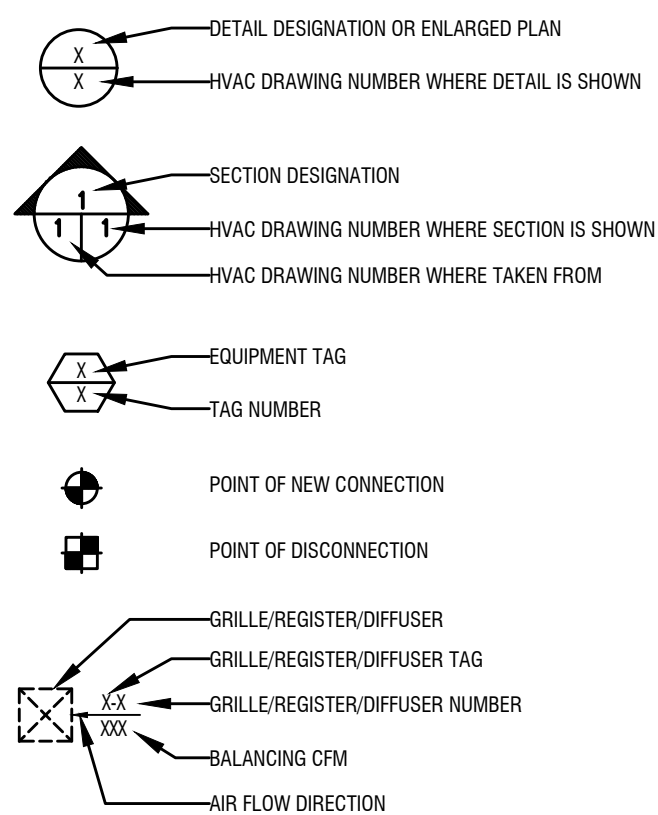


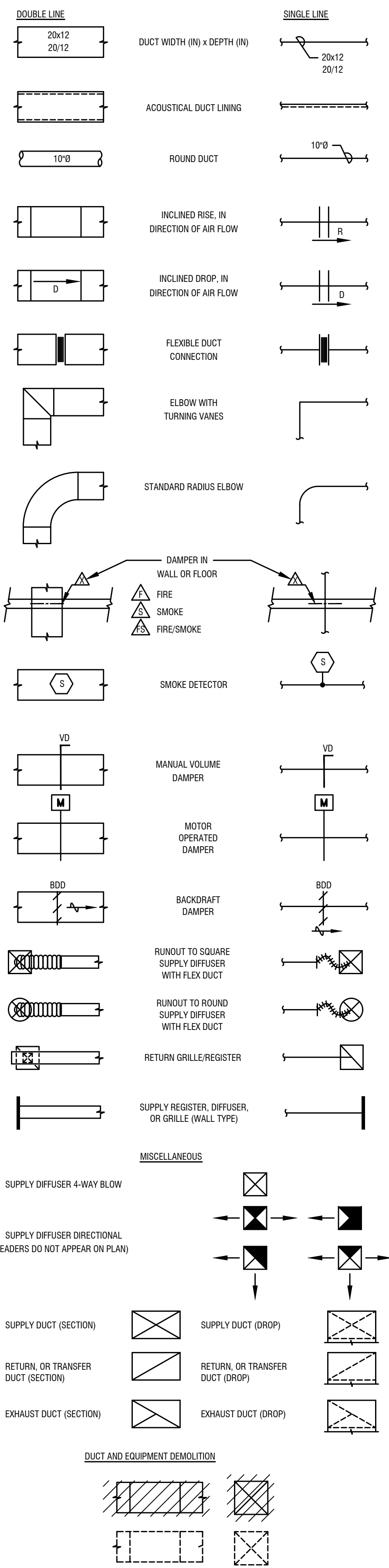
MECHANICAL ABBREVIATIONS

AC	ALTERNATING CURRENT	KW	KILOWATTS
ACC	AIR COOLED CONDENSER	KWH	KILOWATT HOUR
ACU	AIR CONDITIONING UNIT		
AD	ACCESS DOOR		
ADJ	ADJUSTABLE	LAT	LEAVING AIR TEMPERATURE (°F)
AF	AIR FOL	LBS/#	POUNDS
AFF	ABOVE FINISHED FLOOR	LD	LINEAR DIFFUSER
AHU	AIR HANDLING UNIT	LF	LINEAR FEET
AP	ACCESS PANEL	LWT	LEAVING WATER TEMPERATURE (°F)
ARCH	ARCHITECTURE		
ATC	AUTOMATIC TEMPERATURE CONTROL		
ATM	ATMOSPHERE	MOD	MOTOR OPERATED DAMPER
AUX	AUXILIARY	MAU	MAKEUP AIR UNIT
AVG	AVERAGE	MAX	MAXIMUM
AWG	AMERICAN WIRE GAUGE	MB	MIXING BOX
		1000 BTUH	MECHANICAL CONTRACTOR
B	BOILER	MSH	MOTOR CONTROL CENTER
BDD	BACKDRAFT DAMPER	MCC	MOTOR CONTROL CENTER
BOD	BRAKE HORSEPOWER	MFR	MANUFACTURER
BOD	BOTTOM OF DUCT	MIN	MINIMUM
BOS	BOTTOM OF STEEL	MMSC	MISCELLANEOUS
BTU	BRITISH THERMAL UNIT	MMBH	1,000,000 BTUH
BTUH	BTU PER HOUR		
		NA	NOT APPLICABLE
CAV	CONSTANT AIR VOLUME	NC	NOISE CRITERIA, dB RE 20 uPa
CC	COOLING COIL	NC	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	NC	NOT IN CONTRACT
CH	CHILLER	NO	NORMALLY OPEN
CAI	CONTROLS & INSTRUMENTATION	NTS	NOT TO SCALE
CEILING			
CMU	CONCRETE MASONRY UNIT	OAT	OUTSIDE AIR
CO	CARBON MONOXIDE	OA	OUTSIDE AIR TEMPERATURE
CO2	CARBON DIOXIDE	OAD	OUTSIDE AIR DAMPER
COND	CONDENSATE	OSD	OPPOSITE BLADE DAMPER
CONN	CONNECTION	OZ	OUNCE
CONT.	CONTINUATION		
CORR	CORRIDOR	P	PUMP
CT	COOLING TOWER	PC	PLUMBING CONTRACTOR
CU	CONDENSING UNIT	PD	PRESSURE DROP
CUH	CABINET UNIT HEATER	PH	PHASE
CV	CONTROL VALVE	PHC	PREHEAT COIL
CU FT	CUBIC FEET	PROP	PROPELLER
CVS	CONTROL VALVE STATION	PSI	POUNDS PER SQUARE INCH
		PSIG	PSI GAUGE
D	DIFFUSER OR REGISTER	P+F	PITCH AND FLOW
dB	DECIBEL, RE 10 WATT	QTY	QUANTITY
DBT	DRY BULB TEMPERATURE (°F)		
DDC	DIRECT DIGITAL CONTROL		
DEG	DEGREE FAHRENHEIT (°F)		
DIA	DIAMETER		
DM	DIMENSION	R	REGISTER
DN	DOWN	RA	RETURN AIR
DP	DEW POINT TEMPERATURE (°F)	RC	ROOM CRITERIA, dB RE 20 uPa
DX	DIRECT EXPANSION	RF	RETURN/RELIEF AIR FAN
DWG	DRAWING	RH	RELATIVE HUMIDITY
		RHD	REHEAT COIL
		RPM	REVOLUTIONS PER MINUTE
E	EXHAUST		
EA	EXHAUST AIR	S	SMOKE DETECTOR
EAT	ENTERING AIR TEMPERATURE (°F)	SA	SUPPLY AIR
EC	ELECTRICAL CONTRACTOR	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EER	ENERGY EFFICIENCY RATIO	SENS	SENSIBLE
EF	EXHAUST FAN	SF	SQUARE FEET
EFF	EFFICIENCY	SP	STATIC PRESSURE (IN. WG.)
ELEV	ELEVATION	SPEC	SPECIFICATION
ESP	EXTERNAL STATIC PRESSURE	SQ	SQUARE
ET	EXPANSION TANK	SS	STAINLESS STEEL
EWT	ENTERING WATER TEMPERATURE (°F)	SV	SOLENOID VALVE
F	FILTER		
FA	FACE AREA	T	THERMOSTAT
FC	FORWARD CURVED	TEMP	TEMPERATURE (°F)
FCU	FAN COIL UNIT	TOD	TOP OF DUCT
FD	FLOOR DRAIN	TOP	TOP OF PIPE
FLR	FLOOR	TOS	TOP OF STEEL
FP	FIRE PROTECTION	TSP	TOTAL STATIC PRESSURE
FRM	FEET PER MINUTE	TSTAT	THERMOSTAT
FR	FINED RADIATION	TxD	TRANSFER DUCT
FT	FEET	TYP	TYPICAL
FVEL	FACE VELOCITY	UC	UNDER DUCT
F&T	FLOAT AND THERMOSTATIC	UH	UNIT HEATER
		UL	UNDERWRITERS LABORATORY
GA	GAUGE OR GAGE	UV	UNIT VENTILATOR
GAL	GALLON	UVL	ULTRA VIOLET LIGHT
GALV	GALVANIZED		
GC	GENERAL CONTRACTOR	V	VALVE, VOLT
GH	GRAVITY HOOD	VA	VOLT-AMPERE
GPM	GALLONS PER MINUTE	VD	VOLUME DAMPER
		VEL	VELOCITY
HC	HEATING COIL	VFD	VARIABLE FREQUENCY DRIVE
HDA	HAND-OFF-AUTOMATIC	VV	VAV, WITH FAN
HP	HORSEPOWER	VOL	VOLUME
HR	HOUR		
HVU	HEATING & VENTILATING UNIT	W	WATT
HWS	HOT WATER SUPPLY TEMPERATURE	WB	WET BULB TEMPERATURE (°F)
HX	HEAT EXCHANGER	WC	WATER COLUMN
		WG	WIRE GAUGE
IB	INVERTED BUCKET TRAP	WMS	WIRE MESH SCREEN
IFB	INTEGRAL FACE & BYPASS		
IN	INCH		
IPS	IRON PIPE SIZE		

DRAWING SYMBOLS



DUCTWORK SYMBOLS



GENERAL PIPING NOTES:

1. INSTALL PIPING TO ALLOW ACCESS VALVES, AIR VENTS, EQUIPMENT REQUIRING ACCESS, AND TO PROVIDE MAXIMUM HEADROOM.
 2. PROVIDE OFFSETS TO MAINTAIN CEILING HEIGHT AND TO COORDINATE WITH OTHER TRADES.
 3. INSTALL VALVES IN HORIZONTAL PIPING WITH VALVE STEMS AT OR ABOVE THE PIPE CENTERLINE.
 4. ARRANGE PIPING FOR VENTING OF AIR AND DRAINAGE OF THE ENTIRE SYSTEM.
 5. INSTALL CONDENSATE DRAIN PIPING PITCHED AT 1/8" PER FOOT IN DIRECTION OF FLOW.
- GENERAL DUCTWORK NOTES:
1. CHANGES IN SHAPE OR DIMENSION SHALL BE MADE WITH MAXIMUM TRANSITION OF 1 TO 7.
 2. SEPARATE GALVANIZED SHEET METAL FROM ALUMINUM OR COPPER WITH LEAD OR FELT GASKETS.
 3. PROVIDE SUPPLEMENTAL STIFFENING AND SUPPORT TO DUCTS AND APPARATUS CASINGS TO PREVENT DRUMMING, SAGGING, AND TO PROVIDE A STRUCTURALLY SOUND ASSEMBLY.
 4. INSTALL DUCT FROM SHOWER EXHAUST GRILLES GRADING DOWN TO EXHAUST GRILLE, WITHOUT DIPS OR TRAPS.
 5. PROVIDE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER WORK.
 6. PROVIDE DUCTWORK AND TRANSITIONS TO CONNECT DUCTWORK TO EQUIPMENT AND COILS.
 7. INSTALL FLEXIBLE DUCTWORK IN A FULLY EXTENDED CONDITION WITHOUT SAGS OR KINKS.
 8. INSTALL DUCT MOUNTED SMOKE DETECTORS IN ACCESSIBLE LOCATIONS.
 9. UNLESS NOTED OTHERWISE, PROVIDE 1" THICK DUCT LINING FOR A MINIMUM OF 10 FEET OF DUCTWORK FROM THE SUPPLY AIR DISCHARGE AND RETURN AIR INLET OF AIR HANDLING UNITS, ENERGY RECOVERY UNITS, AND BLOWER COILS. FOR ALL LINED DUCTWORK, DIMENSIONS INDICATED ON DRAWINGS SHALL BE INSIDE CLEAR DIMENSIONS MEASURED FROM FACE-OF-LINER TO FACE-OF-LINER. LINING IS NOT REQUIRED FOR TIGHT EXHAUST FANS. ROOF MOUNTED DUCTS ARE TO BE LINED AS DESCRIBED ABOVE AND ARE TO BE INSULATED WITH 2" THICK RIGID INSULATION AND WRAPPED WITH EPDM MATERIAL, SAME COLOR AS ROOF.
 10. INSTALL DUCTS CONVEYING GREASE LADEN AIR AT A PITCH OF 1/4" PER FOOT OPPOSITE THE DIRECTION OF FLOW.

GENERAL AUTOMATIC TEMPERATURE CONTROLS NOTES:

1. TRANSFORMERS OR FILTERS FOR OPERATION OF AUTOMATIC TEMPERATURE CONTROLS FROM BUILDING POWER CIRCUITS SHALL BE PROVIDED UNDER DIVISION 23.
2. WIRING LOWER THAN 110 VOLTS FOR INTERLOCKED DEVICES, DDC CONTROLLERS, TERMINAL CONTROL UNITS, FLOW MEASURING DEVICES, AND OTHER POWER CONSUMING CONTROL DEVICES SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 23. WIRING 110 VOLTS AND HIGHER FOR INTERLOCKED DEVICES, DDC CONTROLLERS, TERMINAL CONTROL UNITS, FLOW MEASURING DEVICES, AND OTHER POWER CONSUMING CONTROL DEVICES SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 26.
3. PROVIDE SUPPLEMENTAL STIFFENING AND SUPPORTS TO DUCTS AND APPARATUS CASINGS TO PREVENT DRUMMING, SAGGING AND TO PROVIDE A STRUCTURALLY SOUND ASSEMBLY.
4. BRANCH CIRCUIT WIRING AND CONDUIT FURNISHED FOR CONTROL EQUIPMENT POWER SHALL BE SEPARATE FROM OTHER POWER WIRING. EACH CIRCUIT SHALL EXTEND TO A 120V BRANCH CIRCUIT PANEL, AND IDENTIFIED 120V, 20 AMPERE, SINGLE POLE BRANCH CIRCUIT BREAKER FURNISHED IN THE PANEL, TO SERVE THE CIRCUIT. NO MORE THAN 2 DDC CONTROLLER INSTALLATIONS SHALL OPERATE FROM A SINGLE 120V BRANCH CIRCUIT, UNLESS INDICATED OTHERWISE.
5. WHERE SYSTEMS ARE SERVED BY EMERGENCY POWER, CONTROLS FOR OPERATION OF THOSE SYSTEMS SHALL ALSO BE SERVED BY EMERGENCY POWER.
6. WHERE DAMPERS PREVENT AIRFLOW THROUGH AN AIR HANDLING UNIT OR FAN, THOSE DAMPERS SHALL BE PROVEN OPEN PRIOR TO STARTING THE UNIT OR FAN. PROOF SHALL BE BY MECHANICAL SAFETY LIMIT SWITCH ACTIVATED BY THE DAMPER BLADE. FOR SERVICE WITH VARIABLE FREQUENCY DRIVES THE SWITCH SHALL BE WIRED IN THE AUTOMATIC AND HAND TEST POSITIONS AND IN THE BYPASS POSITION FOR VARIABLE FREQUENCY DRIVES WITH BYPASS.
7. ALL LOW VOLTAGE WIRING AND AIR PIPING OR TUBING SHALL BE PLENUM RATED. MECHANICAL CONTRACTOR SHALL FURNISH ALL LOW VOLTAGE WIRING, AIR PIPING, AND TUBING REQUIRED FOR AUTOMATIC TEMPERATURE CONTROLS SYSTEMS. LOW VOLTAGE WIRING IS ALL WIRE OPERATING AT A VOLTAGE LOWER THAN 110 VOLTS.
8. ALL TEMPERATURE CONTROL SHALL HAVE A 5 DEGREE DEAD-BAND WITH OVERLAP RESTRICTIONS. EQUIPMENT SHALL BE PROVIDED WITH AT LEAST ONE MEANS OF EMERGENCY SHUT DOWN. SET BACK CONTROL SHALL ALLOW FOR AUTOMATIC RESTART AS WELL AS TEMPORARY OPERATION AS REQUIRED BY MAINTENANCE.

ADDITIONAL MECHANICAL REQUIREMENTS:

1. DRAWINGS ARE SCHEMATIC IN NATURE INTENDED TO DEMONSTRATE CODE COMPLIANCE FOR THE PURPOSE OF OBTAINING A CONSTRUCTION PERMIT. THE CONTRACTOR SHALL ASSURE THE PROPER INSTALLATION AND OPERATION OF ALL ASSOCIATED SYSTEMS.
2. THE INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES.
3. PROVIDE R-4 (INSTALLED VALUE) DUCTWORK INSULATION WITH VAPOR BARRIER IN INTERIOR SPACES. INSTALL PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS. INSULATION SHALL BE PROVIDED ON RETURN AIR SYSTEMS WHERE THE DUCTWORK IS NOT LOCATED IN UNHEATED SPACES. WHERE DUCTWORK IS INSTALLED OUTSIDE, PROVIDE R-12 BOARD WITH WEATHER PROOF JACKET. MATERIALS SHALL BE COMPLIANCE WITH ALL APPLICABLE ASTM TESTS AS WELL AS NFPA 90A AND 90B.
4. DUCTWORK SHALL BE GALVANIZED SHEET STEEL IN THE GAUGE AS REQUIRED PER THE LATEST VERSION OF SMACNA GUIDELINES.
5. PROVIDE SUPPLEMENTAL STIFFENING AND SUPPORTS TO DUCTS AND APPARATUS CASINGS TO PREVENT DRUMMING, SAGGING AND TO PROVIDE A STRUCTURALLY SOUND ASSEMBLY.
6. PROVIDE ALL DUCTWORK FITTINGS INCLUDING BUT NOT LIMITED TO TEES, TAPS, ELBOWS, VOLUME DAMPERS ETC IN ACCORDANCE WITH THE LATEST VERSION OF SMACNA GUIDELINES.
7. COORDINATE ELECTRICAL POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. PROVIDE MEANS OF DISCONNECT FOR EQUIPMENT AS REQUIRED.
8. THE CONTRACTOR SHALL ADJUST DUCTWORK AND EQUIPMENT LAYOUT IN FIELD AS REQUIRED TO FACILITATE A NEAT AND HIGH QUALITY INSTALLATION.
9. PROVIDE CONTROL WIRING AND DEVICES IN COMPLIANCE WITH THE CURRENTLY ADOPTED VERSION OF THE NATIONAL ELECTRIC CODE.
10. DO NOT INSTALL SERVICEABLE EQUIPMENT WITHIN 10' OF ROOF EDGES
11. DO NOT INSTALL AIR INTAKES WITHIN 10' OF EXHAUST TERMINALS OR PLUMBING VENTS
12. FURNISH IOM MANUALS AND AS-BUILT DRAWINGS WITH 90 DAYS OF COMPLETION OF WORK
13. ALL EXPOSED DUCTWORK SHALL BE DOUBLE WALLED OR INTERNALLY LINED TO PREVENT THE FORMATION OF CONDENSATION.
14. ALL REFRIGERATION PIPING SHALL BE ACR TYPE COPPER TUBE WITH BRAZED FITTINGS, SIZED IN ACCORDANCE WITH ASSOCIATED EQUIPMENT MANUFACTURERS WRITTEN INSTRUCTIONS. INSULATE ALL REFRIGERANT PIPING WITH 1" FLEXIBLE ELASTOMERIC LINER. PROVIDE INSULATION MANUFACTURER'S WEATHER-PROOF MASTIC FOR ALL OUTDOOR INSTALLATIONS.

PRIME CONTRACT NOTE

THIS PROJECT IS SELF PRIME CONTRACTS. THE M.C. SHALL BE RESPONSIBLE FOR ALL CUTTING PATCHING, ETC. FOR THEIR WORK. THE M.C. SHALL MEET, REPORT WORK PROGRESS, ALL SHUTDOWNS, ETC. WITH OWNER. M.C. SHALL COORDINATE WITH ALL OTHER TRADES. SEE FRONT END SPECIFICATIONS FOR DETAILS.

