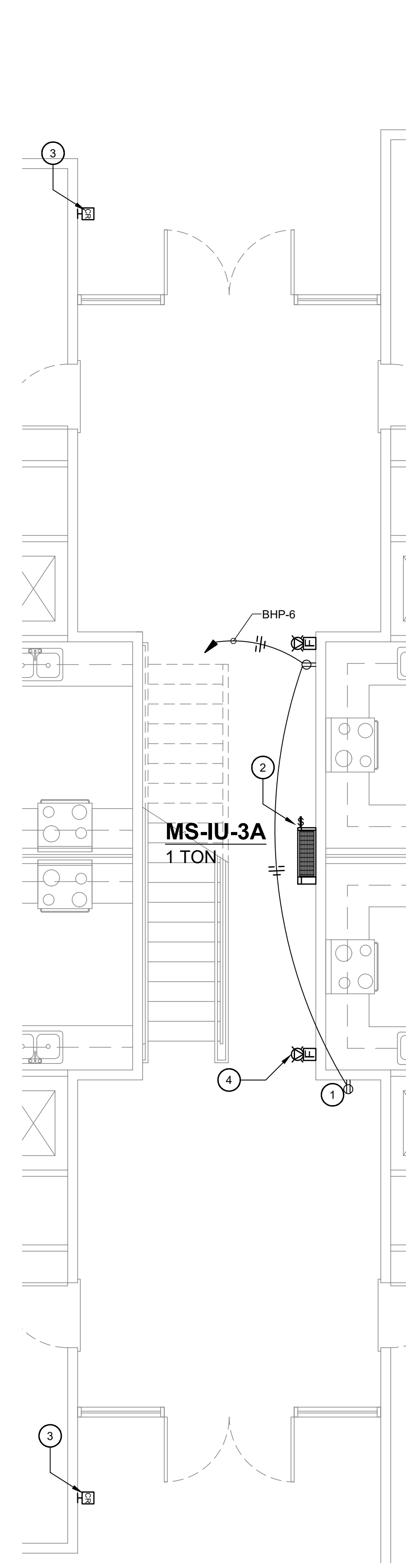




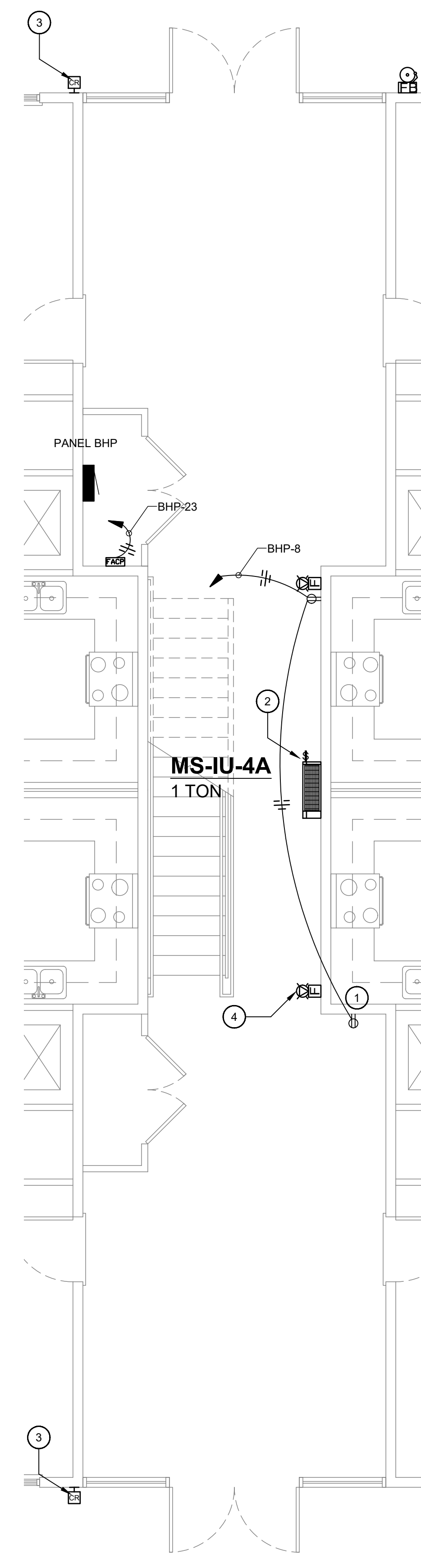
**1** BUILDING A  
LEFT HALL ENLARGEMNET  
SCALE: 1/4"=1'-0"



**2** BUILDING A  
RIGHT HALL ENLARGEMNET  
SCALE: 1/4"=1'-0"



**3** BUILDING B - LEFT/  
RIGHT HALL ENLARGEMENT  
SCALE: 1/4"=1'-0"

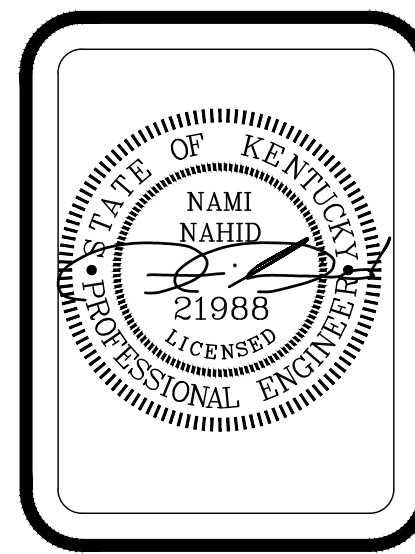


**4** BUILDING B  
MIDDLE HALL ENLARGEMENT  
SCALE: 1/4"=1'-0"

- # HALL POWER NOTES:**
1. RECEPTACLE LAYOUT TYPICAL ON ALL FLOORS. SEE PANEL SCHEDULES.
  2. PROVIDE DPST LOCKABLE MOTOR RATED SWITCH NEAR HVAC EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR FOR ADDITIONAL ELECTRICAL REQUIREMENTS. INDOOR UNIT LAYOUT TYPICAL ON ALL FLOORS.
  3. PROVIDE CARD READERS FOR ENTRY ACCESS. COORDINATE WITH VENDOR FOR INSTALLATION REQUIREMENTS.
  4. FIRE ALARM DEVICES SHALL BE CONNECTED TO THE FIRE ALARM CONTROL PANEL. TYPICAL.

MIDDLEBRIDGE APARTMENTS  
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**WILLIAMS**  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax



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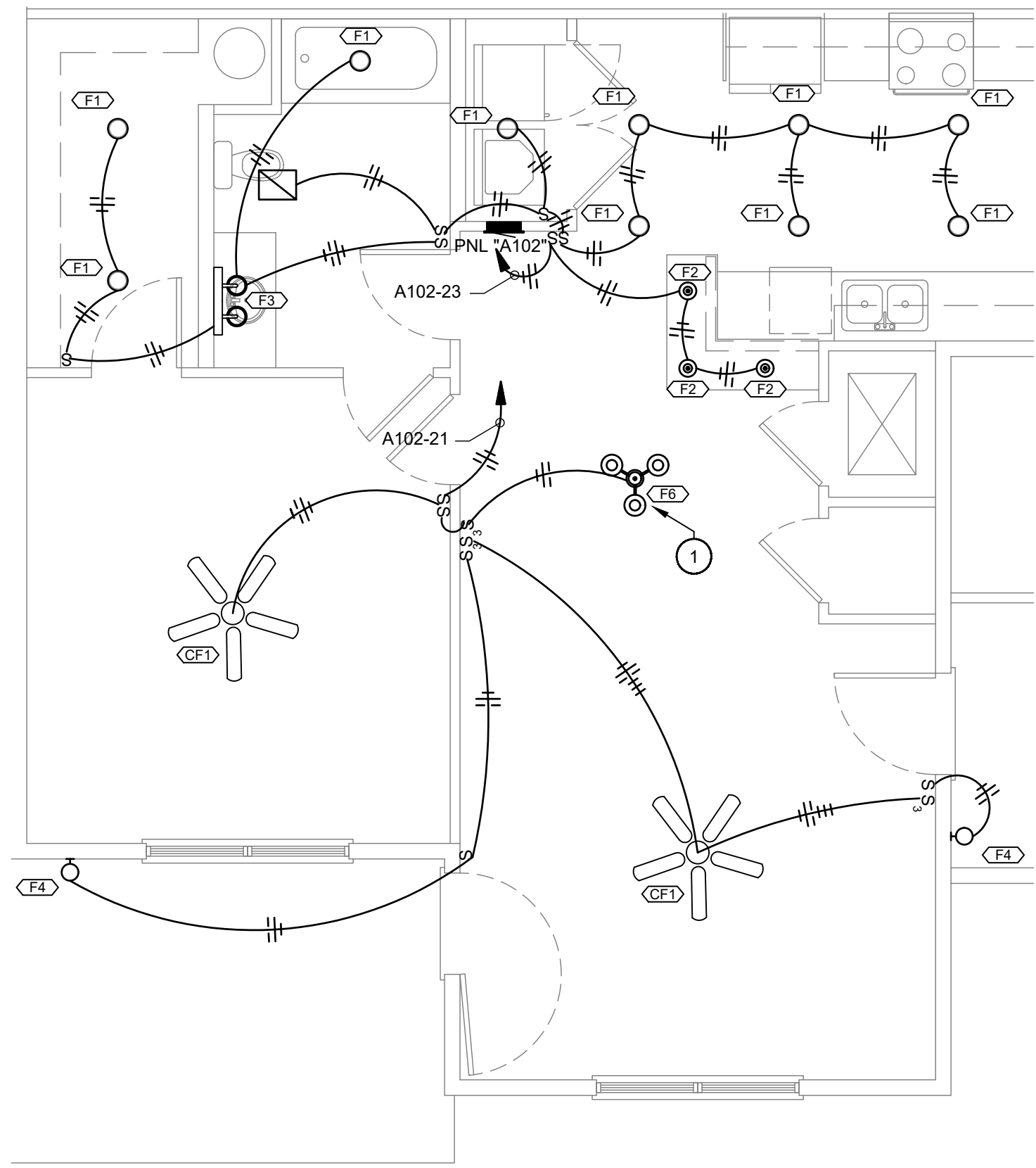
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POWER & SYSTEMS  
HALLWAY  
ENLARGEMENTS

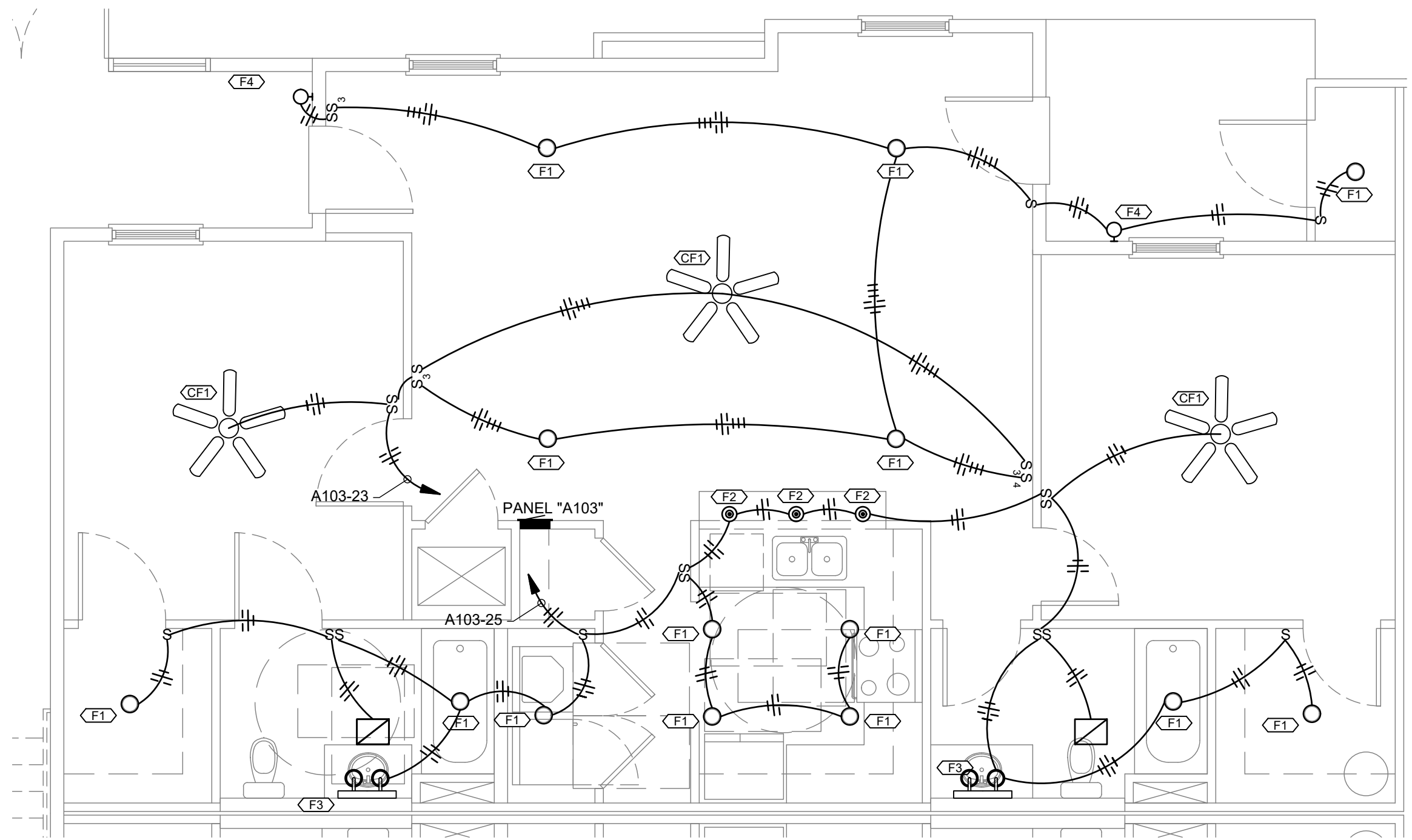
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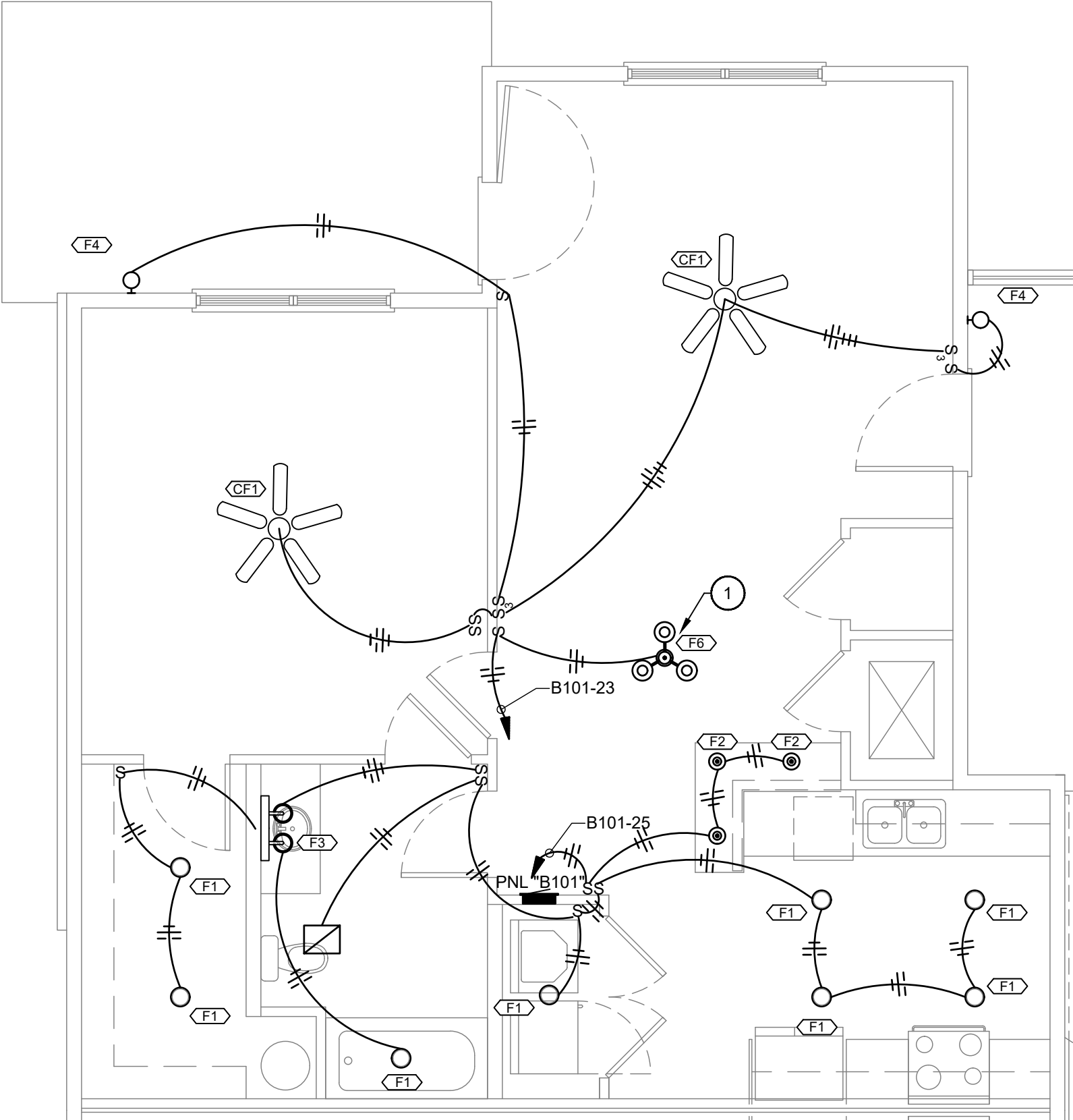




1 A102 - SINGLE BED - LIGHTING ENLARGEMENT  
SCALE: 1/4"=1'-0"



2 A103 - DOUBLE BEDROOM LIGHTING ENLARGEMENT  
SCALE: 1/4"=1'-0"



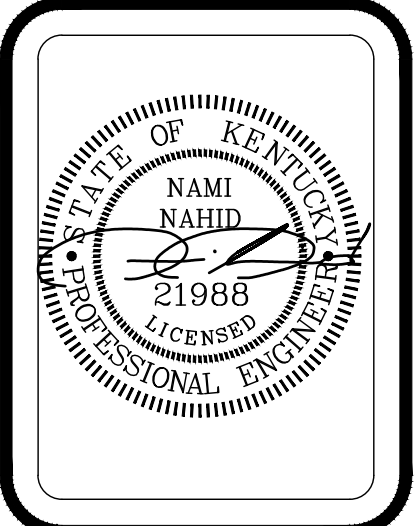
3 B101 - SINGLE BED - LIGHTING ENLARGEMENT  
SCALE: 1/4"=1'-0"

# LIGHTING NOTES:  
1. COORDINATE "F6" LOCATION TO CENTER ARCHITECT'S DINING LOCATION.

MIDDLEBRIDGE APARTMENTS  
MIDDLEBRIDGE ROAD  
BOWLING GREEN, KENTUCKY

**WILLIAMS**  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax

**WILLIAMS**  
associates  
architects



REVISIONS:


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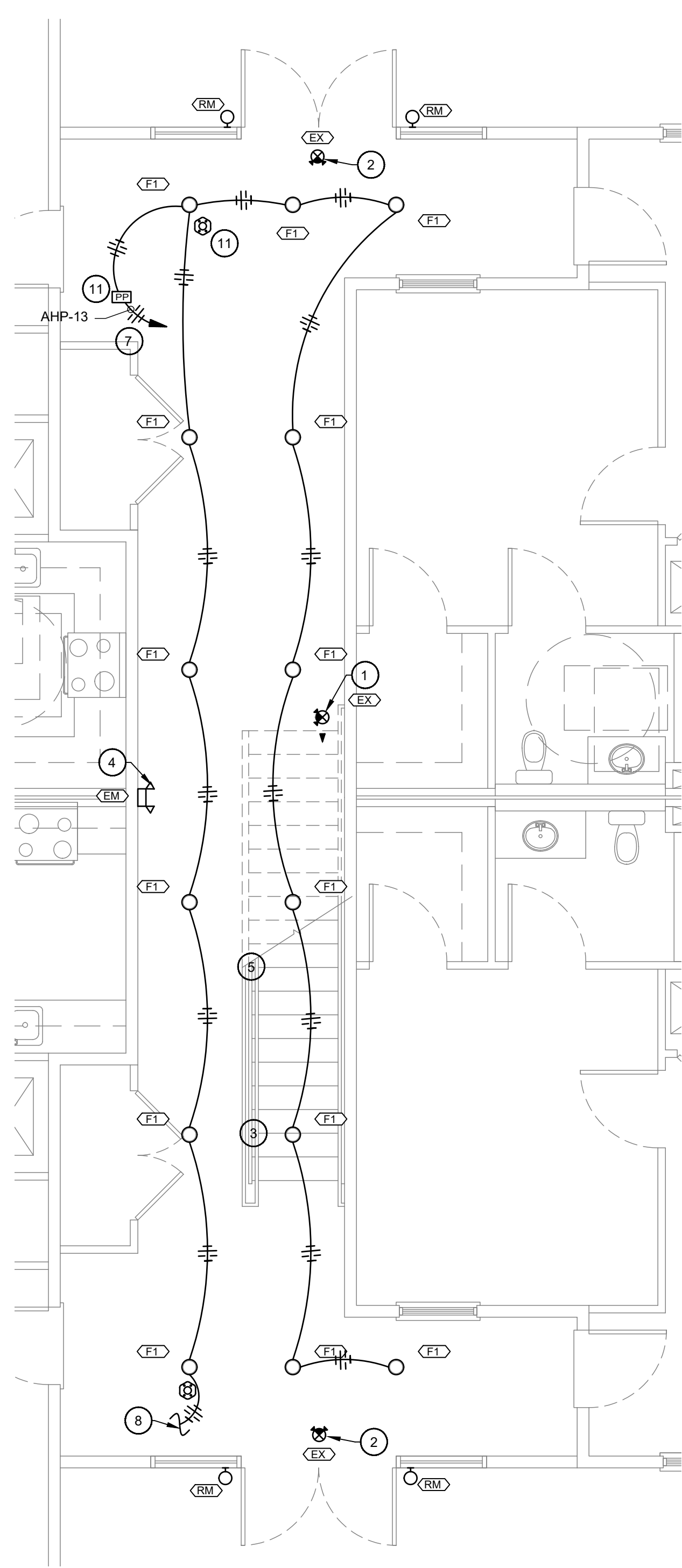
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LIGHTING APARTMENT ENLARGEMENTS

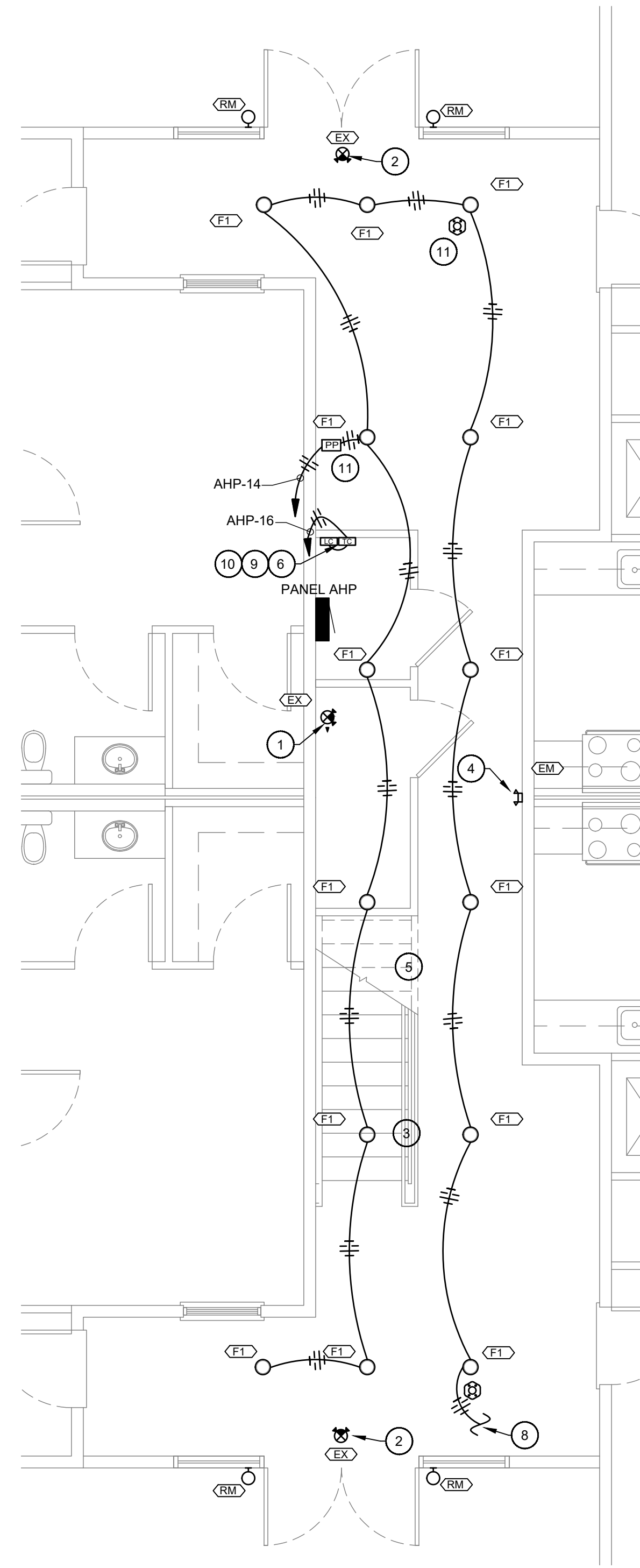
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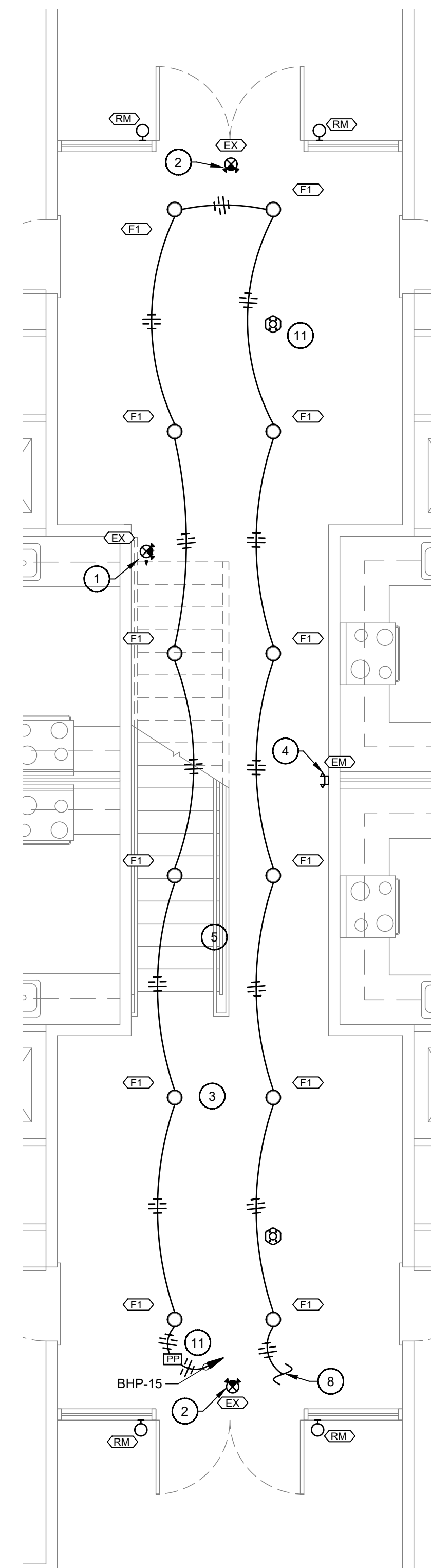




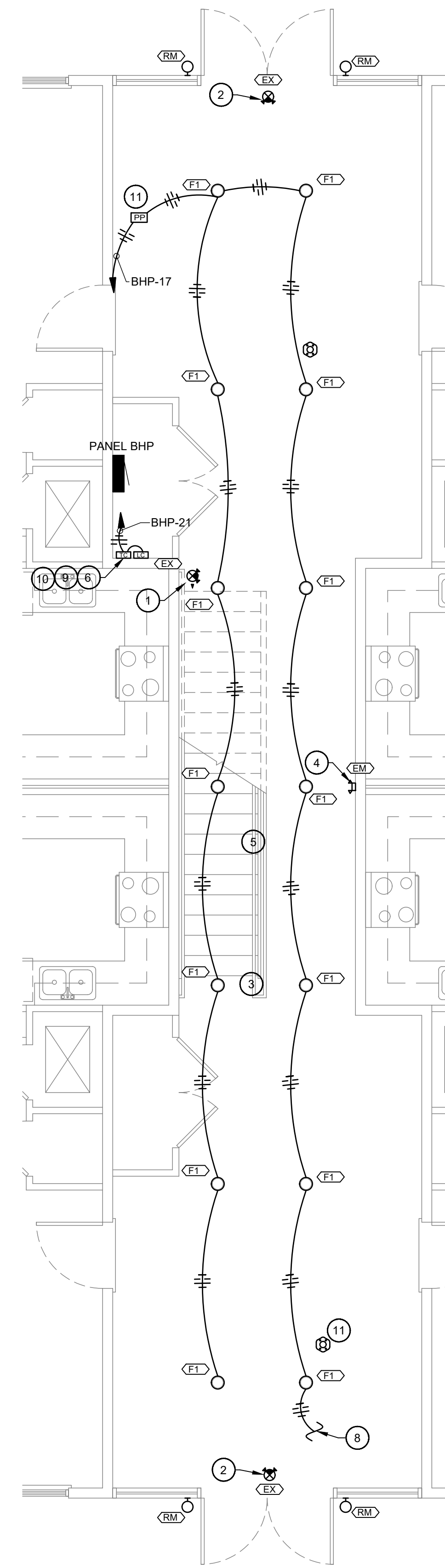
**1** BUILDING A  
LEFT HALL ENLARGEMNET  
SCALE: 1/4"=1'-0"



**2** BUILDING A  
RIGHT HALL ENLARGEMNET  
SCALE: 1/4"=1'-0"



**3** BUILDING B - LEFT/  
RIGHT HALL ENLARGEMENT  
SCALE: 1/4"=1'-0"

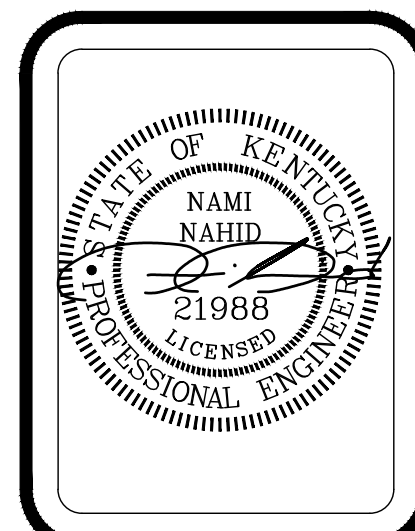


**4** BUILDING B  
MIDDLE HALL ENLARGEMENT  
SCALE: 1/4"=1'-0"

- # LIGHTING NOTES:**
- EXIT "EX" FIXTURE SHALL BE PLACED AT TOP OF EACH STAIRWELL.
  - EXIT "EX" FIXTURES AT END OF COORIDORS SHALL BE PLACED ABOVE EXIT DOORS ON BASE LEVEL.
  - "F1" FIXTURES IN THE CORRIDOR SHALL BE COORDINATED WITH THE STAIRWELL LOCATION. TYPICAL.
  - "EM" FIXTURE SHALL BE PLACED ON OPPOSITE SIDE OF COORIDOR OF STAIRWELL. TYPICAL.
  - "EM" AND "EX" FIXTURES SHALL RECEIVE AN UNSWITCHED HOT CONDUCTOR. TYPICAL.
  - TIME CLOCK SHALL BE RATED FOR 120V WITH 20A CONTACTS AND WITHIN A NEMA 1 ENCLOSURE. TYPICAL.
  - NOT USED.
  - LIGHTING CIRCUIT SHALL CONTINUE TO CONNECT TO ABOVE FLOORS. CORRIDOR CAN LIGHTING LAYOUT INDICATED TYPICAL ON ALL FLOORS. EACH FLOOR TO HAVE SAME LIGHTING CONTROLS AS DESIGNED ON FIRST FLOOR. SWITCH EACH FLOOR SEPARATELY.
  - REFER TO RESPECTIVE EXTERIOR LIGHTING CONTROL DIAGRAM.
  - REFER TO SITE PLAN FOR SPECIFIC BUILDING CONTROL REQUIREMENTS AND OMIT LIGHTING CONTACTOR AS NECESSARY.
  - ACUITY BRANDS PP20 OR ENGINEER APPROVED EQUIVALENT POWER PACK TO BE INSTALLED IN CORRIDORS. POWER PACK TO POWER COMPATIBLE LOW VOLTAGE CEILING SENSORS. CEILING SENSORS TO BE DUAL TECHNOLOGY, AND COVER FULL LENGTH OF CORRIDOR.

MIDDLEBRIDGE APARTMENTS  
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**WILLIAMS**  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax



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SHEET TITLE:  
LIGHTING  
HALLWAY  
ENLARGEMENTS

SHEET NO:  
E2.1



### COOPER POE LIGHTING LEGEND

	DSRC-FMOIR	OPEN LOOP DAYLIGHT SENSOR/IR RECEIVER	6
	LVC-15P	DLVP PLENUM RATED CABLE 15FT	77
	LVC-30P	DLVP PLENUM RATED CABLE 30FT	30
	LVC-COUPLER	DLVP PLENUM RATED COUPLER	5
	LVPM-03-100-03-1E	300W LOW-VOLTAGE POWER MODULE WITH EMERGENCY CIRCUIT	11
	LVPM-06-100-03-1E	600W LOW-VOLTAGE POWER MODULE WITH EMERGENCY CIRCUIT	4
	OAC-DT-0501	500 SQ FT DUAL TECH LOW VOLTAGE OCCUPANCY CEILING SENSOR (MOUNT UP TO 12')	4
	OAC-DT-1000	1000 SQ FT DUAL TECH LOW VOLTAGE OCCUPANCY CEILING SENSOR (MOUNT UP TO 12')	12
	OCC-RJ45	INPUT/OUTPUT DEVICE	15
	OXC-P-1500-R	PIR EXTREME TEMPERATURE SENSOR (MOUNT UP TO 12')	6
	PPS-5	OUTDOOR CONTACT INPUT PHOTOSENSOR	1
	RC-2TLB-OS4-W	2 BUTTON LARGE ZONE WALLSTATION (ALL ON, ALL OFF)	8
	RC-3TLB-Z1D-W	3 BUTTON LARGE ZONE WALLSTATION (ZONE 1, RAISE, LOWER)	7
	RC-6STB-623-W	6 BUTTON LARGE ZONE WALLSTATION (ZONE 1, RAISE 1, LOWER 1, ZONE 2, RAISE 2, LOWER 2)	4
	SP20-MV	20A HEAVY DUTY SWITCHPACK (120/277 VAC)	3

NOTE: FOR ANY QUESTIONS REFERRING TO POE LIGHTING SYSTEM CONTACT SALES REP CRAIG WEST OF ENGINEERED LIGHTING SALES.

### GENERAL AIC NOTE:

CONTRACTOR SHALL COORDINATE WITH THE UTILITY CO. FOR AVAILABLE FAULT CURRENT OF THE UTILITY TRANSFORMER, AND DETERMINE THE MAXIMUM FAULT CURRENT ON THE BUILDING POWER DISTRIBUTION SYSTEM BASED UPON AVAILABLE FAULT CURRENT FROM UTILITY POWER AND MOTOR LOADS ON THE SYSTEM. THE GEAR EQUIPMENT VENDOR SHALL PROVIDE A FAULT CURRENT ANALYSIS WITH PANEL SPECIFICATIONS FOR REVIEW BY THE ENGINEER.

### GENERAL RISER NOTES:

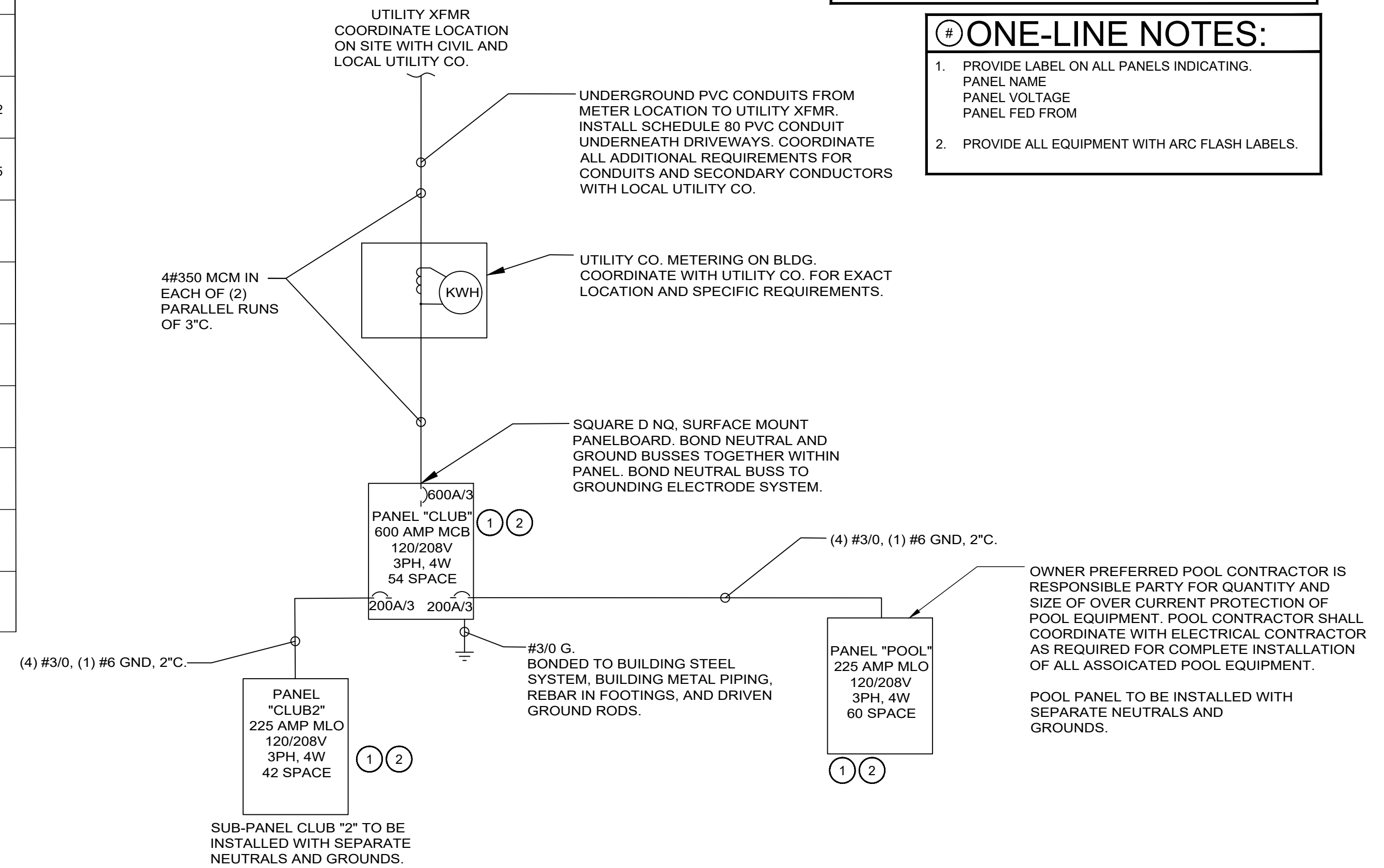
- PROVIDE LABEL ON ALL PANELS INDICATING:  
PANEL NAME  
PANEL VOLTAGE  
PANEL FED FROM
- PROVIDE ALL EQUIPMENT WITH ARC FLASH LABELS.

### ONE-LINE NOTES:

- PROVIDE LABEL ON ALL PANELS INDICATING:  
PANEL NAME  
PANEL VOLTAGE  
PANEL FED FROM
- PROVIDE ALL EQUIPMENT WITH ARC FLASH LABELS.

### CLUBHOUSE LIGHTING FIXTURE SCHEDULE

Symbol	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	Single	HC640DLV-HM634835-61WDHWF	0.950	3797	40	680
	Single	HC630DLV-HM634835-61WDHWF	0.950	2708	26	1170
	Single	HC630DLV-HM634835-61WDHWF	0.950	2708	26	208
	Single	LSRSPC2B20WFL558035D010R-P	0.950	1643	20.9	62.7
	Single	LSRSUD2B20WFL558035D010R-MB	0.950	1761	20.9	104.5
	Single	LSRSUD2B20WFL558035D010REM-V14-MB	0.950	1761	20.9	62.7
	Single	HC615DLVHM612835-61WDHWF	0.950	1355	14	350
	Single	HC615DLVEM14HM612835-61WDHWF	0.950	1355	14	28
	Single	LPX7SDDLVP	1.000	108	1.1	7.7



### ELECTRICAL ONE-LINE DIAGRAM - CLUBHOUSE

NOT TO SCALE

#### PANEL "CLUB" 208Y/120 VOLT 600 AMP 3 PHASE 4 WIRE MCB PANELBOARD

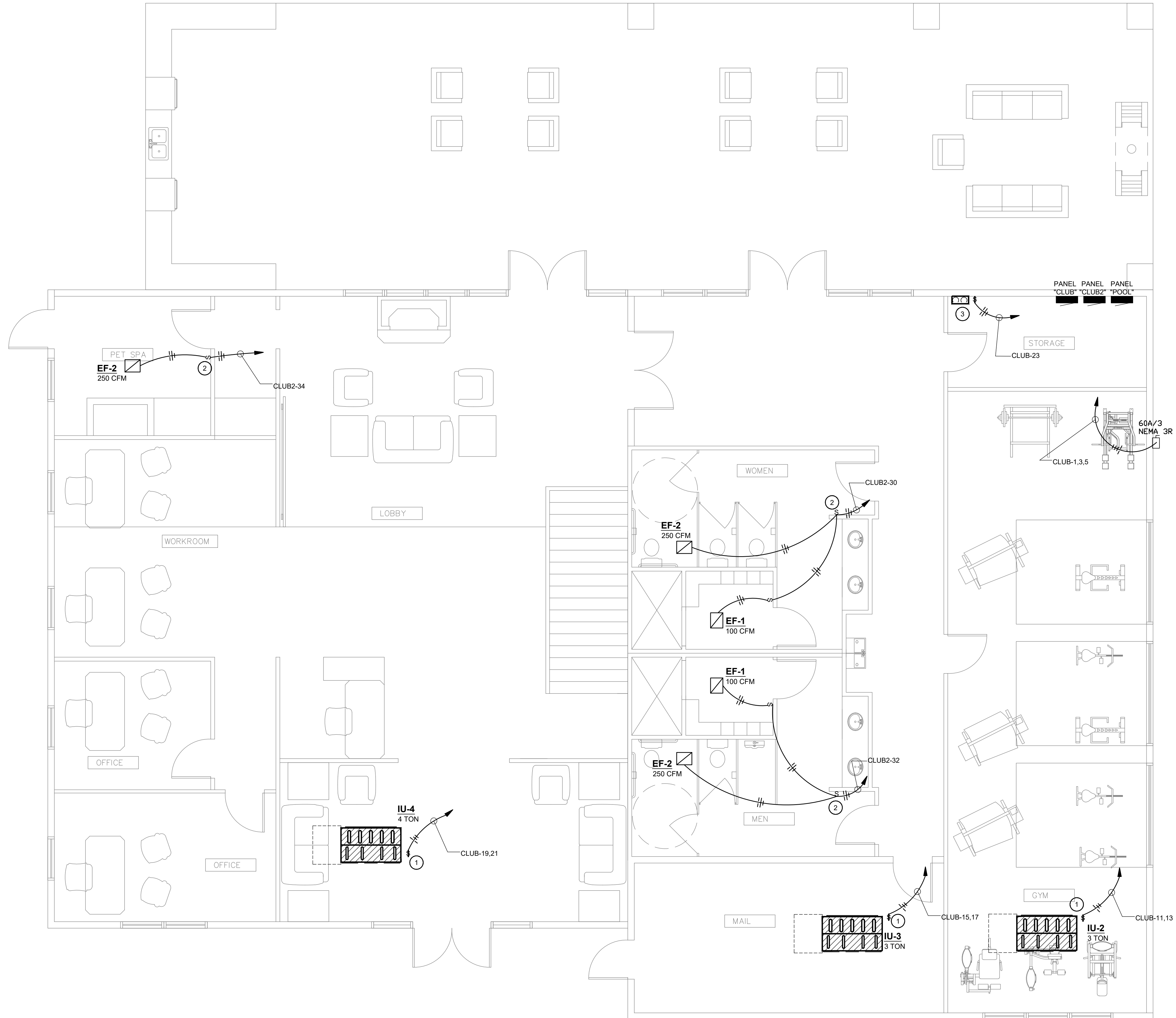
CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE	A	B	C	CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE
1				15012			2			
3	CJ-1	60A/3	3#6, 1#6 G, 1" C		15012		4	GYM OVERHEAD DOOR	30A/3	3#10, 1#10 G, 3/4" C
5						15012	6			
7	IJ-1	15A/2	2#12, 1#12 G, 3/4" C	1925			8			
9					1925		10	GYM OVERHEAD DOOR	30A/3	3#10, 1#10 G, 3/4" C
11	IJ-2	15A/2	2#12, 1#12 G, 3/4" C		1925	1925	12			
13				1925			14			
15	IJ-3	15A/2	2#12, 1#12 G, 3/4" C		1925		16	GYM OVERHEAD DOOR	30A/3	3#10, 1#10 G, 3/4" C
17					1925	1925	18			
19	IJ-4	15A/2	2#12, 1#12 G, 3/4" C	2029			20			
21					2029		22	CONF OVERHEAD DOOR	30A/3	3#10, 1#10 G, 3/4" C
23	WATER HEATER	20A/1	2#12, 1#12 G, 3/4" C			2041	24			
25	RECEPT FOR CIR. PUMP PLUG	20A/1	2#12, 1#12 G, 3/4" C	540			26	IT QUAD	20A/1	2#12, 1#12 G, 3/4" C
27	GYM RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C		1520		28	UC REF	20A/1	2#12, 1#12 G, 3/4" C
29	GYM RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C			1160	30	UC REF	20A/1	2#12, 1#12 G, 3/4" C
31	GYM RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C	720			32	OUTSIDE COUNTER RECPS	20A/1	2#12, 1#12 G, 3/4" C
33	GYM RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C			900	34	OUTSIDE COUNTER RECPS	20A/1	2#12, 1#12 G, 3/4" C
35	GYM FLOOR BOXES	20A/1	2#12, 1#12 G, 3/4" C			900	36	OUTSIDE RECEPTACLES	20A/1	2#12, 1#12 G, 3/4" C
37	GYM FLOOR BOXES	20A/1	2#12, 1#12 G, 3/4" C	2040			38	RESTROOM GFIS	20A/1	2#12, 1#12 G, 3/4" C
39	EXTERIOR RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C		1860		40	RESTROOM GFIS	20A/1	2#12, 1#12 G, 3/4" C
41	2ND FLOOR CONF RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C			1400	42	WATER FOUNTAIN	20A/1	2#12, 1#12 G, 3/4" C
43	SPARE	20A/1					44			
45	SPARE	20A/1					46			
47							48			
49							50			
51							52			
53							54			

\*\*\*PANEL "CLUB" TO BE INSTALLED WITH (2) 200A/3 SUB-FEED BREAKERS AS INDICATED ON ONE-LINE.

#### PANEL "CLUB 2" 208Y/120 VOLT 225 AMP 3 PHASE 4 WIRE MLO PANELBOARD

CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE	A	B	C	CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE	
1	2ND FLOOR CONF FLOOR BOXES	20A/1	2#12, 1#12 G, 3/4" C	1860		2	2ND FLOOR FIREPLACE	20A/1	2#12, 1#12 G, 3/4" C	
3	2ND FLOOR LOBBY	20A/1	2#12, 1#12 G, 3/4" C		2400	4	OUTSIDE FIREPLACE	20A/1	2#12, 1#12 G, 3/4" C	
5	2ND FLOOR RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C		2580	6	1ST FLOOR FIREPLACE	20A/1	2#12, 1#12 G, 3/4" C	
7	2ND FLOOR RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C	1800		8	1ST FLOOR LOBBY RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C	
9	2ND FLOOR RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C		1080	10	1ST FLOOR LOBBY FL BOXES	20A/1	2#12, 1#12 G, 3/4" C	
11	2ND FLOOR RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C		1440	12	WORKROOM RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C	
13	OFFICE WORKSTATION	20A/1	2#12, 1#12 G, 3/4" C	720		14	WORKROOM WORKSTATION	20A/1	2#12, 1#12 G, 3/4" C	
15	OFFICE GEN RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C		1080	16	WORKROOM WORKSTATION	20A/1	2#12, 1#12 G, 3/4" C	
17	OFFICE WORKSTATION	20A/1	2#12, 1#12 G, 3/4" C		900	18	VESTIBULE RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C	
19	OFFICE GEN RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C	1620		20	VESTIBULE RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C	
21	LOBBY RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C		900	22	LOBBY DESK RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C	
23	PET SPA WP/GFTS	20A/1	2#12, 1#12 G, 3/4" C		1980	24	MAIL RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C	
25	LVPMS	20A/1	2#12, 1#12 G, 3/4" C	2068		26	WATER HEAT. SMART PLUG	20A/1	2#12, 1#12 G, 3/4" C	
27	LVPMS	20A/1	2#12, 1#12 G, 3/4" C		2068	28	STORAGE RECEPPTS	20A/1	2#12, 1#12 G, 3/4" C	
29	LVPMS	20A/1	2#12, 1#12 G, 3/4" C		1838	30	BATHROOM EXHAUST FANS	20A/1	2#12, 1#12 G, 3/4" C	
31	LVPMS	20A/1	2#12, 1#12 G, 3/4" C	1838		32	BATHROOM EXHAUST FANS	20A/1	2#12, 1#12 G, 3/4" C	
33	LVPMS	20A/1	2#12, 1#12 G, 3/4" C		1783	34	BATHROOM EXHAUST FAN	20A/1	2#12, 1#12 G, 3/4" C	
35	LVPMS	20A/1	2#12, 1#12 G, 3/4" C		1708	36				
37	LVPMS	20A/1	2#12, 1#12 G, 3/4" C	1708		38				
39	SPARE	20A/1		0		40				
41	SPARE	20A/1			0	42				
Total Load (KVA)			11.6	9.3	10.4					
Total Load (A)			97	78	87					

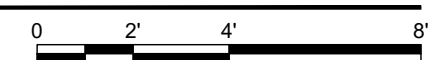




- M&P POWER NOTES:**
1. PROVIDE AND INSTALL A 20A, SPST, MOTOR-RATED SWITCH ON INDOOR UNIT AS A LOCAL DISCONNECTING MEANS. TYPICAL.
  2. PROVIDE AND INSTALL A 20A, SPST, TIMER SWITCH ADJACENT TO POE LIGHTING SWITCH FOR BATHROOM EXHAUST FANS. COORDINATE WITH MECHANICAL FOR TIME-OUT SETTINGS. PROVIDE A VOLTAGE BARRIER IN ANY BACK-BOX CONTAINING POE CABLING AND A 120V LINE. TYPICAL.
  3. PROVIDE AND INSTALL A 20A, SPST, MOTOR-RATED SWITCH ADJACENT TO GAS WATER HEATER AS A LOCAL DISCONNECTING MEANS TO STARTING ELEMENT.

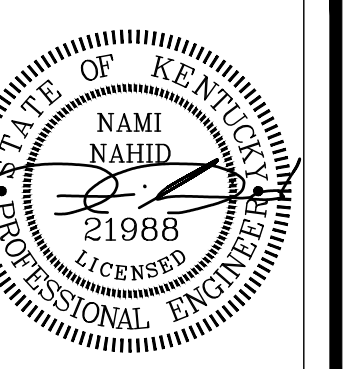
**1 CLUBHOUSE - ELECTRICAL M&P POWER PLANS - FIRST FLOOR**

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



MIDDLEBRIDGE APARTMENTS  
MIDDLEBRIDGE ROAD  
BOWLING GREEN, KENTUCKY

**WILLIAMS**  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax



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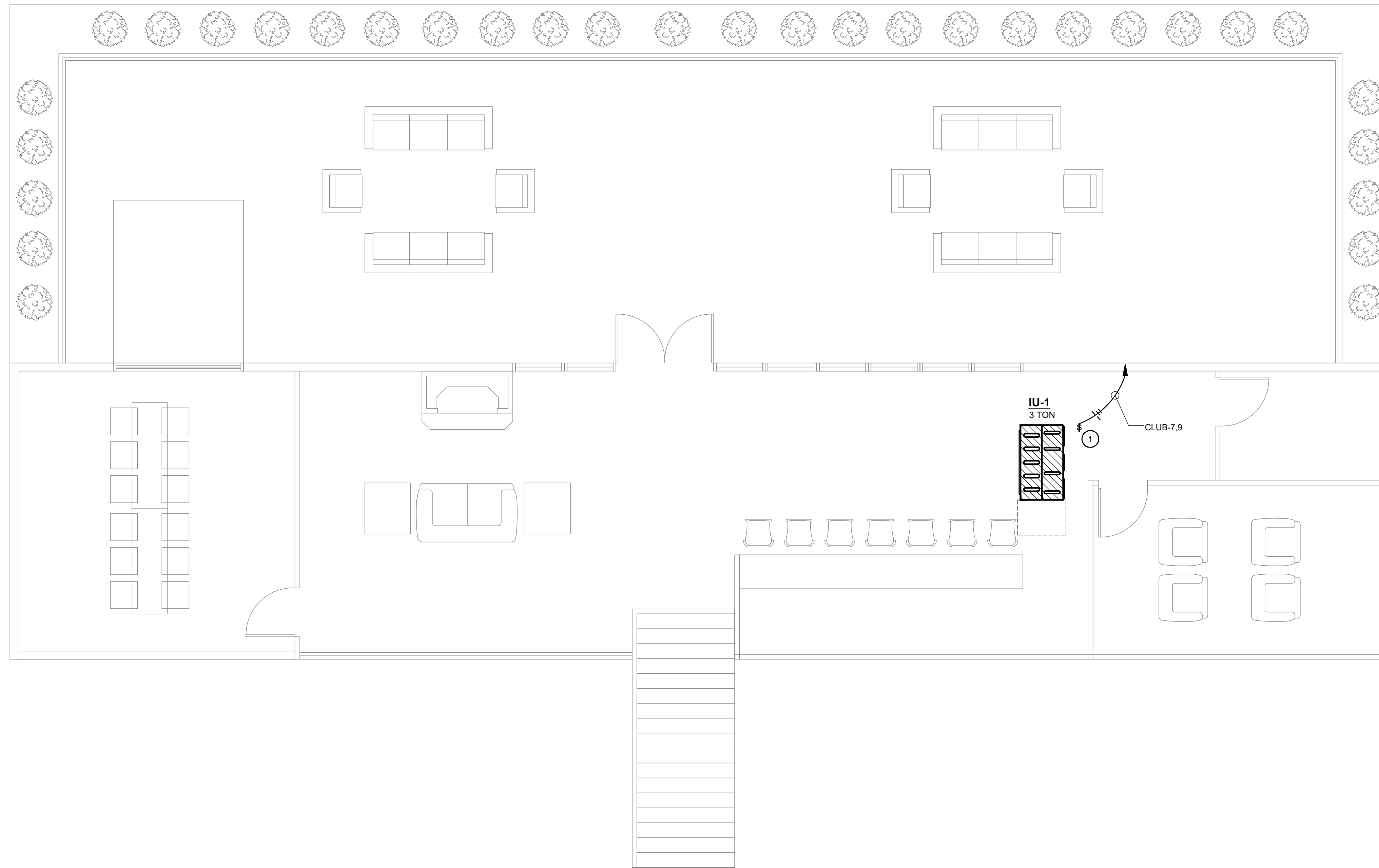

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ELECTRICAL  
M & P POWER PLAN

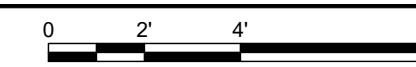
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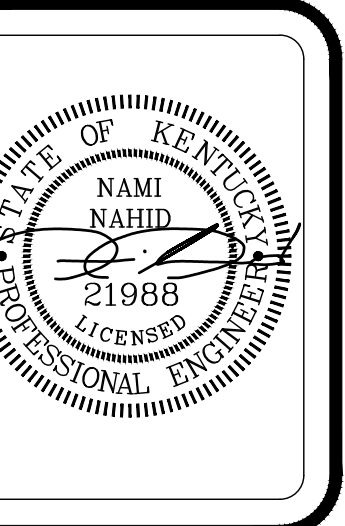
- M&P POWER NOTES:**
1. PROVIDE AND INSTALL A 20A, SPST, MOTOR-RATED SWITCH ON INDOOR UNIT AS A LOCAL DISCONNECTING MEANS. TYPICAL.
  2. PROVIDE AND INSTALL A 20A, SPST, TIMER SWITCH ADJACENT TO POE LIGHTING SWITCH FOR BATHROOM EXHAUST FANS. COORDINATE WITH MECHANICAL FOR TIME-OUT SETTINGS. PROVIDE A VOLTAGE BARRIER IN ANY BACK-BOX CONTAINING POE CABLING AND A 120V LINE. TYPICAL.
  3. PROVIDE AND INSTALL A 20A, SPST, MOTOR-RATED SWITCH ADJACENT TO GAS WATER HEATER AS A LOCAL DISCONNECTING MEANS TO STARTING ELEMENT.