GENERAL MECHANICAL NOTES:

1. CODES AND STANDARDS LISTED IN SPECIFICATIONS AND DRAWINGS ARE MINIMUM STANDARDS. WHERE REQUIREMENTS ON THE DRAWINGS OR SPECIFICATIONS EXCEED THE MINIMUM CODE REQUIREMENTS, THE DRAWINGS OR SPECIFICATIONS SHALL GOVERN.
2. THE POWER RATING OF MOTORS AND OTHER MECHANICAL EQUIPMENT AND THE ELECTRICAL CHARACTERISTICS OF ELECTRICAL SYSTEMS SERVING THEM HAVE BEEN ESTABLISHED AS MINIMUMS WHICH ALLOW THAT EQUIPMENT TO FUNCTION PROPERLY TO PRODUCE THE REQUIRED CAPACITIES. POWER RATINGS INCLUDE REASONABLE SAFETY FACTORS TO ACCOMMODATE COMMON DIFFERENCES BETWEEN DESIGN PARAMETERS AND FIELD CONSTRUCTION PRACTICES. EQUIPMENT WITH POWER RATINGS LESS THAN THOSE INDICATED ON THE DRAWINGS SHALL NOT BE PERMITTED.
3. REASONABLE EFFORTS HAVE BEEN MADE TO COORDINATE ELECTRICAL REQUIREMENTS OF MECHANICAL EQUIPMENT WITH THE ELECTRICAL SYSTEMS SERVING THAT EQUIPMENT. DIFFERENCES AMONG MANUFACTURERS OF MECHANICAL EQUIPMENT MAKE IT IMPOSSIBLE TO PRODUCE A SINGLE ELECTRICAL DESIGN WHICH WILL SATISFY THE VARYING ELECTRICAL REQUIREMENTS OF THE THOSE MANUFACTURERS. CONSEQUENTLY, THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL REQUIREMENTS OF THE MECHANICAL EQUIPMENT ACTUALLY FURNISHED ON THIS PROJECT WITH THE EQUIPMENT ACTUALLY FURNISHED ON THIS PROJECT AND PROVIDE ELECTRICAL SYSTEMS REQUIRED BY THAT EQUIPMENT. THIS COORDINATION EFFORT SHALL BE COMPLETED PRIOR TO THE INSTALLATION OF EITHER THE MECHANICAL EQUIPMENT OR THE ELECTRICAL SYSTEMS SERVING THAT EQUIPMENT. ELECTRICAL SYSTEM REVISIONS REQUIRED TO COORDINATE WITH THE MECHANICAL EQUIPMENT ACTUALLY FURNISHED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
4. DRAWINGS INDICATE GENERAL LOCATIONS OF FIXTURES, APPARATUS, EQUIPMENT, PIPING, AND DUCTWORK. CHANGES ON LOCATION SHALL BE MADE TO ACCOMMODATE EXISTING OR NEW BUILDING CONDITIONS AND COORDINATION WITH OTHER TRADES, INCLUDING HVAC, PLUMBING, ELECTRICAL, FIRE PROTECTION, STRUCTURAL, AND ARCHITECTURAL, SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
5. THOROUGHLY CLEAN/FLUSH EXISTING AND NEW HYDRONIC PIPING SYSTEMS WITH CLEAN WATER. AFTERWARDS, REMOVE AND CLEAN OR REPLACE STRAINER SCREENS.
6. ALL HVAC SYSTEMS SHALL BE TESTED AND BALANCED ACCORDING TO NEBB AND SMACNA STANDARDS. PROVIDE REPORT UPON COMPLETION.
7. PROVIDE ACCESS TO EQUIPMENT AND PORTIONS OF BUILDING SYSTEMS REQUIRING SERVICE.
8. DO NOT INSTALL DUCTWORK, PIPING, OR EQUIPMENT IN ELECTRICAL ROOMS, ELEVATOR ROOMS, OR ELEVATOR SHAFTS, UNLESS EXPLICITLY INDICATED ON THE DRAWINGS. PIPING, DUCTWORK, AND EQUIPMENT (SWITCHGEAR, SWITCHBOARDS, PANELS, MOTOR CONTROL CENTERS, VARIABLE FREQUENCY DRIVES, TRANSFORMERS, OR STARTERS) SHALL NOT BE INSTALLED DIRECTLY ABOVE OR 42" IN FRONT OF ELECTRICAL EQUIPMENT FROM THE FLOOR TO THE STRUCTURE ABOVE.
9. PROVIDE START UP AND COMMISSIONING OF ALL EQUIPMENT PROVIDED IN COMPLIANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS. PROVIDE START UP AND WARRANTY PAPERWORK AT THE COMPLETION OF WORK. WORK SHALL BE COMPLETED BY THE MANUFACTURER OR A MANUFACTURERS' CERTIFIED FIRM OR TECHNICIAN. CONFIRM CALIBRATION OF ALL SENSORS AND ADJUST AS REQUIRED.
10. UNLESS INDICATED OTHERWISE, EQUIPMENT AND MATERIALS SHALL BE NEW AND OF THE CUSTOMARY STANDARD AND QUALITY FURNISHED BY THE DESIGNATED MANUFACTURER FOR THAT CATALOG NUMBER.
11. AIR SYSTEMS SHALL OPERATE WITHOUT AERODYNAMIC NOISE GENERATED FROM FAULTY INSTALLATION OF DUCTWORK, DIFFUSERS, OR ANY PORTION OF THE AIR DISTRIBUTION SYSTEM.
12. SUPPORT PIPING INDEPENDENTLY OF EQUIPMENT. HANGER RODS SHALL BE SUSPENDED FROM THE STRUCTURE. DO NOT SUSPEND FROM OTHER PIPING, CONDUIT, EQUIPMENT, OR DUCTWORK.
13. ALL WORK REFERENCED UNDER DIVISION 23 SHALL BE DONE BY THE MECHANICAL CONTRACTOR.
14. DRAWINGS INDICATE DESIGN INTENT. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INSTALLATIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES TO ACHIEVE THE PROPER INSTALLATION OF ALL EQUIPMENT.
15. ALL PIPING, DUCTWORK, INSULATION, CONDUITS, SUPPORTS AND HVAC EQUIPMENT EXPOSED TO VIEW SHALL BE PAINTED, COLOR SHALL BE SELECTED BY ARCHITECT.
16. WHERE DUCTWORK IS EXPOSED DUCT SEAMS SHALL BE MINIMIZED AND SHALL BE OF HIGH QUALITY WORKMANSHIP. ALL DUCTWORK SHALL BE CONSTRUCTED AND SEALED IN ACCORDANCE WITH SMACNA STANDARDS.
17. ALL MATERIALS EXPOSED WITHIN THE PLENUM SHALL BE NON COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E-84.

PIPING SYMBOLS

GENERAL	(NAME) E	EXISTING PIPE
	(NAME)	EXISTING PIPE TO BE REMOVED
HEATING		AIR CONDITIONING & REFRIGERATION
---	A	COMPRESSED AIR
---	ATV	ATMOSPHERIC VENT
----	PC	PUMPED CONDENSATE
---	MU	MAKE-UP WATER (COLD WATER FILL)
---	VAC	VACUUM AIR
---	HWS	LOW TEMPERATURE HOT WATER SUPPLY
----	HWR	LOW TEMPERATURE HOT WATER RETURN
---	HPS	HIGH PRESSURE STEAM
---	MPS	MEDIUM PRESSURE STEAM
---	LPS	LOW PRESSURE STEAM
----	HPC	HIGH PRESSURE CONDENSATE
----	MPC	MEDIUM PRESSURE CONDENSATE
----	LPC	LOW PRESSURE CONDENSATE
---	CS	CONDENSER WATER SUPPLY
----	CR	CONDENSER WATER RETURN
----	DTS	DUAL TEMPERATURE WATER SUPPLY
----	DTR	DUAL TEMPERATURE WATER RETURN
---	D	DRAIN LINE
---	FILL	FILL LINE
---	RL	REFRIGERANT LIQUID
----	RS	REFRIGERANT SUCTION
---	CWS	CHILLED WATER SUPPLY
----	CWR	CHILLED WATER RETURN
----	HCWS	LOW TEMPERATURE CHILLED WATER SUPPLY
----	HCWR	LOW TEMPERATURE CHILLED WATER RETURN
----	GCS	GLYCOL COOLING FLUID SUPPLY
----	GCR	GLYCOL COOLING FLUID RETURN

ALL INSTALLATIONS AND MATERIALS SHALL MEET THE FOLLOWING:

1. INTERNATIONAL BUILDING CODE: 2018
2. INTERNATIONAL FIRE CODE: 2018
3. INTERNATIONAL ENERGY CONSERVATION CODE: 2018
4. INTERNATIONAL MECHANICAL CODE: 2018
5. INTERNATIONAL FUEL GAS CODE: 2018
6. ALL FEDERAL, STATE AND LOCAL ORDINANCES

CONTROL SYMBOLS

⊖	THERMOSTAT	⊠	DIFFERENTIAL PRESSURE SENSOR	⊠	AIR FLOW SENSOR	⊠	FUSED DISCONNECT
⊖	CO2 SENSOR	⊠	STATIC PRESSURE SENSOR	⊠	WATER FLOW SENSOR	⊠	MOTOR STARTER
⊖	CO SENSOR	⊠	SMOKE DETECTOR	⊠	CURRENT SENSING RELAY	⊠	COMBINATION STARTER DISCONNECT
⊖	TEMPERATURE SENSOR	⊠	MOTOR STARTER CONTACT	⊠	LIMIT SWITCH	⊠	USER DEFINED
⊖	EMERGENCY BOILER SHUTOFF	⊠	CONTROL RELAY	⊠	LIMIT SWITCH	⊠	USER DEFINED
⊠	DUCT OR PIPE MOUNTED TEMPERATURE SENSOR	⊠	MOTORIZED ACTUATOR	⊠	TRANSFORMER W/ LOAD SIDE DISCONNECT		
⊠	FREEZE STAT	⊠	MOTORIZED ACTUATOR W/ END SWITCH	⊠	UN FUSED DISCONNECT		

PIPING SYMBOLS

PIPING SPECIALTIES & FITTINGS

⊠	AV	AUTOMATIC AIR VENT
⊠	MV	MANUAL AIR VENT
⊠	⊠	CONCENTRIC REDUCER OR INCREASER
⊠	⊠	ECCENTRIC REDUCER OR INCREASER
⊠	⊠	TOP CONNECTION, 45 DEG OR 90 DEG
⊠	⊠	BOTTOM CONNECTION, 45 DEG OR 90 DEG
⊠	⊠	SIDE CONNECTION OR TEE FITTING
⊠	⊠	CAPPED OUTLET
⊠	⊠	CHANGE IN ELEVATION OF PIPE
⊠	⊠	PIPE RISE OR ELBOW TURNED UP
⊠	⊠	PIPE DROP OR ELBOW TUNED DOWN
⊠	⊠	UNION OR FLANGE
⊠	⊠	STRAINER
⊠	⊠	STRAINER W/ BLOWDOWN AND HOSE END CONNECTION
⊠	⊠	THERMOMETER
⊠	⊠	PRESSURE GAUGE
⊠	⊠	THERMOMETER WELL
⊠	⊠	NEEDLE VALVE
⊠	⊠	FLOW SWITCH
⊠	⊠	PRESSURE SWITCH
⊠	⊠	TEST PLUG
⊠	⊠	PUMP
⊠	⊠	BLIND FLANGE
⊠	⊠	HOSE END CONNECTION
⊠	⊠	PIPE ANCHOR
⊠	⊠	PIPE GUIDE
⊠	⊠	INLINE EXPANSION JOINT
⊠	⊠	FLOAT & THERMOSTATIC STEAM TRAP
⊠	⊠	INVERTED BUCKET STEAM TRAP
⊠	⊠	HEAT TAP (DIAGRAMMATIC, INSTALL PER MFR) OR AS NOTED ON PLAN
⊠	⊠	BALL
⊠	⊠	BUTTERFLY
⊠	⊠	GATE
⊠	⊠	PLUG
⊠	⊠	CALIBRATED BALANCE/FLOW MEASURE
⊠	⊠	PRESSURE REDUCING VALVE
⊠	⊠	CHECK VALVE (ARROW INDICATED DIRECTION OF FLOW)
⊠	⊠	RELIEF (R) OR SAFETY (S)
⊠	⊠	DRAIN VALVE W/ HOSE CONNECTION AND SEAL CAP
⊠	⊠	TRIPLE DUTY VALVE
⊠	⊠	SOLENOID
⊠	⊠	PRESSURE INDEPENDENT CONTROL VALVE, TWO-WAY
⊠	⊠	PRESSURE INDEPENDENT CONTROL VALVE, THREE-WAY
⊠	⊠	ATC, TWO-WAY
⊠	⊠	ATC, THREE-WAY
⊠	⊠	REFRIGERANT EXPANSION, AUTOMATIC
⊠	⊠	REFRIGERANT EXPANSION, THERMAL
⊠	⊠	REFRIGERANT EXPANSION, ELECTRIC
⊠	⊠	FLOW CONTROL VALVE (A=AUTOMATIC, M=MANUAL)

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Seals:

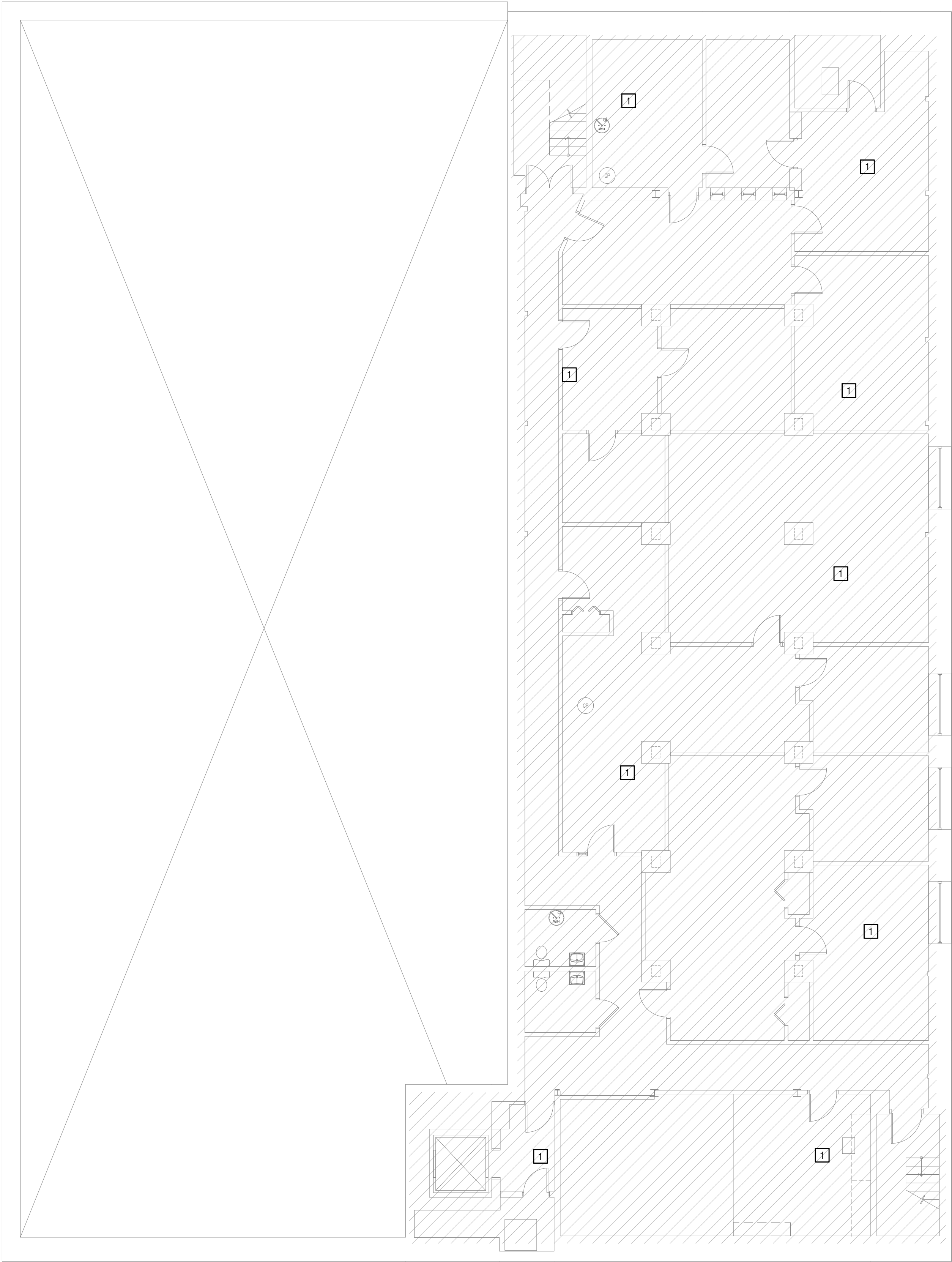
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Revisions | Issues
No: Date:

Phase: PERMIT/PRICING

Project: Apartment Building
Date: 06/15/2026
Drawn: SAS Checked: KJS
Scale: AS NOTED
Sheet: MECHANICAL COVER DRAWING

M-1



GENERAL DEMOLITION NOTES

1. HATCHED AREAS INDICATE MECHANICAL AND HVAC EQUIPMENT TO BE REMOVED, UNLESS OTHERWISE NOTED.
2. THE INTENT OF THE DEMOLITION DRAWINGS IS TO GIVE THE M.C. AN OVERALL SCOPE OF WORK REQUIRED TO COMPLETE THIS PROJECT.

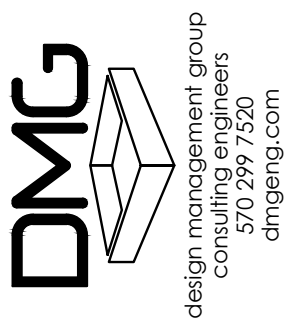


KEYED DEMOLITION NOTES:

- 1 DEMOLISH ALL EXISTING MECHANICAL/HVAC SYSTEMS IN THEIR ENTIRETY, INCLUDING BUT NOT LIMITED TO: EQUIPMENT, DUCTWORK SYSTEMS, PIPING SYSTEMS, CONTROL SYSTEMS, WALL & ROOF PENETRATION TERMINATIONS.

Client: 16-22 Union Street -
Apartment Building
Client: Empire Property Construction
16-22 Union St.
Wilkes-Barre, Pa 18701

Consultants:



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Sheet: MECHANICAL FLOOR PLANS

M-2

- 1 - - 2 - - 3 - - 4 - - 5 - - 6 - - 7 - - 8 - - 9 - - 10 -

- A -

- B -

- C -

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- E -

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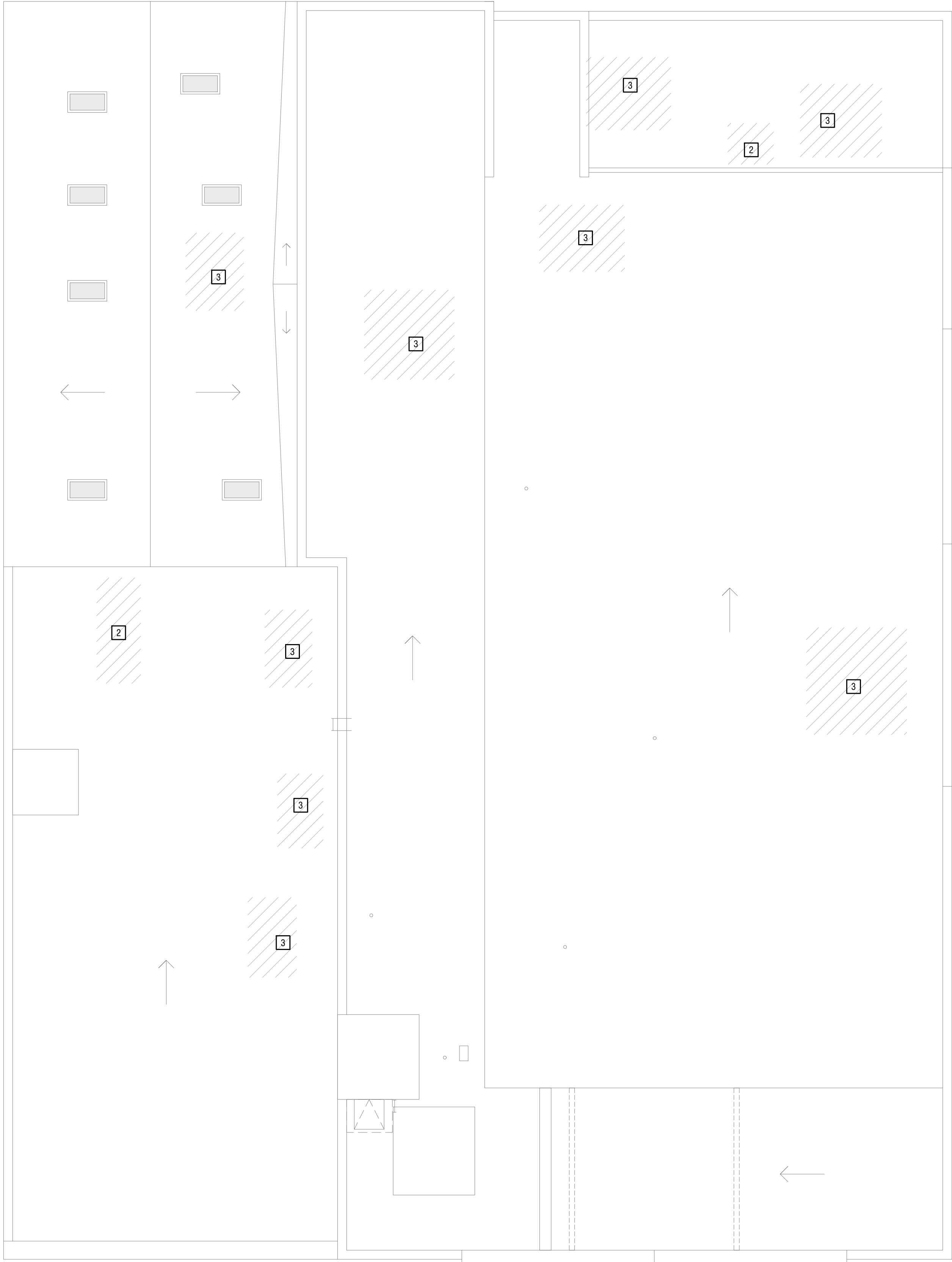
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GENERAL DEMOLITION NOTES

1. HATCHED AREAS INDICATE MECHANICAL AND HVAC EQUIPMENT TO BE REMOVED, UNLESS OTHERWISE NOTED.
2. THE INTENT OF THE DEMOLITION DRAWINGS IS TO GIVE THE M.C. AN OVERALL SCOPE OF WORK REQUIRED TO COMPLETE THIS PROJECT.

1 MECHANICAL DEMOLITION PLAN - FOURTH FLOOR
M-4 SCALE: 3/16" = 1'-0"



KEYED DEMOLITION NOTES:

- 1 DEMOLISH ALL EXISTING MECHANICAL(HVAC) SYSTEMS IN THEIR ENTIRETY, INCLUDING BUT NOT LIMITED TO: EQUIPMENT, DUCTWORK SYSTEMS, PIPING SYSTEMS, CONTROL SYSTEMS, WALL & ROOF PENETRATION TERMINATIONS.
- 2 DEMOLISH EXISTING SPLIT SYSTEM OUTDOOR UNIT AND ITS ASSOCIATED PIPING AND CONTROLS IN ITS ENTIRETY. COORDINATE DEMOLITION WITH G.C. FOR ROOF PATCHING.
- 3 DEMOLISH EXISTING PACKAGED HVAC UNIT AND ITS ASSOCIATED PIPING, DUCTWORK AND CONTROLS IN ITS ENTIRETY. COORDINATE DEMOLITION WITH G.C. FOR ROOF PATCHING. G.C. TO REMOVE UNIT ROOF CURB AND PATCH ROOF.