**1 CLUBHOUSE - ELECTRICAL M&P POWER PLANS - SECOND FLOOR**  
 SCALE: 1/4"=1'-0"



MIDDLEBRIDGE APARTMENTS  
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 ASSOCIATE ARCHITECTS  
 John Williams, Architect  
 1136 South Park Drive, Suite 102  
 Bowling Green, KY 42103  
 270-782-2273 270-782-2173 Fax



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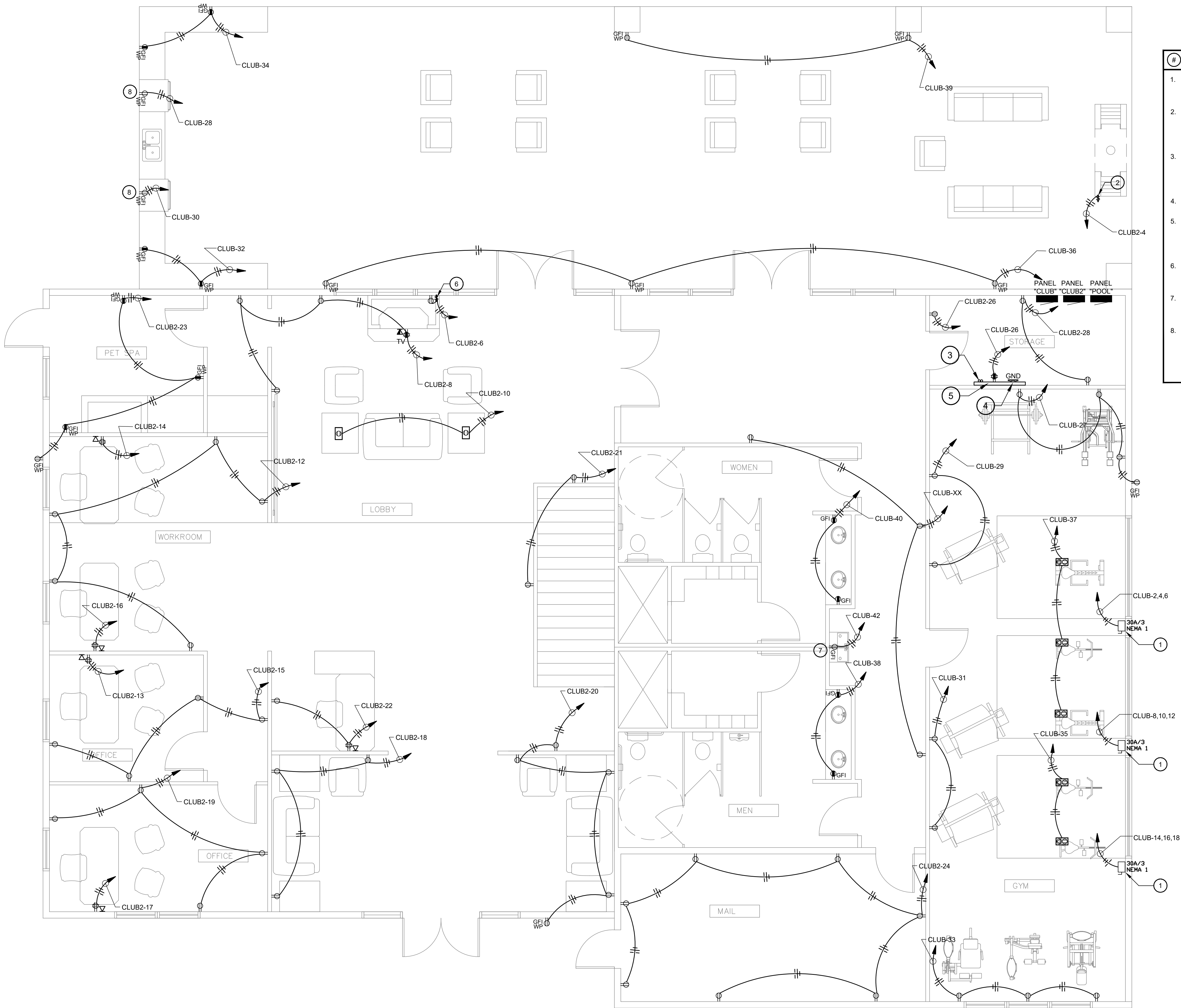

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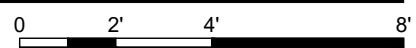


**# POWER & SYSTEMS NOTES:**

1. PROVIDE A FUSIBLE DISCONNECT ADJACENT TO OVERHEAD DOOR OPERATOR. FUSE DOORS TO MATCH MANUFACTURER SPECIFIED MOP UPON FINAL DOOR SELECTION.
2. PROVIDE A 20A, SPST, MOTOR-RATED SWITCH WITH LOCKABLE SWITCH PLATE COVER FOR POWER TO EXTERIOR FIREPLACE. COORDINATE WITH FIREPLACE PROVIDER FOR FINAL TERMINATIONS.
3. PROVIDE (2) 2" CONDUITS FROM COMM CABINET STUBBED INTO ROOM FOR DATA ENTERING BUILDING. COORDINATE WITH PHONE/INTERNET PROVIDER FOR EXACT LOCATION OF COMM CABINET ON SITE.
4. INSTALL TELECOMMUNICATIONS GROUND BUS BAR PER ANSI.
5. PROVIDE AND INSTALL A 4' TALL, 4" WIDE, 3/4" THICK, FIRE-RETARDANT PLYWOOD ALONG WALL FOR SUPPORT OF I.T. EQUIPMENT. PLYWOOD BACKER BOARD SHALL BE PAINTED WITH FIRE-RESISTANT BLACK PAINT.
6. PROVIDE AND INSTALL A 20 AMP SWITCH AND SWITCHED RECEPTACLE FOR FIREPLACE POWER. COORDINATE FINAL TERMINATIONS WITH FIREPLACE PROVIDER.
7. PROVIDE AND INSTALL A GFCI PROTECTED RECEPTACLE FOR WATER FOUNTAIN. COORDINATE ROUGH-IN HEIGHT AND LOCATION WITH PLUMBING.
8. PROVIDE AND INSTALL A WEATHER RATED RECEPTACLE FOR UNDER-CABINET REFRIGERATOR. IT SHALL BE PERMISSIBLE TO PROVIDE FLIP LID STYLE WEATHERPROOF COVERS FOR RECEPTACLES UNDER CANOPY. ALL OTHER EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH IN-USE COVERS.

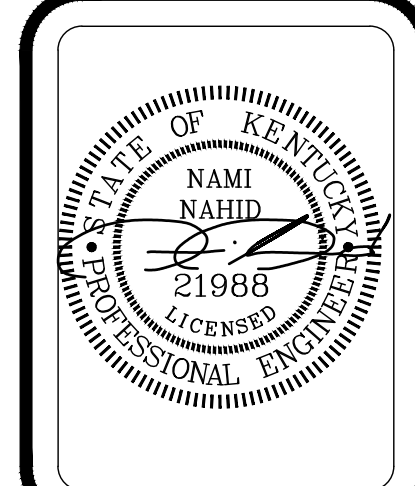
**1 CLUBHOUSE - ELECTRICAL POWER AND SYSTEMS PLANS - FIRST FLOOR**

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



**MIDDLEBRIDGE APARTMENTS  
MIDDLEBRIDGE ROAD  
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ASSOCIATE ARCHITECTS**  
John Williams, Architect  
1136 South Park Drive, Suite 102  
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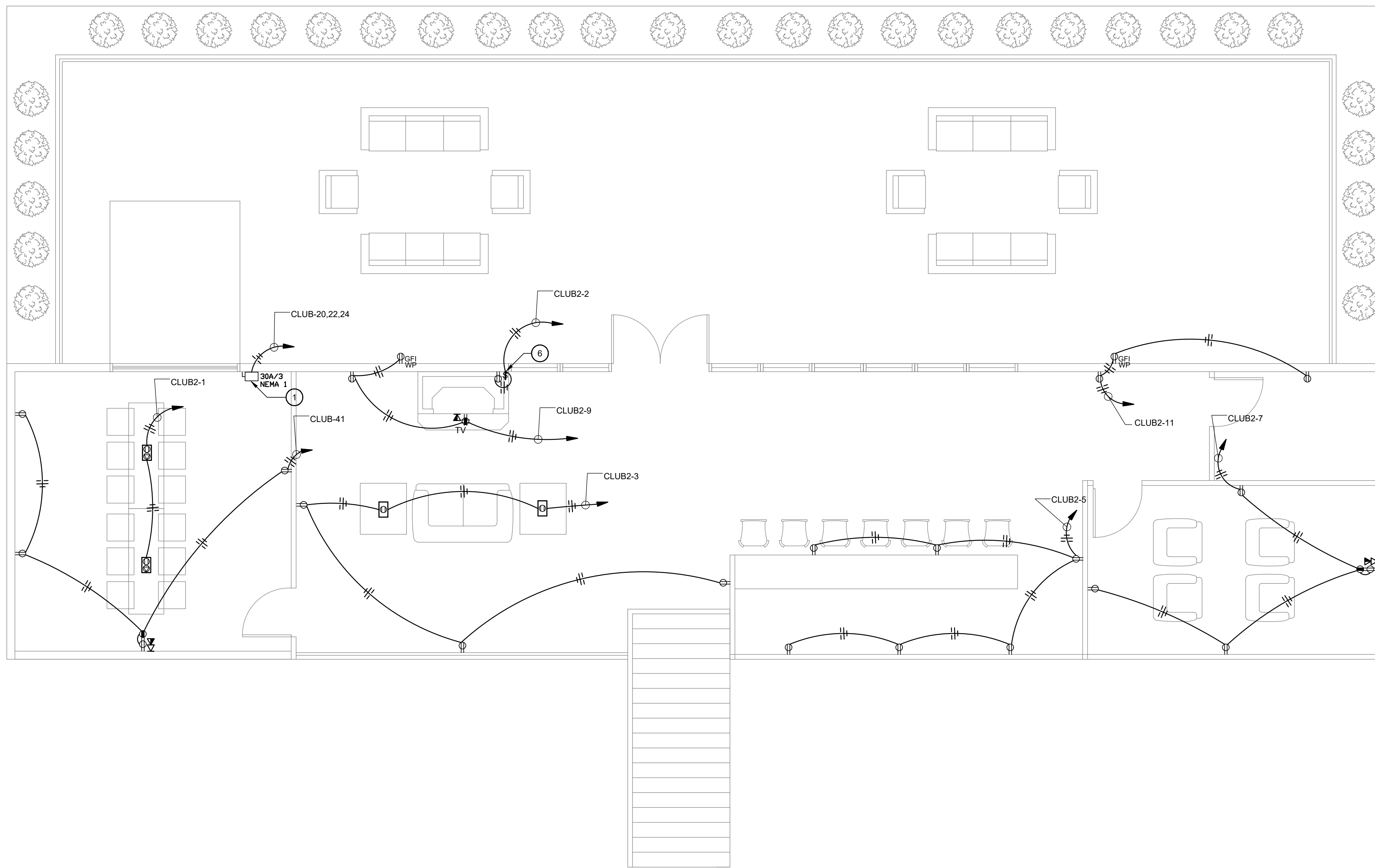

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CLUBHOUSE  
POWER PLAN**

SHEET NO:  
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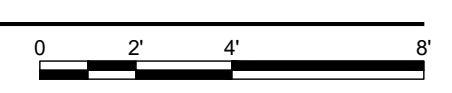




**# POWER & SYSTEMS NOTES:**

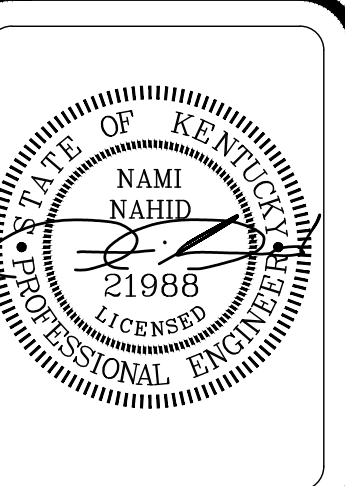
1. PROVIDE A FUSIBLE DISCONNECT ADJACENT TO OVERHEAD DOOR OPERATOR. FUSE DOORS TO MATCH MANUFACTURER SPECIFIED MOP UPON FINAL DOOR SELECTION.
2. PROVIDE A 20A, SPST, MOTOR-RATED SWITCH WITH LOCKABLE SWITCH PLATE COVER FOR POWER TOO EXTERIOR FIREPLACE. COORDINATE WITH FIREPLACE PROVIDER FOR FINAL TERMINATIONS.
3. PROVIDE (2) 2" CONDUITS FROM COMM CABINET STUBBED INTO ROOM FOR DATA ENTERING BUILDING. COORDINATE WITH PHONE/INTERNET PROVIDER FOR EXACT LOCATION OF COMM CABINET ON SITE.
4. INSTALL TELECOMMUNICATIONS GROUND BUS BAR PER ANSI.
5. PROVIDE AND INSTALL A 4' TALL, 4' WIDE, 3/4" THICK, FIRE-RETARDANT PLYWOOD ALONG WALL FOR SUPPORT OF I.T. EQUIPMENT. PLYWOOD BACKER BOARD SHALL BE PAINTED WITH FIRE-RESISTANT BLACK PAINT.
6. PROVIDE AND INSTALL A 20 AMP SWITCH AND SWITCHED RECEPTACLE FOR FIREPLACE POWER. COORDINATE FINAL TERMINATIONS WITH FIREPLACE PROVIDER.
7. PROVIDE AND INSTALL A GFCI PROTECTED RECEPTACLE FOR WATER FOUNTAIN. COORDINATE ROUGH-IN HEIGHT AND LOCATION WITH PLUMBING.
8. PROVIDE AND INSTALL A WEATHER RATED RECEPTACLE FOR UNDER-CABINET REFRIGERATOR. IT SHALL BE PERMISSIBLE TO PROVIDE FLIP LID STYLE WEATHERPROOF COVERS FOR RECEPTACLES UNDER CANOPY. ALL OTHER EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH IN-USE COVERS.

**1 CLUBHOUSE - ELECTRICAL POWER AND SYSTEMS PLANS - SECOND FLOOR**  
SCALE: 1/4"=1'-0"



MIDDLEBRIDGE APARTMENTS  
MIDDLEBRIDGE ROAD  
BOWLING GREEN, KENTUCKY

**WILLIAMS**  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax



REVISIONS:
CADD FILE:
DATE: 7-7-22
DRAWN BY: GT
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SHEET TITLE:  
ELECTRICAL  
CLUBHOUSE  
POWER PLAN

SHEET NO:  
E3.4



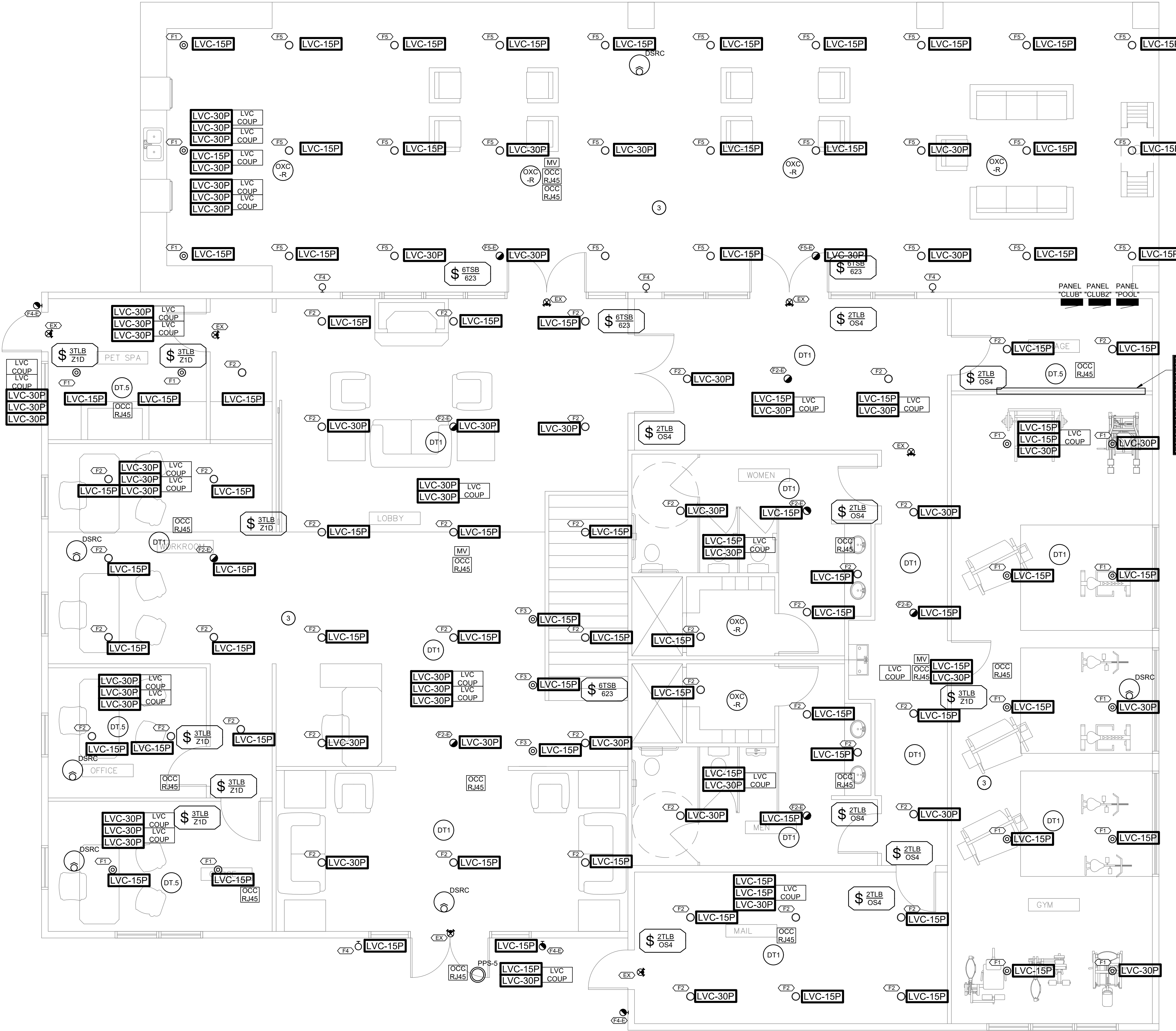
- ④ LIGHTING NOTES:**
- POWER MODULES SHALL BE MOUNTED ALONG PLAN SOUTH WALL OF STORAGE ROOM. CIRCUIT NUMBERS SHOWN ADJACENT TO POWER MODULE SYMBOLS. DO NOT EXCEED (2) LVPM-6 MODULES, AND (4) LVPM-03 MODULES PER 20A/1 CKT. REFER TO MANUFACTURER SPECIFICATIONS FOR WALL MOUNTING ORIENTATION OF POWER MODULES, AS WELL AS ALL SPACING GUIDELINES FOR PROPER HEAT DISSIPATION.
  - PROVIDE SPARE CABLES AND COUPLERS AS INDICATED.
  - REFER TO POE LIGHTING DETAILS FOR CABLING AND INSTALLATION OF POE FIXTURES, SENSORS, SWITCHES, ETC. ALL INSTALLATIONS TO BE PER MANUFACTURER STANDARDS AND THE NEC. COORDINATE WITH LIGHTING SUPPLIER FOR COMPLETE INSTALLATION OF ALL POE LIGHTING SYSTEMS. TYPICAL.
  - POWER MODULES TO INCLUDE INTEGRAL EMERGENCY BATTERIES AS REQD. TO SUPPORT EMERGENCY/EGRESS OPERATION OF POE FIXTURES. TYP.

LVPM-03-EM	LVPM-06-EM
LVPM-03-EM	LVPM-06-EM
LVPM-03-EM	LVPM-06-EM
LVPM-03-EM	LVPM-06-EM
LVPM-03-EM	LVPM-06-EM
LVPM-03-EM	LVPM-06-EM
LVPM-03-EM	LVPM-06-EM
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LVPM-03-EM	LVPM-06-EM

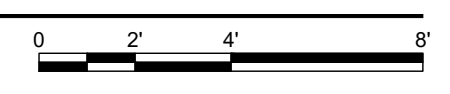
CLUB2-25  
CLUB2-27  
CLUB2-29  
CLUB2-31  
CLUB2-33

SPARE CABLES/COUPLERS

LVC-15P	LVC COUP
LVC-30P	LVC COUP
LVC-30P	LVC COUP
LVC-30P	LVC COUP
LVC-30P	LVC COUP
LVC-30P	LVC COUP
LVC-30P	LVC COUP
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LVC-30P	LVC COUP



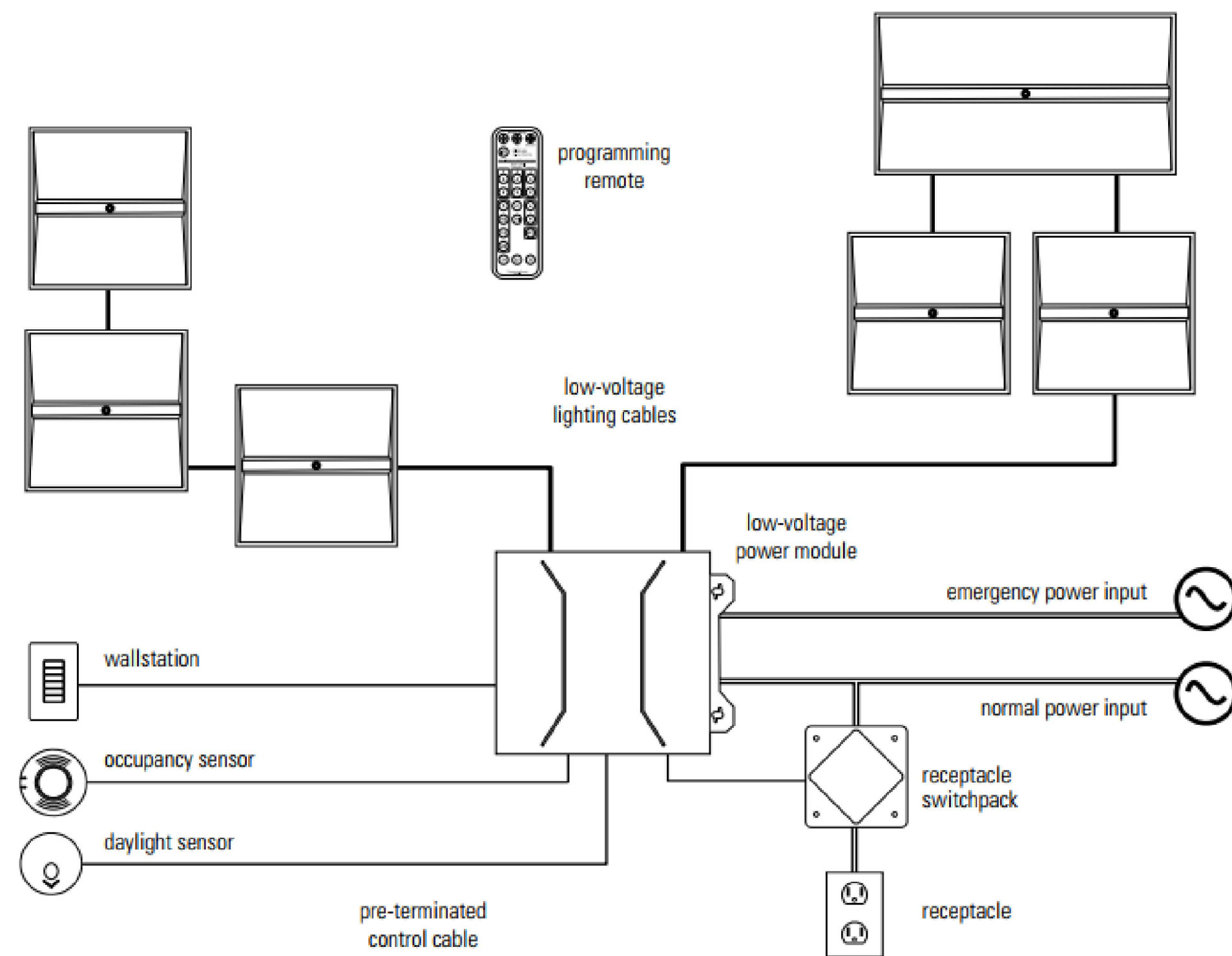
**1** ELECTRICAL LIGHTING PLAN - CLUBHOUSE FIRST FLOOR  
SCALE: 1/4"=1'-0"







# DLVP Wiring Diagram

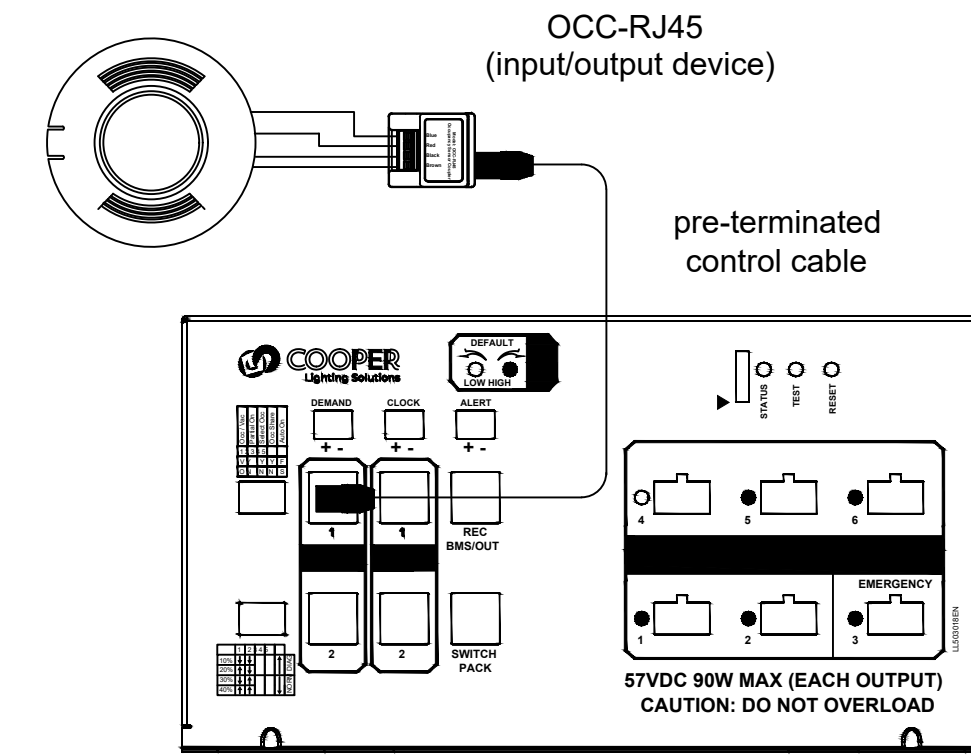


## Greengate - Distributed Low-Voltage Power System Connection

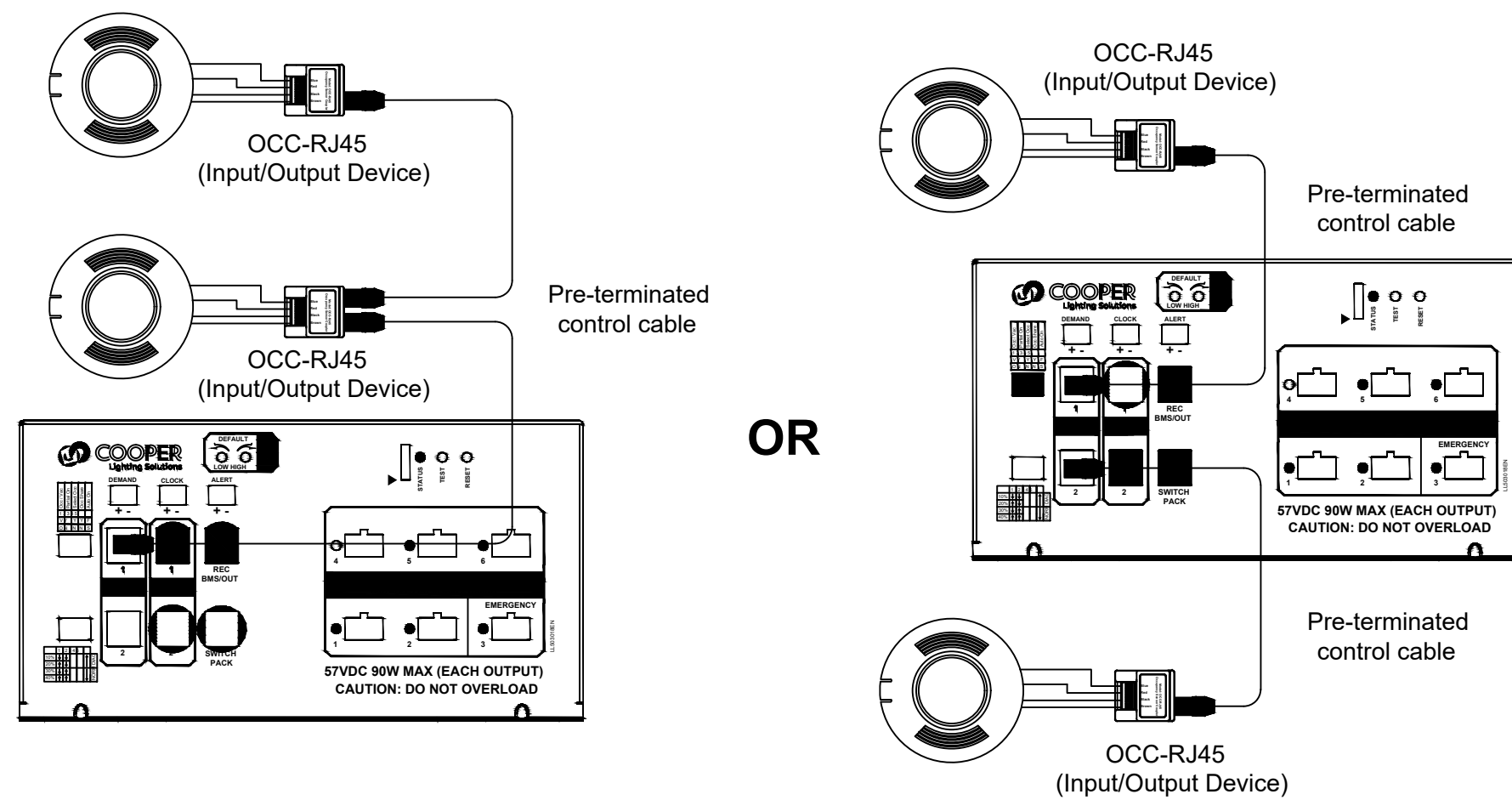
The low-voltage power module is capable of powering up to two (2) total occupancy sensors. Sensors connect using the OCC-RJ45 input/output device and pre-terminated control cables. Once the sensor is mounted, attach the OCC-RJ45 input/output device to the sensor leads matching the wire colors to the label on the input/output device as shown. Connect the input/output device to one of the two (2) sensor ports on the low-voltage power module. Use the shortest lengths of pre-terminated control cable that will reach the input/output device location.

Note: When two (2) sensors are used, they work together to expand the occupancy coverage area, not the number of occupancy sets.

Note: In Selectable Occupancy operation, external motion/occupancy sensors affect the occupancy condition of light fixtures in zone 1 only.

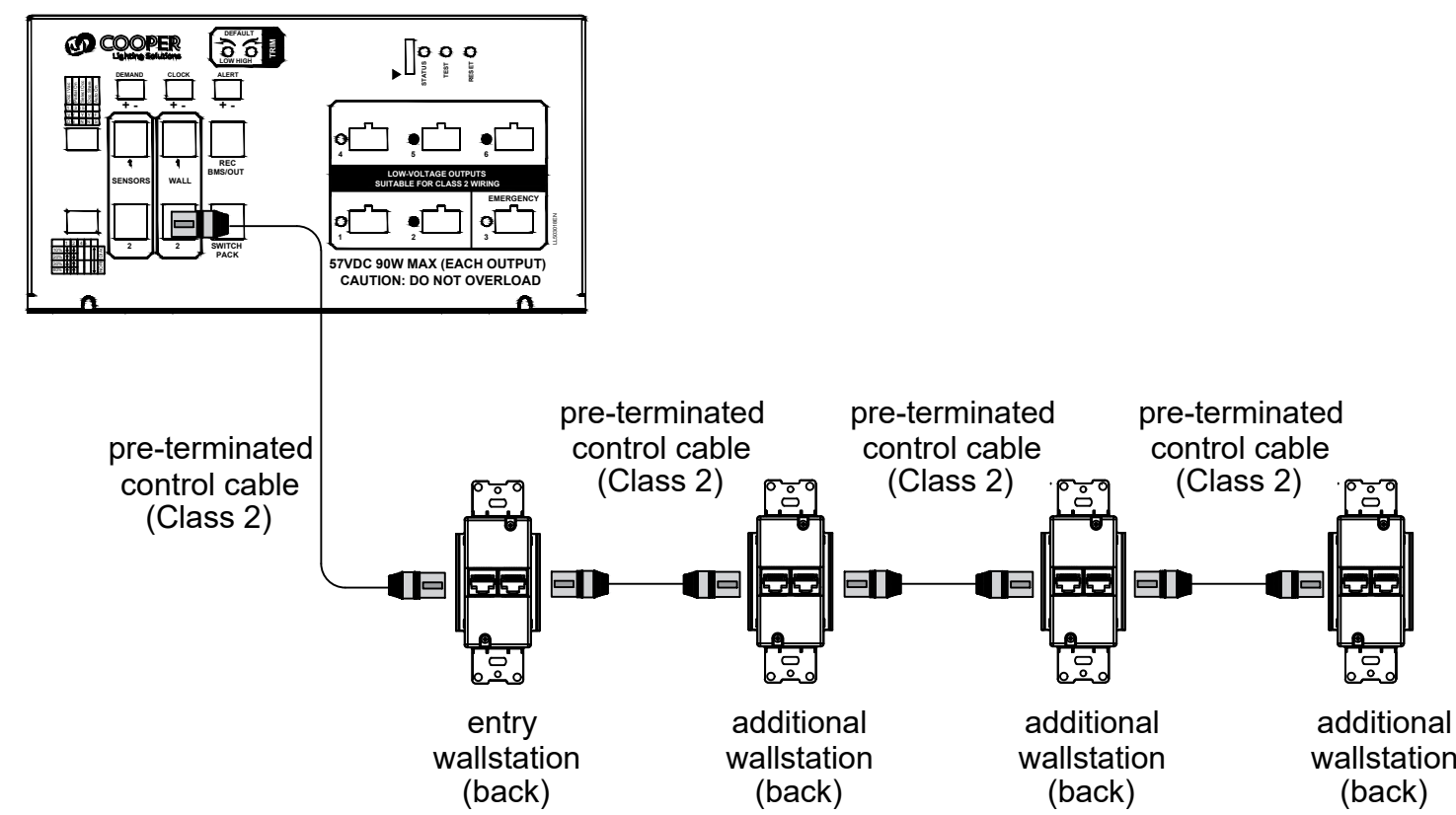


For a larger space that requires two (2) occupancy sensors, the second sensor's input/output device may attach directly to the first sensor's input/output device. It can also be routed to the second sensor RJ45 port on the low-voltage power module as shown.



### 1 POE LIGHTING DETAIL - TYP. DLVP SYSTEM WIRING DIAGRAM

NOT TO SCALE

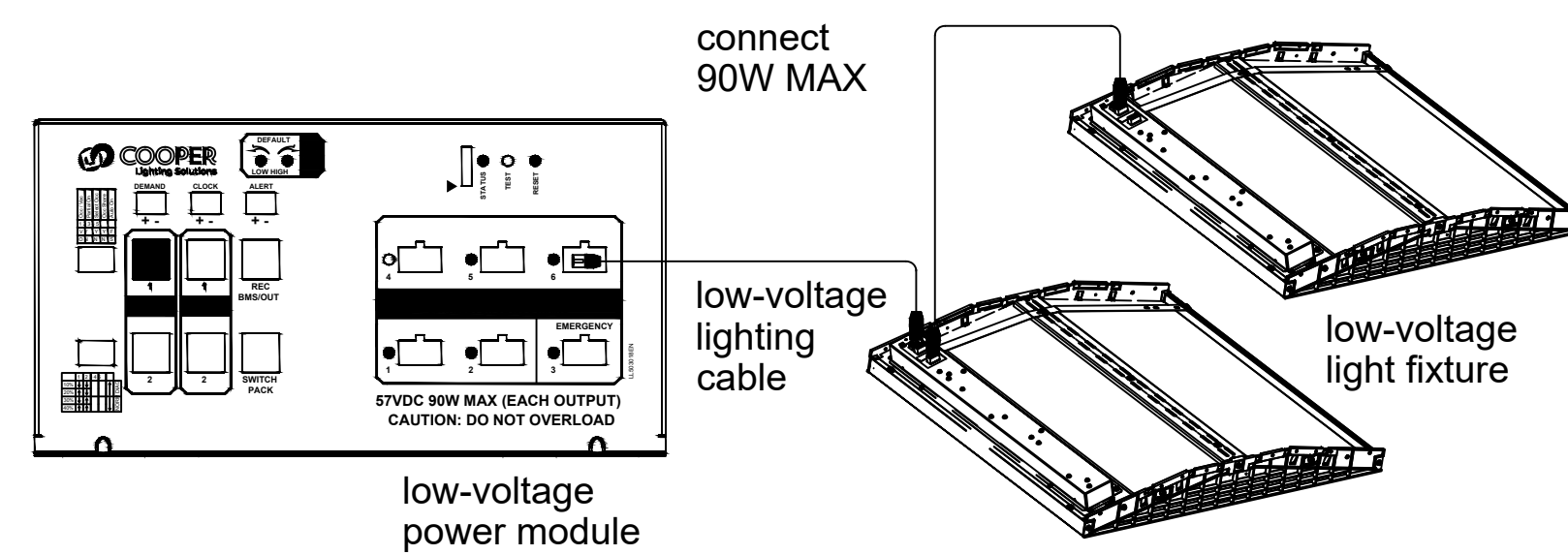


### 4 POE LIGHTING DETAIL - SENSOR CABLING DIAGRAM

NOT TO SCALE

### 2 POE LIGHTING DETAIL - WALLSTATION CABLING DIAGRAM

NOT TO SCALE



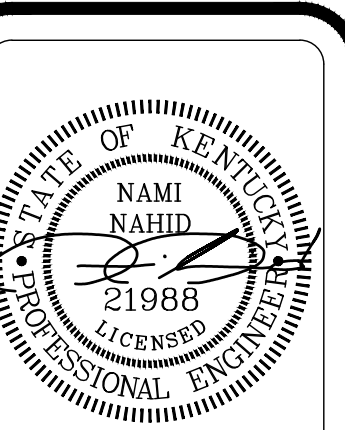
### 3 POE LIGHTING DETAIL - FIXTURE CABLING DIAGRAM

NOT TO SCALE

MIDDLEBRIDGE APARTMENTS  
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WILLIAMS  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax

WILLIAMS  
associates  
architects



REVISIONS:

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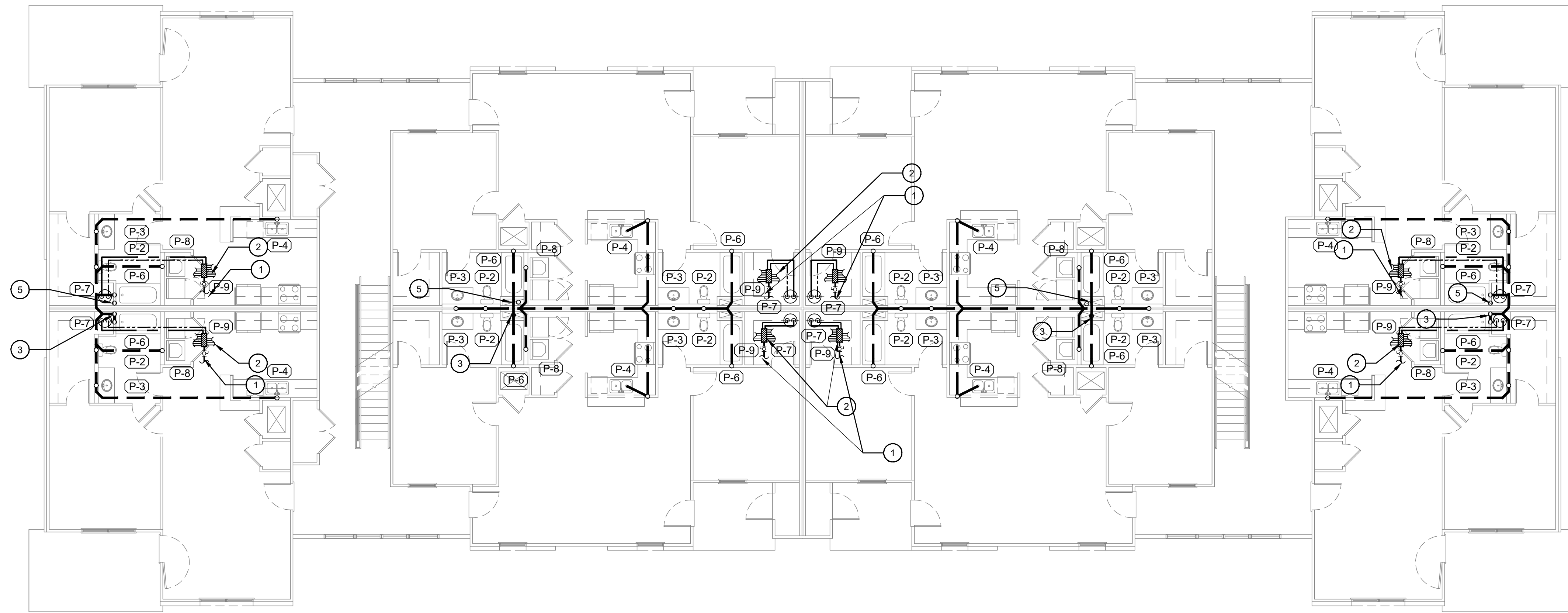
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CHECKED BY: NN

SHEET TITLE:  
CLUBHOUSE  
ELECTRICAL  
POE LIGHTING  
DETAILS

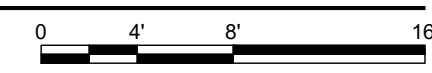
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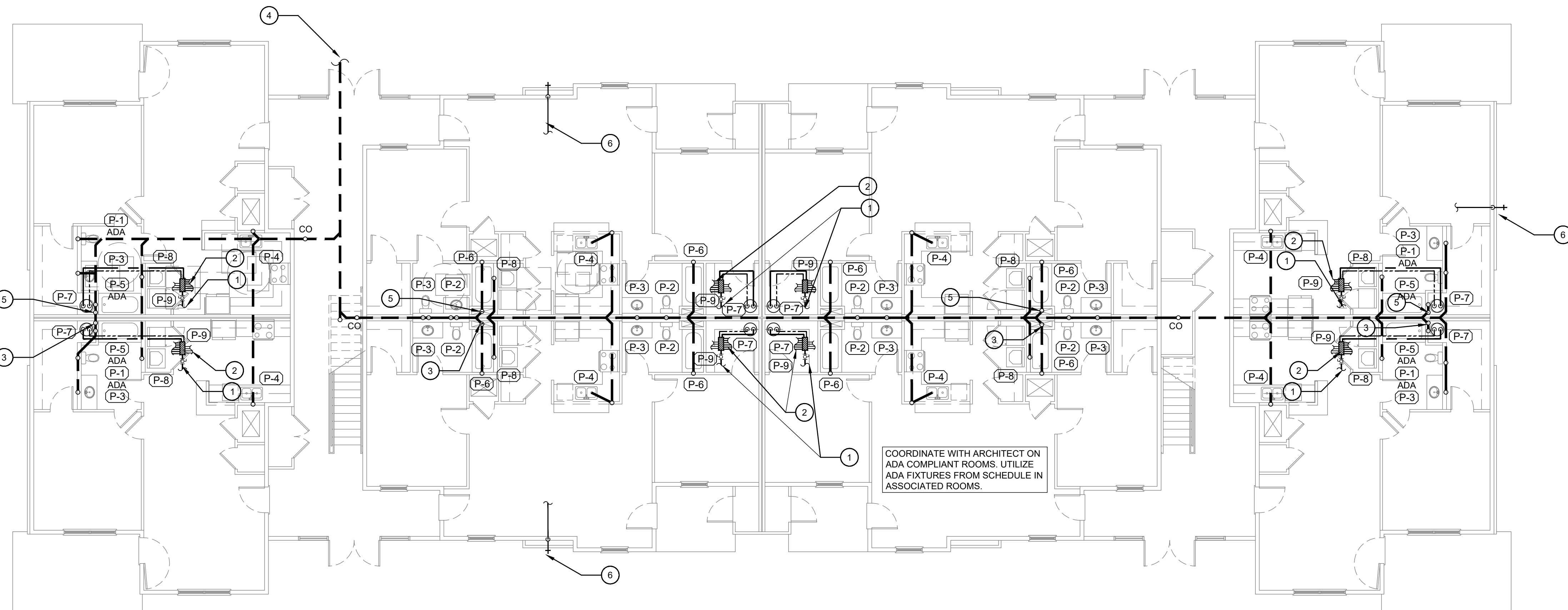


**2 PLUMBING FLOOR PLAN - BUILDING 'A' SECOND AND THIRD FLOOR**  
SCALE: 1/8"=1'-0"

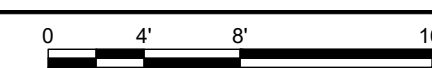


**# PLUMBING NOTES:**

1. PROVIDE 1" SHUT-OFF VALVE ON CW MAIN ENTERING EACH APT. BEFORE PEX MANIFOLD. INSTALL ABOVE CEILING HEIGHT. PROVIDE ACCESS PANEL TYP. ROUTE 1" CW TO INDIVIDUAL METER VAULT WITH BACKFLOW PREVENTOR ON SITE. PROVIDE DOUBLE CHECK VALVE WITHIN APARTMENT IF NOT INCLUDED IN VAULT. COORDINATE WITH LOCAL UTILITIES AND CIVIL. TYPICAL.
2. ROUTE 1/2" HW/CW TO SERVE EACH FIXTURE WITHIN ASSOCIATED APARTMENT. LABEL MANIFOLD PORTS. PROVIDE SHUT OFF VALVES FOR EACH CONNECTION.
3. 4" SS STACK TO SERVE SECOND FLOOR THEN VTR. SEAL PENETRATION WATER TIGHT.
4. ROUTE 6" SAN. SEWER TO MAIN ON SITE. COORDINATE WITH CIVIL AS NEEDED.
5. ROUTE 4" VENT UP TO CONNECT TO 4" VENT ON SECOND FLOOR. SEE RISER.
6. ROUTE 3/4" CW FROM EXTERIOR WALL HYDRANTS TO "HOUSE" 3/4" WATER METER ON SITE. TYP OF ALL WALL HYDRANTS.



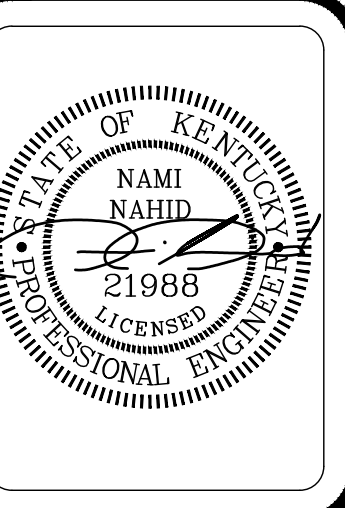
**1 PLUMBING FLOOR PLAN - BUILDING 'A' FIRST FLOOR**  
SCALE: 1/8"=1'-0"



COORDINATE WITH ARCHITECT ON ADA COMPLIANT ROOMS. UTILIZE ADA FIXTURES FROM SCHEDULE IN ASSOCIATED ROOMS.

MIDDLEBRIDGE APARTMENTS  
MIDDLEBRIDGE ROAD  
BOWLING GREEN, KENTUCKY

WILLIAMS  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax



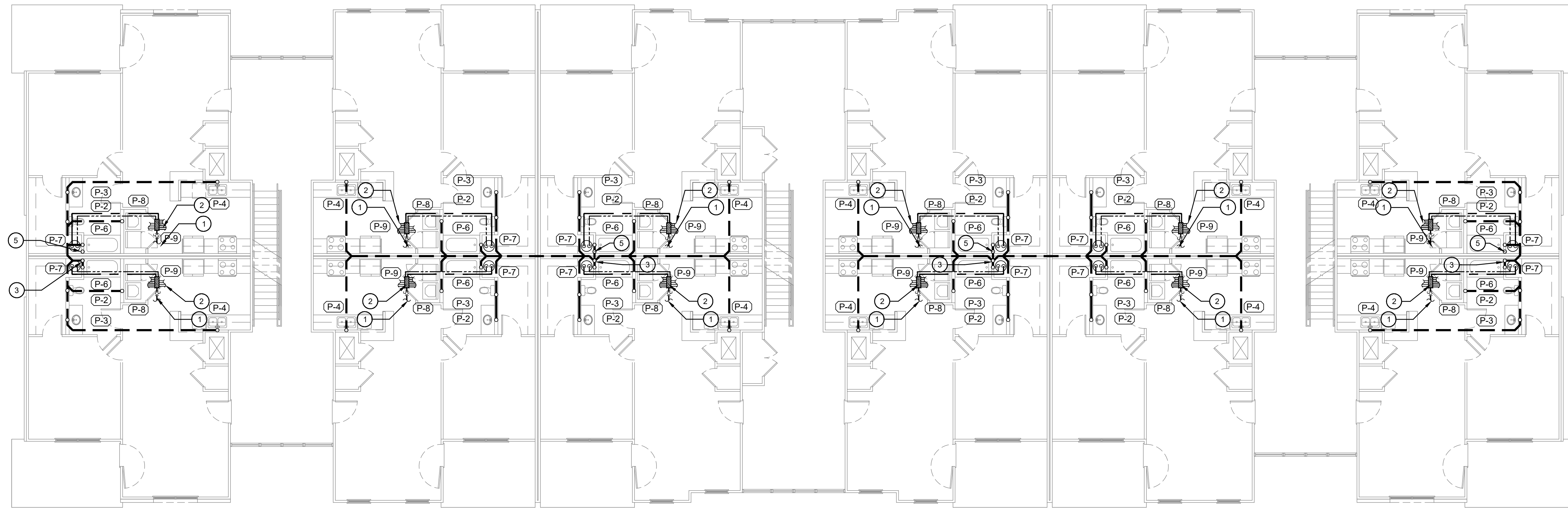
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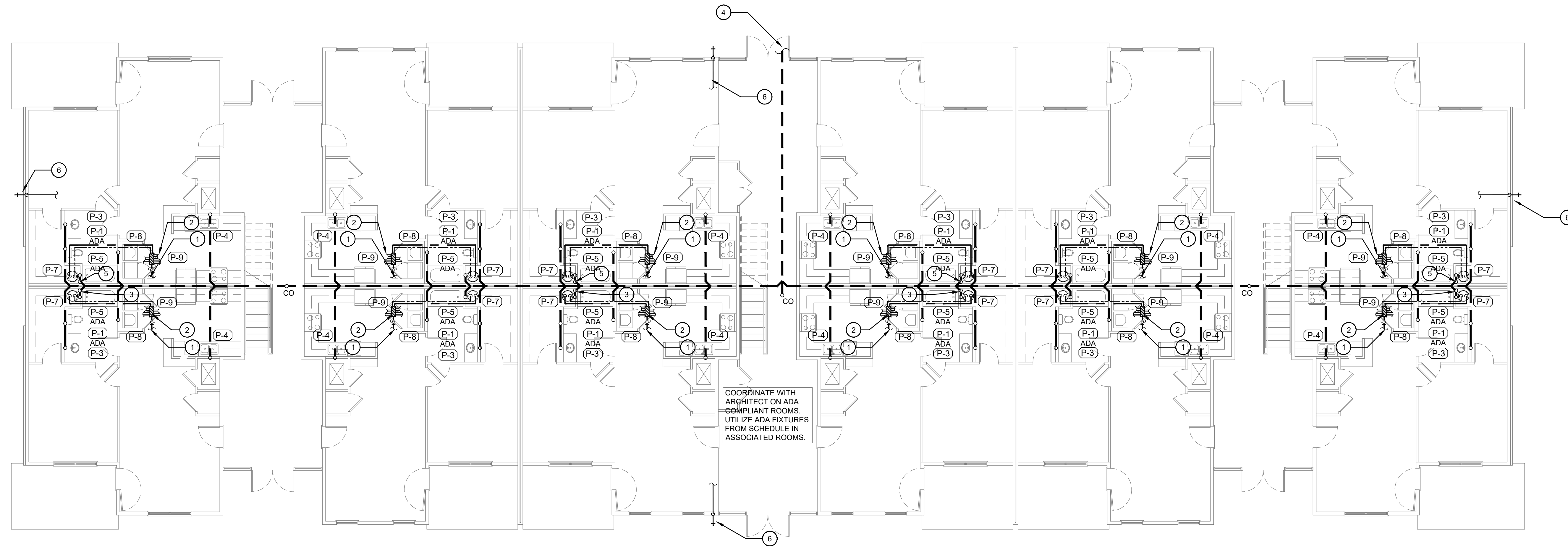
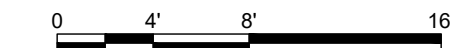
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SHEET NO:  
P1.0



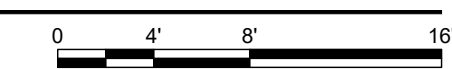


- # PLUMBING NOTES:**
1. PROVIDE 1" SHUT-OFF VALVE ON CW MAIN ENTERING EACH APT. BEFORE PEX MANIFOLD. INSTALL ABOVE CEILING HEIGHT. PROVIDE ACCESS PANEL TYP. ROUTE 1" CW TO INDIVIDUAL METER VAULT WITH BACKFLOW PREVENTOR ON SITE. PROVIDE DOUBLE CHECK VALVE WITHIN APARTMENT IF NOT INCLUDED IN VAULT. COORDINATE WITH LOCAL UTILITIES AND CIVIL. TYPICAL.
  2. ROUTE 1/2" HW/CW TO SERVE EACH FIXTURE WITHIN ASSOCIATED APARTMENT. LABEL MANIFOLD PORTS. PROVIDE SHUT OFF VALVES FOR EACH CONNECTION.
  3. 4" SS STACK TO SERVE SECOND FLOOR THEN VTR. SEAL PENETRATION WATER TIGHT.
  4. ROUTE 6" SAN. SEWER TO MAIN ON SITE. COORDINATE WITH CIVIL AS NEEDED.
  5. ROUTE 4" VENT UP TO CONNECT TO 4" VENT ON SECOND FLOOR. SEE RISER.
  6. ROUTE 3/4" CW FROM EXTERIOR WALL HYDRANTS TO "HOUSE" 3/4" WATER METER ON SITE. TYP OF ALL WALL HYDRANTS.