2 MECHANICAL DEMOLITION PLAN - ROOF OVERALL
M-4 SCALE: 3/16" = 1'-0"

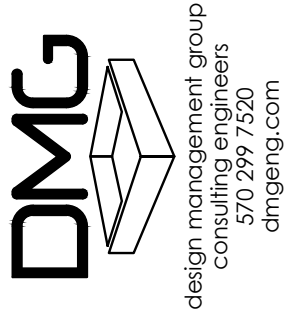
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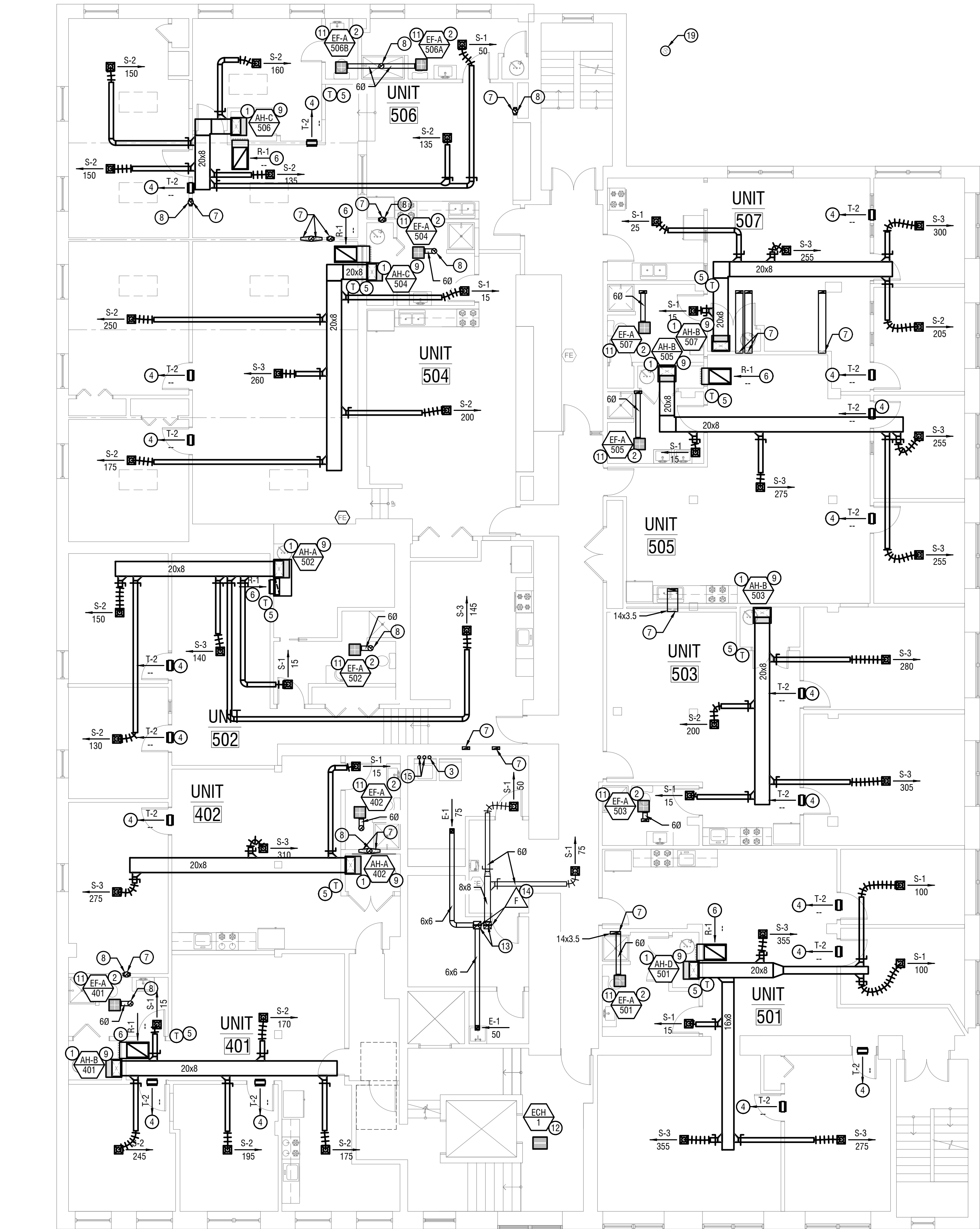
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MECHANICAL FLOOR
PLANS

M-4



1 MECHANICAL PLAN - THIRD FLOOR

M-6 SCALE: 1/8"=1'-0"

GENERAL NOTES

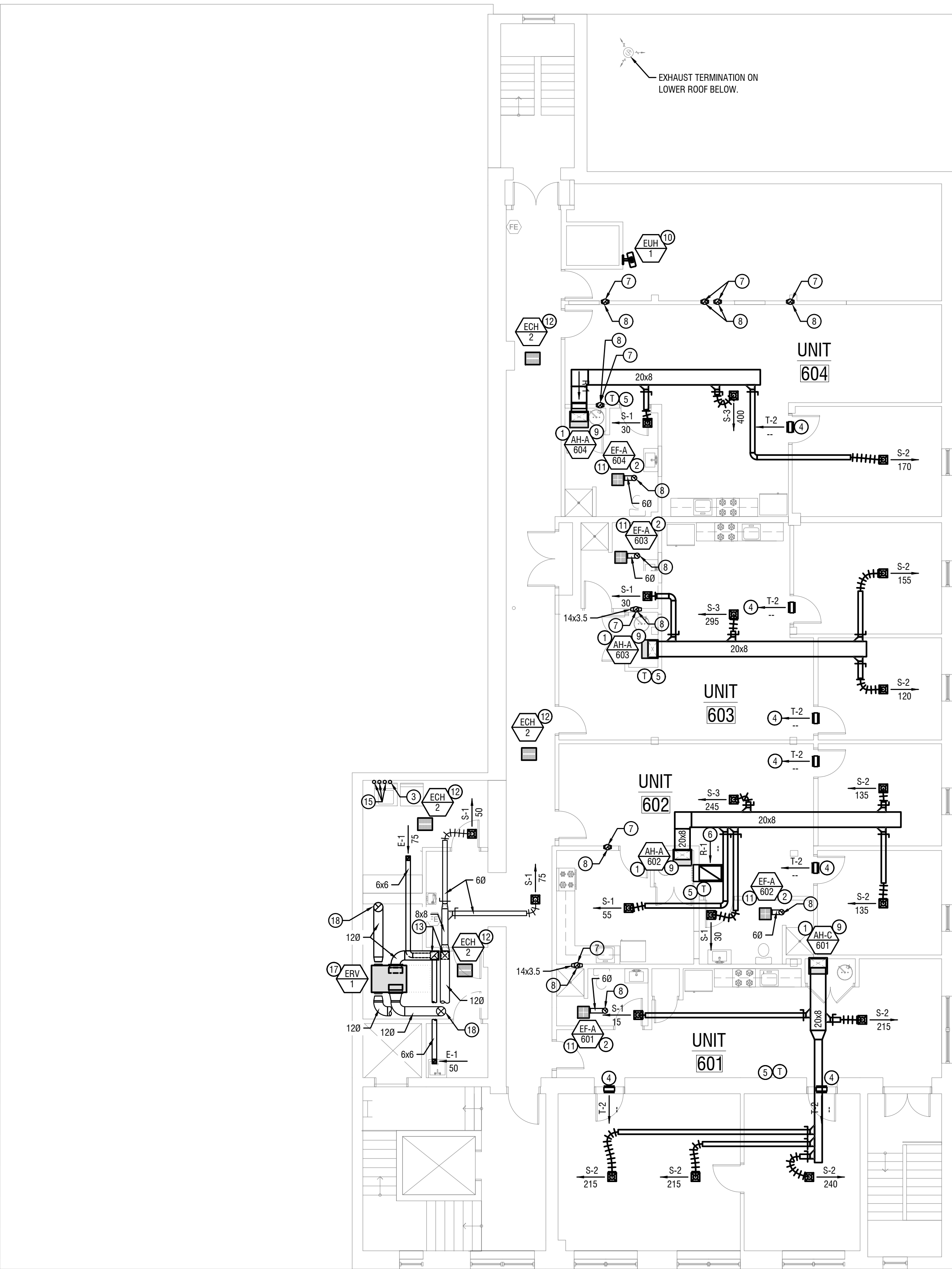
- ALL BATHROOM AND CLOTHES DRYER EXHAUST DUCT TERMINALS TO BE LOCATED 3'-0" OR GREATER FROM OPERABLE BUILDING OPENINGS AND 10'-0" FROM MECHANICAL OUTSIDE AIR INTAKE SOURCES.
- ALL AIR HANDLER SUPPLY AIR DUCTWORK TO BE INSULATED AND INSTALLED WITHIN THE UL FIRE RATED CEILING/FLOOR/ROOF ASSEMBLY. SEE ARCHITECTURAL DRAWINGS FOR INFORMATION ON CEILINGS AND STRUCTURE.
- ALL DUCT/GRILLE/EXHAUST FAN PENETRATIONS OF UL FIRE RATED CEILING/FLOOR/ROOF ASSEMBLY IS TO RECEIVE A 1-HOUR RATED CEILING RADIATION DAMPER.
- COORDINATE FLOOR/WALL ASSEMBLY FIRE RATINGS WITH ARCHITECTURAL DRAWINGS.
- SEE ALL NOTES ON DRAWING M-1 FOR MANDATED INSTALLATION REQUIREMENTS FOR ALL MECHANICAL MATERIALS, SYSTEMS AND SUB-SYSTEMS.
- MOUNT ALL SPACE CONTROLS AND THERMOSTATS 48" AFF. MOUNT TEMPERATURE SENSORS AT 60" AFF.
- ALL DUCT, PIPING AND CONDUIT PENETRATIONS OF WALLS AND FLOORS ARE TO BE FIRE SEALED REGARDLESS OF ASSEMBLY FIRE RATING.
- ALL APARTMENT RANGE HOODS ASSUMED TO BE RE-CIRCULATION UNITS WITH CHARCOAL AND WASHABLE PRE-FILTERS. PROVIDED BY OTHERS.
- ALL APARTMENT LOCATED CLOTHES DRYERS ASSUMED TO HAVE AN EXHAUST AIRFLOW RATE LESS THAN 200CFM AND NO MAKE-UP AIR MEANS REQUIRED.
- THE M.C. SHALL BE RESPONSIBLE TO COORDINATE FINAL SYSTEM COMPONENT LOCATIONS WITH ALL TRADES PRIOR TO INSTALLATION.
- COORDINATE PLUMBING SANITARY VENT LOCATIONS WITH P.C. TO AVOID PLACING WITHIN 10'-0" OF ANY SOURCE OF HVAC EQUIPMENT OUTSIDE AIR INTAKES OR OPERABLE WINDOWS.

KEYED NOTES

- PROVIDE AND INSTALL HIGH EFFICIENCY MULTI-POSITION AIR HANDLER WITH INTEGRAL ELECTRIC EMERGENCY HEAT COIL. MOUNT UNIT IN FIELD ON A SHELF BRACKETS OVER DOMESTIC WATER HEATER. SEE SCHEDULES AND DETAILS FOR MORE INFORMATION.
- PROVIDE BATHROOM CEILING MOUNTED EXHAUST FAN WITH REMOTE OCCUPANCY SENSOR. SEE SCHEDULES AND DETAILS FOR MORE INFORMATION.
- 4"Ø 26 GA. ALUMINUM SHEET METAL CLOTHES DRYER EXHAUST RISER UP FROM CLOTHES DRYER EXHAUST WALL CONNECTION. PROVIDE ALUMINUM FLEXIBLE DUCT CONNECTION BETWEEN WALL CONNECTION AND CLOTHES DRYER. SECURE FLEXIBLE DUCT CONNECTIONS WITH BAND CLAMPS. SEE CLOTHES DRYER EXHAUST CONNECTION DETAIL FOR MORE INFORMATION ON CLOTHES DRYER EXHAUST CONNECTIONS AND ROUTING. TERMINATE CLOTHES DRYER EXHAUST ON ROOF ABOVE WITH ROOFGOSSEVENT - MODEL # RGA-DRYER (OR EQUAL PRODUCT BY ANOTHER MANUFACTURER). SEE DRYER EXHAUST TERMINATION DETAIL FOR MORE INFORMATION.
- PROVIDE TRANSFER AIR GRILLE. SLEEVE AND SOUND ATTENUATION ASSEMBLY ABOVE BEDROOM DOOR. MOUNT AS HIGH AS POSSIBLE ON WALL. SEE DETAILS AND SCHEDULES FOR MORE INFORMATION.
- PROVIDE, MOUNT AND WIRE REMOTE AIR HANDLER PROGRAMMABLE DIGITAL THERMOSTAT. PROGRAM NIGHT SETBACK TO (-5°F) HEATING & (+5°F) COOLING AND HEAT/COOL CHANGEVER DEADBAND TO 4°F.

2 MECHANICAL PLAN - FOURTH FLOOR

M-6 SCALE: 1/8"=1'-0"



- PROVIDE RETURN AIR GRILLE AT RETURN IN APARTMENT CEILING OR WALL AS SHOWN.
- EXHAUST DUCT UP FROM FLOOR(S) BELOW WITHIN WALL CAVITY TO ROOF. RISER IS 10x3.5 UNLESS OTHERWISE NOTED.
- TRANSITION TO 7"Ø EXHAUST DUCT UP TO ROOF ABOVE.
- PROVIDE AND INSTALL INSULATED REFRIGERANT PIPING BETWEEN INDOOR AND OUTDOOR HEAT PUMP UNITS.
- CEILING EXHAUST FAN TO RUN CONTINUOUSLY AT LOW SPEED (35CFM) AND AT HIGH SPEED (50CFM) WHEN ACTIVATED BY REMOTE WALL MOUNTED OCCUPANCY SENSOR.
- PROVIDE AND MOUNT ELECTRIC CEILING HEATER WITH INTEGRAL THERMOSTAT (OR LOW VOLTAGE RELAY & TRANSFORMER). SET THERMOSTATS TO 60°F (ADJ.).
- ERV-1 EXHAUST AND OUTSIDE AIR DUCTS UP/DOWN TO FLOOR ABOVE/BELOW.

- PROVIDE FIRE DAMPER AT FLOOR PENETRATION. PROVIDE ACCESS DOOR IN DUCT RISER FOR DAMPER SERVICE/INSPECTION.
- CLOTHES DRYER EXHAUST RISER UP FROM FLOOR(S) BELOW.
- CLOSET DOORS TO BE LOUVERED FOR RETURN AIR PATH TO AIR HANDLER.
- PROVIDE AND INSTALL ENERGY RECOVERY VENTILATOR (ERV-1) FOR THE COMMON AREAS INCLUDING DUCTWORK, AIR TERMINAL DEVICES, FLEX DUCT, HANGERS, VIBRATION ISOLATORS, CONTROLS & CONTROLS WIRING FOR A COMPLETE AND OPERABLE CODE COMPLIANT SYSTEM.
- TERMINATE ERV-1 OUTSIDE & EXHAUST AIR DUCTS THROUGH ROOF. MAINTAIN MINIMUM 10'-0" BETWEEN INTAKE AND EXHAUST TERMINATIONS.
- 7"Ø BATHROOM EXHAUST FAN ROOF TERMINATIONS. SEE DETAILS FOR MORE INFORMATION. MAINTAIN MINIMUM 10'-0" BETWEEN INTAKE AND EXHAUST TERMINATIONS.

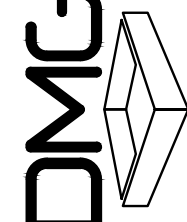
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Consultants:



design management group
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MECHANICAL FLOOR
PLANS

M-6

GENERAL NOTES

1. ALL BATHROOM AND CLOTHES DRYER EXHAUST DUCT TERMINALS TO BE LOCATED 3'-0" OR GREATER FROM OPERABLE BUILDING OPENINGS AND 10'-0" FROM MECHANICAL OUTSIDE AIR INTAKE SOURCES.
2. COORDINATE FLOOR/WALL ASSEMBLY FIRE RATINGS WITH ARCHITECTURAL DRAWINGS.
3. SEE ALL NOTES ON DRAWING M-1 FOR MANDATED INSTALLATION REQUIREMENTS FOR ALL MECHANICAL MATERIALS, SYSTEMS AND SUB-SYSTEMS.
4. ALL DUCT, PIPING AND CONDUIT PENETRATIONS OF WALLS AND FLOORS ARE TO BE FIRE SEALED REGARDLESS OF ASSEMBLY FIRE RATING.

KEYED NOTES

- 1 CLOTHES DRYER EXHAUST TERMINATION GOOSENECK ASSEMBLY FROM BELOW. PROVIDE AND INSTALL ASSEMBLY WITH COUNTER FLASHING/SLEEVE & METAL SUPPORT BRACKET BY ROOF/GOOSENECK - MODEL # RGL-DRYER. INSTALL PER MANUFACTURER'S INSTRUCTIONS. SEE DETAILS FOR MORE INFORMATION.
- 2 7"Ø BATHROOM EXHAUST ROOF TERMINATION. SEE DETAIL FOR MORE INFORMATION.
- 3 PROVIDE AND INSTALL SPLIT SYSTEM HEAT PUMP OUTDOOR UNIT. MOUNT UNIT ON ACCESSORY 18" HIGH "QUICK-SLING" STANDS BY UNIT MANUFACTURER. SEE SCHEDULES AND DETAILS FOR MORE INFORMATION.
- 4 PROVIDE AND INSTALL PIPE AND ELECTRICAL CONDUIT PORTAL CURB FOR SPLIT SYSTEM REFRIGERANT PIPING AND ELECTRICAL CONDUITS. SEE DETAILS FOR MORE INFORMATION.
- 5 PROVIDE AND INSTALL SPLIT SYSTEM REFRIGERANT LIQUID AND SUCTION PIPING TO/FROM OUTDOOR UNIT TO/FROM INDOOR UNITS. SEE SCHEDULES FOR REFRIGERANT PIPING SIZES.
- 6 12"Ø ERV-1 INTAKE/EXHAUST ROOF TERMINATION. SEE DETAIL FOR MORE INFORMATION.

1 MECHANICAL PLAN - ROOF OVERALL
M-7 SCALE: 1/8"=1'-0"

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MECHANICAL FLOOR PLANS
M-7

Client:

**16-22 Union Street -
Apartment Building**

Client: Empire Property Construction
16-22 Union St.
Wilkes-Barre, Pa 18701

NATURAL VENTILATION CALCULATIONS (2018 IMC 403.3.2.1 OUTDOOR AIR FOR DWELLING UNITS)

UNIT / AREA	FLOOR AREA (SQ. FT.)	NUMBER OF BEDROOMS	MINIMUM CONTINUOUS EXHAUST / VENTILATION AIR REQUIRED (0.01 (AREA) + 7.5 (# OF BEDROOMS + 1))
FIRST FLOOR			
UNIT 101	1248.6	2	34.986
UNIT 102	1059.1	2	33.091
UNIT 103	1162.2	2	34.122
UNIT 104	716.4	1	22.164
UNIT 105	1132	2	33.82
UNIT 106	1118.1	2	33.681
UNIT 107	772.6	1	22.726
UNIT 108	549.4	1	20.494
UNIT 109	556.4	1	20.564
UNIT 110	746.1	1	22.461
UNIT 111	1247.9	2	34.979
SECOND FLOOR			
UNIT 201	860.4	2	31.104
UNIT 202	806.8	1	23.068
UNIT 301	1903.4	2	41.534
UNIT 302	1218.6	3	42.186
UNIT 303	1099.8	2	33.498
UNIT 304	1141.5	3	41.415
UNIT 305	1033.4	2	32.834
UNIT 306	1302.8	2	35.528
UNIT 307	1232.4	2	34.824
THIRD FLOOR			
UNIT 401	995.2	2	32.452
UNIT 402	798.6	1	22.986
UNIT 501	1553.6	3	45.536
UNIT 502	1248.1	2	34.981
UNIT 503	1149.3	2	33.993
UNIT 504	1750.9	2	40.009
UNIT 505	1059.9	2	33.099
UNIT 506	1300.1	2	35.501
UNIT 507	952.9	2	32.029
FOURTH FLOOR			
UNIT 601	1230.8	2	34.808
UNIT 602	1033.9	2	32.839
UNIT 603	977.4	2	32.274
UNIT 604	937.3	1	24.373

- NOTES:
- ONLY NET OCCUPIED SPACES ARE CONSIDERED IN THESE CALCULATIONS.
 - BATHROOM CEILING EXHAUST FAN TO BE 2-SPEED WITH THE CONTINUOUS MINIMUM FLOWS SHOWN ABOVE.

INDOOR AIR HANDLER SCHEDULE (DX & ELEC)

TAG NO.	BASIS OF DESIGN		AREA SERVED	INDOOR SECTION										ELECTRICAL DATA				SEER2	NOTES
	MANUFACTURER	MODEL		TOTAL CFM	MIN. OA CFM	ESP (IN. WC)	FAN HP	DX COOLING				ELECTRIC HEATING		MCA	MOCP	VOLTS/ PH/Hz			
								TOTAL MBH	SENS MBH	STAGES	PIPE SIZE SUC.	PIPE SIZE LIQ.	KW				STAGES		
AH-A	TRANE	STAMSB01AC21	APARTMENT UNITS	600	75	0.5	-	18.8	13.6	1	3/4"	5/16"	5.77	1	43.0	45	208/1/60	14.3	1,2,4,5,6
AH-B	TRANE	STAMSB01AC21	APARTMENT UNITS	800	75	0.5	-	23.5	17.4	1	3/4"	3/8"	7.21	1	53.0	60	208/1/60	14.3	1,2,4,5,6
AH-C	TRANE	STEMB803AV21	APARTMENT UNITS	900	75	0.5	1/2	26.5	18.9	1	3/4"	3/8"	7.21	1	53.0	60	208/1/60	14.3	1,2,4,5,6
AH-D	TRANE	STEMB004AV31	APARTMENT UNITS	1200	75	0.5	1/2	33.6	26.2	1	7/8"	3/8"	10.8	2	49.0/22.0	50/25	208/1/60	14.3	1,3,4,5,6
AH-E	TRANE	STEMB004AV31	APARTMENT UNITS	1350	75	0.5	1/2	39.2	28.2	1	7/8"	3/8"	14.4	2	49.0/43.0	50/45	208/1/60	14.3	1,3,4,5,6

- NOTES:
- SCHEDULED CAPACITIES ARE BASED ON 95°F AMBIENT AIR TEMPERATURE AND 50 FT. OF MANUFACTURER RECOMMENDED SIZE PRECHARGE REFRIGERANT TUBING.
 - PROVIDE WITH ELECTRIC HEAT KIT. CAPACITIES AS SCHEDULED. UNITS TO HAVE SINGLE POINT POWER CONNECTION INCLUDING AIR HANDLER AND ELECTRIC HEAT KIT.
 - PROVIDE WITH (2) CIRCUIT HIGH CAPACITY ELECTRIC HEAT KIT. CAPACITIES AS SCHEDULED. UNITS TO HAVE DUAL POINT POWER CONNECTION INCLUDING AIR HANDLER AND ELECTRIC HEAT KIT.
 - PROVIDE WITH SUB-BASE FOR UP-FLOW CONFIGURATION WITH 2" FILTER RACK AND MERV 8 FILTER.
 - PROVIDE 4H/2C PROGRAMMABLE THERMOSTAT.
 - PROVIDE EQUIPMENT STAND, 2" DISPOSABLE FILTERS AND FILTER RACK.

HEAT PUMP SCHEDULE

TAG NO.	BASIS OF DESIGN		LOCATION	AREA SERVED	HEATING CAPACITY MBH**	COOLING CAPACITY MBH**	EFFICIENCY			HEATING	REFRIGERANT		VOLTS/ PH/Hz		ELECTRICAL		NOTES
	MANUFACTURER	MODEL					COOLING SEER2	HEATING COP @ 47°F	HEATING COP @ 17°F	MBH @ IAT 70°F/ OAT 17°F	TYPE	CONNECTION SIZE (L/S) INCHES		MCA	MOCP		
HP-A	TRANE	5TWR4018A1	ROOF	APARTMENT UNITS	17.7	18.8	14.3	3.6	2.5	11.5	R-454B	5/16 - 3/4	208/1/60	12	20	1.2	
HP-B	TRANE	5TWR4024A1	ROOF	APARTMENT UNITS	22.0	23.5	14.3	3.6	2.4	14.4	R-454B	3/8 - 3/4	208/1/60	13	20	1.2	
HP-C	TRANE	5TWR4030A1	ROOF	APARTMENT UNITS	26.2	26.5	14.3	4.0	2.7	17.4	R-454B	5/16 - 3/4	208/1/60	16	25	1.2	
HP-D	TRANE	5TWR4036A1	ROOF	APARTMENT UNITS	31.6	33.6	14.3	4.0	2.7	20.8	R-454B	3/8 - 3/4	208/1/60	19	30	1.2	
HP-E	TRANE	5TWR4042A1	ROOF	APARTMENT UNITS	39.0	39.2	14.3	4.1	2.8	24.6	R-454B	3/8 - 3/4	208/1/60	24	40	1.2	

- NOTES:
- * ARI COOLING CAPACITIES ARE BASED ON 80°F DB AND 67°F WB ENTERING AIR TEMPERATURE AND 95°F OUTDOOR AMBIENT TEMPERATURE. HEATING BASED ON 70°F INDOOR AND 47°F OUTDOOR.
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. COORDINATE WITH ALL OTHER TRADES.
 - PROVIDE UNIT WITH THE FOLLOWING OPTIONS AND ACCESSORIES:
18" HIGH SNOW STANDS, DISCONNECT SWITCH, FREEZE STAT, LOW AMBIENT KIT TO 0°F, HARD START KIT, OUTDOOR THERMOSTAT, CRANKCASE HEATERS AND ALL NECESSARY FACTORY CONTROLS.