**2 PLUMBING FLOOR PLAN - BUILDING 'B' SECOND AND THIRD FLOOR**  
SCALE: 1/8"=1'-0"

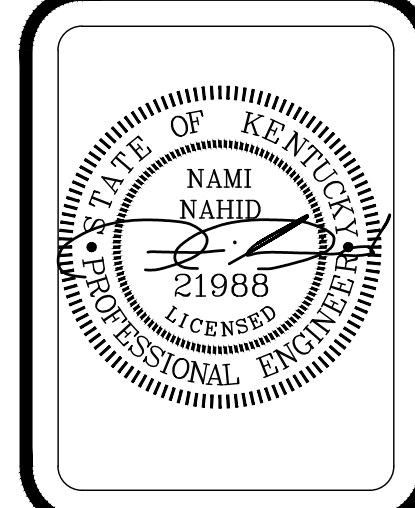


**1 PLUMBING FLOOR PLAN - BUILDING 'B' FIRST FLOOR**  
SCALE: 1/8"=1'-0"



MIDDLEBRIDGE APARTMENTS  
MIDDLEBRIDGE ROAD  
BOWLING GREEN, KENTUCKY

**WILLIAMS**  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax



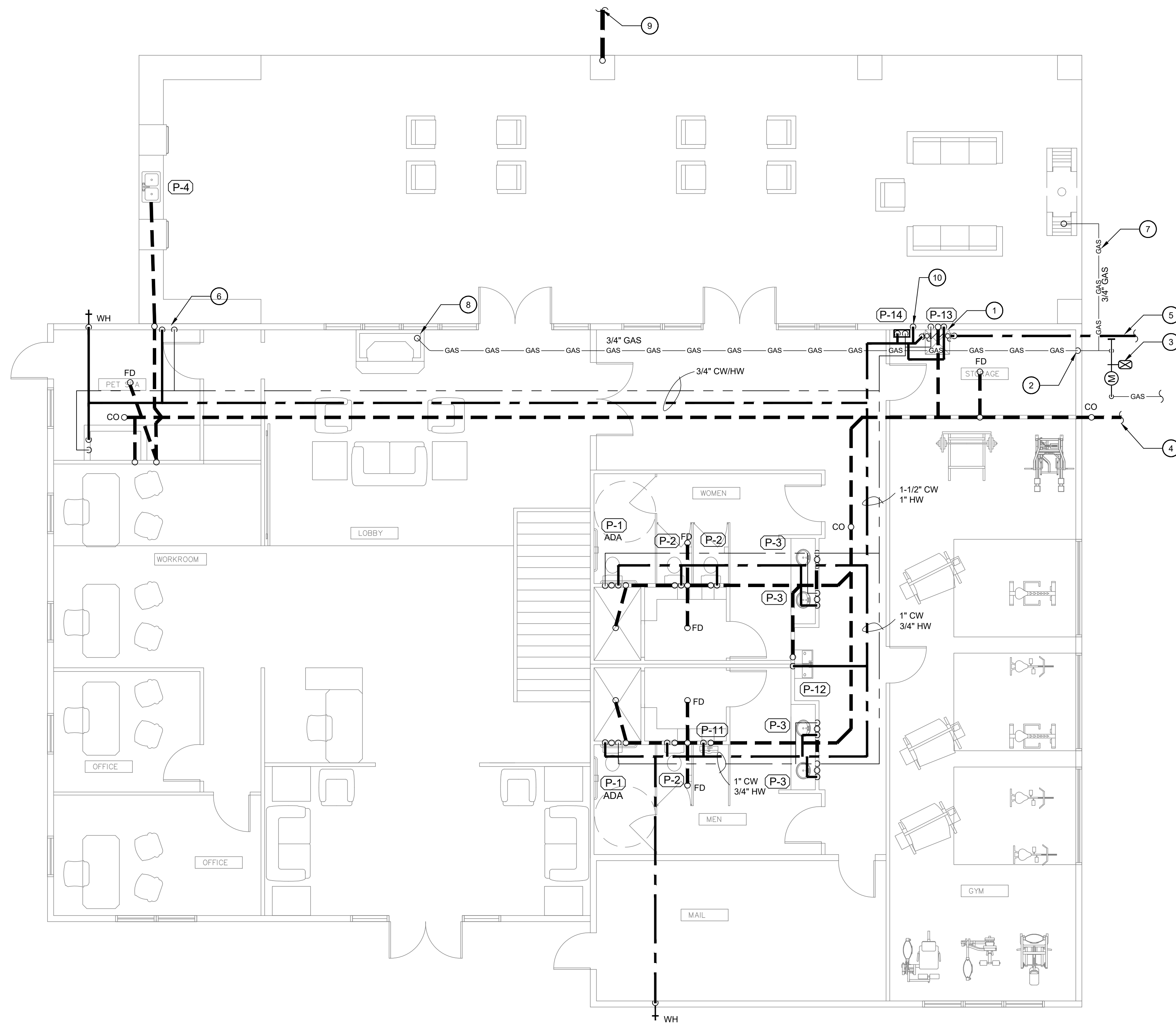
REVISIONS:


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DATE: 7-7-22  
DRAWN BY: LRC  
CHECKED BY: NN

SHEET TITLE:  
PLUMBING FLOOR PLAN BUILDING 'B'

SHEET NO:  
P1.1



**PLUMBING NOTES:**

1. ROUTE 1-1/2" CW TO NEW DOUBLE CHECK VALVE ASSEMBLY. SEE DETAIL.
2. ROUTE 1-1/2" GAS INTO BUILDING @ 8" WC UP TO ABOVE CEILING.
3. APPROX METER LOCATION COORDINATE WITH CIVIL AS NEEDED. ACCOUNT FOR 300,000 BTU.
4. ROUTE 4" SAN. SEWER TO MAIN ON SITE. COORDINATE WITH CIVIL.
5. ROUTE 1-1/2" CW TO MAIN ON SITE. SEE CIVIL.
6. ROUTE 3/4" HW/CW DOWN WALL TO FREEZE ROOF HOSE BIBB W/ VACUUM BREAKER ON EXTERIOR WALL. ROUTE PEX PIPE FROM HOSE BIBB THRU CABINETS TO SERVE SINK.
7. ROUTE 1/2" GAS @ 8" WC TO SERVE OUTSIDE FIRE PLACE. PROVIDE ACCESSIBLE SHUT OFF VALVE.
8. ROUTE 1/2" GAS TO SERVE FIRE PLACE ON FIRST FLOOR. TEE OFF, TURN UP TO SERVE SECOND FLOOR FIRE PLACE.
9. ROUTE 4" ROOF DRAIN PIPE DOWN COLUMN TO CONNECT TO STORM SEWER ON SITE.
10. PROVIDE 1" CW W/ SHUT OFF VALVE FOR POOL EQUIPMENT.

**1 PLUMBING FLOOR PLAN - CLUBHOUSE**  
SCALE: 3/16"=1'-0"



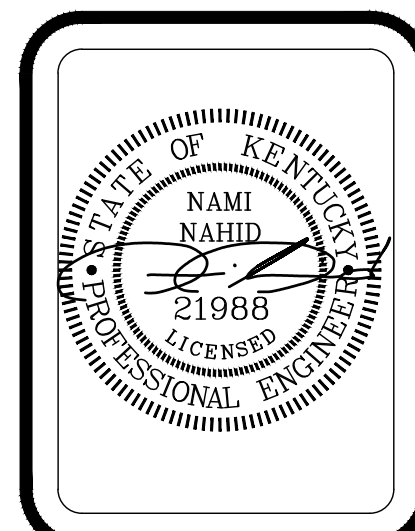
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MECHANICAL • ELECTRICAL • PLUMBING  
DO JUSTLY, LOVE MERCY AND WALK HUMBLLY - Micah 6:8

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MIDDLEBRIDGE ROAD  
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ASSOCIATE ARCHITECTS**  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax

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architects**



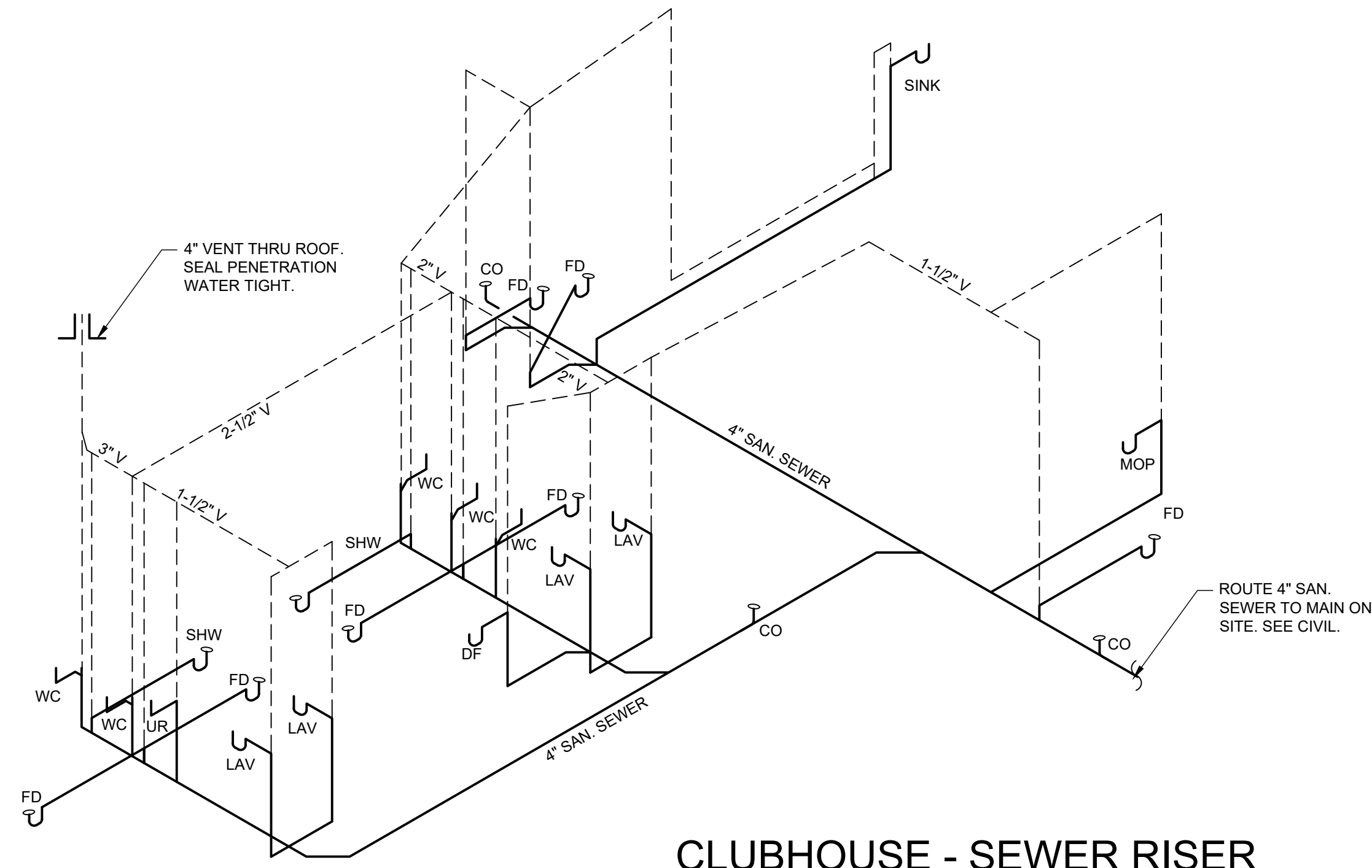
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SHEET NO:  
P1.2

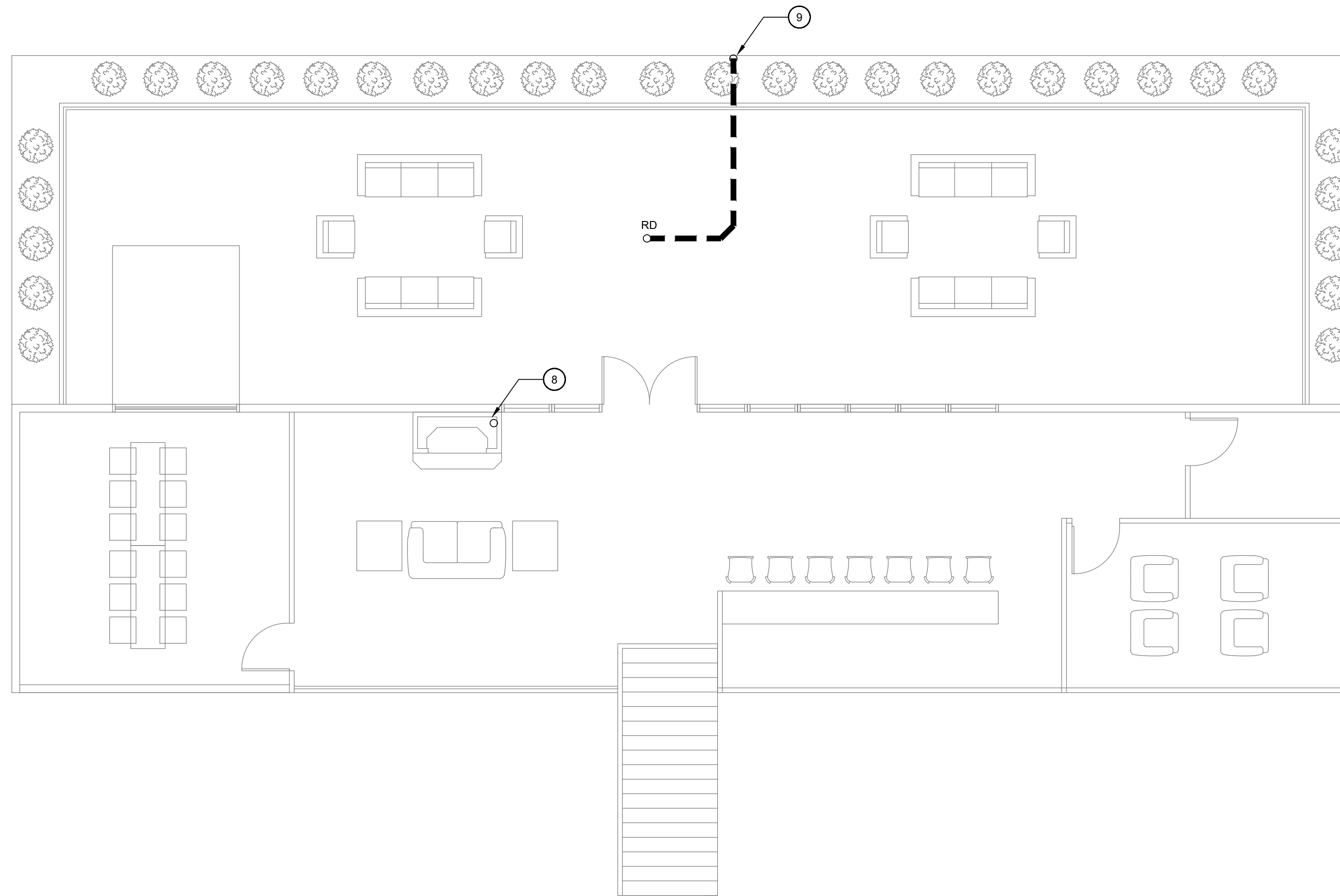


**CLUBHOUSE - SEWER RISER**

NOT TO SCALE

# PLUMBING NOTES:

1. ROUTE 1-1/2" CW TO NEW DOUBLE CHECK VALVE ASSEMBLY. SEE DETAIL.
2. ROUTE 1-1/2" GAS INTO BUILDING @ 8" WC UP TO ABOVE CEILING.
3. APPROX METER LOCATION COORDINATE WITH CIVIL AS NEEDED. ACCOUNT FOR 300,000 BTU.
4. ROUTE 4" SAN. SEWER TO MAIN ON SITE. COORDINATE WITH CIVIL.
5. ROUTE 1-1/2" CW TO MAIN ON SITE. SEE CIVIL.
6. ROUTE 3/4" HW/CW DOWN WALL TO FREEZE ROOF HOSE BIBB W/ VACUUM BREAKER ON EXTERIOR WALL. ROUTE PEX PIPE FROM HOSE BIBB THRU CABINETRY TO SERVE SINK.
7. ROUTE 1/2" GAS @ 8" WC TO SERVE OUTSIDE FIRE PLACE. PROVIDE ACCESSIBLE SHUT OFF VALVE.
8. ROUTE 1/2" GAS TO SERVE FIRE PLACE ON FIRST FLOOR. TEE OFF, TURN UP TO SERVE SECOND FLOOR FIRE PLACE.
9. ROUTE 4" ROOF DRAIN PIPE DOWN COLUMN TO CONNECT TO STORM SEWER ON SITE.
10. PROVIDE 1" CW W/ SHUT OFF VALVE FOR POOL EQUIPMENT.



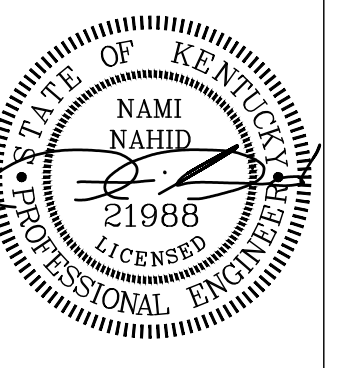
**1 PLUMBING FLOOR PLAN - SECOND FLOOR**

SCALE: 3/16"=1'-0"



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**WILLIAMS**  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
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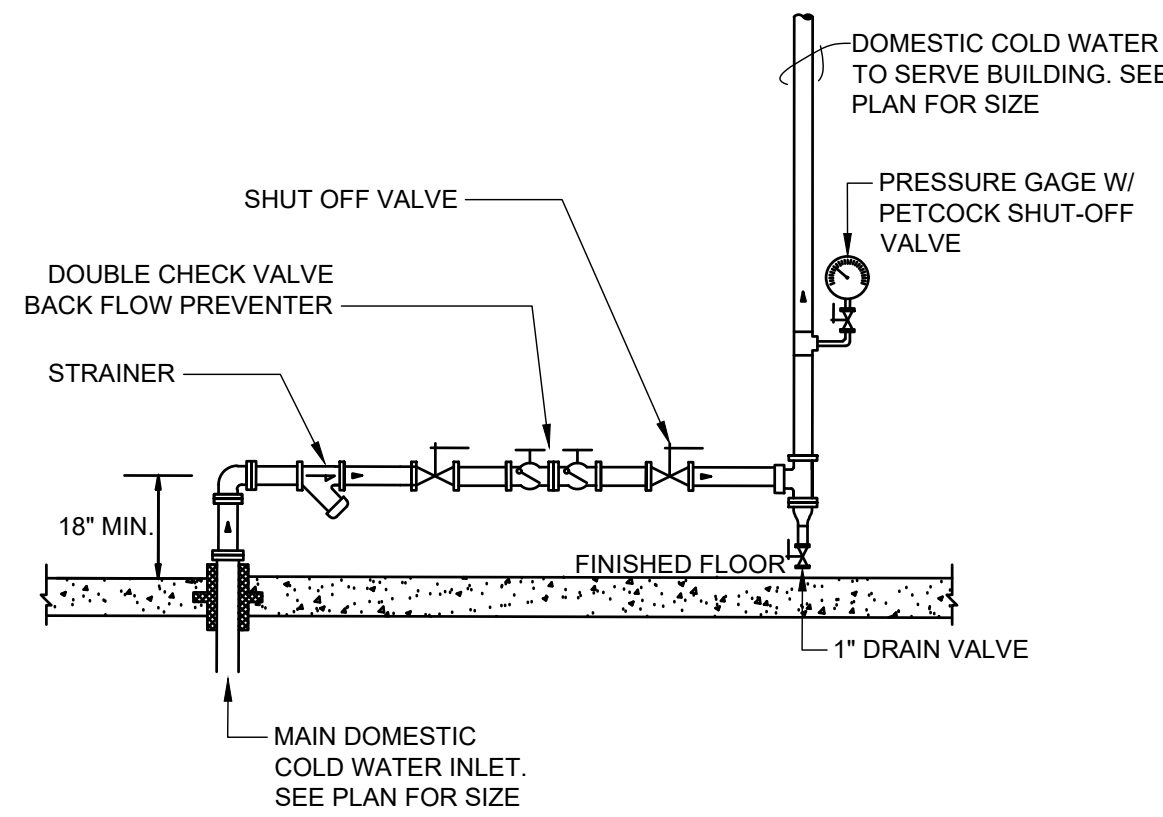
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SHEET NO:  
P1.3

## GENERAL PLUMBING NOTES

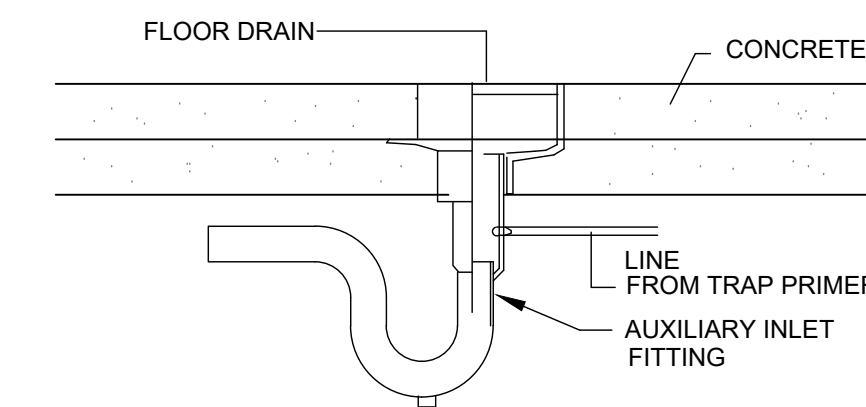
- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- THERE SHALL BE NOTHING ABANDONED IN PLACE, UNLESS SPECIFICALLY IDENTIFIED AS SUCH.
- THESE PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTORS SHALL INCLUDE APPROPRIATE ALLOWANCES FOR OFFSETS AS REQUIRED TO ACCOMMODATE VERTICAL AND HORIZONTAL VARIATIONS IN THE LOCATIONS AND ELEVATIONS OF DUCTWORK, PIPING AND EXISTING CONDITIONS.
- EACH TRADE SHALL COORDINATE THE ROUTING AND INSTALLATION OF HIS WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR. IN ANY INSTANCES OF CONFLICT, SYSTEMS REQUIRING "GRADE" OR "SLOPE" FOR DRAINAGE (SANITARY SEWER, SANITARY VENT, EQUIPMENT DRAINS, ETC...) SHALL HAVE PRIORITY.
- PENETRATIONS OF WALLS OR FLOORS FOR THE PASSAGE OF PIPING, OR OTHER EQUIPMENT SHALL BE PROPERLY SEALED AFTER INSTALLATION OF EQUIPMENT. FIELD VERIFY EXISTING WALL PENETRATIONS AND PROPERLY SEAL AS REQUIRED TO MAINTAIN WALL OR FLOOR RATING.
- ALL UNDERGROUND PIPE TO BE MINIMUM OF 2" CHARLOTTE PVC UNLESS OTHERWISE NOTED. PIPING SHALL NOT RUN THRU FOUNDATION OR FOOTERS WITH A LENGTH GREATER THAN 2 FEET. WITHIN THE FOOTER CONTRACTOR SHALL PROVIDE A PIPE SLEEVE THE LENGTH OF THE PENETRATION, 2 INCHES LARGER THAN THE PENETRATING PIPE. LASTLY, THE PIPE MUST BE ARMAFLEX INSULATED AND APPROVED BY LOCAL AHJ.
- PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COSTS AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE, INCIDENTAL OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING ADDENDA, AND APPLICABLE CODES AND STANDARDS.
- PROVIDE ACCESS TO ALL CONCEALED EQUIPMENT AND VALVES. COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT. PROVIDE ACCESS PANELS FOR CONCEALED VALVES AND OPEN SITE DRAINS.
- ALL FLOOR DRAINS, FLOOR SINKS, HUB DRAINS, OR INDIRECT CONNECTIONS SHALL BE PROVIDED WITH TRAP PRIMER VALVE(S) EXTENDING TO NEAREST COLD WATER SUPPLY UNLESS SHOWN OTHERWISE.
- VENT STACK SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY HVAC UNIT.
- EXTEND SANITARY SEWER, DOMESTIC WATER, STORM, AND FIRE MAIN PIPING AS REQUIRED IN ORDER TO CONNECT TO STUB-OUT PROVIDED BY CIVIL.

- INSTALL STOPS IN SUPPLIES TO ALL FIXTURES.
- INSTALL SHUT-OFF VALVES AT ALL EQUIPMENT.
- PROVIDE VENTS, CLEANOUTS, AND PLUMBING AS REQ'D BY STATE PLUMBING CODE.
- PIPING SHALL BE CONCEALED IN FINISHED AREAS, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE STARTING WORK.
- ALL EQUIPMENT INSTALLED AS PER CERTIFIED SHOP DRAWING FROM MFR.
- VENT PIPING MAINS WITHIN PLUMBING WALL TO BE ABOVE 55" AFF TO ALLOW MOUNTING OF GFI OUTLETS NEXT TO SINKS. ROUTE VENT PIPING TO AVOID VANITY LIGHT MOUNTING LOCATION. COORDINATE WITH ELECTRICAL.
- PROVIDE HYDRAULIC SHOCK ABSORBERS WHERE QUICK-CLOSING VALVES ARE UTILIZED AND AS OTHERWISE REQUIRED BY CODE.
- ROOF OPENINGS SHALL MEET ROOF BOND CANTS AND FLASHINGS BY ROOFING CONTRACTOR, ALL COLLARS ON VENTS, ETC. BY ROOFING CONTRACTOR.
- HOSE BIBBS & WALL HYDRANTS SHALL BE A MIN. OF 18" ABOVE FR. GRADE.
- FLOOR DRAINS IN MECH. ROOMS SHALL HAVE TRAP PRIMERS.
- BACK TO BACK FLUSH VALVE WATER CLOSETS TO BE INSTALLED USING A DOUBLE "Y" CONNECTION. SEE RISER
- PIPING MUST CONFORM TO LOCAL AND STATE SEISMIC CODES.
- SMOKE TIGHT FOR PIPING PENETRATION THRU SMOKE TIGHT WALL.
- PIPING PENETRATING FIRE RATED WALLS SHALL HAVE UL FIRE RATED CAULKING
- C-CLAMPS ARE NOT TO BE USED WITHOUT A SEISMIC RETAINER STRAP ON ANY PROJECTS LOCATED WITHIN A SEISMIC ZONE.
- EXPOSED PIPING IN FINISHED SPACES SHALL BE PAINTED.
- NO PIPING SHALL BE RUN DIRECTLY OVER ANY ELECTRICAL PANELS, TRANSFORMERS, SWITCHGEAR ETC.
- WHEN BRANCH LINE EXCEEDS 20FT IN LENGTH, AN ADDITIONAL WATER HAMMER ARRESTER SHOULD BE INSTALLED, USING BRANCH LINE PIPE SIZE, AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES. WATER HAMMER ARRESTER FOR A BRANCH SERVING A PIECE OF EQUIPMENT WITH A QUICK-CLOSING VALVE SHOULD BE PLACED AS CLOSE AS POSSIBLE TO THE EQUIPMENT ISOLATION VALVE.



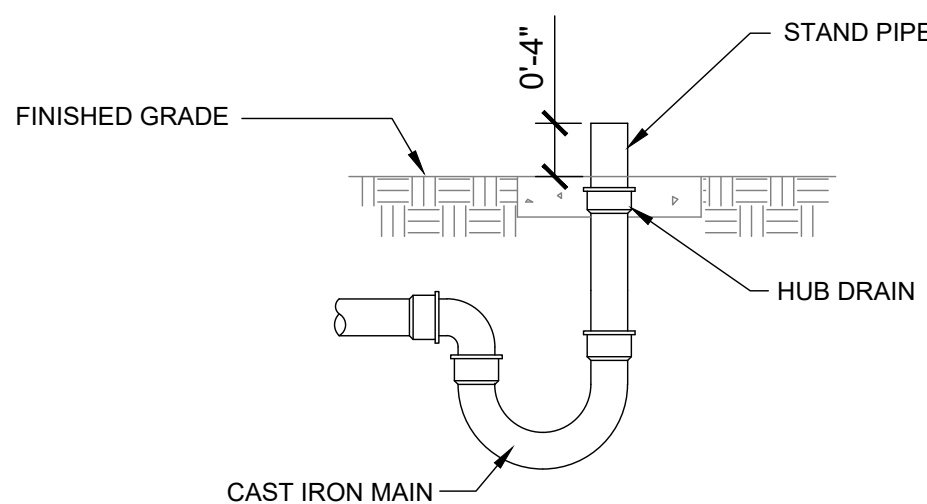
DOUBLE CHECK VALVE BACKFLOW PREVENTER DTL

NOT TO SCALE



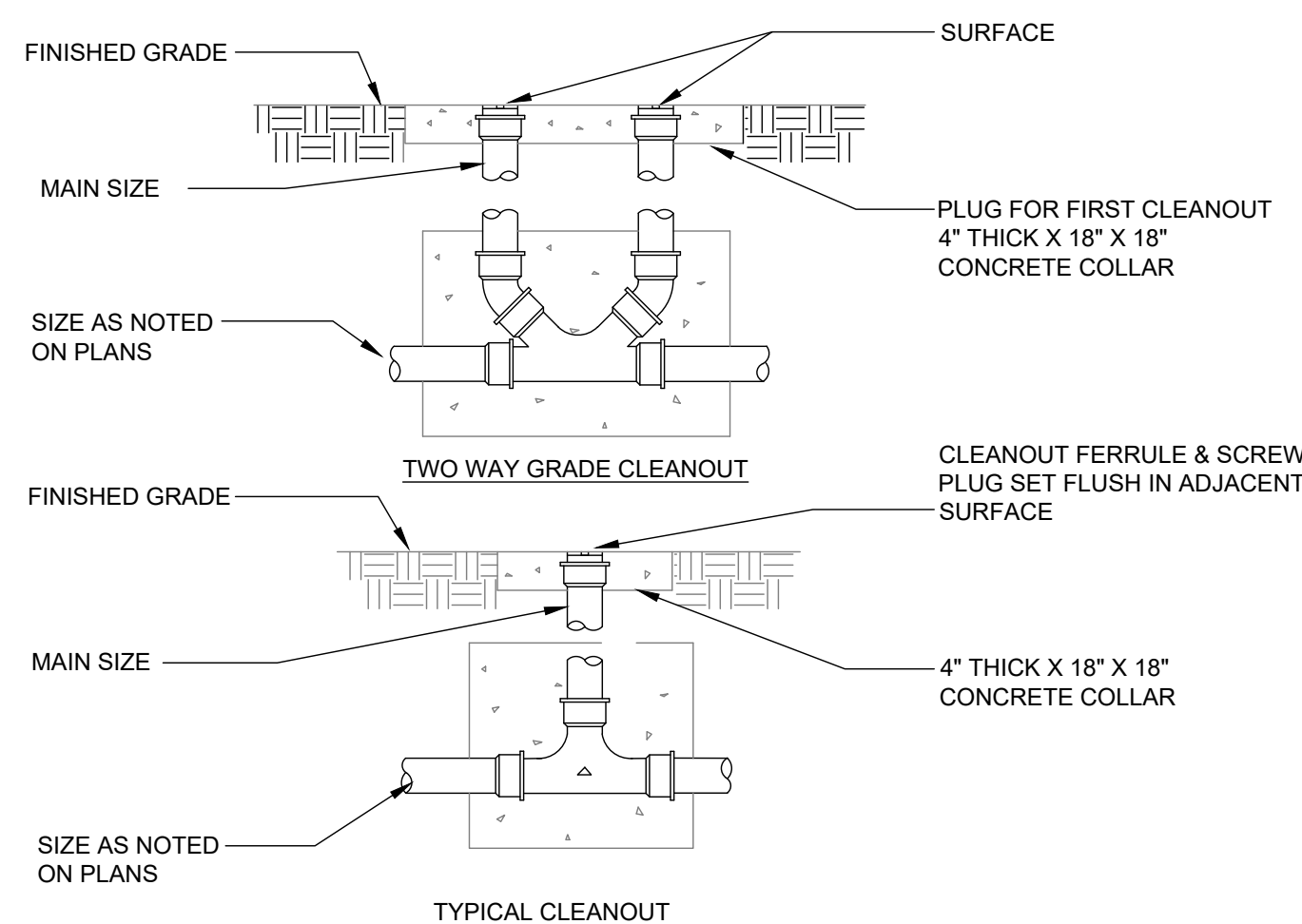
FLOOR DRAIN INSTALLATION DETAIL

NOT TO SCALE



HUB DRAIN DETAIL WITH STAND PIPE

NOT TO SCALE



CLEANOUT DETAIL

NOT TO SCALE

## MATERIALS

**WATER PIPE -**  
 ABOVE SLAB & UNDERGROUND PEX PIPING ASTM F877 CERTIFIED PEX PIPE FITTINGS SHALL BE PEX BARB.  
 PEX PIPE USAGE BASED ON COLOR. BLUE PEX FOR DOMESTIC, RED PEX FOR HOT WATER.

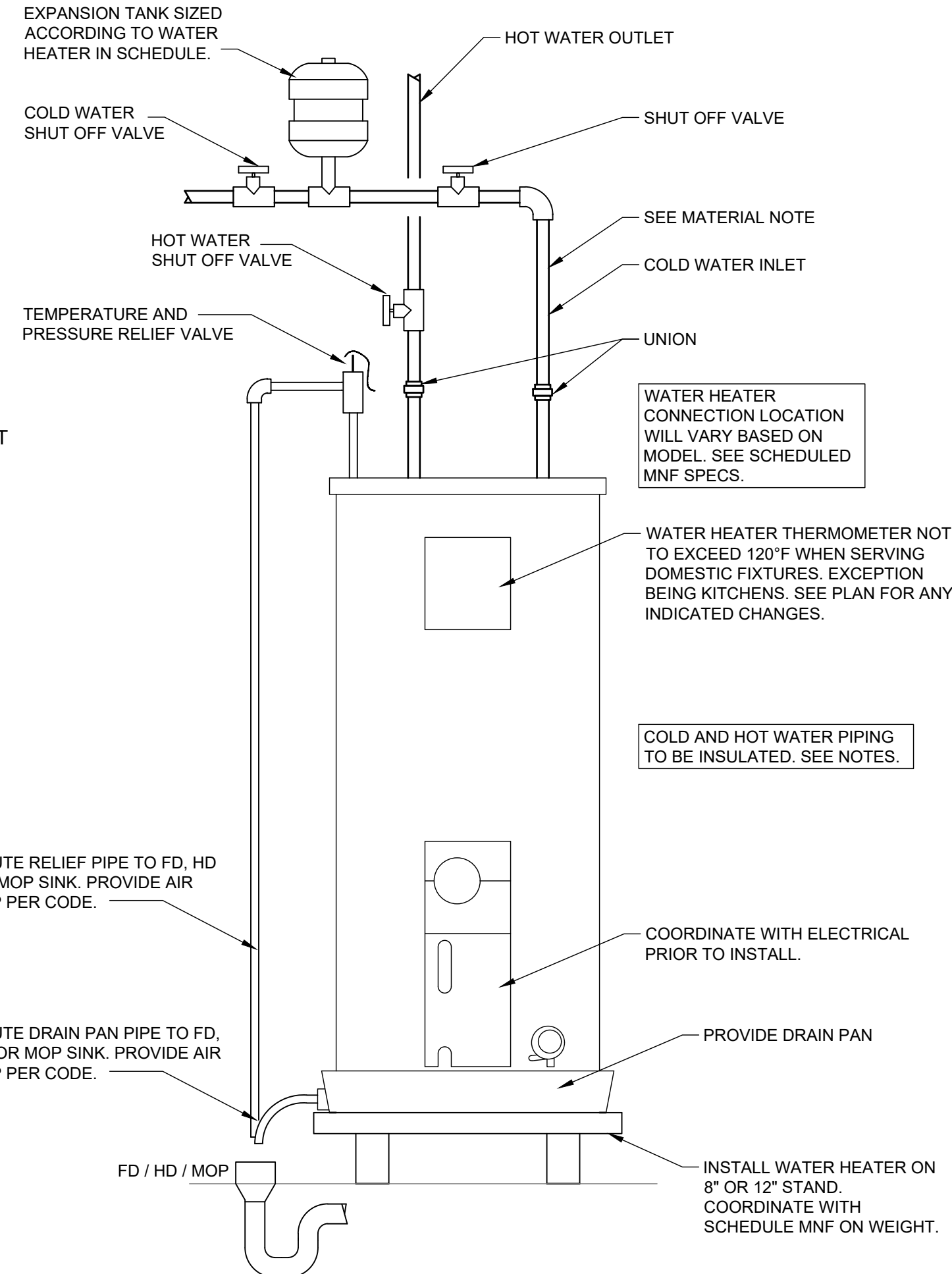
**SEWER -**  
 WASTE PIPING BELOW SLAB - SCHEDULE 40 PVC  
 WASTE AND VENT PIPING ABOVE SLAB CAN BE SCH. 40 PVC  
 PVC PIPE FITTINGS 4" AND SMALLER SHALL BE ASTM D-1785, TYPE 1, GRADE 1, SOCKET TYPE WITH ASTM D-2564 SOLVENT CEMENT.

**SPECIFICATIONS**  
 ALL INTERNAL WATER LINES INSULATED WITH 1" BLACK FOAM  
 ALL ABOVE GROUND PIPING TO BE STENCILED EVERY 10'-0"

HANDICAP LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH THE FULLY MOLDED, TRUEBRO, HANDI LAV-GUARD INSULATION KIT WITH 3-PIECE INTERLOCKING TRAP ASSEMBLY AND 2-PIECE INTERLOCKING ANGLE VALVE ASSEMBLIES. FASTENERS SHALL BE NYLON-TYPE

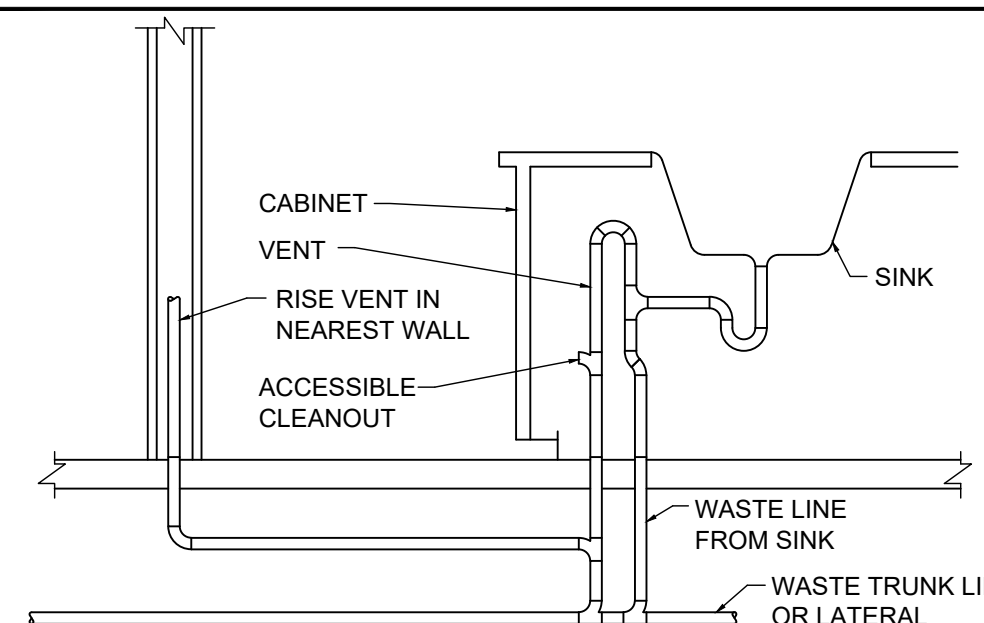
**HANDI LAV-GUARD KIT FITS:**

- 1 1/4" OR 1 1/2" TUBULAR PLASTIC P-TRAPS
- 1 1/4" OR 1 1/2" TUBULAR BRASS P-TRAPS
- 1 1/4" OR 1 1/2" SEMI-CAST BRASS P-TRAPS
- 1 1/4" STRAIGHT LAVATORY TAIL PIECE
- 1/2" SWEAT ANGLE STOP VALVE, KEYED OR REGULAR
- 1/2" COMP. ANGLE STOP VALVE, KEYED OR REGULAR
- 3/8" I.P. ANGLE STOP VALVE, KEYED OR REGULAR
- 3/8" O.D. SUPPLY TUBE



ELECTRIC WATER HEATER DETAIL

NOT TO SCALE

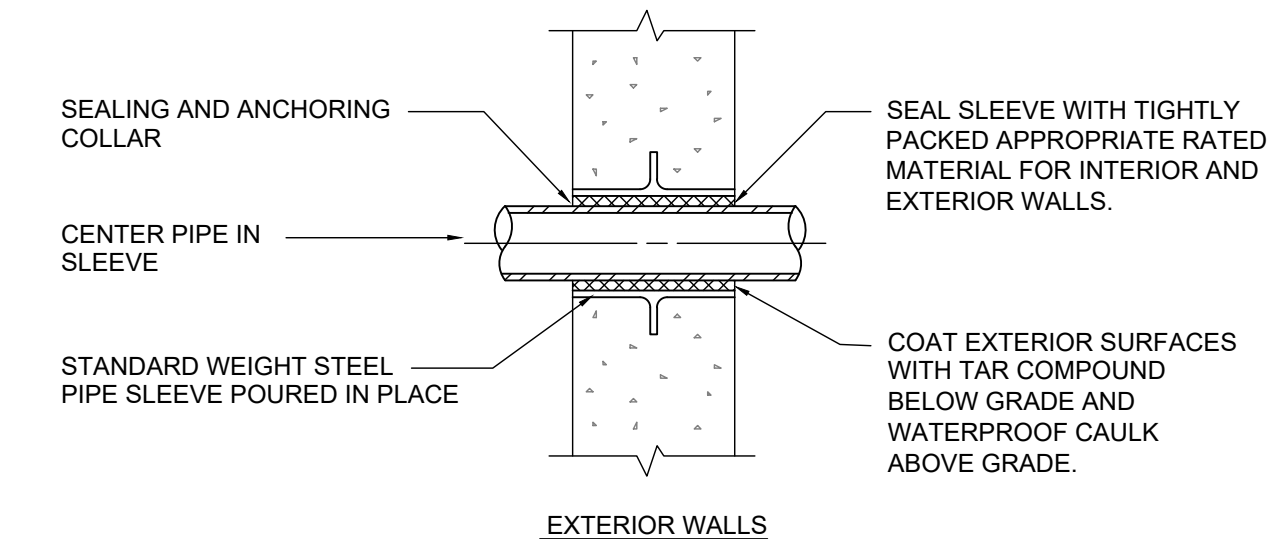


LOOP VENT DETAIL

NOT TO SCALE

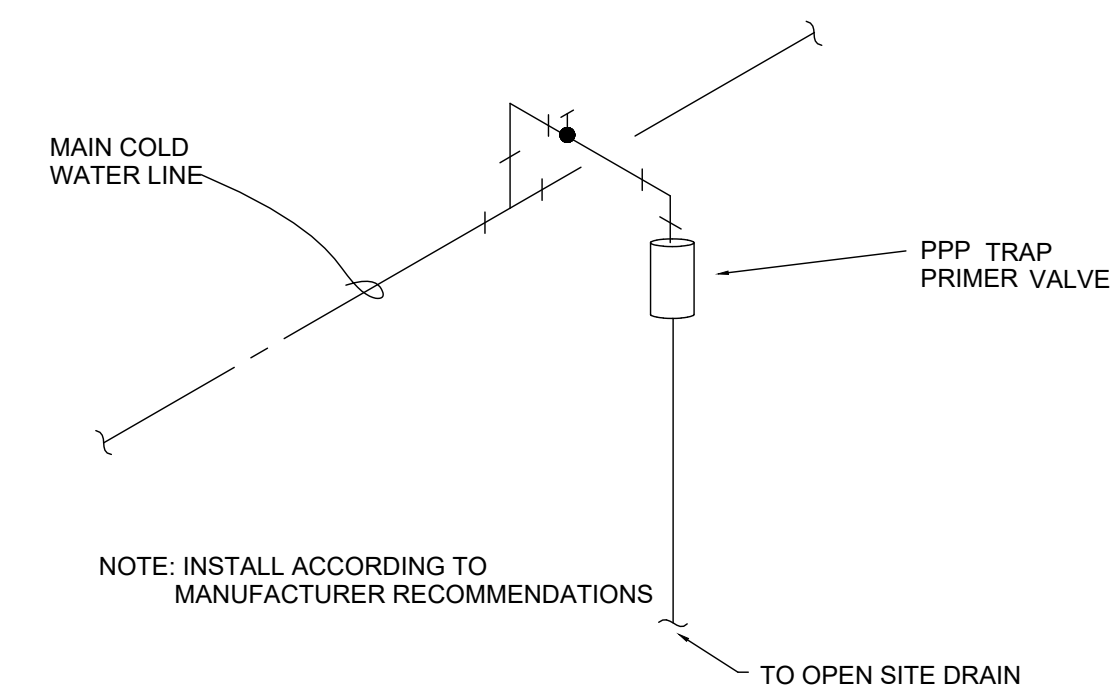
## PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE DESCRIPTION
(P-1) ADA	ADA AMERICAN STANDARD MODEL NUMBER 211AA.104. 1.28 GPF TANK TYPE TOILET WITH A 4" DRAIN. PROVIDE OPEN FRONT TOILET SEAT TO MATCH EQUIPMENT IF NOT INCLUDED. PROVIDE ALL ACCESSORIES FOR COMPLETE UNIT INSTALLATION.
(P-2)	WATER CLOSET TO BE WHITE AMERICAN STANDARD MODEL NUMBER 270CA.101. 1.28 GPF TANK TYPE TOILET. PROVIDE TOILET SEAT TO MATCH EQUIPMENT IF NOT INCLUDED. PROVIDE ALL ACCESSORIES FOR COMPLETE UNIT INSTALLATION.
(P-3)	AMERICAN STANDARD UNDERMOUNT SINK MODEL #0614200 WITH DELTA 2 HANDLE FAUCET MODEL #15748LF. BRUSHED NICKEL. PROVIDE ANY OTHER ACCESSORIES NEEDED FOR COMPLETE UNIT INSTALLATION. PROVIDE ADA TRAP-INSULATION FOR ALL ADA LAV. PIPING COVER.
(P-4)	DAYTON ADA DEPTH SS DOUBLE BOWL SINK MODEL #GE233221 WITH 7074.550.002 GOOSENECK SINK FAUCET. TRAP AND SUPPLY WRAP. PROVIDE ANY OTHER ACCESSORIES NEEDED FOR COMPLETE UNIT INSTALLATION. PROVIDE PIPING COVER.
(P-5) ADA	STERLING ADA BATH/SHOWER 32" X 60" (WHITE), MODEL # 71150115-0. PROVIDE AND INSTALL ADA FOLD-UP SEAT AND STAINLESS STEEL GRAB BARS, PER ADA RECOMMENDATIONS. SEAL PER MFR'S RECOMMENDATIONS. PROVIDE AND INSTALL BATH/SHOWER VALVE TRIM KIT MODEL #K-TS45104-4G-CP.
(P-6)	STERLING 32" X 60" BATH/SHOWER KIT (WHITE) MODEL #71150116-0. PROVIDE AND INSTALL FLOOR PAN AND DRAIN TRIM. SEAL PER MFR'S RECOMMENDATIONS. PROVIDE AND INSTALL BATH/SHOWER VALVE TRIM KIT MODEL #K-TS45104-4G-CP.
(P-7)	WATER HEATER BASED ON AO SMITH MODEL #DEL-40. 40 GALLON CAPACITY TANK WITH ONE, 4.5KW HEATING ELEMENT AT 240V. PROVIDE ANY ADDITIONAL ACCESSORIES FOR COMPLETE UNIT INSTALLATION. SEE DETAIL. ROUTE WATER HEATER RELIEF VALVE PIPE & DRAIN PAN RUN OFF THRU WALL TO DISCHARGE INTO "OR" WITHIN WASHER BOX. TYPICAL OF ALL WATER HEATERS.
(P-8)	GUY GRAY OUTLET BOX MODEL #82139 PROVIDE ANY OTHER ACCESSORIES NEEDED FOR COMPLETE UNIT INSTALLATION.
(P-9)	ZURN QIKPORT PREASSEMBLED MANIFOLD MODEL # QPPM6H12C. PROVIDE SHUTOFF VALVES AND LABEL EACH PORT. INSTALL ABOVE CEILING AND PROVIDE ACCESS PANEL. INSTALL BASED ON MANUFACTURER'S RECOMMENDATIONS.
ICE	FRIDGE ICE MAKER OUTLET BOX BASED ON GUY GRAY MODEL #: AB9702. COORDINATE WITH OTHER TRADES.
C.O.	INTERIOR: ZURN MODEL ZN1400-4NL EXTERIOR: ZURN MODEL Z1400-4NL WALL: ZURN MODEL Z1441
W.H.	NON-FREEZE WALL HYDRANT: STR WALL HYDRANT MODEL 67C FIREPROOF WITH SLEEVE. COORDINATE WITH GC ON LOCATION.
F.D.	FLOOR DRAIN ZURN MODEL # FD2210.
H.B.	HOSE BIB: ZURN MODEL Z1341
H.D.	HUB DRAIN TO BE 4" OPENING FOR HVAC CONDENSATE DRAINS. COORDINATE WITH OTHER TRADES AS NEEDED. SEE DETAIL.



PIPE SLEEVE THRU WALL DETAIL

NOT TO SCALE



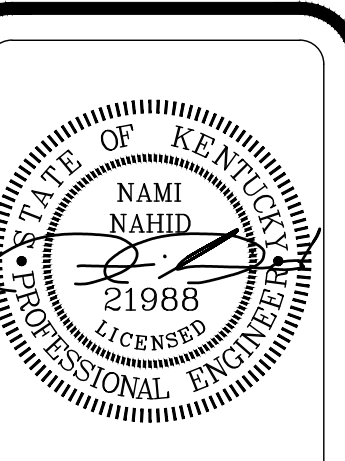
TRAP PRIMER UNIT

NOT TO SCALE

MIDDLEBRIDGE APARTMENTS  
 MIDDLEBRIDGE ROAD  
 BOWLING GREEN, KENTUCKY

WILLIAMS  
 ASSOCIATE ARCHITECTS  
 John Williams, Architect  
 1136 South Park Drive, Suite 102  
 Bowling Green, KY 42103  
 270-782-2273 270-782-2173 Fax

WILLIAMS  
 associates  
 architects



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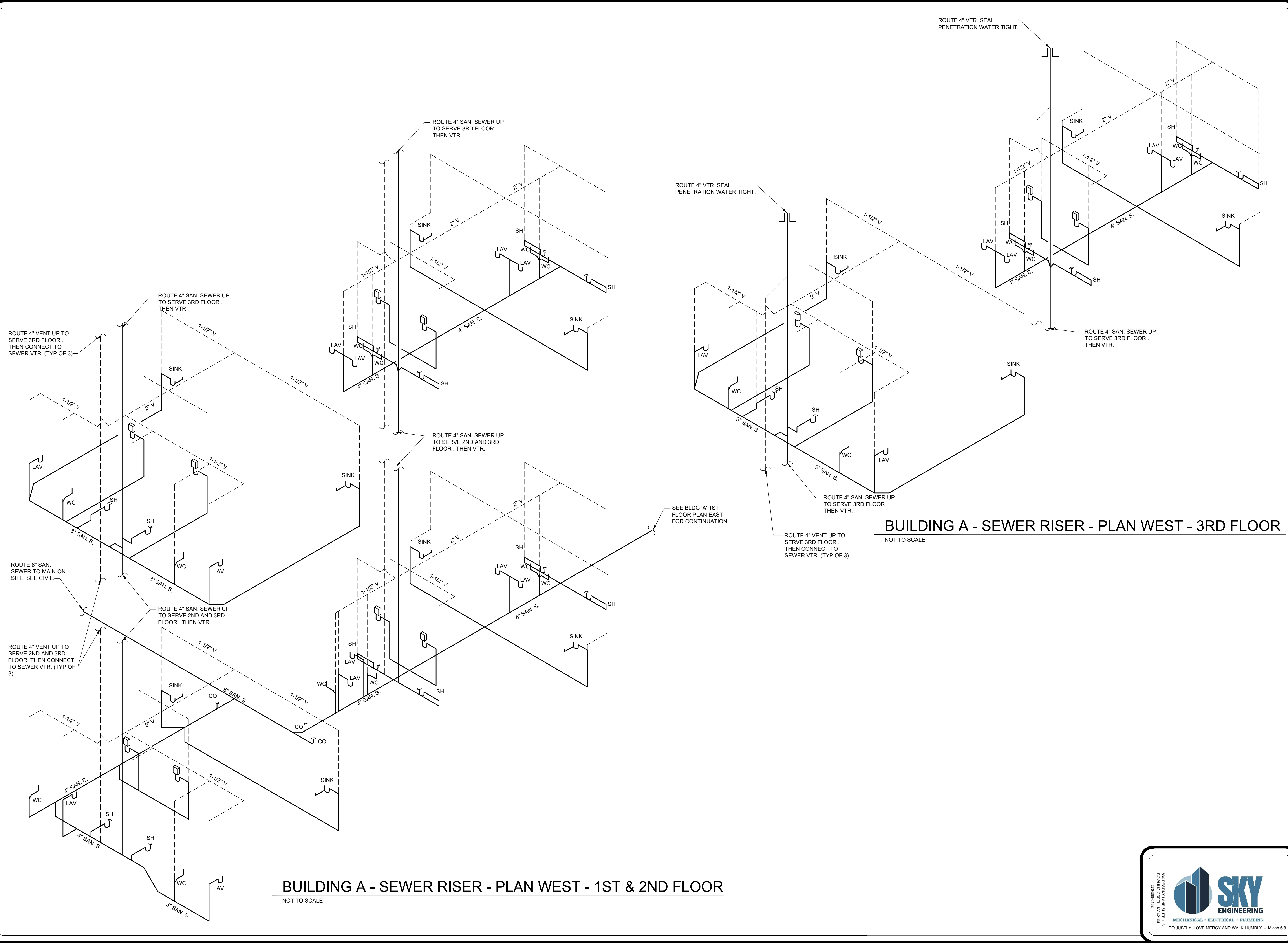
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PLUMBING  
 SCHEDULES  
 AND DETAILS

SHEET NO:

P2.0

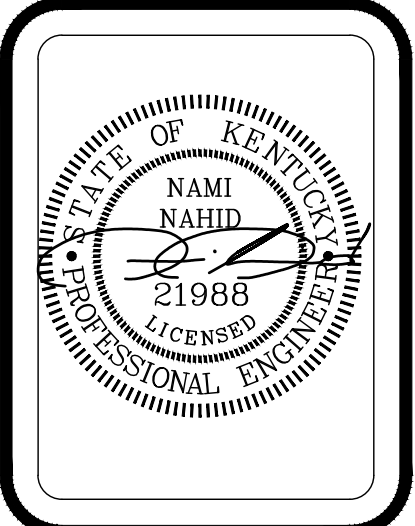




MIDDLEBRIDGE APARTMENTS  
MIDDLEBRIDGE ROAD  
BOWLING GREEN, KENTUCKY

**WILLIAMS**  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax

**WILLIAMS**  
associates  
architects



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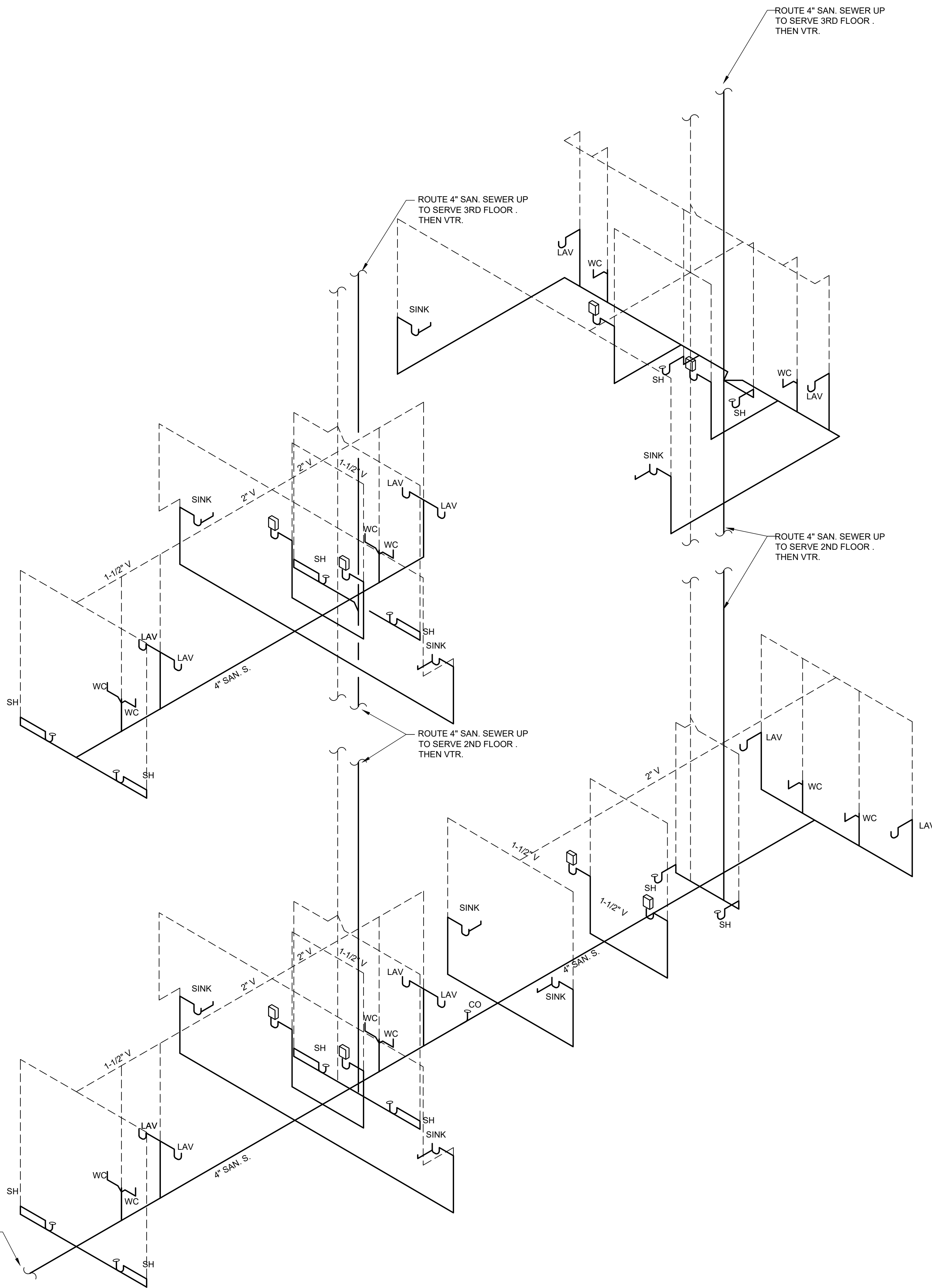

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DATE: 7-7-22  
DRAWN BY: LRC  
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SHEET TITLE:  
PLUMBING  
RISER BLDG 'A'  
PLAN WEST