FAN SCHEDULE

TAG NO.	BASIS OF DESIGN		AREA SERVED	FAN TYPE	MOUNTING	DRIVE	CFM	ESP (IN)	RPM	MOTOR HP OR WATTS	SONES	VOLTS/ PH/Hz	FLA	MCA	MOCP	WALL/ROOF OPENING (IN)	NOTES
	MANUFACTURER	MODEL															
EF-A	GREENHECK	SP-ALP0511W-1	RESTROOMS/ BATHROOMS	CEILING	SUSPENDED	DIRECT	35/50	0.25	828	-	0.7	115/1/60	0.29	0.5	15	4"Ø	1.2

- NOTES:
- ALL FANS TO OPERATE AT AMCA-RATED 3 SONES OR LESS.
 - PROVIDE COMPLETE WITH STANDARD GRILLE, CONSTANT CFM EC MOTOR RATED FOR CONTINUOUS USE AND 2-SPEED CAPABLE, MOTION DETECTOR (WALL MOUNTED), BACKDRAFT DAMPER, STANDARD WALL CAP, PLUG TYPE DISCONNECT AND TELESOPING MOUNTING RAILS. PROVIDE CEILING RADIATION DAMPERS FOR ALL FANS INSTALLED IN UL FIRE RATED CEILING/FLOOR/ROOF ASSEMBLIES.

ENERGY RECOVERY VENTILATOR SCHEDULE

TAG NO.	QTY.	BASIS OF DESIGN		SUPPLY FAN				ENTERING OUTDOOR AIR CONDITIONS				EXHAUST FAN				DESIGN ROOM AIR CONDITIONS				LEAVING VENTILATION AIR CONDITIONS				TOTAL EFFECTIVENESS % (HEATING / COOLING)	ELECTRIC HEAT	ELECTRICAL			WEIGHT (LBS)	NOTES
		MANUFACTURER	MODEL	AIRFLOW (CFM)	ESP (IN W.C.)	RPM	HP	SUMMER (DB/WB)	WINTER (DB/WB)	ENTHALPY (COOLING)	ENTHALPY (HEATING)	AIRFLOW (CFM)	ESP (IN W.C.)	RPM	HP	SUMMER (DB/WB)	WINTER (DB/WB)	ENTHALPY (COOLING)	ENTHALPY (HEATING)	SUMMER (DB/WB)	WINTER (DB/WB)	ENTHALPY (COOLING)	ENTHALPY (HEATING)			MCA	MOCP	VOLTS/ PH/Hz		
ERV-1	1	GREENHECK	Minivent-750-VG	570	0.5	1040	3/4	95.0 / 75.0	0.0 / -1.6	39.1	0.4	570	0.5	1128	3/4	75 / 62.4	72 / 55.6	28.5	23.9	78.7 / 65.3	57.0 / 46.5	30.7	18.6	79.6 / 78	N/A	20.5	25	115/1/60	250	1.2

- NOTES:
- PROVIDE WITH 2" MERV 8 FILTERS BOTH AIRSTREAMS, TIMED EXHAUST DEFROST CONTROL, DIRECT DRIVE FANS W/ SPEED DIALS, SINGLE POINT POWER CONNECTION, DISCONNECT SWITCH, GALVANIZED FINISHED SINGLE WALL INSULATED CABINET W/ BOLTED ACCESS DOORS, CONTROLS TERMINAL BLOCKS, GRAVITY DAMPERS WITH END SWITCHES AND NEOPRENE HANGING VIBRATION ISOLATORS..
 - UNIT TO RUN CONTINUOUSLY.

ELECTRIC HEATER SCHEDULE

TAG NO.	BASIS OF DESIGN		AREA SERVED	TYPE	MOUNTING	CFM	KW	AMP	VOLTS/ PH/Hz	THERMOSTAT	DIMENSIONS WxHxD (IN)	NOTES
	MANUFACTURER	MODEL										
EW-H-1	QMARK	QCH1151F	ENTRYS	CEILING	SURFACE	65	1.5	12.5	120/1/60	INTERGAL	10x12x5	1.2
EW-H-2	QMARK	QCH1101F	COMMON AREAS	CEILING	SURFACE	65	0.5	4.7	120/1/60	INTEGRAL	10x12x5	1.2

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. COORDINATE INSTALLATION WITH ALL OTHER TRADES.
 - PROVIDE COMPLETE WITH UNIT MOUNTED DISCONNECT SWITCH AND TAMPERPROOF THERMOSTAT, INTERNAL WIRING, AND SURFACE MOUNT EXTENSION FRAME ACCESSORIES.

ELECTRIC UNIT HEATER SCHEDULE

TAG NO.	BASIS OF DESIGN		AREA SERVED	TYPE	MOUNTING	CFM	KW	AMP	VOLTS/ PH/Hz	THERMOSTAT	DIMENSIONS WxHxD (IN)	NOTES
	MANUFACTURER	MODEL										
EUH-1	QMARK	CHPR25	MECHANICAL/STORAGE	UNIT	WALL/CEILING BRACKET	150	2.5	10.7	240/1/60	INTEGRAL	14x12.5x14	1.2

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. COORDINATE INSTALLATION WITH ALL OTHER TRADES.
 - PROVIDE COMPLETE WITH DISCONNECT SWITCH, WALL BRACKET, AND INTEGRAL THERMOSTAT.

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

TAG	CFM	BASIS OF DESIGN		TYPE	THROW 1150-1100-150 (FT)	NECK SIZE (IN)	MODULE SIZE (IN)	MAX. NC LEVEL	MAX. SP LEVEL	NOTES
		MANUFACTURER	MODEL							
S-1	0-100	PRICE	SMD	LOUVERED DIRECTIONAL DIFFUSER	6-9-13	6x6x6Ø	12 SQ.	25	0.10	1,2,3,4,5
S-2	101-250	PRICE	SMD	LOUVERED DIRECTIONAL DIFFUSER	5-8-14	9x9x6Ø	12 SQ.	25	0.10	1,2,3,4,5
S-3	251-400	PRICE	SMD	LOUVERED DIRECTIONAL DIFFUSER	7-10-17	12x12x10Ø	15 SQ.	25	0.10	1,2,3,4,5
R-1	0-1500	PRICE	530	3/4" LOUVERED RETURN GRILLE	N/A	20x30	22x32	25	0.10	1,2,3,4,5
T-2	0-270	TAMTECH	RAP	LOUVERED GRILLE W/ SOUND ATTENUATOR	N/A	14x8	16x10	25	0.10	1,3

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER WRITTEN INSTRUCTIONS. COORDINATE WITH ALL TRADES.
 - PROVIDE FACTORY INSTALLED OPPOSED BLADE DAMPER. PROVIDE CEILING RADIATION DAMPERS FOR ALL INSTALLATIONS IN A UL LISTED FIRE RATED CEILING/FLOOR/ROOF ASSEMBLY.
 - COORDINATE MOUNTING HARDWARE WITH ARCHITECTURAL CEILING AND WALL FINISHES
 - DUCT RUNNOUT SIZES SHALL MATCH DIFFUSER OR GRILLE CONNECTION DIMENSIONS UNLESS OTHERWISE NOTED.
 - PROVIDE WITH SQUARE TO ROUND ADAPTER.

Client:

16-22 Union Street -

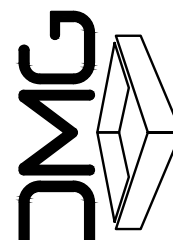
Apartment Building

Client: Empire Property Construction

16-22 Union St.

Wilkes-Barre, Pa 18701

Consultants:



design management group
consulting engineers
570.726.5250
dmgeng.com



CAM architect, LLC
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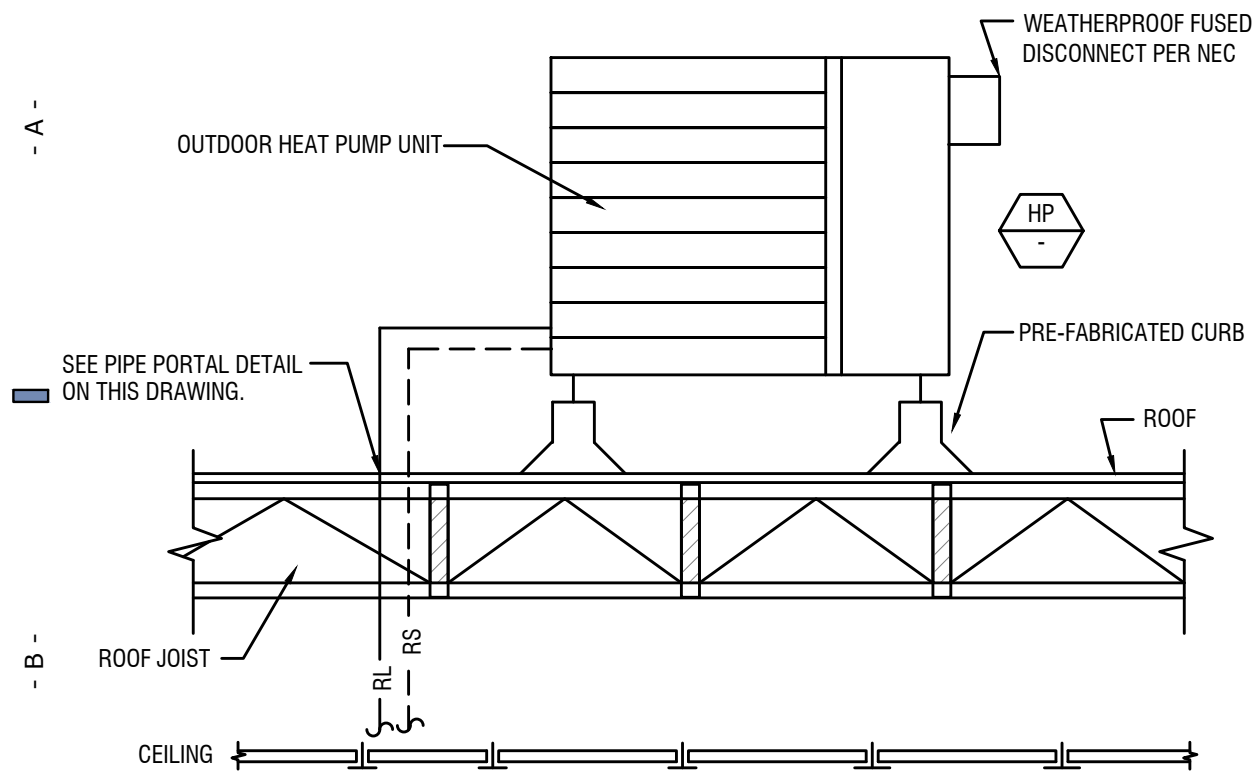
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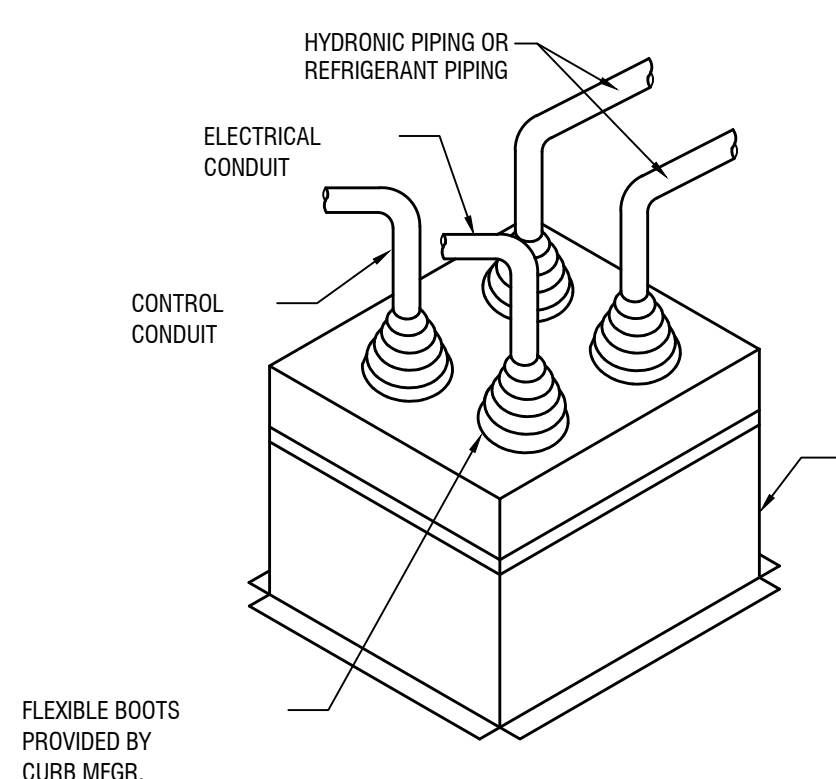
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Seals:

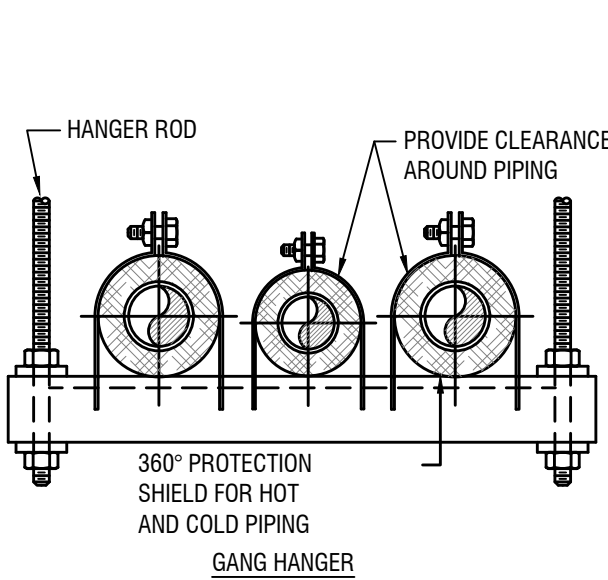
PRELIMINARY - NOT FOR CONSTRUCTION
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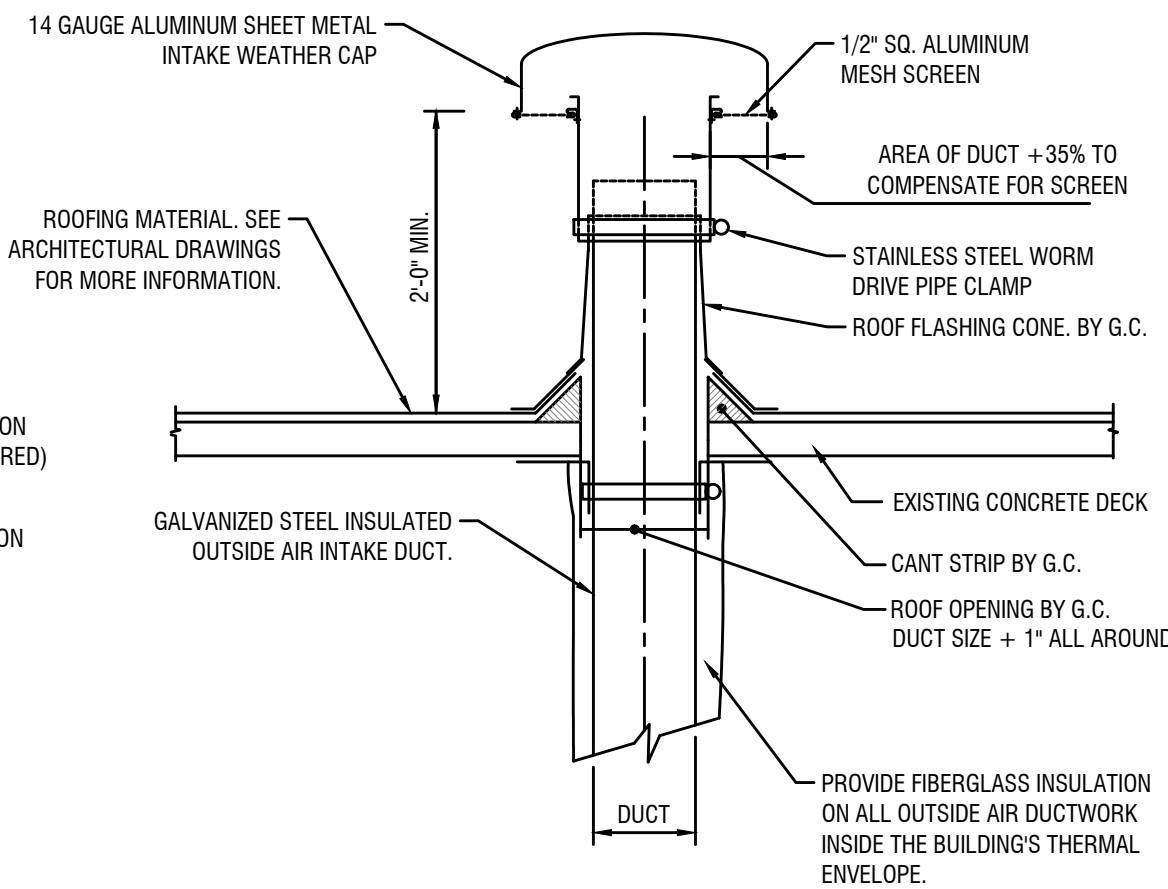
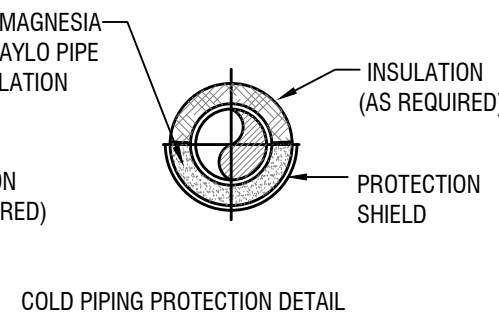
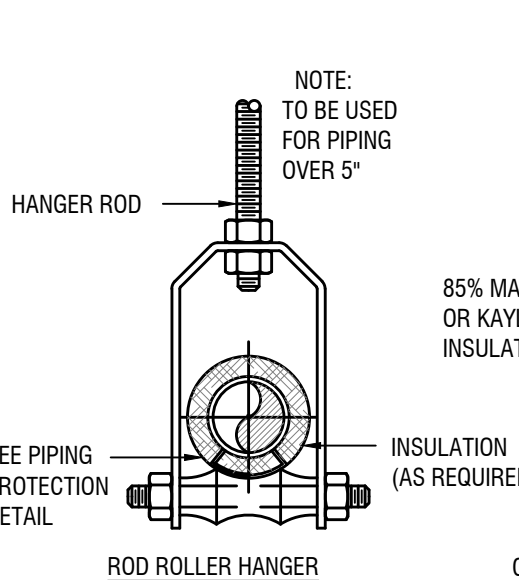
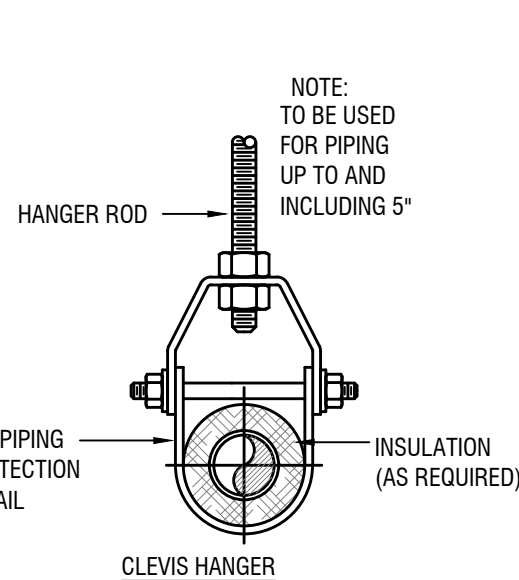
1 SPLIT SYSTEM HEAT PUMP UNIT INSTALLATION DETAIL
M-9 SCALE: NTS



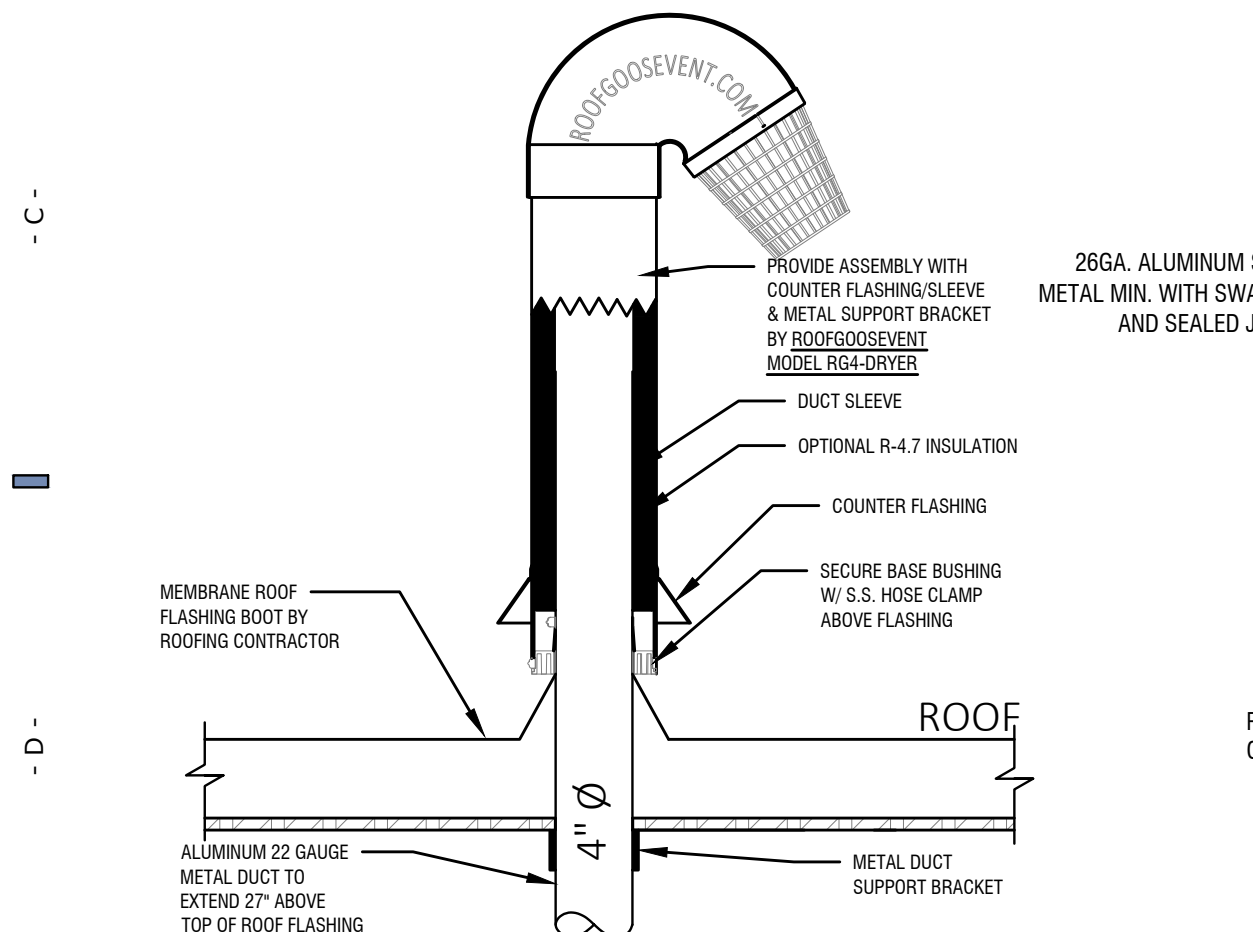
2 PIPING PORTAL THRU ROOF DETAIL
M-9 SCALE: NTS



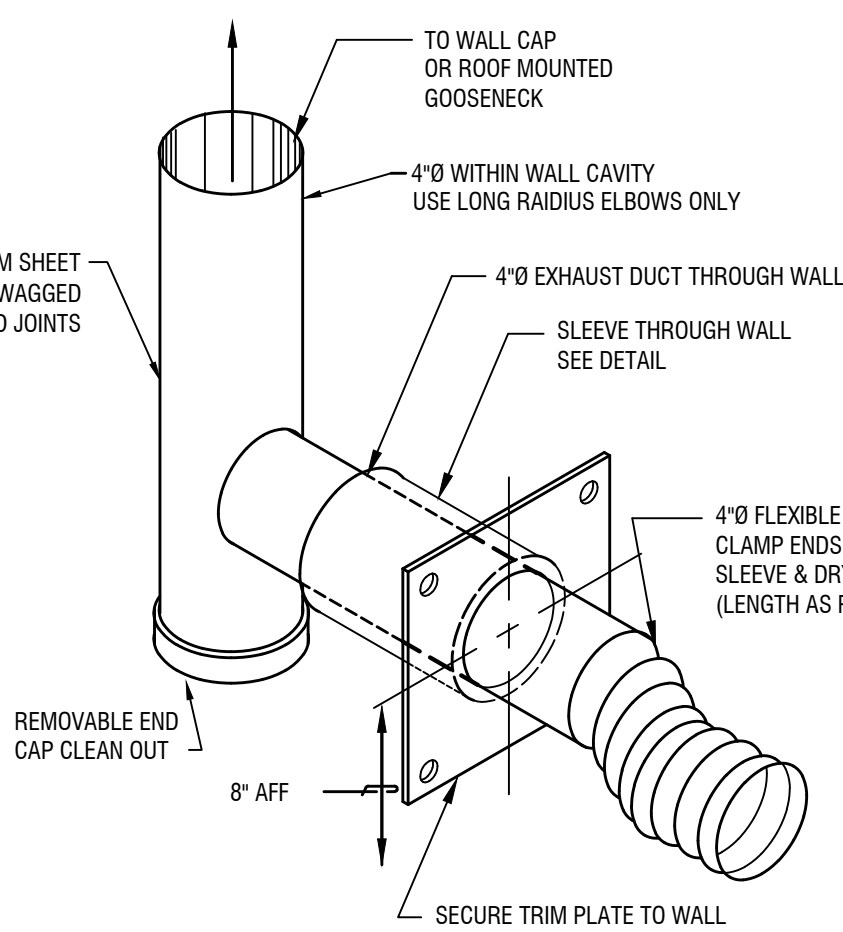
3 HVAC PIPE SUPPORT DETAIL
M-9 SCALE: NTS



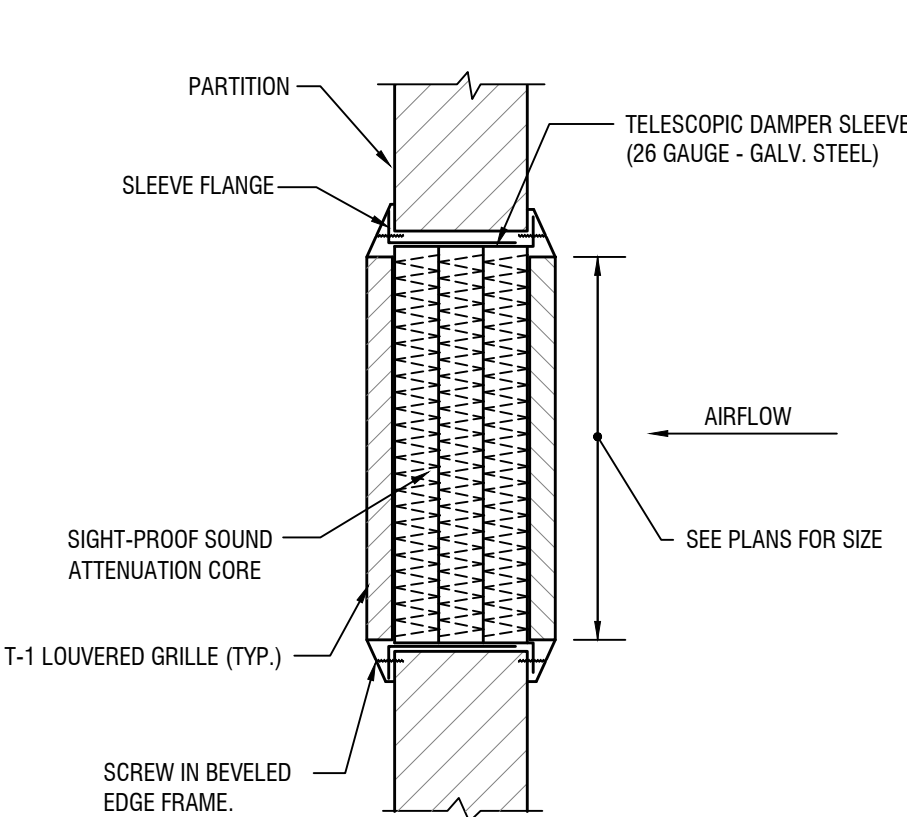
4 TYP. OUTSIDE AIR INTAKE THRU ROOF DETAIL
M-9 SCALE: NTS



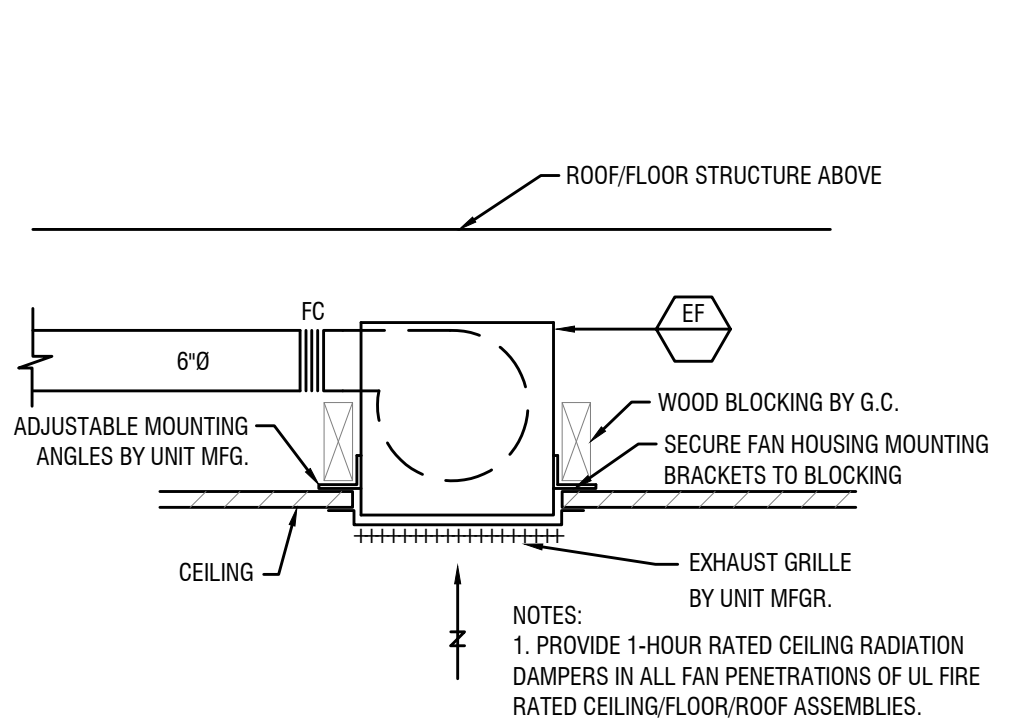
5 ROOF DRYER VENTING PENETRATION DETAIL
M-902 SCALE: NTS



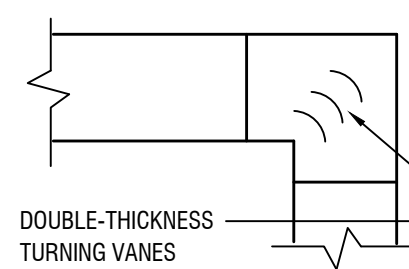
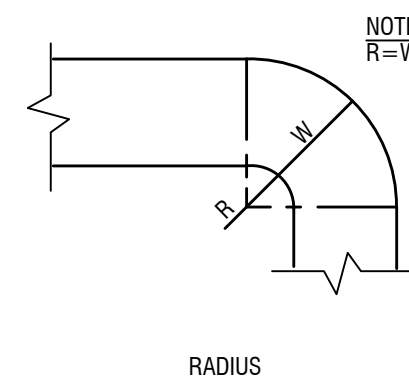
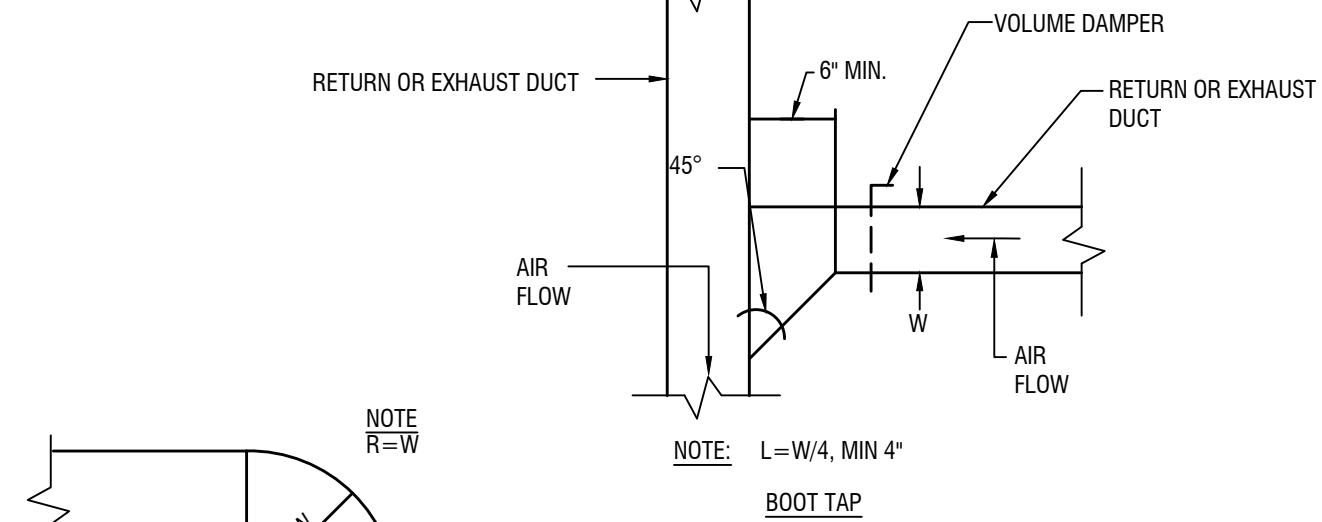
6 RESIDENTIAL DRYER CONNECTION DETAIL
M-9 SCALE: NTS



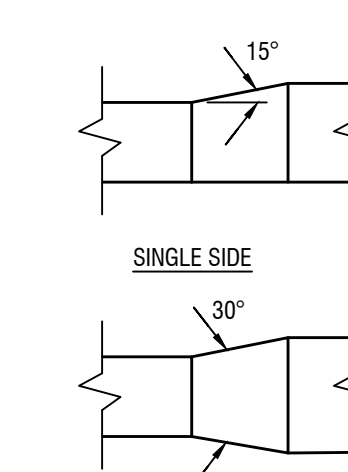
7 TRANSFER GRILLE DETAIL
M-9 SCALE: NTS



8 CEILING EXHAUST FAN DETAIL (EF-A)
M-9 SCALE: NTS

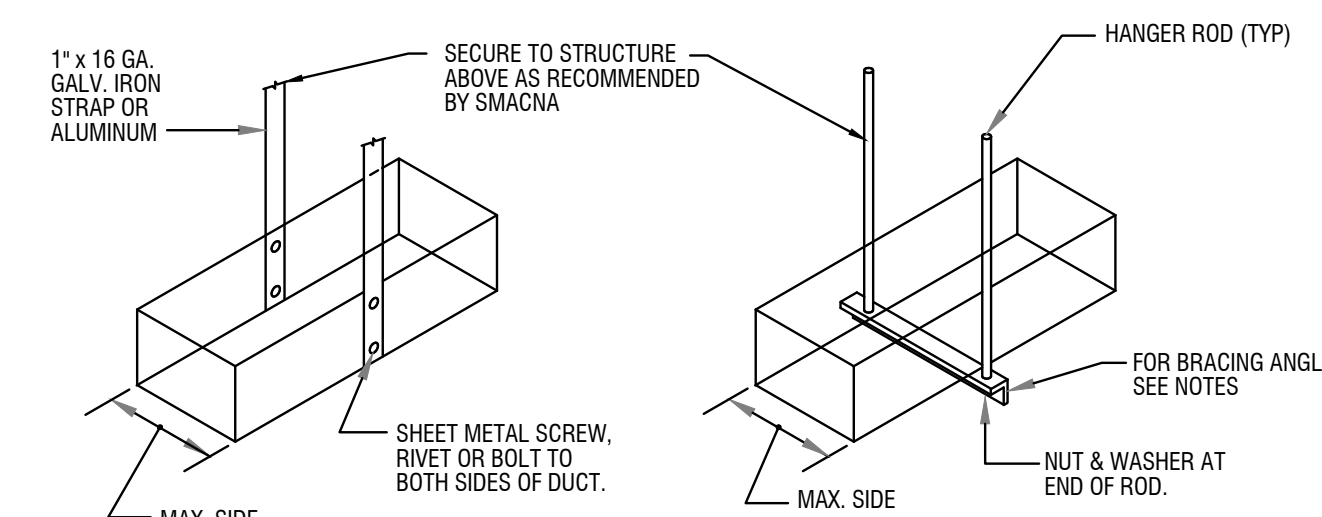


VANED ELBOWS



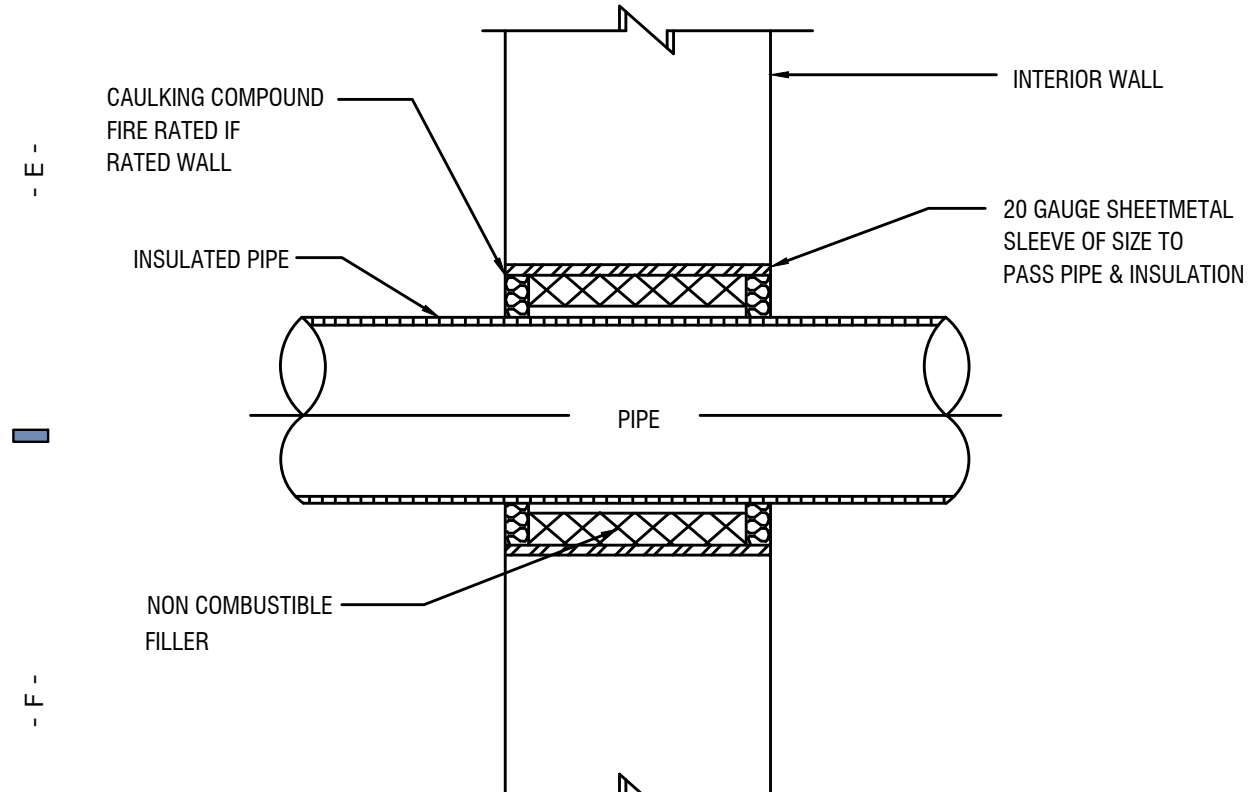
TRANSITIONS

13 DUCTWORK CONNECTION DETAILS
M-9 SCALE: NTS

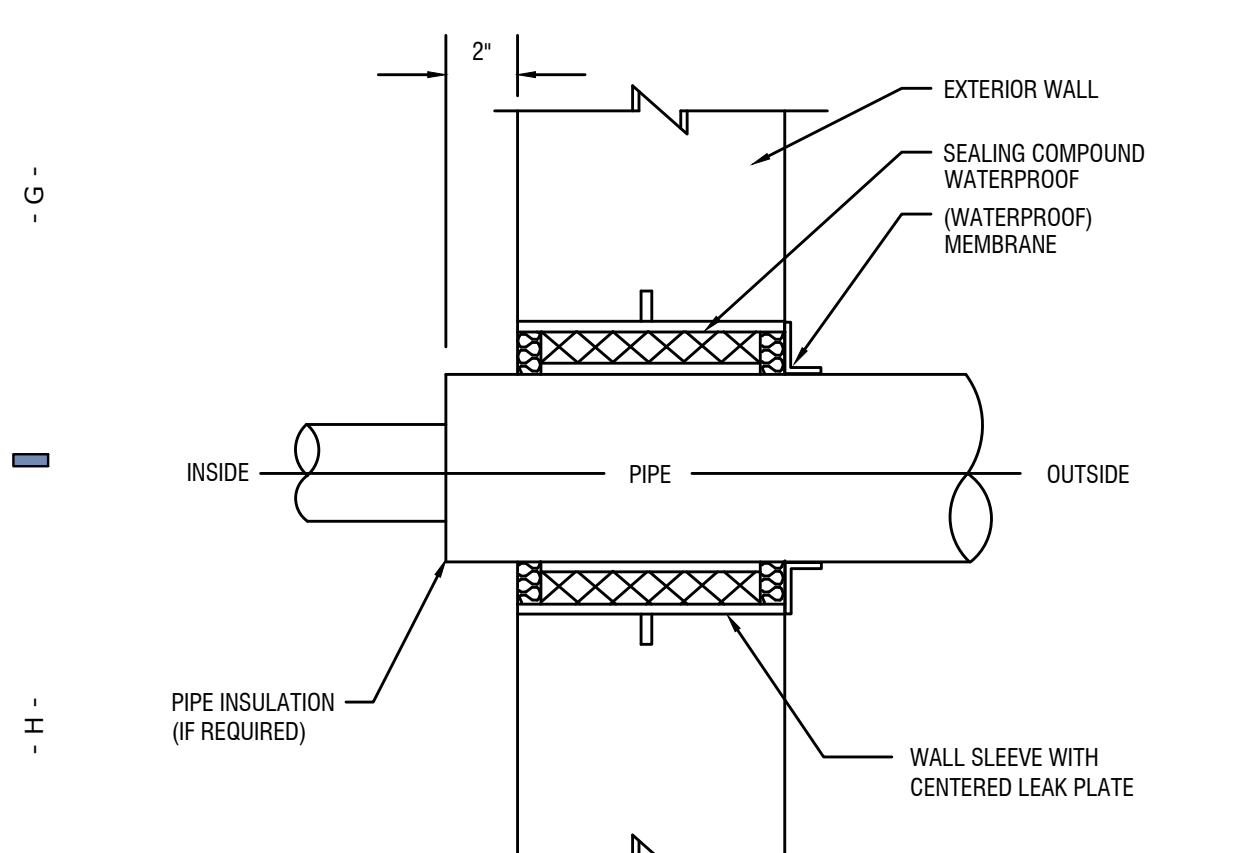


DUCT DIMENSION	HANGER TYPE	ROD DIA.	ANGLE SIZE	MAX. SPACING
UP TO 18"	A	1" STRAP		8'-0"
19" TO 60"	B	5/16"	1-1/2" x 1-1/2" x 1/8"	8'-0"
61" TO 96"	C	3/8"	1-1/2" x 1-1/2" x 3/16"	8'-0"
OVER 96"	D	1/2"	2" x 2" x 1/4"	4'-0"