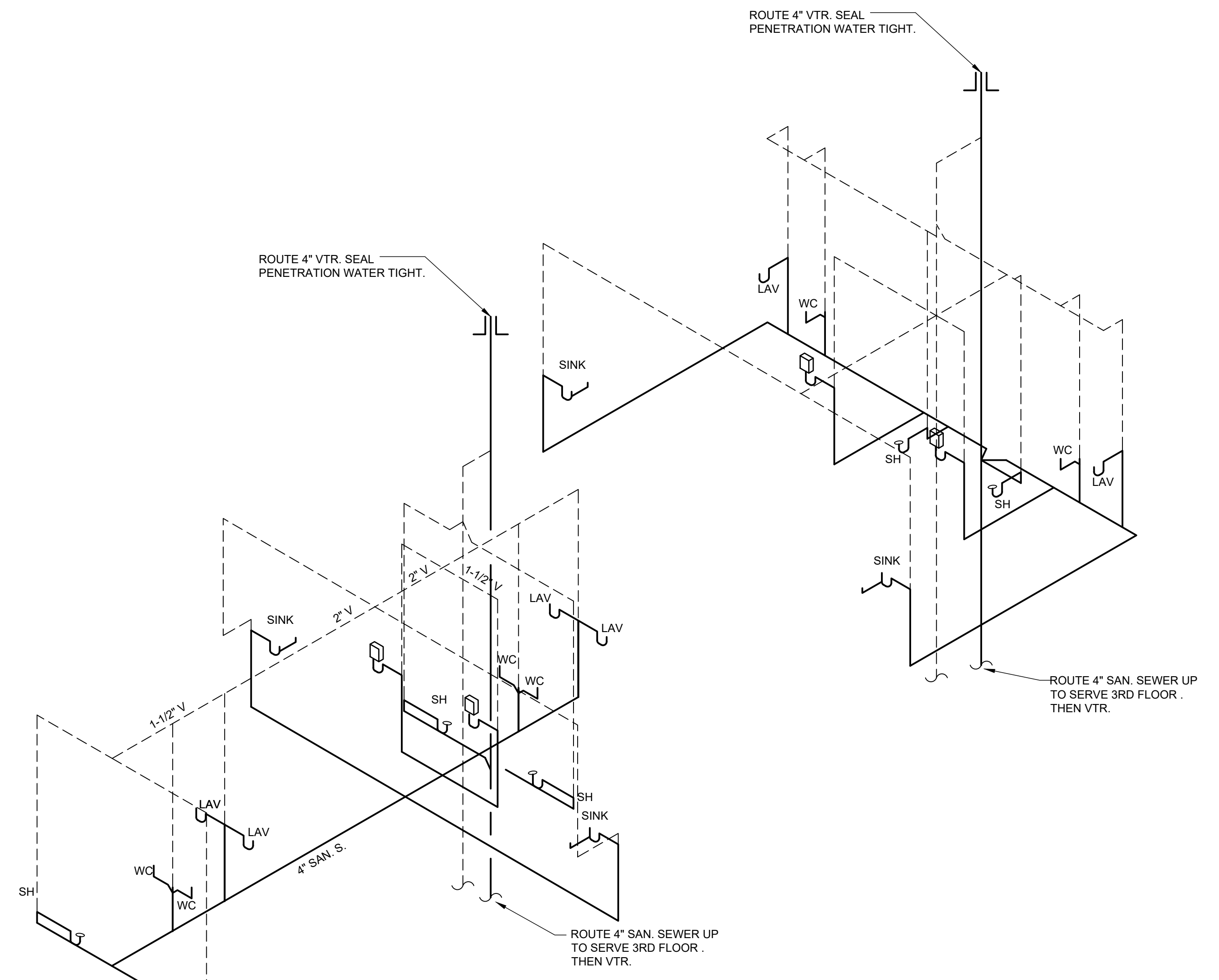
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P3.0





**BUILDING A - SEWER RISER - PLAN EAST - 1ST & 2ND FLOOR**  
NOT TO SCALE

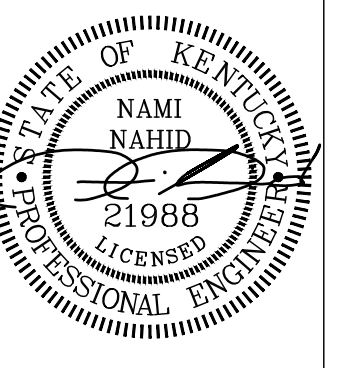
SEE BLDG 'A' 1ST FLOOR PLAN WEST FOR CONTINUATION



**BUILDING A - SEWER RISER - PLAN EAST - 3RD FLOOR**  
NOT TO SCALE

**MIDDLEBRIDGE APARTMENTS**  
MIDDLEBRIDGE ROAD  
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ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax



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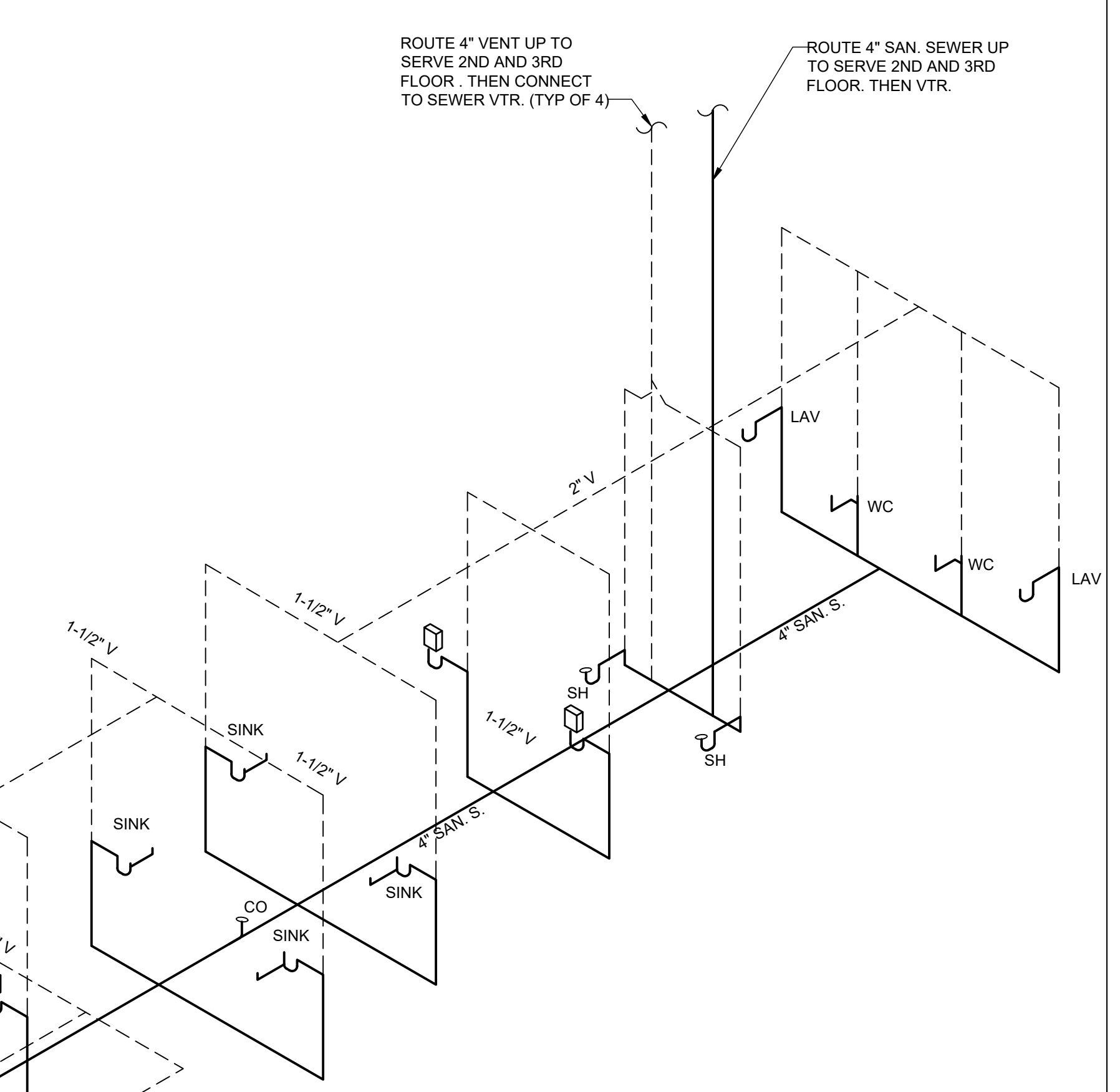
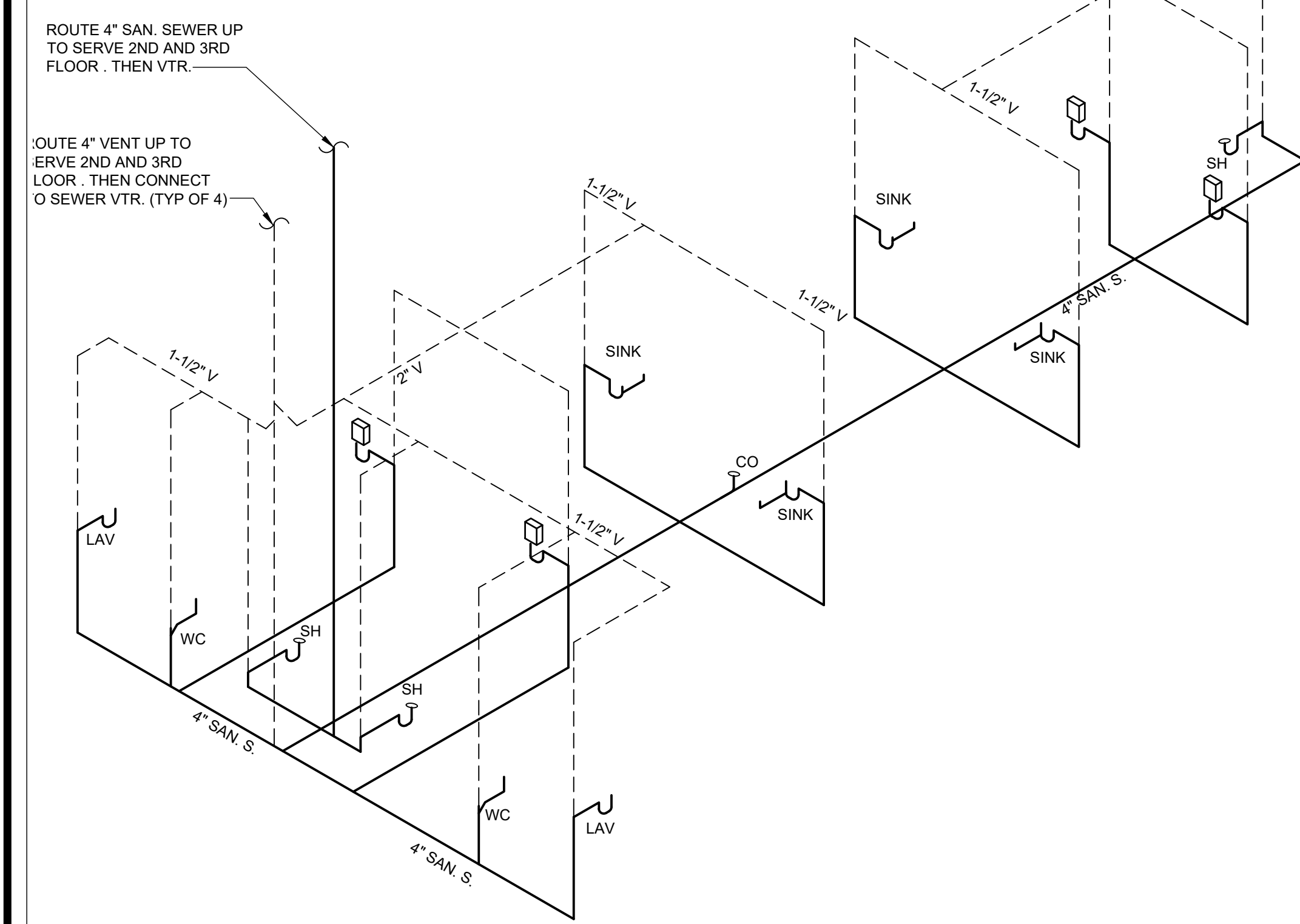
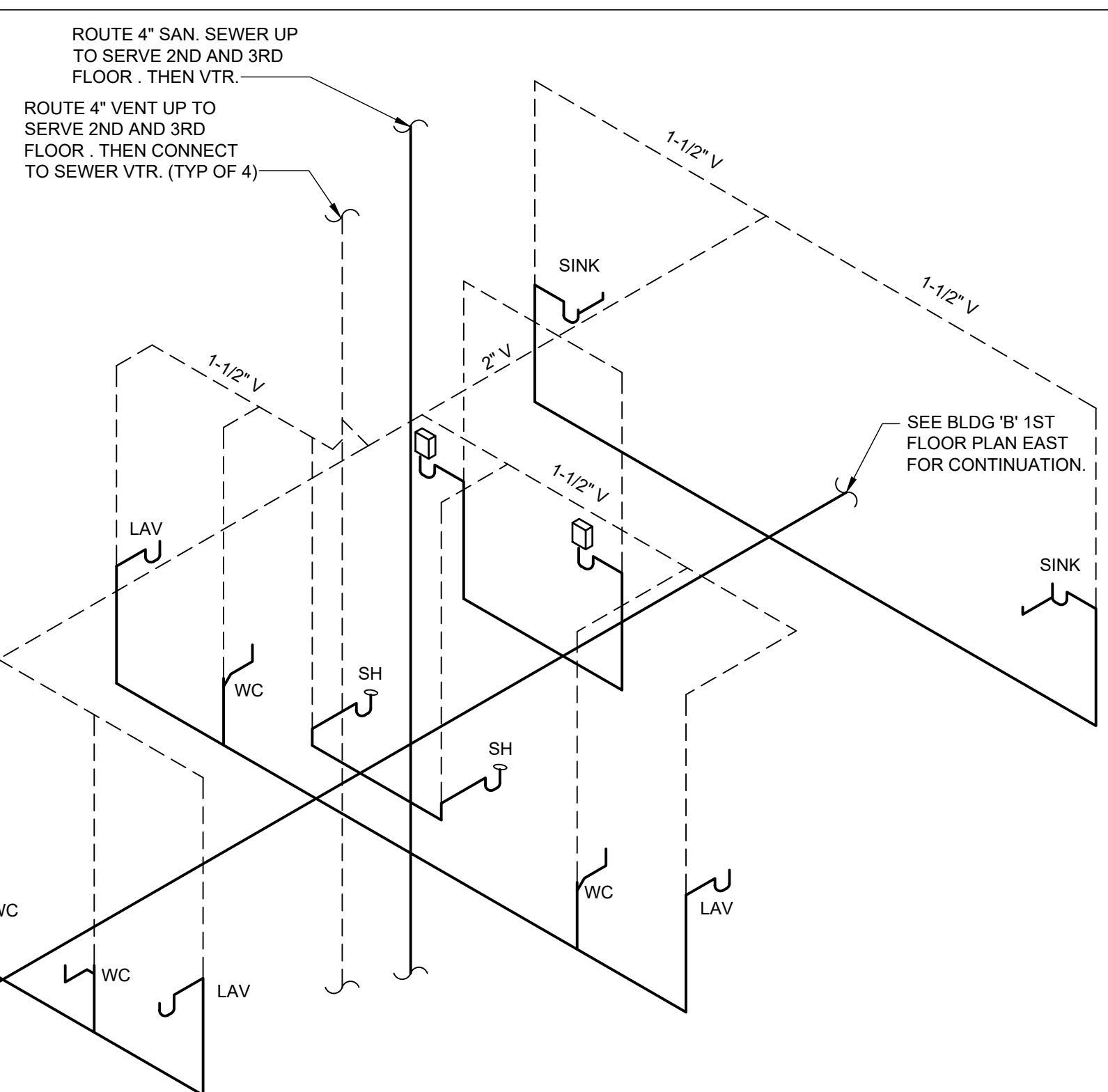
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**PLUMBING RISER BLDG 'A' PLAN EAST**

SHEET NO:  
**P3.1**







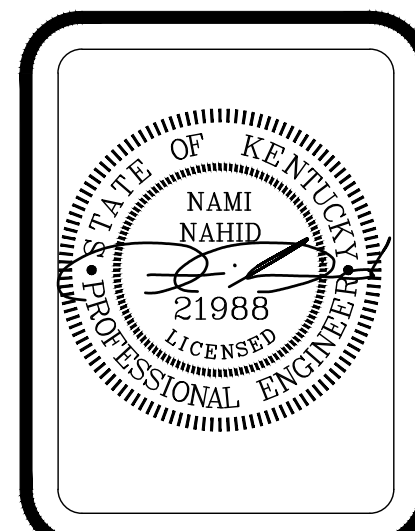
**BUILDING B - SEWER RISER - PLAN WEST - 1ST FLOOR**  
NOT TO SCALE

**BUILDING B - SEWER RISER - PLAN EAST - 1ST FLOOR**  
NOT TO SCALE

MIDDLEBRIDGE APARTMENTS  
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**WILLIAMS**  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax

**WILLIAMS**  
associates  
architects



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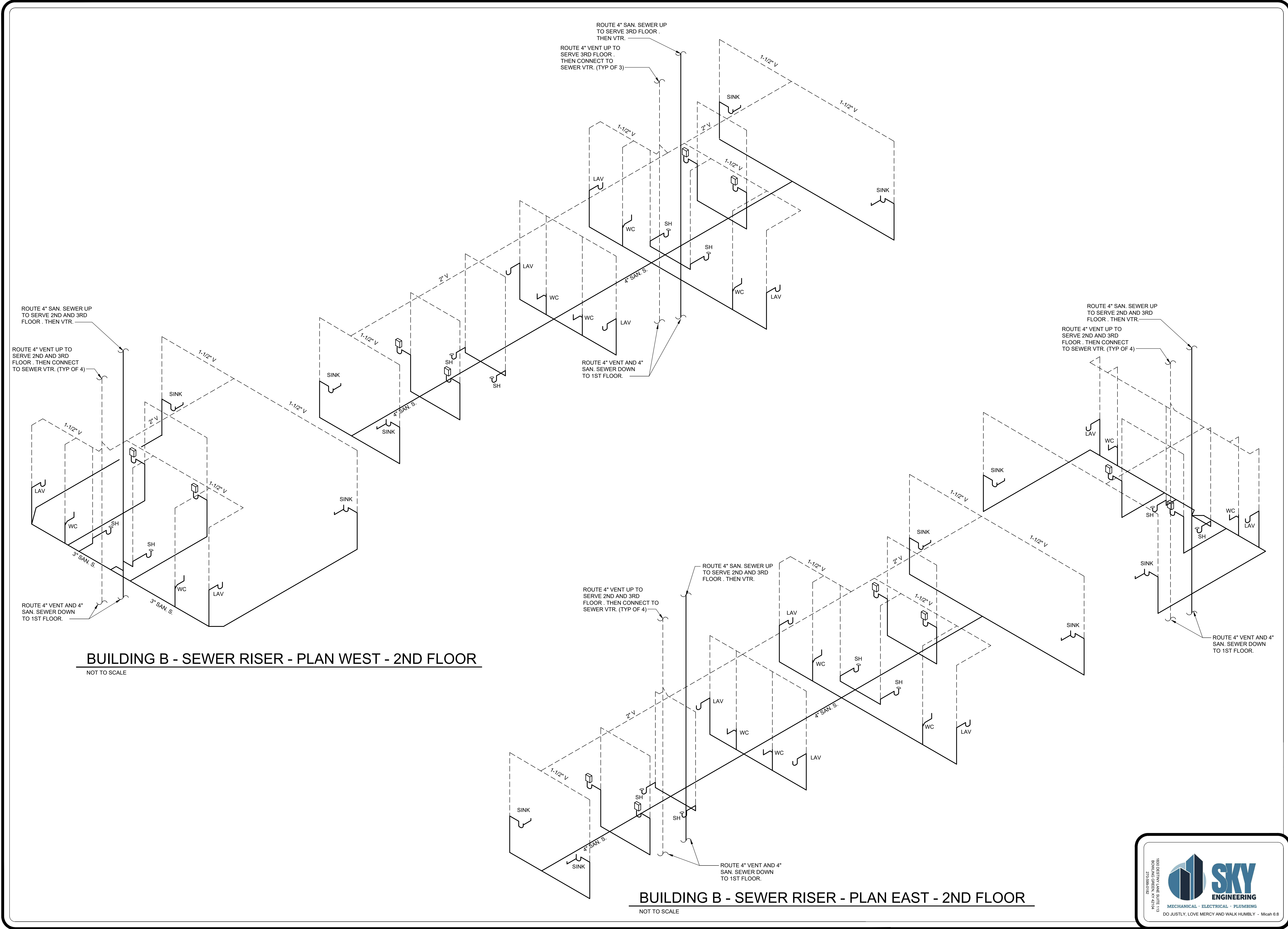

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PLUMBING  
RISER BLDG 'B'  
1ST FLOOR

SHEET NO:  
P3.2





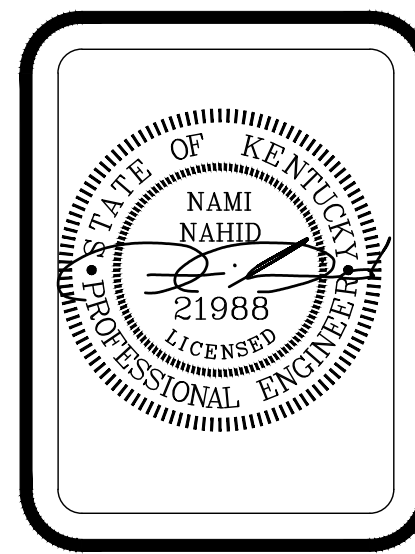
**BUILDING B - SEWER RISER - PLAN WEST - 2ND FLOOR**  
NOT TO SCALE

**BUILDING B - SEWER RISER - PLAN EAST - 2ND FLOOR**  
NOT TO SCALE

MIDDLEBRIDGE APARTMENTS  
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**WILLIAMS**  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax

**WILLIAMS**  
associates  
architects



REVISIONS:


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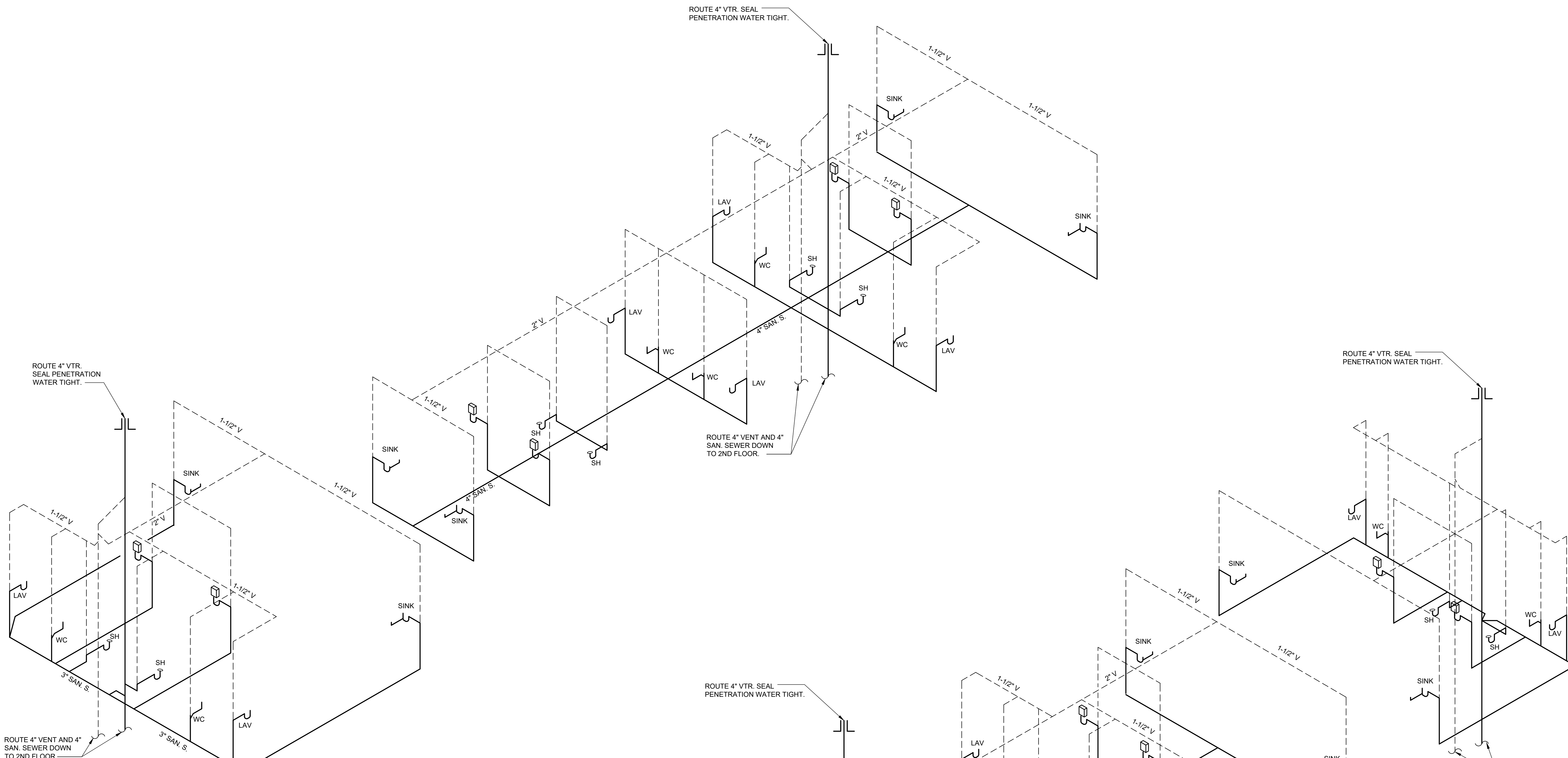
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PLUMBING  
RISER BLDG 'B'  
2ND FLOOR

SHEET NO:  
P3.3



ROUTE 4" VTR. SEAL PENETRATION WATER TIGHT.



ROUTE 4" VTR. SEAL PENETRATION WATER TIGHT.

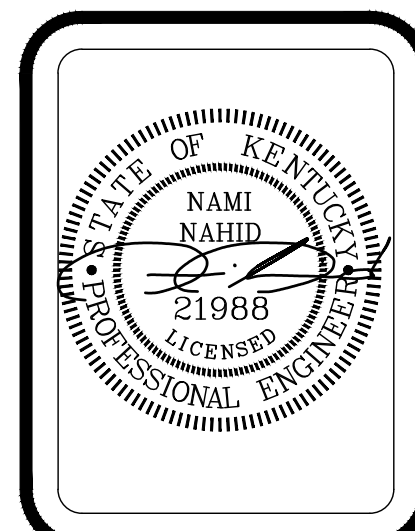
ROUTE 4" VTR. SEAL PENETRATION WATER TIGHT.