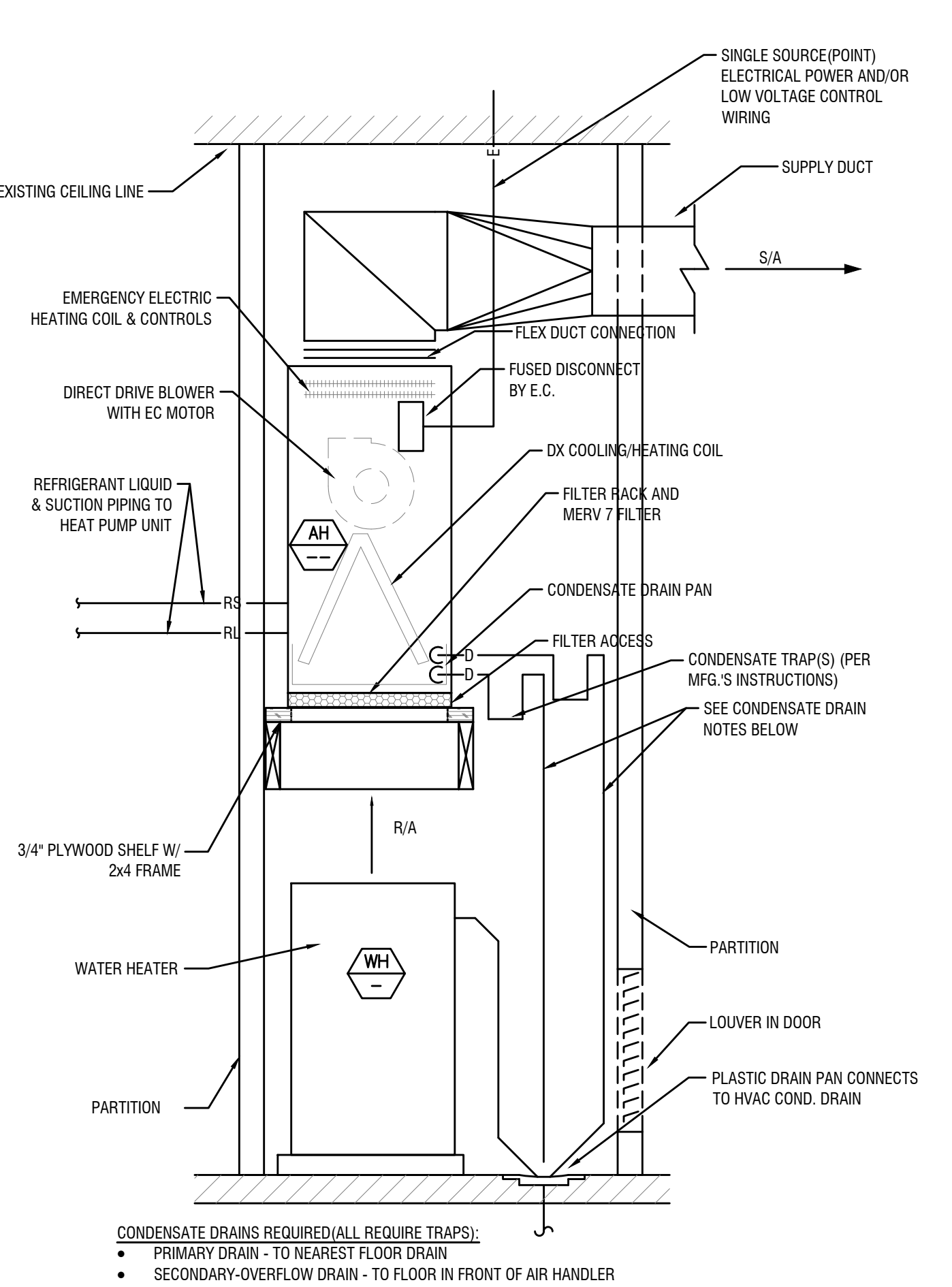
15 DUCT HANGERS
M-9 SCALE: NTS



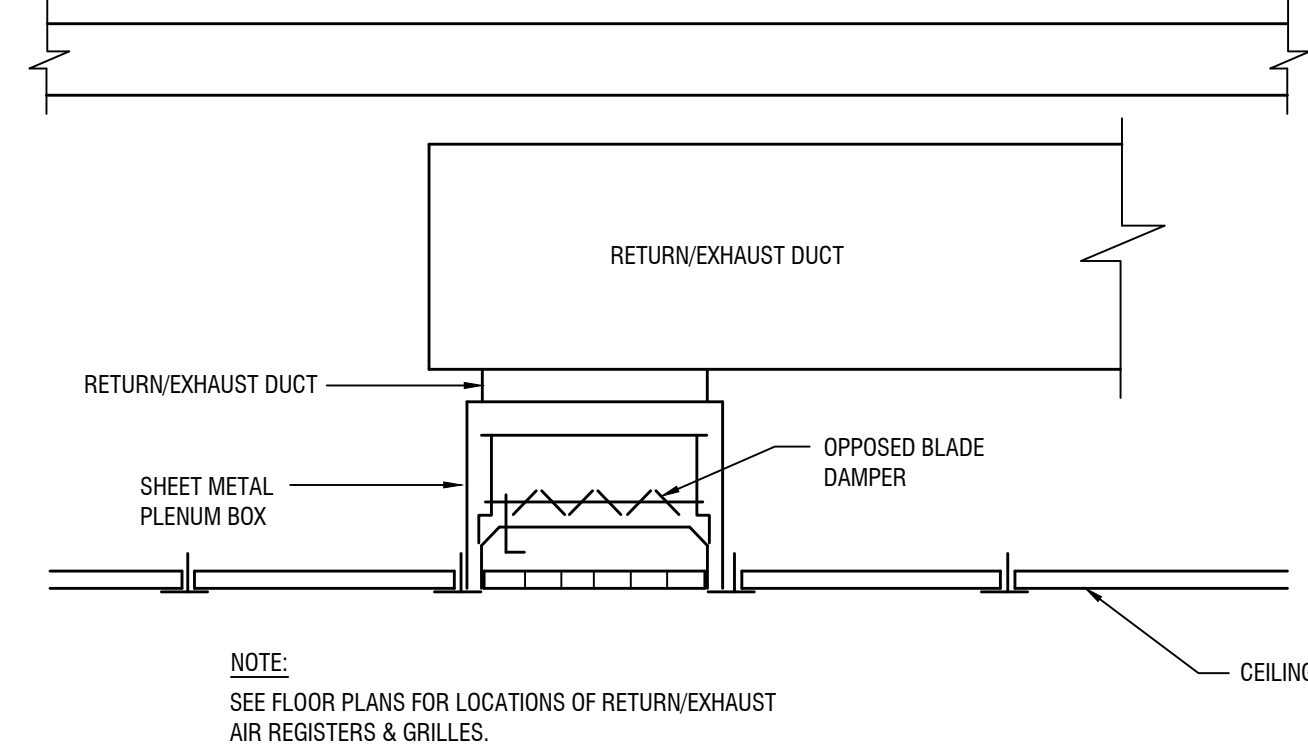
9 PIPE PENETRATION DETAIL (INTERIOR WALL)
M-901 SCALE: NTS



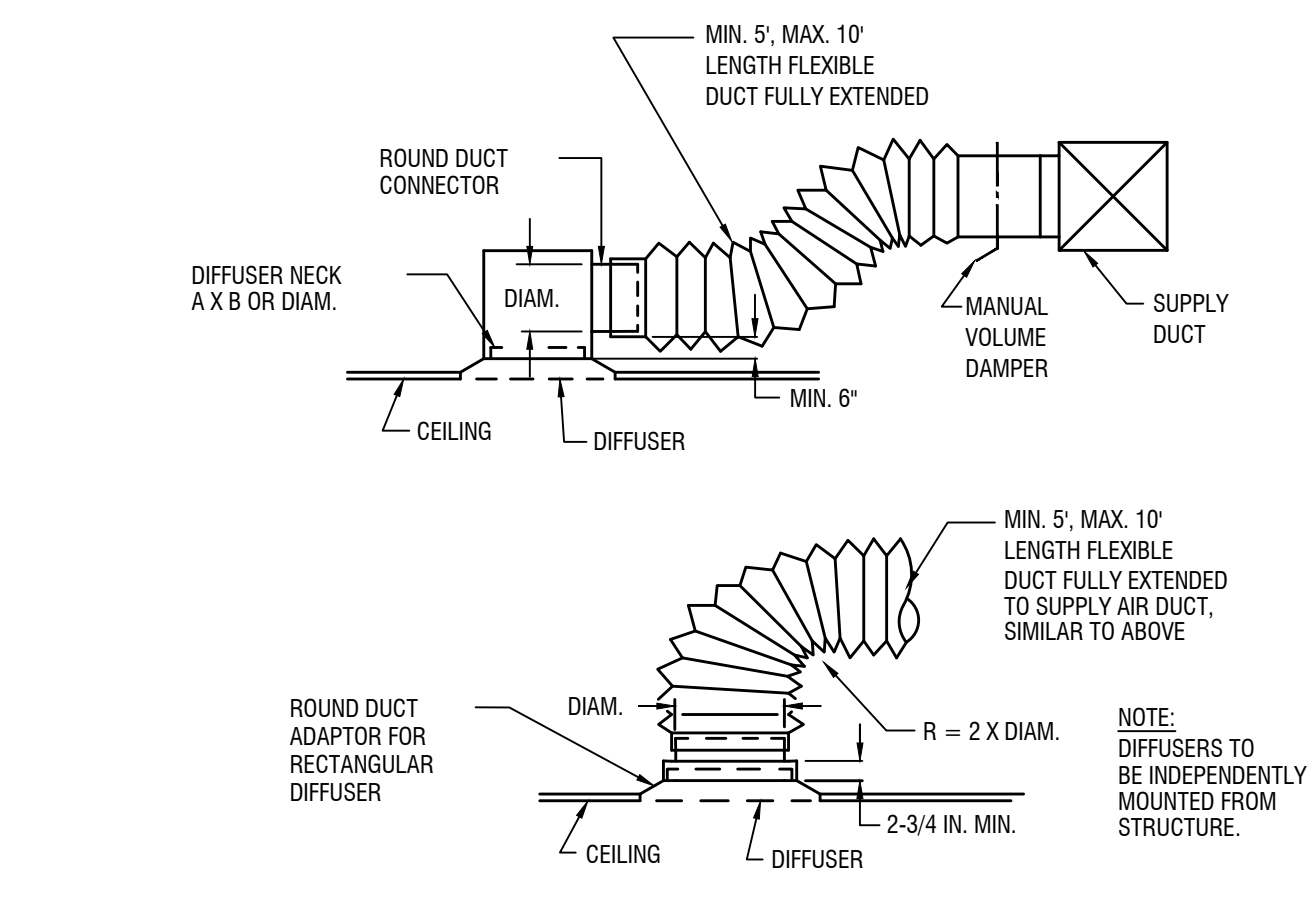
10 PIPE PENETRATION DETAIL (EXTERIOR WALL)
M-901 SCALE: NTS



11 TYPICAL VERTICAL AIR HANDLER CONFIGURATION (AH-A,B,C,D & E)
M-9 SCALE: NTS



12 RETURN/EXHAUST AIR GRILLE DUCT DETAIL
M-9 SCALE: NTS



14 DIFFUSER CONNECTION DETAILS
M-9 SCALE: NTS

Client: 16-22 Union Street - Apartment Building
Client: Empire Property Construction
16-22 Union St.
Wilkes-Barre, Pa 18701

Consultants: DMG design management group consulting engineers 570.726.5200 dmging.com

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Revisions | Issues
No: Date:
Permit/PRICING
Project: Apartment Building
Date: 06/15/2026
Drawn: SAS Checked: KJS
Scale: AS NOTED
Sheet: MECHANICAL DETAILS
M-9

GENERAL ABBREVIATIONS

	EXISTING	GEN	GENERATOR
[ETR]	EXISTING TO REMAIN	GIN	GROUND FAULT INTERRUPTER
[F]	FUTURE	GND. G	GROUND
[FI]	FINISH	GNMC	GALVANIZED RIGID METAL CONDUIT
Δ	DELTA	GRS	GALVANIZED RIGID STEEL
Y	WYE	GSR	GROUND SENSING RELAY
Φ	PHASE	HGT	HEIGHT
1/C	SINGLE CONDUCTOR	HD	HIGH INTENSITY DISCHARGE
3/C	THREE CONDUCTOR	HDA	HAND OFF AUTO
A	AMPERE	HP	HIP
AC	ALTERNATING CURRENT	HPS	HIGH PRESSURE SODIUM
A/C	AIR CONDITIONER	HZ	HERTZ
ADA	AMERICANS WITH DISABILITIES ACT	IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
ADDTL	ADDITIONAL	INC	INTERMEDIATE METAL CONDUIT
AF	AMP FRAME/AMP FUSE	INCAND	INCANDESCENT
AFB	ABOVE FINISHED FLOOR	INSUL	INSULATION
AFG	ABOVE FINISHED GRADE	INT	INTERIOR/INTERLOCK
AHJ	AUTHORITY HAVING JURISDICTION	JB	JUNCTION BOX
AHU	AIR HANDLING UNIT	JCB	JUNCTION AND CIRCULAR MILLS
AL	INTER interrupting CAPACITY (AMPERES)	KW	KILOWATT
AL	ALUMINUM	KWH	KILOWATT HOUR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	KV	KILOVOLT
		KVA	KILOVOLT AMPERE
APPROX	APPROXIMATELY	LA	LIGHTNING ARRESTER
ARCH	ARCHITECTURAL	LAB	LABORATORY
AS	AMP SWITCH	LF	LINEAR FEET
ASY	ASYMMETRICAL	LMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
ATC	AUTOMATIC TEMPERATURE CONTROL	LT	LIGHT
ATS	AUTOMATIC TRANSFER SWITCH	LTG	LIGHTING
AUX	AUXILIARY	LMCMC	METAL CLAD/MECHANICAL CONTRACTOR
AT	AIR TRIP TRIP	MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MCC	MOTOR CONTROL CENTER
BATT	BATTERY	MDP	MAIN DISTRIBUTION PANEL
BFC	BELOW FINISHED CEILING	MH	METAL HALIDE
BFG	BELOW FINISHED GRADE	MIN	MINIMUM
BSMT	BASEMENT	MISC	MISCELLANEOUS
BLDG	BUILDING	MLO	MAIN LUGS ONLY
BRKR	BREAKER	MTD	MOUNTED
BMS	BALANCED MAGNETIC SWITCH	N	NEUTRAL
BR	BRANCH	NC	NORMALLY CLOSED
BRE	BELOW RAISED FLOOR	NEC	NATIONAL ELECTRICAL CODE
C	COND	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CB	CIRCUIT BREAKER	NESC	NATIONAL ELECTRICAL SAFETY CODE
CCTV	CLOSED CIRCUIT TELEVISION	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CD	CENTIGRADE DEGREE	NO	NORMALLY OPEN
CDC	CIRCUIT ENCASED	NTS	NOT TO SCALE
CKT	CIRCUIT	O.C	ON CENTER
CKTD	CIRCUITED	P	PUBLIC ADDRESS
CLG	CEILING	PB	PULL BOX/PUSH BUTTON
COAX	COAXIAL	P.C	PLUMBING CONTRACTOR
CONC	CONCRETE	PCU	POWER CONDITIONING UNIT
CONTR	CONTRACTOR	PHASE	PHASE
CLF	CURRENT LIMITING FUSES	PNL	PANEL
CT	CURRENT TRANSFORMER	PRI	PRIMARY
CU	COPPER	PSI	POUNDS PER SQUARE INCH
DB	DUCT/BANK	PT	POTENTIAL TRANSFORMER
DC	DIRECT CURRENT	PVC	POLY VINYL CHLORIDE
DISC	DISCONNECT	RECEPT	RECEPTACLE
DIST	DISTRIBUTION	REQD	REQUIRED
DIV	DIVISION	RGS	RIGID GALVANIZED STEEL
DWS	DRAWINGS	RM	ROOM
EA	EACH	RMC	RIGID METALLIC CONDUIT
EB	ELECTRONIC BALLAST	RNC	RIGID NONMETALLIC CONDUIT
E.C	ELECTRICAL CONTRACTOR	SEC	SECONDARY
EF	EXHAUST FAN	SECT	SECTION
EGG	EQUIPMENT GROUNDING CONDUCTOR	SF	SQUARE FEET
EL	ELEVATION	SN	SOLID NEUTRAL
ELEC	ELECTRIC	SPR	SPRINKLER
EMER	EMERGENCY	SPECS	SPECIFICATIONS
EMT	ELECTRICAL METALLIC TUBING	SUSP	SUSPENDED
ENCL	ENCLOSURE	SW	SWITCH
EPO	EMERGENCY POWER OFF	SWBD	SWITCHBOARD
EPR	ETHYLENE PROPYLENE RUBBER	SYN	SYMMETRICAL
EQUIP	EQUIPMENT	TEL	TELEPHONE
EW	ELECTRIC WATER COOLER	THRU	THROUGH
EW	ELECTRIC WATER HEATER	TRIP	TRIP
EX	EXAMPLE	TS	TAMPER SWITCH
EXIST	EXISTING	TYP	TYPICAL
EXT	EXTERNAL/EXTERIOR	U.G. / U.G.	UNDERGROUND
F	FUSE/FUSE	UL	UNDERWRITERS LABORATORY
FA	FIRE ALARM	U.O.N	UNLESS OTHERWISE NOTED
FR	FEEDER	UPS	UNINTERRUPTIBLE POWER SUPPLY
FIN	FINISHED	V	VOLTS
FXT	FIXTURE	VD	VOLTAGE DROP
FL	FLOOR	VCR	VACUUM CIRCUIT RECLOSER
FLA	FULL LOAD AMPS	W	WATT
FLX	FLEXIBLE	W	WITH
FLUR	FLUORESCENT	WP	WEATHERPROOF
FMC	FLEXIBLE METAL CONDUIT	XMR	TRANSFORMER
FS	FLOW SWITCH		
FT	FEET/FOOT		
FU	FUSE		
G.C	GENERAL CONTRACTOR		
GEC	GROUNDING ELECTRODE CONDUCTOR		

GRAPHIC CONVENTIONS

	EQUIPMENT TAG, TOP INDICATES EQUIPMENT DESIGNATION, BOTTOM INDICATES EQUIPMENT NUMBER, SEE M/P DRAWINGS FOR FURTHER INFORMATION
	PLAN CALLOUT, TOP INDICATES CALLOUT REFERENCE NUMBER, BOTTOM INDICATES SHEET NUMBER
	ELEVATION CALLOUT, TOP INDICATES CALLOUT REFERENCE NUMBER, BOTTOM INDICATES SHEET NUMBER
	SECTION CALLOUT, TOP INDICATES CALLOUT REFERENCE NUMBER, BOTTOM INDICATES SHEET NUMBER
	REVISION AREA
	REVISION TAG
	CONSTRUCTION KEYED NOTE TAG
	DEMOLITION KEYED NOTE TAG
	POINT OF CONNECTION BETWEEN NEW AND EXISTING
	LIMIT OF DEMOLITION BETWEEN EXISTING TO REMAIN AND TO BE REMOVED

ELECTRICAL GENERAL NOTES

- THE ENTIRE INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE ENFORCED REVISIONS OF THE BUILDING CODE, NPA 70, NEMA, UL LISTINGS, MANUFACTURERS' RECOMMENDATIONS, THE NATIONAL BOARD OF UNDERWRITERS, STATE CODES, LOCAL CODES, AND ALL AUTHORITIES HAVING JURISDICTION.
- GENERAL WORK PRACTICES FOR ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NECA 1. GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION, PUBLISHED BY THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. RECTILINEAR TO BUILDING STRUCTURE. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO SPACES OUTSIDE THE AREA OF WORK.
- ALL MATERIAL AND EQUIPMENT SHALL BE LISTED AND LABELLED FOR THE APPLICATION BY UNDERWRITERS LABORATORIES AND INSTALLED ACCORDING TO ITS LISTING.
- ALL DEVICES SHOWN ON DRAWINGS ARE DIAGRAMMATIC IN LOCATION AND SHOWN TO INDICATE THE EXTENT, GENERAL CHARACTER, AND GENERAL WIRING REQUIREMENTS ONLY.
- THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "WORK" SHALL MEAN ALL LABOR, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES, SETUP, PROGRAMMING, AND OTHER INCIDENTALS NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE ALL WORK REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION OF THE ELECTRICAL SYSTEMS AS INDICATED OR IMPLIED BY THE DESIGN DOCUMENTS.
- THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS (DRAWINGS, SPECIFICATIONS, EQUIPMENT CUT SHEETS, ETC.) FOR ALL TRADES AND PROVIDE ALL ELECTRICAL WORK REQUIRED FOR COMPLETE AND OPERABLE INSTALLATION.
- THE CONTRACTOR SHALL COORDINATE ALL WORK, ELECTRICAL REQUIREMENTS, AND THE ACTUAL LOCATIONS OF ALL EQUIPMENT, CASEWORK, DEVICES, FIXTURES, SWITCHES, SENSORS, ETC., WITH ALL DRAWINGS, SPECIFICATIONS, AND WITH ALL TRADES IN THE FIELD PRIOR TO PROVIDING PRICING AND PERFORMING ANY ROUGH-IN WORK.
- THE CONTRACTOR IS HEREBY CAUTIONED THAT THE ELECTRICAL POWER CHARACTERISTICS (VOLTAGE, PHASE, HORSEPOWER, AMPERAGE, ETC.) OF EQUIPMENT ARE BASED ON INFORMATION AVAILABLE AT THE TIME OF PROJECT DESIGN. CONTRACTOR SHALL VERIFY ACTUAL CHARACTERISTICS FOR EACH PIECE OF EQUIPMENT TO BE INSTALLED PRIOR TO ORDERING EQUIPMENT OR PERFORMING ANY ROUGH-IN WORK.
- DEVICES INDICATED TO BE INSTALLED IN THE SAME LOCATIONS WITH DIFFERENT ELEVATIONS SHALL BE ALIGNED VERTICALLY AND HORIZONTALLY. FOR ALL MOUNTING HEIGHTS AND LOCATIONS (SWITCHES, OUTLETS, FIRE ALARM AUDIBLE AND VISUAL DEVICES, FIRE ALARM PULL STATIONS, SECURITY DEVICES, CARD READERS, SENSORS, ETC.), REFER TO THE ARCHITECTURAL DRAWINGS AND COORDINATE ALL LOCATIONS BETWEEN TRADES.
- ADJUSTMENTS TO WIRING DEVICES TO AVOID STRUCTURAL OR OTHER INTERFERENCES AS WELL AS WORK INDICATED WITH MINOR DETAILS OMITTED SHALL BE PROVIDED WITHOUT EXTRA COST.
- ANY CHANGES AND/OR MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
- REMOVE ALL TRASH, DEBRIS, AND DEMOLITION MATERIAL FROM THE PREMISES AT THE END OF EACH WORK DAY. JOB SITE SHALL BE KEPT IN "BROOM CLEAN" CONDITION.
- ELECTRICAL PANELS AND DISCONNECTS SHALL BE LABELED WITH ENGRAVED PLASTIC TAGS MOUNTED ON THE OUTSIDE OF THE EQUIPMENT AND BEARING THE VOLTAGE AND DESIGNATION OF THE EQUIPMENT.
- PROVIDE ALL PANELBOARD SCHEDULES IN AN EDITABLE ELECTRONIC FORMAT (MS WORD OR EXCEL). LIGHTING CIRCUIT BREAKER LABELS SHALL BE SPECIFIC TO THE AREA. USE BUILDING ROOMS, ROOM NAMES, ETC. FOR A MORE ACCURATE LOCATION.
- ALL RECEPTACLES AND BRANCH CIRCUITS WITHIN 6 FEET OF SINKS, 20 FEET OF WATER TANKS, IN KITCHENS, IN GARAGES, SERVING ELECTRIC WATER FOUNTAINS, AND ALL OTHER LOCATIONS REQUIRED BY THE NEC SHALL BE PROVIDED WITH GROUND FAULT PROTECTION.
- ALL EQUIPMENT SHALL BE NEMA RATED AND LISTED FOR THE APPLICATION AND ENVIRONMENT.
- IN THE EVENT THAT LOCAL EQUIPMENT DISCONNECTS CANNOT BE LOCATED SUCH THAT WORKING CLOSURES ARE MAINTAINED, THE NEXT UPSTREAM OVERCURRENT DEVICE SHALL BE INDIVIDUALLY CAPABLE OF BEING LOCKED IN THE OPEN POSITION IN ACCORDANCE WITH 440.14 AND 430.102.
- ALL FIRE/SMOKE RATINGS SHALL BE MAINTAINED. APPLY FIRESTOPPING AND SEALANT AS REQUIRED.
- FLASH ALL ROOF PENETRATIONS IN ACCORDANCE WITH THE ROOFING SYSTEM MANUFACTURER AND THE CONTRACT DOCUMENTS.
- PROVIDE ALL WORK REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION OF THE FIRE ALARM, SECURITY, AND ANY OTHER SPECIAL SYSTEMS. COORDINATE EXACT REQUIREMENTS WITH OWNERS' VENDORS.
- WHERE NO CIRCUIT IS DESIGNATED FOR A DEVICE (INCLUDING EQUIPMENT NOT SHOWN ON DRAWINGS), THE E.C. SHALL CIRCUIT TO THE NEAREST AVAILABLE PANEL WITH CONDUCTOR, RACEWAY, AND BREAKER SIZED PER THE LATEST ADOPTED REVISION OF THE NEC.
- ALL WIRE AND CONDUIT SHALL BE CONCEALED IN WALLS, CEILING PLENUMS, BULKHEADS AND IN ROOF STRUCTURAL AREAS, U.I.N. THE E.C. SHALL COORDINATE FULLY WITH ALL OTHER TRADES TO INSTALL ALL CONDUIT AND WIRING IN THESE ASSOCIATED STRUCTURES. ANY OTHER MEANS OF PATHWAY SUGGESTED MUST FIRST BE APPROVED FROM THE ELECTRICAL ENGINEER BEFORE INSTALLATION CAN PROCEED.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PERTAINING TO THIS WORK. THE CONTRACTOR SHALL INVESTIGATE ALL RELOCATIONS AND NEW WORK AND MAKE ALLOWANCES IN HIS BID FOR ALL CHANGES TO THE ELECTRICAL SYSTEM WHICH ARE NECESSARY. FAILURE TO COMPLY WITH THIS SHALL NOT CONSTITUTE A REASON FOR PAYMENT OF EXTRA MONIES DURING THE CONSTRUCTION PHASE.
- MAKE ALL NECESSARY ARRANGEMENTS WITH THE OWNER FOR THE INSTALLATION OF TEMPORARY LIGHTING AND POWER SERVICES TAILORED FOR THIS PROJECT. SET TEMPORARY METERS IN ACCORDANCE WITH THE UTILITY PROVIDER'S REQUIREMENTS. INSTALL AND MAINTAIN ALL TEMPORARY LIGHT AND POWER WIRING, INCLUDING, BUT NOT LIMITED TO CONDUITS, WIRE, SWITCHES, FUSE BOXES, RECEPTACLES, DISTRIBUTION PANELBOARDS, FUSED DISCONNECT SWITCHES, GROUND FAULT INTERRUPTION EQUIPMENT, FIXTURES, LAMPS, FUSES AND ANY OTHER MATERIAL AND/OR EQUIPMENT REQUIRED TO PROVIDE SUFFICIENT ILLUMINATION AND POWER, AS REQUIRED BY THE STATE LABOR BOARD, O.S.H.A., OR ALL OTHER AUTHORITIES HAVING JURISDICTION FOR ALL AREAS OF THE SITE WHERE WORK WILL BE PERFORMED BY ANY CONTRACTOR. PROVIDE TEMPORARY POWER CIRCUITS, OUTLETS, ETC. IN ACCORDANCE WITH THE POWER REQUIREMENTS OF THE VARIOUS VOLTAGE/AMPERAGE/HORSEPOWER RATINGS OF THE EQUIPMENT AND TOOLS TO BE USED BY THE CONTRACTORS IN CONSTRUCTION WORK. ONCE THE PERMANENT LIGHTING AND POWER SYSTEMS ARE INSTALLED AND OPERATIONAL, MAKE THE CUT-OVER. REMOVE ALL TEMPORARY ELECTRICAL DISTRIBUTION COMPONENTS AND SYSTEM AFTER CUT-OVER.

LIGHTING


 LUMINAIRE WITH OUTLET BOX.
 EMERGENCY SUPPLY/NIGHT LIGHTING CIRCUIT.
 A INDICATES FIXTURE TYPE. (SEE FIXTURE SCHEDULE, TYP.)
 "LP1-X" INDICATES CIRCUIT NUMBER. (TYP.)
 SWITCH CONTROL. (TYP.)


 CEILING-MOUNTED LUMINAIRE


 WALL-MOUNTED LUMINAIRE


 POLE, BASE, ARM, AND SITE LIGHTING LUMINAIRE


 CEILING OR WALL-MOUNTED EXIT SIGN (SHADED QUADRANT INDICATES FACE) WITH CHEVRONS
 AND EMERGENCY HEADS AS INDICATED ON FLOOR PLANS


 BATTERY OPERATED EMERGENCY LIGHTING UNIT WITH DUAL HEADS


 DUAL REMOTE HEAD FOR BATTERY OPERATED EMERGENCY LIGHTING UNIT

SWITCHES

S	WALL OUTLET BOX AND SINGLE POLE SWITCH (20 AMP)
S ³	WALL OUTLET BOX AND THREE-WAY SWITCH (20 AMP)
S ⁴	WALL OUTLET BOX AND FOUR-WAY SWITCH (20 AMP)
S ^{NP}	WALL OUTLET BOX AND SINGLE-POLE SWITCH (20 AMP, NON-LOCK, WITH WEATHERPROOF COVER)
S ^K	WALL OUTLET BOX SINGLE POLE KEY SWITCH (20 AMP)
S ^{K3}	WALL OUTLET BOX AND THREE-WAY KEY SWITCH (20 AMP)
S ^{K4}	WALL OUTLET BOX AND FOUR-WAY KEY SWITCH (20 AMP)
S ^D	WALL OUTLET BOX AND DIMMER SWITCH
S ^{LV}	LOW VOLTAGE LIGHTING SWITCH
S ^T	TIME SWITCH
	WALL-MOUNTED OCCUPANCY SENSOR
	CEILING-MOUNTED OCCUPANCY SENSOR
	AUTOMATIC DAYLIGHTING CONTROL SENSOR
	ROOM CONTROLLER

SWITCHING NOTES:

1. MOUNT SWITCHES AT 42" U.O.N.
2. SWITCHES SHALL BE RATED FOR LOAD CONTROLLED.
3. DIMMERS SHALL BE COMPATIBLE FOR LIGHTING FIXTURE LAMP SOURCE AND BALLAST/DRIVER BEING CONTROLLED.
4. WHERE MULTIPLE SWITCHES ARE SHOWN, PROVIDE GANG SWITCH IN SINGLE ENCLOSURE WITH SINGLE FACEPLATE.
5. LOWERCASE LETTER DENOTES SWITCH CONTROL.

WIRING DEVICES

	WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE
	WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE, MOUNTED 6\"
	TWO GANG WALL OUTLET BOX AND TWO 20 AMP DUPLEX RECEPTACES
	TWO GANG WALL OUTLET BOX AND TWO 20 AMP DUPLEX RECEPTACES, MOUNTED 6\"
	WALL OUTLET BOX AND 20 AMP SINGLE RECEPTACLE
	WALL OUTLET BOX AND SPECIAL PURPOSE RECEPTACLE
	FLUSH FLOOR BOX WITH FIRE/SMOKE RATED PENETRATION, COVER, AND 20 AMP RECEPTACLE(S) DATA OUTLET(S) CONFIGURATION AS INDICATED. PROVIDE MINIMUM 3/4\"
	CEILING OUTLET BOX AND 20 AMP RECEPTACLE CONFIGURATION AS INDICATED
	PLUGMOLD WITH DIVIDER. PROVIDE RECEPTACES AND TELE/DATA OUTLETS AS INDICATED.
	FLUSH WALL JUNCTION BOX OR JUNCTION BOX ABOVE CEILING.

WIRING DEVICES NOTATIONS

+XX	DIMENSIONED HEIGHT A.F.F.
"a"	LOWERCASE LETTER DENOTES SWITCH CONTROL.
"EX"	EXISTING DEVICE
"GF"	GROUND FAULT CIRCUIT INTERRUPTER PERSONAL PROTECTION
"GFP"	GROUND FAULT PROTECTION OF EQUIPMENT
"IG"	ISOLATED GROUND (RECEPTACES INCLUDE SEPARATE GREEN GROUND CONDUCTOR TO ISOLATED GROUND BUS IN PANEL)
"WP"	WEATHERPROOF

EQUIPMENT

	200/120V PANELBOARD
	480/277V BRANCH CIRCUIT PANELBOARD
	UNFUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	COMBINATION DISCONNECT SWITCH AND MAGNETIC MOTOR CONTROLLER
	MAGNETIC MOTOR STARTER OR CONTACTOR
	MOTOR CONNECTION
	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOADS
	TRANSFORMER
	MOTORIZED DAMPER LOCATION (FURNISHED UNDER DIVISION 23)
	TIME CLOCK
	EMERGENCY POWER OFF SWITCH
	ENCAPSULATED RELAY/SHUTDOWN RELAY
	SURGE PROTECTION DEVICE
	VARIABLE FREQUENCY DRIVE

FIRE ALARM

	WALL-MOUNTED FLUSH MANUAL PULL STATION
	WALL-MOUNTED AUDIO AND VISUAL ALARM WITH CANDELA RATING AS NOTED
	WALL-MOUNTED VISUAL ALARM WITH CANDELA RATING AS NOTED
	CEILING-MOUNTED SMOKE DETECTOR, "CO" DENOTES COMBINATION CARBON MONOXIDE/SMOKE DETECTOR
	CEILING-MOUNTED HEAT DETECTOR, "CO" DENOTES COMBINATION CARBON MONOXIDE/SMOKE DETECTOR
	DUCT-MOUNTED SMOKE DETECTOR, "CO" DENOTES COMBINATION CARBON MONOXIDE/SMOKE DETECTOR
	SPRINKLER SYSTEM FLOW SWITCH CONNECTION
	SPRINKLER SYSTEM PRESSURE SWITCH CONNECTION
	SPRINKLER SYSTEM TAMPER SWITCH CONNECTION
	FIRE ADDRESSABLE INTERFACE MODULE
	REMOTE TEST STATION WITH LED INDICATOR AND KEY SWITCH
	FIRE ALARM SYSTEM CONTROL MODULE
	FIRE ALARM SYSTEM MONITOR MODULE
	FIRE ALARM SYSTEM CONTROL PANEL
	FIRE ALARM SYSTEM ANNUNCIATOR PANEL

TELECOMMUNICATIONS

 COMBINATION TELEPHONE DATA WALL OUTLET BOX WITH MINIMUM 1" CONDUIT TO ABOVE ACCESSIBLE FINISHED CEILING (PROVIDE PULL CORD AND END BUSHING) MOUNTED AT 18" A.F. U.O.N. SEE DRAWINGS FOR CABLE TYPE, QTY, ETC.

 FLUSH FLOOR BOX FOR ONE TELEPHONE AND ONE DATA JACK WITH COVER. PROVIDE MINIMUM 1" CONDUIT TO NEAREST WALL AND UP TO ABOVE ACCESSIBLE CEILING (PROVIDE PULL CORD AND END BUSHING) U.O.N. SEE DRAWINGS FOR CABLE TYPE, QTY, ETC.

 FLUSH-MOUNTED TELEVISION CABLE LOCATION WITH RECESSED FLAT PANEL MOUNTING ENCLOSURE EQUIPPED WITH RECEPTACLE, DATA DROP, AND CABLE TV COAX CONNECTION (COORDINATE LOCATION AND MOUNTING HEIGHT WITH ARCHITECT.) SEE DRAWINGS FOR CABLE TYPE, QTY, ETC.

RACEWAYS

	HOMERUN TO PANEL
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT WITH CAP
	LADDER TYPE CABLE TRAY (NUMBER INDICATES WIDTH)
	OVERHEAD CONDUCTORS
	UNDERGROUND DUCTBANK SYSTEM
	DUCTBANK SYSTEM SECTION CALLOUT, "X-X" INDICATES CORRESPONDING SECTION

SYMBOLS LEGEND NOTE

NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED ARE APPLICABLE TO THIS PROJECT. INDIVIDUAL DRAWINGS MAY DEFINE UNIQUE SYMBOLS FOR CONVENIENCE.

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Apartment Building**
Client: Empire Property Construction
16-22 Union St.
Wilkes-Barre, Pa 18701

Consultants:

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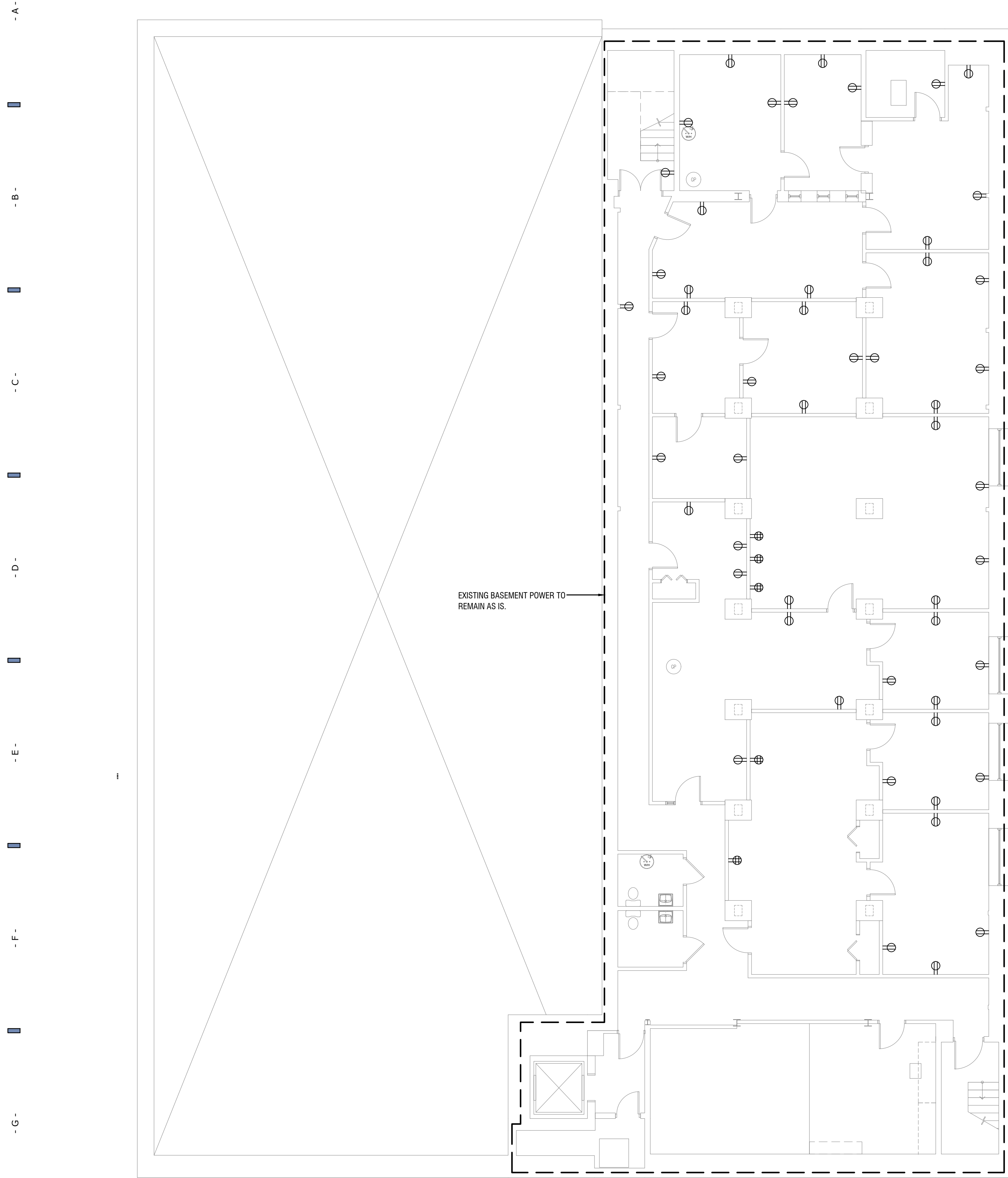
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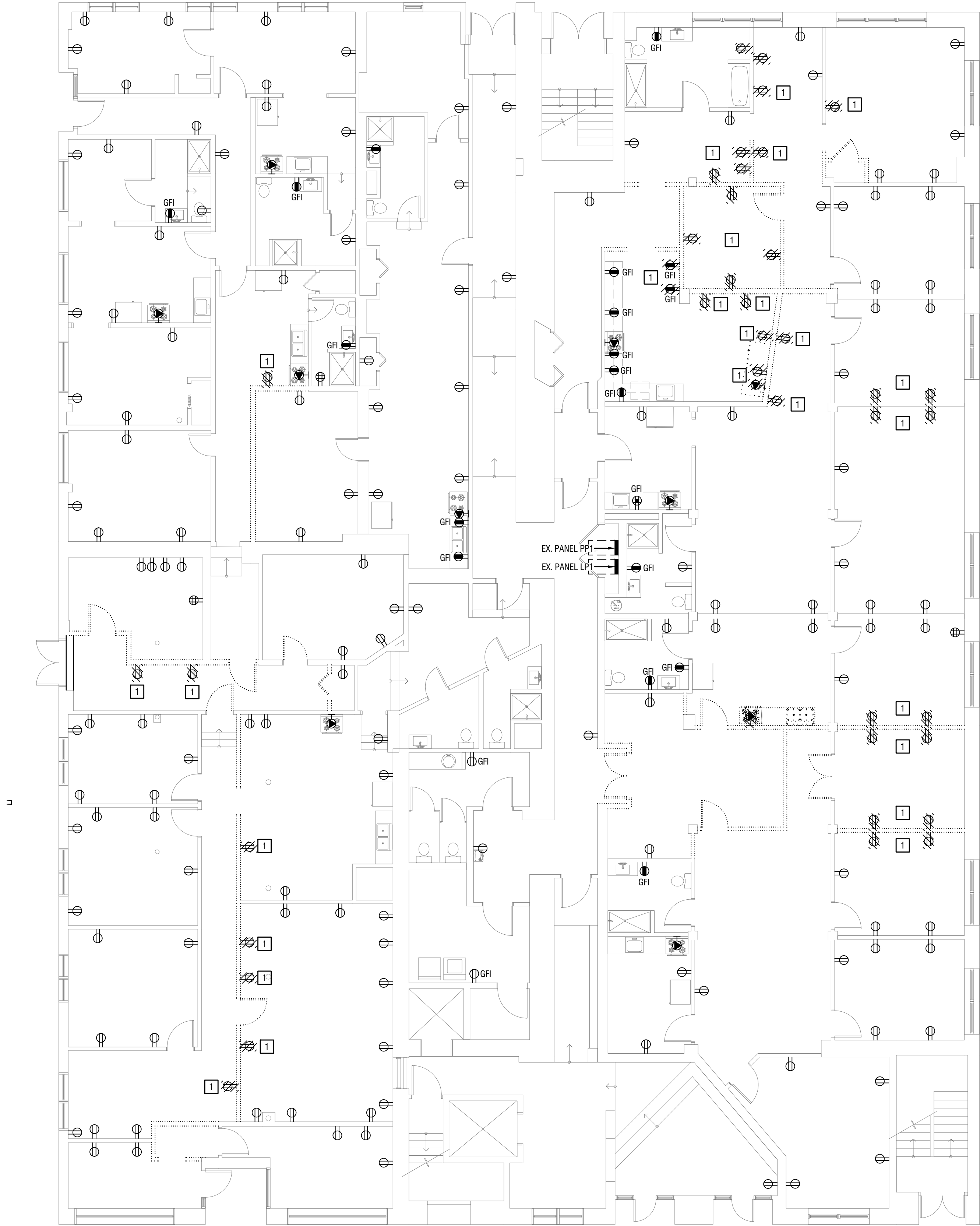
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ELECTRICAL COVER DRAWING

E-1



1 EXISTING BASEMENT FLOOR PLAN
ED-1 SCALE: 1/8" = 1'-0"

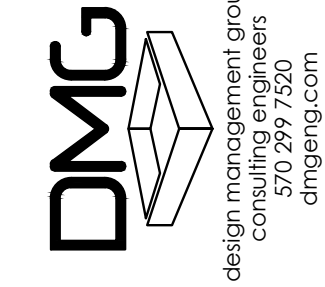


2 EXISTING FIRST FLOOR PLAN
ED-1 SCALE: 1/8" = 1'-0"

KEYED POWER DEMOLITION NOTES:

- 1 EXISTING RECEPTACLE TO BE DEMOLISHED FOR NEW FLOOR PLAN OF WALL REMOVAL. COORDINATE WITH ARCHITECTURAL DRAWINGS.