**BUILDING B - SEWER RISER - PLAN WEST - 3RD FLOOR**  
NOT TO SCALE

**BUILDING B - SEWER RISER - PLAN EAST - 3RD FLOOR**  
NOT TO SCALE

MIDDLEBRIDGE APARTMENTS  
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**WILLIAMS**  
ASSOCIATE ARCHITECTS  
John Williams, Architect  
1136 South Park Drive, Suite 102  
Bowling Green, KY 42103  
270-782-2273 270-782-2173 Fax



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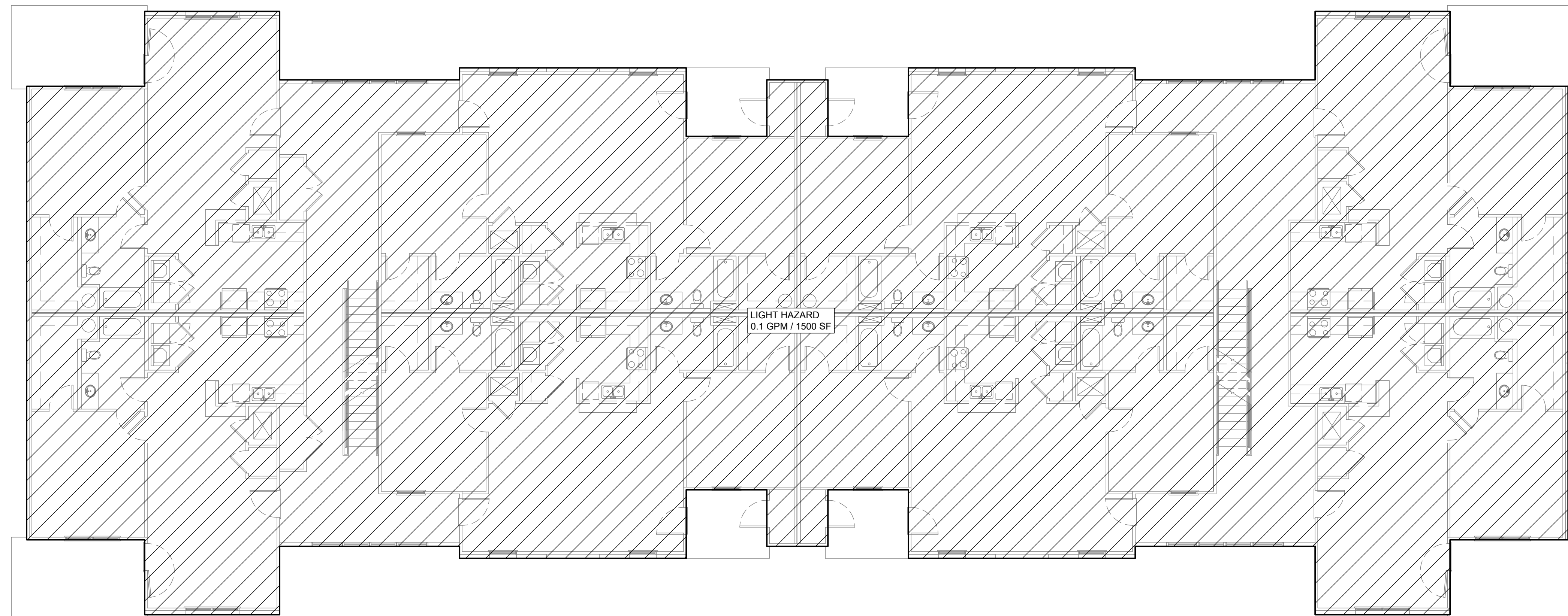

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RISER BLDG 'B'  
3RD FLOOR

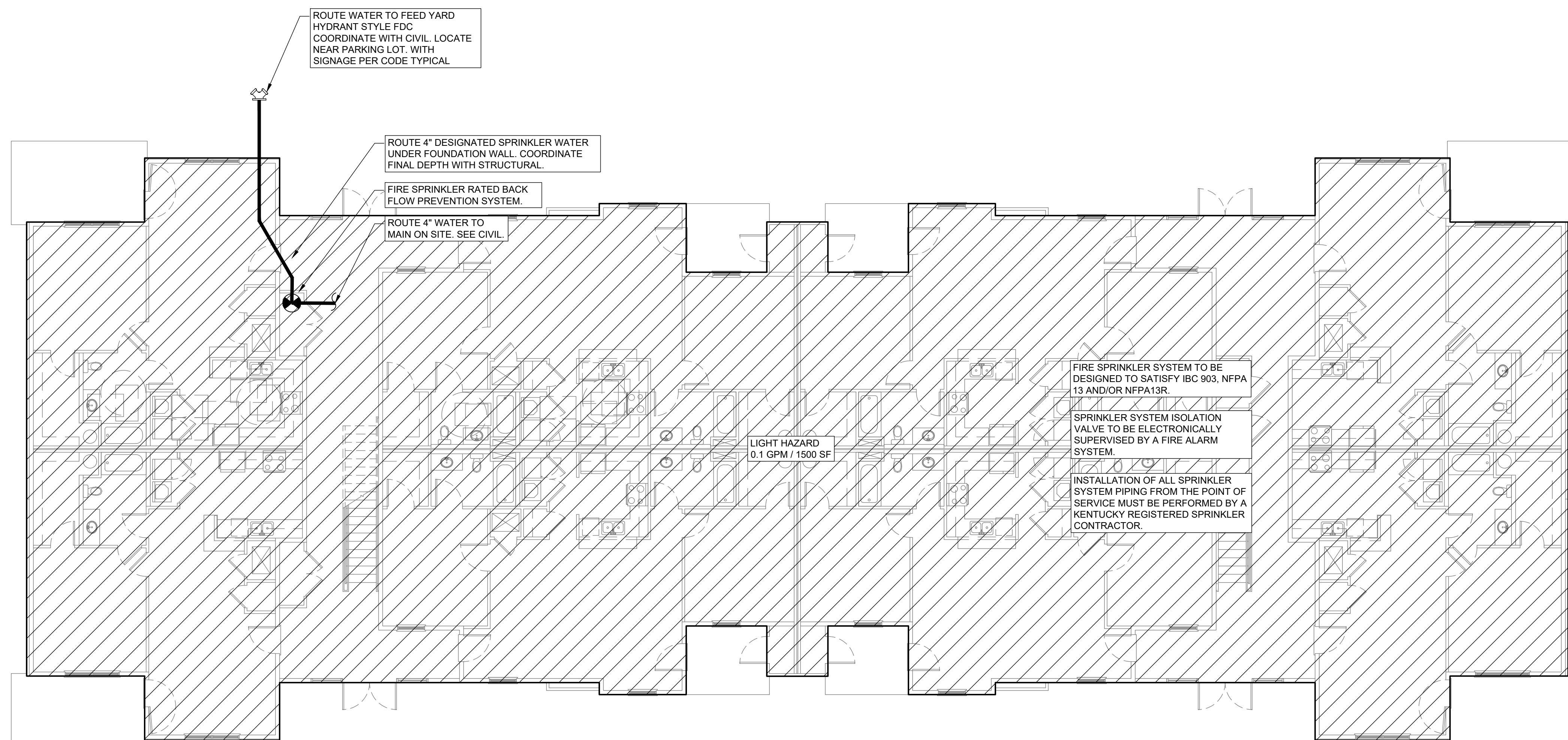
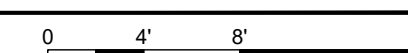
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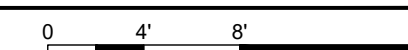
**2 FIRE PROTECTION DESIGN INTENT - BUILDING 'A' SECOND AND THIRD FLOOR**

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



**1 FIRE PROTECTION DESIGN INTENT - BUILDING 'A' FIRST FLOOR**

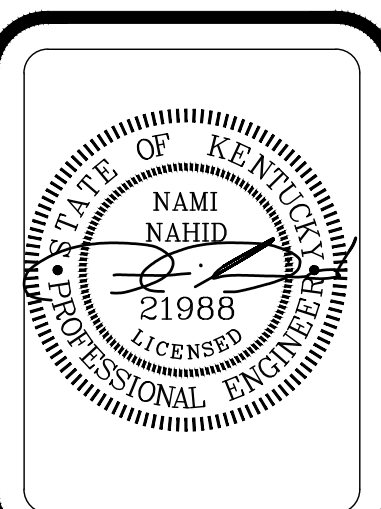
SCALE: 1/8"=1'-0"



**DESIGN INTENT NOTES**

1. FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA 13 / NFPA 13R & ALL APPLICABLE STATE AND LOCAL CODES. THIS PLAN INDICATES THE INTENT OF THE DESIGN. CONTRACTOR HAS THE OPTION TO REDESIGN PIPING PROVIDED THE INTENT OF THE DESIGN IS NOT ALTERED.
2. ADHERE TO AND OBTAIN ALL PERMITS, LICENSES AND GOVERNMENT REQUIREMENTS.
3. FINAL INSPECTION AND APPROVAL BY LOCAL FIRE DEPARTMENT AND ARCHITECT/ENGINEER.
4. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT.
5. CURRENT FLOW TEST TO BE COMPLETED BY CONTRACTOR PRIOR TO INSTALL.
6. PIPE ROUTING SHOWN CAN BE USED OR EQUIVALENT AND ANY ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY EXISTING STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND AVOID ANY/OALL OBSTRUCTIONS OR INTERFERENCES WITH FIRE PROTECTION PIPE ROUTING.
7. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILING, FLOORS, ROOFS ETC. FLASH AND COUNTER FLASH / ROOF PENETRATIONS. (SEE FIRE RATED PIPE PENETRATION DETAIL).
8. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILING AND CHASES.
9. SPRINKLER HEADS ARE TO BE COORDINATED WITH ALL EXISTING/NEW DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS.
10. SYSTEM TO BE CREATED IN A WAY IT CAN BE DRAINED IN ITS ENTIRETY.
11. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE IN ACCORDANCE WITH NFPA 13/R.
12. AUTOMATIC SPRINKLER TEMPERATURE RATINGS OF FUSIBLE ELEMENTS TO BE IN ACCORDANCE WITH NFPA 13/R.
13. ALL VALVES FOR FIRE SERVICE SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES, INC. AND THE FACTORY MUTUAL LABORATORIES. VALVES SHALL BE FACTORY MARKED "UL" AND "FM", 175 WORKING PRESSURE.
14. ALL VALVES ON THE FIRE PROTECTION SYSTEM SHALL BE ELECTRICALLY SUPERVISED. TYPE AND EXACT LOCATION OF FLOW, PRESSURE AND SUPERVISORY SWITCHES SHALL BE ACCOMPLISHED BETWEEN THE DIFFERENT RESPONSIBLE TRADES. THEY SHALL BE ACCESSIBLE FOR OPERATION, INSPECTION AND MAINTENANCE.
15. ALL POWER WIRING SHALL BE ACCOMPLISHED UNDER THE ELECTRICAL DIVISION. CONTROL AND INTERLOCK WIRING SHALL BE ACCOMPLISHED UNDER THIS SECTION OF THE SPECIFICATIONS IN ACCORDANCE WITH THE REQUIREMENTS IN THE ELECTRICAL DIVISION. COORDINATE ALL ELECTRICAL ITEMS WITH ELECTRICAL CONTRACTOR AND INSURE PROPER COORDINATION.
16. A SPRINKLER HEAD SHALL BE INSTALLED NO FURTHER THAT 7"-6" FROM EITHER SIDE OF A MAGNETICALLY HELD OPEN SMOKE DOOR.
17. PROVIDE A PERMANENTLY ATTACHED NAME TAG STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY DESIGNED SYSTEM.
18. SPRINKLERS SHALL COVER THE ENTIRE AREA OF THE ROOM INCLUDING ALCOVES. SPRAY SHALL NOT BE BLOCKED BY WALLS OR PARTITIONS.
19. ALL SPRINKLER HEADS MOUNTED IN CEILING SHALL BE LOCATED A MINIMUM OF 4"AWAY FROM ANY WALLS, CEILING HEIGHT CHANGES OR ANY OTHER VERTICAL INTERSECTING SURFACE.
20. PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY.
21. MAINTAIN A MINIMUM OF 18 INCHES FROM THE BOTTOM OF THE SPRINKLER DEFLECTOR TO THE TOP OF STORAGE/FILE STORAGE.
22. PROVIDE SYSTEM(S) WITH FLUSHING CONNECTION(S).
23. PROVIDE SPRINKLERS ABOVE AND BELOW EXPOSED DUCTWORK 4 FEET AND WIDER.
24. PROVIDE TAMPER SWITCHES AT ALL CONTROL VALVES.
25. INSPECTOR'S TEST VALVE SHALL NOT EXCEED 7 FEET ABOVE THE FINISHED FLOOR.

**WILLIAMS ASSOCIATE ARCHITECTS**  
 John Williams, Architect  
 1136 South Park Drive, Suite 102  
 Bowling Green, KY 42103  
 270-782-2273 270-782-2173 Fax



REVISIONS:


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SHEET TITLE:  
**FIRE PROTECTION DESIGN INTENT BUILDING 'A'**

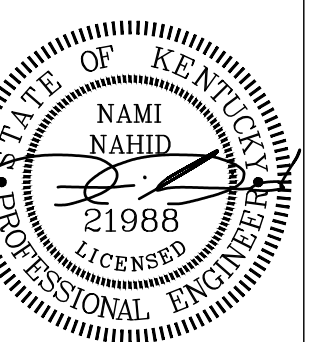
SHEET NO:  
**FP1.0**



**MIDDLEBRIDGE APARTMENTS  
 MIDDLEBRIDGE ROAD  
 BOWLING GREEN, KENTUCKY**

MIDDLEBRIDGE APARTMENTS  
MIDDLEBRIDGE ROAD  
BOWLING GREEN, KENTUCKY

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1136 South Park Drive, Suite 102  
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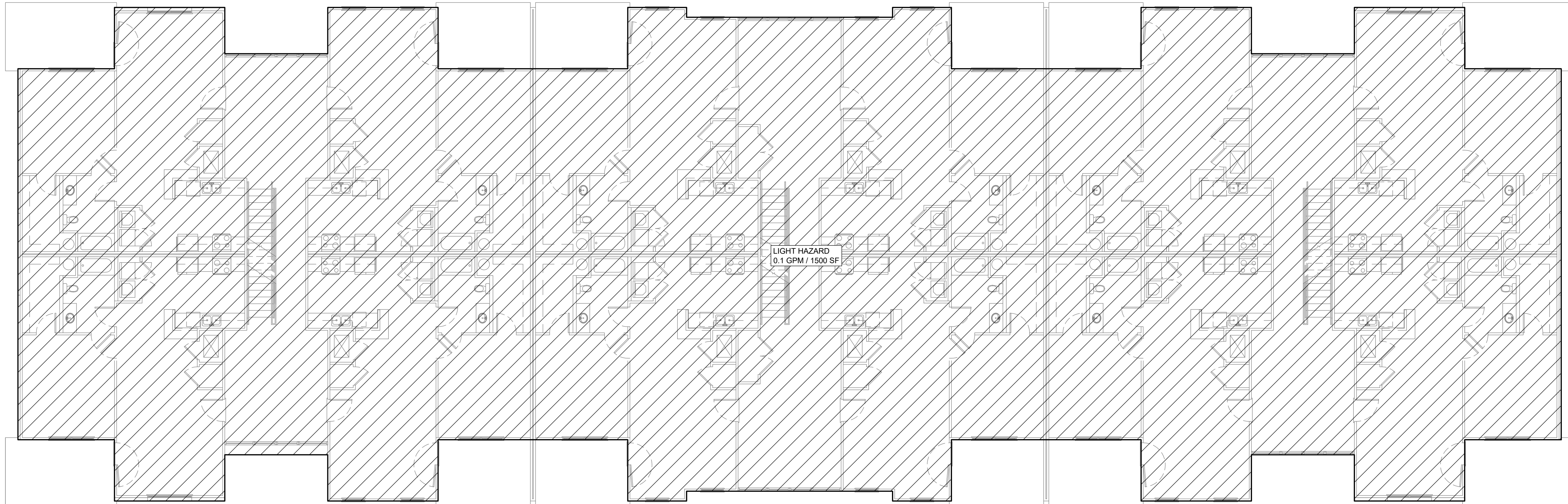
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DATE: 7-7-22  
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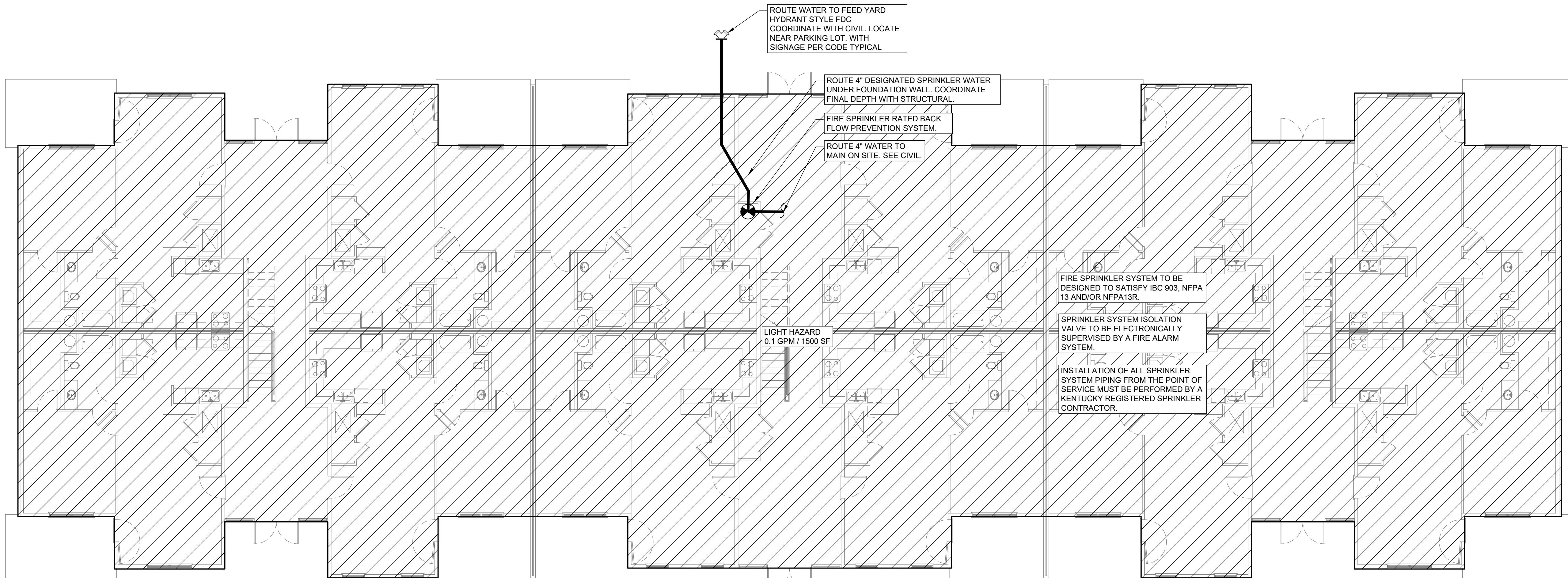
SHEET TITLE:  
FIRE PROTECTION  
DESIGN INTENT  
BUILDING 'B'

SHEET NO.:

FP1.1

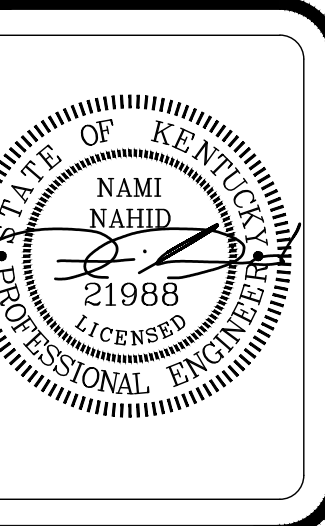


**2** FIRE PROTECTION DESIGN INTENT - BUILDING 'B' SECOND AND THIRD FLOOR  
SCALE: 1/8"=1'-0"



**1** FIRE PROTECTION DESIGN INTENT - BUILDING 'B' FIRST FLOOR  
SCALE: 1/8"=1'-0"





REVISIONS:


CADD FILE:

DATE: 7-7-22  
DRAWN BY: LRC  
CHECKED BY: NN

SHEET TITLE:  
FIRE PROTECTION  
DESIGN INTENT  
DETAILS

SHEET NO:  
FP2.0

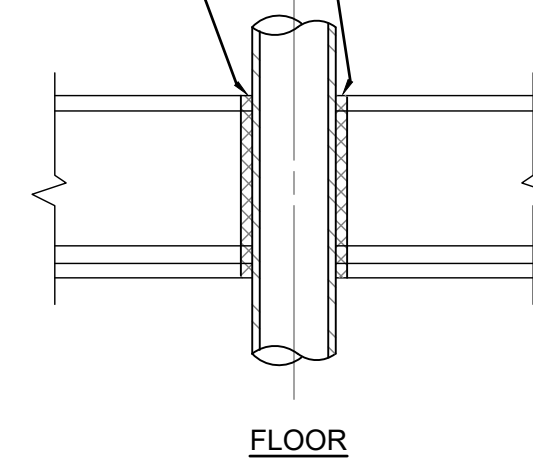
**SEISMIC PROTECTION NOTES**

PARAGRAPH AND SECTION REFERENCES ARE TO NFPA 13 2007 EDITION

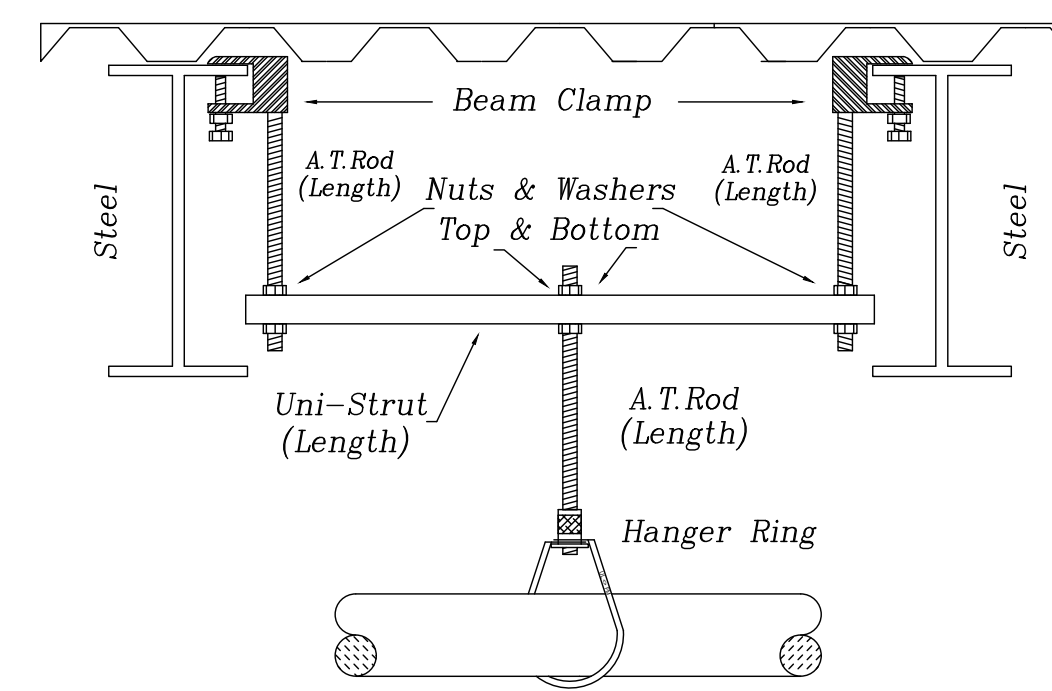
1. LISTED FLEXIBLE COUPLINGS SHALL BE PROVIDED ACCORDING TO SECTION 9.3.2 INCLUDING BUT NOT LIMITED TO AREAS OF STRUCTURAL SEPARATIONS, AT THE TOP AND BOTTOM OF RISERS, ABOVE AND BELOW THE SECOND FLOOR PENETRATIONS, ON BOTH SIDES OF MASONRY WALL PENETRATIONS UNLESS CLEARANCE IS PROVIDED IN ACCORDANCE WITH 9.3.4 AND AT THE TOP OF DROPS EXCEEDING 15 FT. IN LENGTH.
2. SEISMIC SEPARATION ASSEMBLIES SHALL BE INSTALLED WHERE PIPING CROSSES SEISMIC SEPARATION JOINTS ABOVE GROUND LEVEL. SECTION 9.3.3
3. CLEARANCE SHALL BE PROVIDED AROUND PIPES ACCORDING TO SECTION 9.3.4.
4. LATERAL SWAY BRACING SHALL BE INSTALLED ACCORDING TO TABLE 9.3.5.3.2(A) AND (B) AS APPLICABLE WITH MAXIMUM SPACING OF 40 FT.
5. LONGITUDINAL SWAY BRACING SHALL BE INSTALLED ACCORDING TO SECTION 9.3.5.4 AT A MAXIMUM CENTER TO CENTER DIMENSION OF 80 FT.
6. RISERS OVER 3 FT. IN LENGTH SHALL BE EQUIPPED WITH 4 WAY BRACES ACCORDING TO SECTION 9.3.5.5.

SEAL 1/2" SLEEVE WITH TIGHTLY PACKED APPROPRIATE RATED MATERIAL (TYPE IA) FOR TRUSS BETWEEN FLOOR AND ROOF TRUSSES

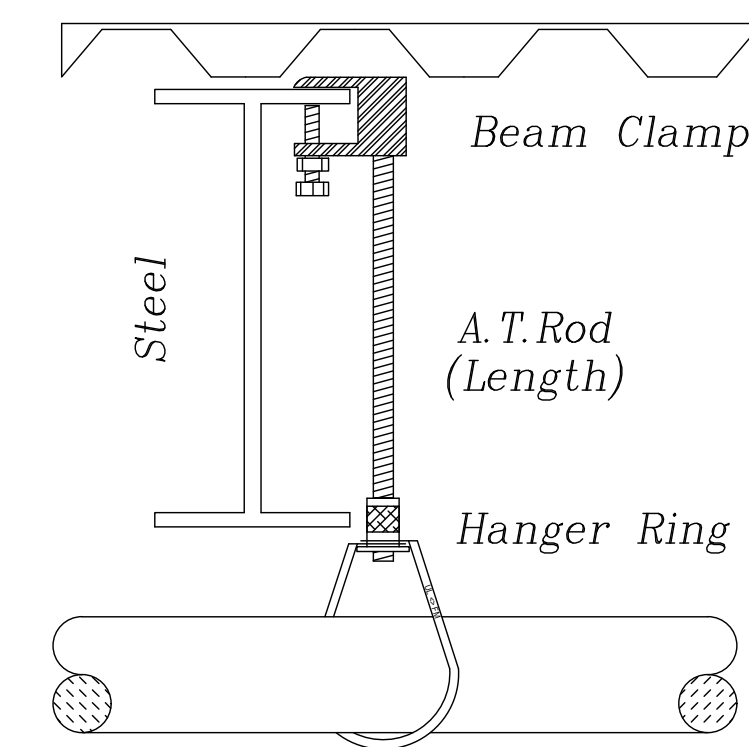
FIRE CAULK PER FINAL UL RATING COORDINATE WITH SPRINKLER CONTRACTOR AND ARCHITECT



**PIPE SLEEVE THRU FLOOR DETAIL**  
NO SCALE

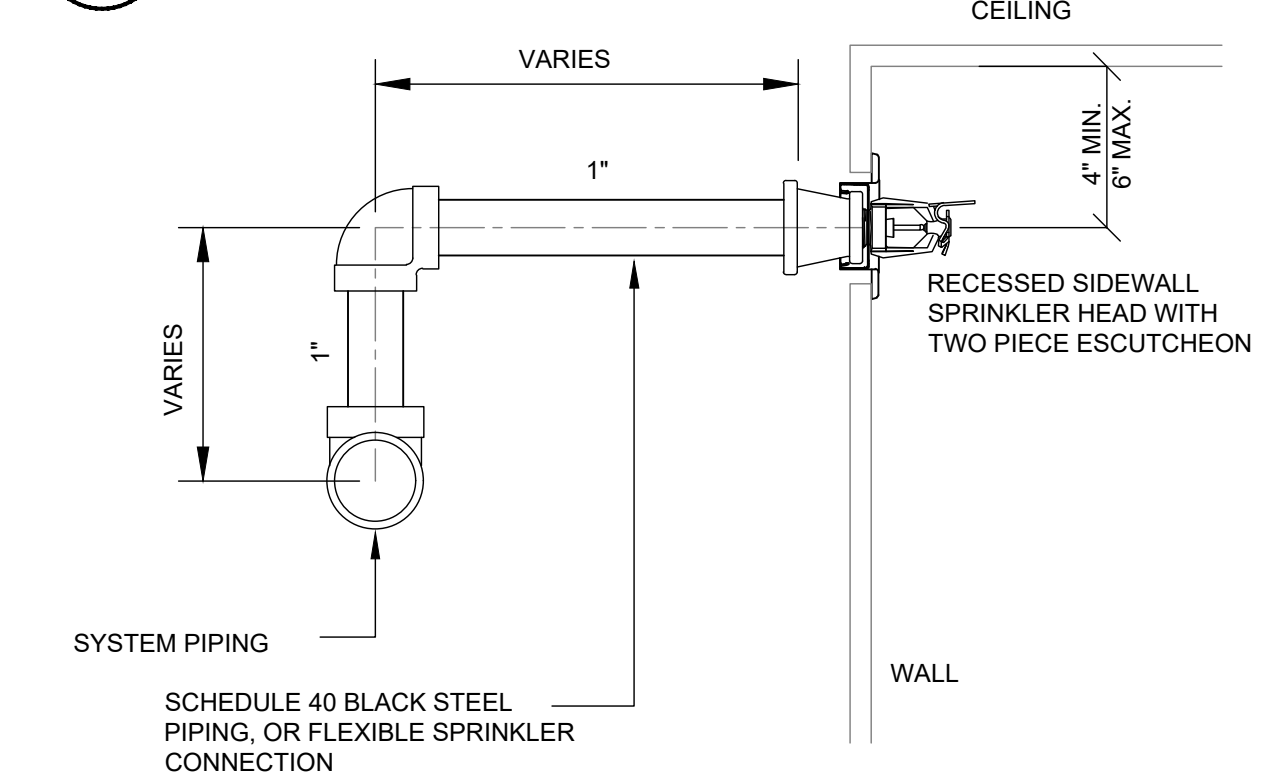


TYPICAL HANGER



TYPICAL HANGER

**3 UNDERGROUND STUB UP W/ ROD**  
NOT TO SCALE



**TYPICAL SIDEWALL SPRINKLER HEAD DTL**  
NOT TO SCALE