Consultants:



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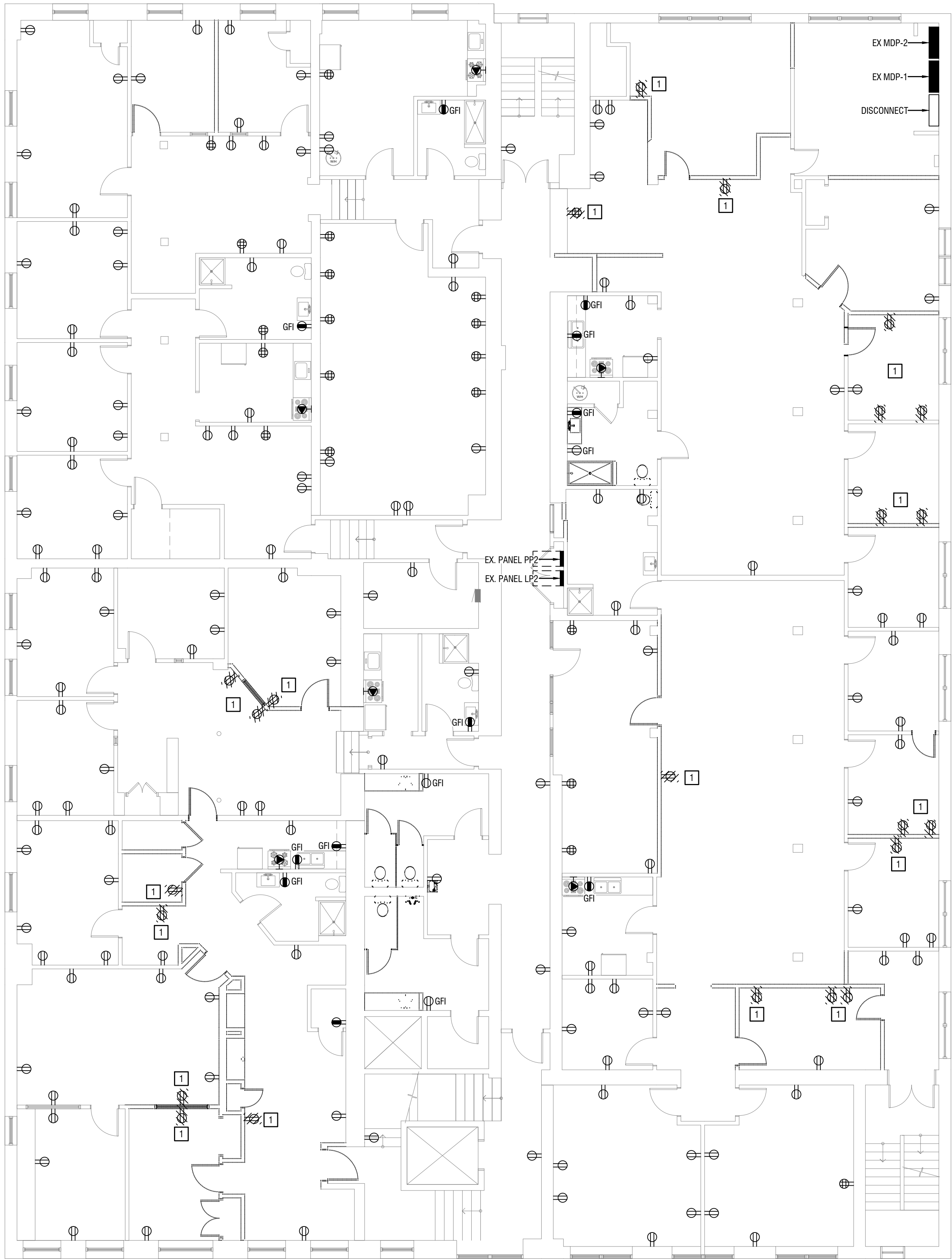
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EXISTING BASEMENT &
FIRST FLOOR POWER PLAN

ED-1

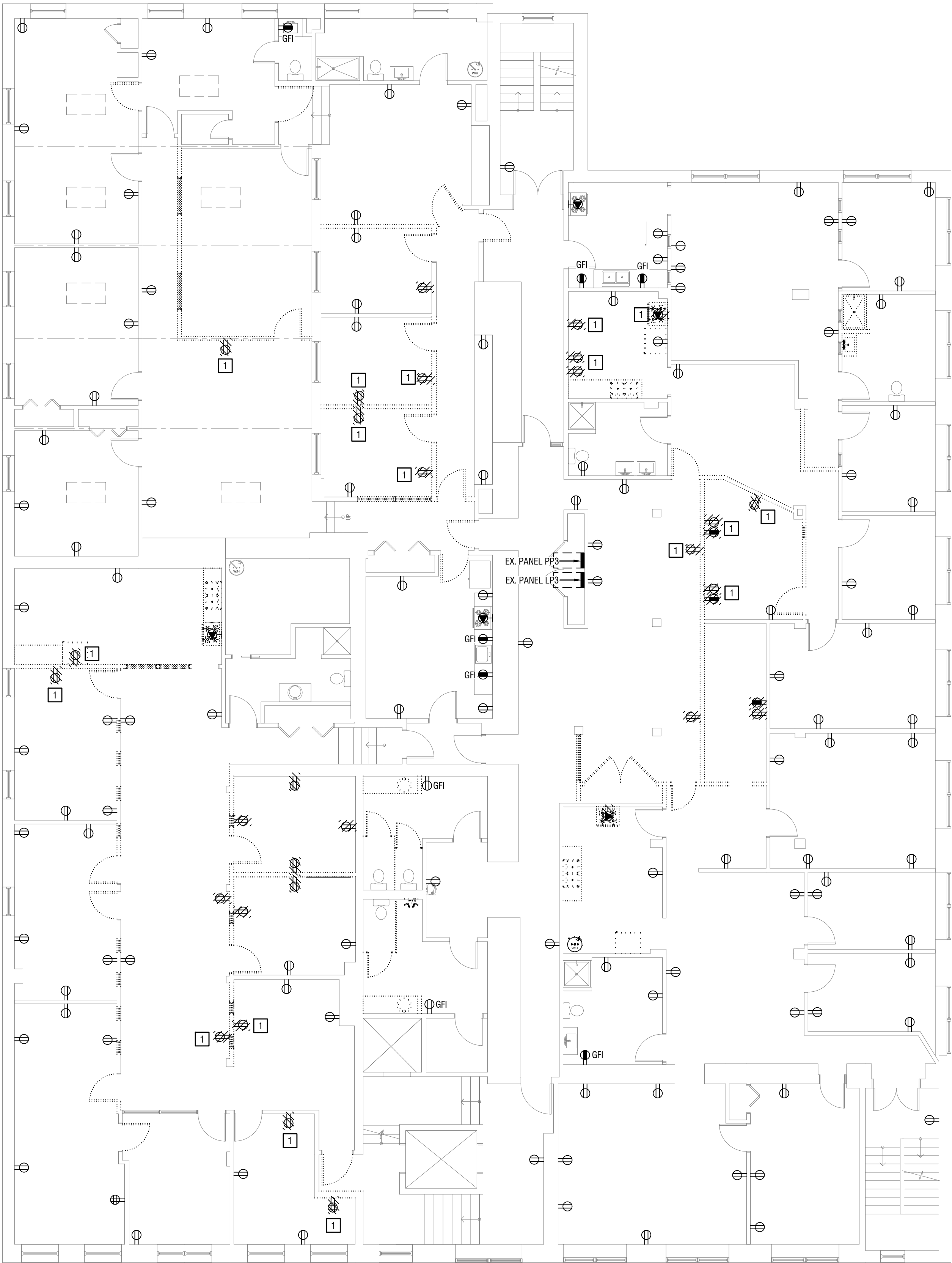
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1 EXISTING SECOND FLOOR PLAN
ED-2 SCALE: 1/8" = 1'-0"

KEYED POWER DEMOLITION NOTES:

- 1 EXISTING RECEPTACLE TO BE DEMOLISHED FOR NEW FLOOR PLAN OF WALL REMOVAL. COORDINATE WITH ARCHITECTURAL DRAWINGS.



1 EXISTING THIRD FLOOR PLAN
ED-2 SCALE: 1/8" = 1'-0"

KEYED POWER DEMOLITION NOTES:

- 1 EXISTING RECEPTACLE TO BE DEMOLISHED FOR NEW FLOOR PLAN OF WALL REMOVAL. COORDINATE WITH ARCHITECTURAL DRAWINGS.

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EXISTING SECOND & THIRD FLOOR POWER PLAN

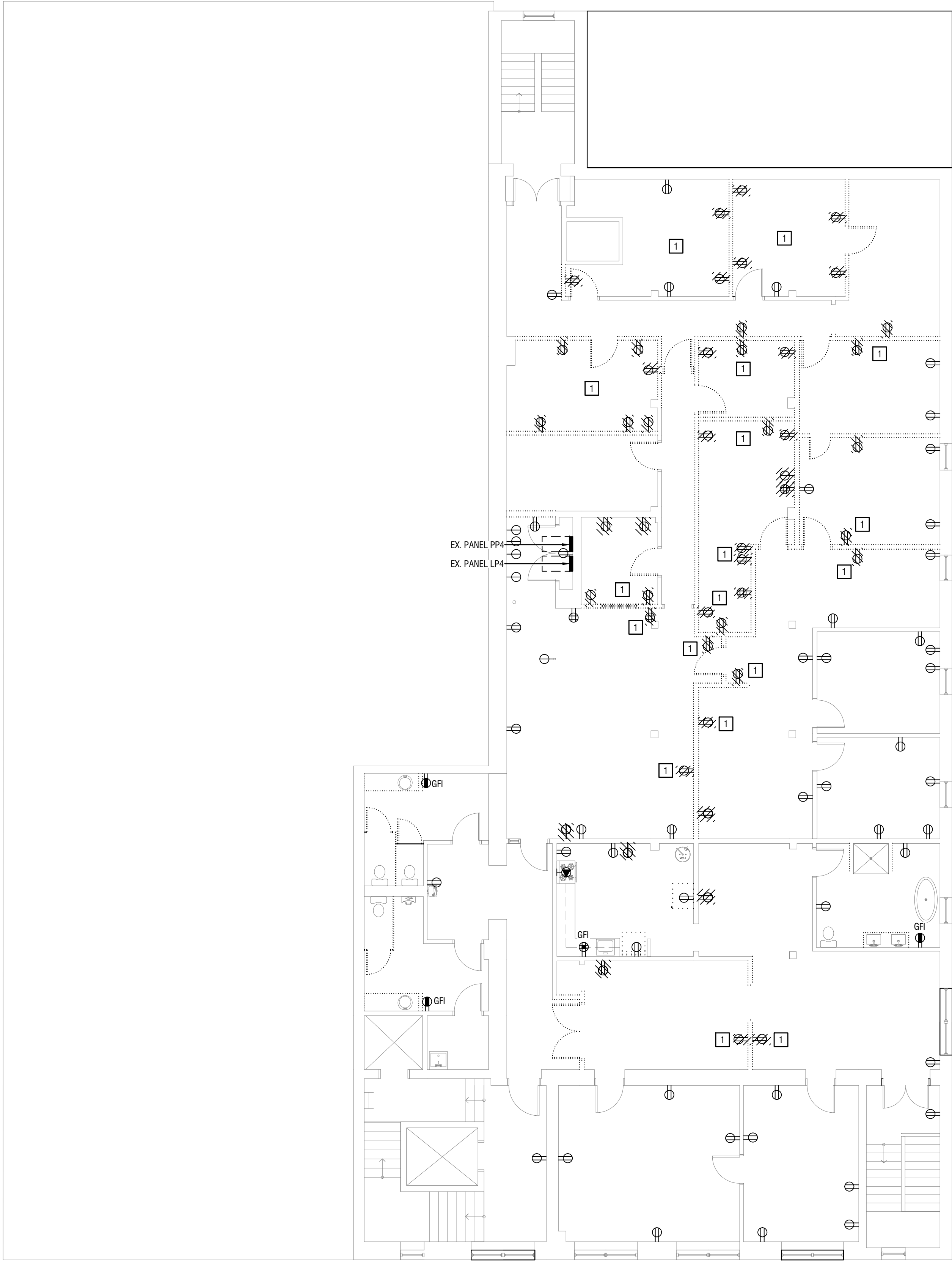
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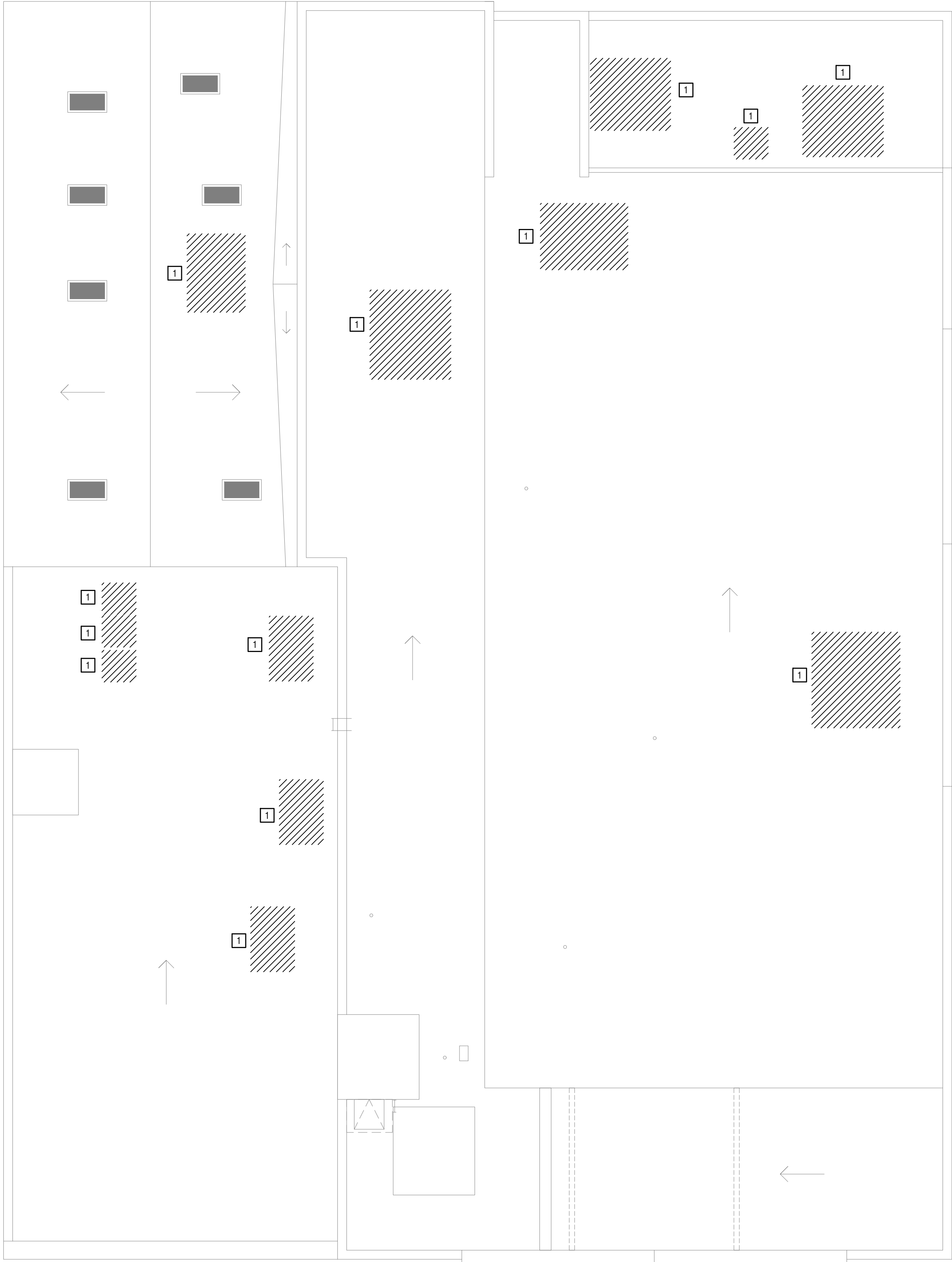
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1 EXISTING FOURTH FLOOR PLAN
ED-3 SCALE: 1/8" = 1'-0"

KEYED POWER DEMOLITION NOTES:

- 1 EXISTING RECEPTACLE TO BE DEMOLISHED FOR NEW FLOOR PLAN OF WALL REMOVAL. COORDINATE WITH ARCHITECTURAL DRAWINGS.



1 EXISTING ROOF FLOOR PLAN
ED-3 SCALE: 1/8" = 1'-0"

KEYED POWER DEMOLITION NOTES:

- 1 DISCONNECT EXISTING MECHANICAL EQUIPMENT. REMOVE FEEDERS AND SPARE BREAKER.

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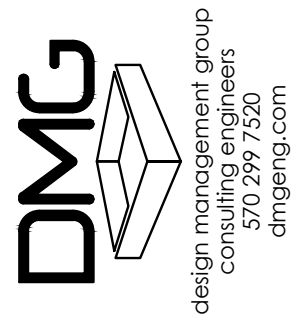
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EXISTING FOURTH &
ROOF POWER PLANS

ED-3

Consultants:



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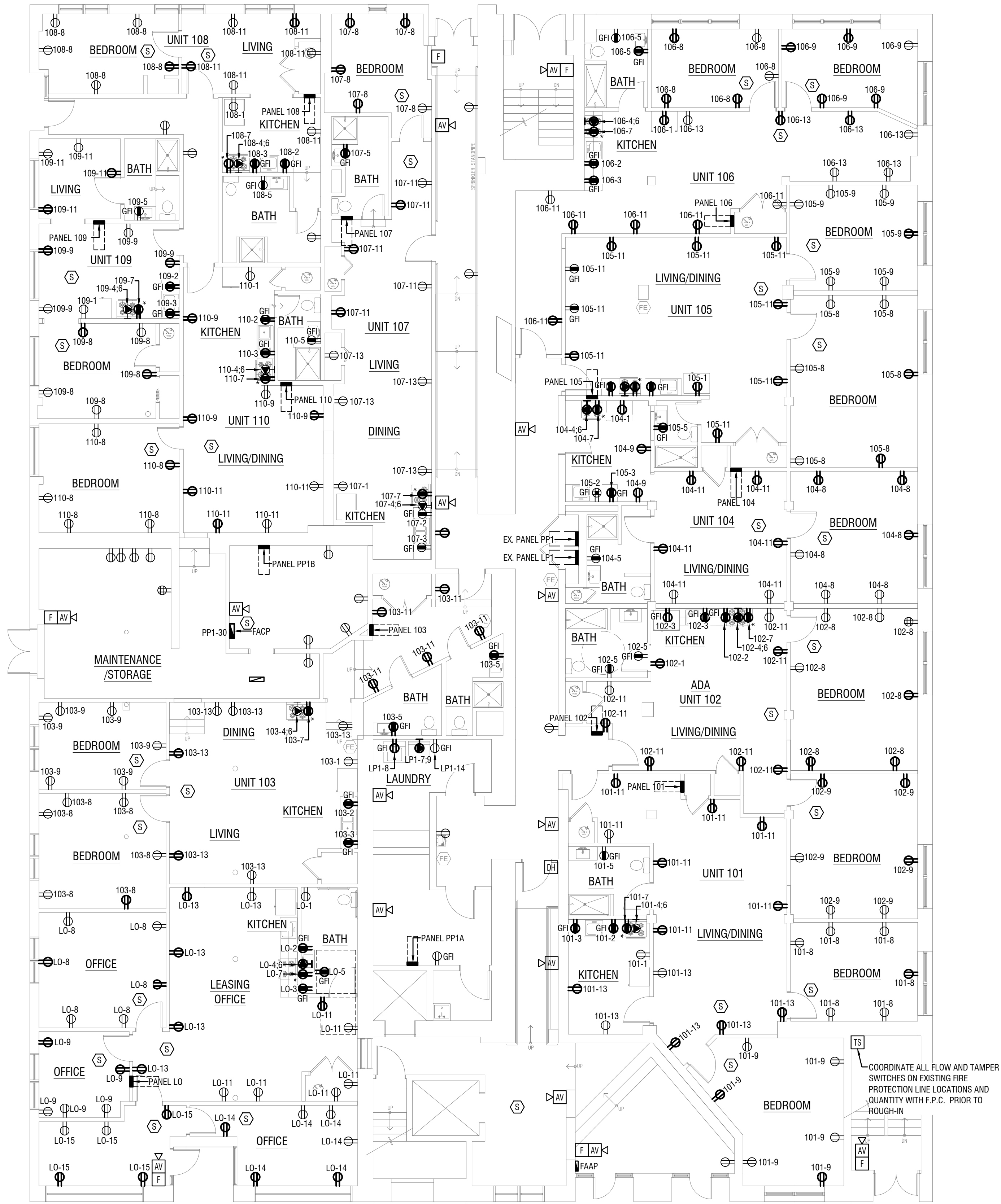
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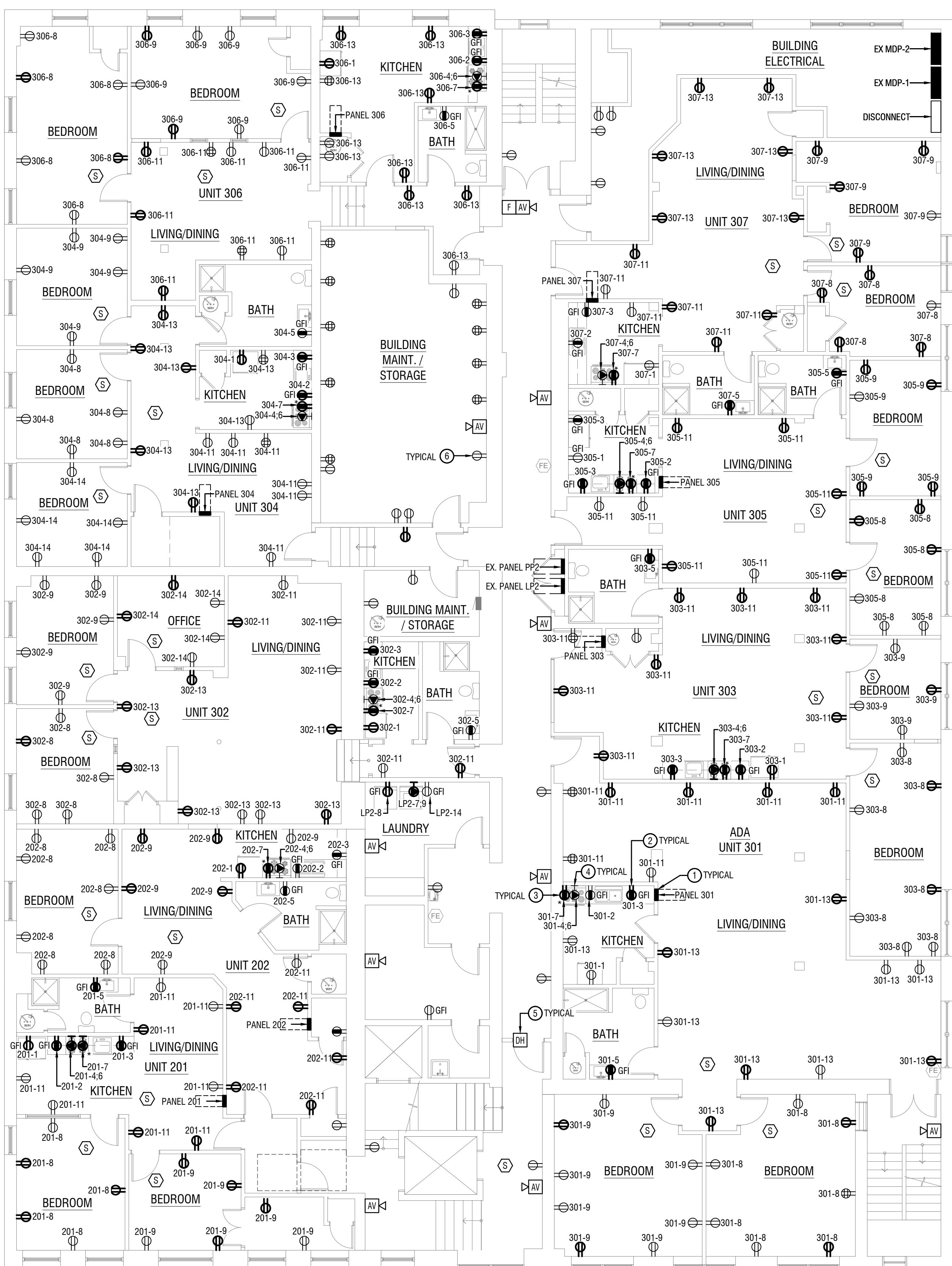
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1 FIRST FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"

GENERAL PLAN NOTES

- ALL DEVICES SHOWN ON ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN LOCATION AND SHOWN FOR GENERAL WIRING PURPOSES ONLY. THE E.C. SHALL COORDINATE THE ACTUAL LOCATIONS, MOUNTING HEIGHTS, AND FINAL WIRING REQUIREMENTS FOR ALL EQUIPMENT, CASEWORK, DEVICES, FIXTURES, SWITCHES, SENSORS, ETC. WITH THE OWNER AND ARCHITECT PRIOR TO PERFORMING ANY ROUGH-IN WORK. MOUNT DEVICES IN A COMMON VERTICAL PLANE. PROVIDE MULTI-GANG FACE PLATES WHEREVER POSSIBLE.
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- ALL RECEPTACLES SHALL BE TAMPER RESISTANT PER NEC ARTICLE 406.11.
- ALL COUNTERTOP RECEPTACLES FOR KITCHENS, KITCHENETTES, AND RESTROOMS SHALL BE GFCI-PROTECTED.
- ALL 120V-1Ø CIRCUITS SHALL BE AFCI-PROTECTED PER NEC ARTICLE 210.12.
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- VERIFY THE FINAL LOCATION FOR THE FIRE ALARM ANNUNCIATOR PANEL WITH THE FIRE MARSHAL.



2 SECOND FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"

KEYED POWER CONSTRUCTION NOTES

- COORDINATE FINAL PANEL LOCATION AND WALL CONSTRUCTION WITH OWNER PRIOR TO ROUGH-IN.
- ABOVE COUNTER GFI SMALL APPLIANCE CIRCUIT RECEPTACLE. COORDINATE FINAL MOUNTING HEIGHT WITH OWNER AND BACKSPLASH PRIOR TO ROUGH-IN.
- RECEPTACLE FOR MICROWAVE ABOVE RANGE. COORDINATE FINAL MOUNTING HEIGHT WITH CABINETRY AND APPLIANCE CUT SHEET.
- ELECTRIC RANGE RECEPTACLE. COORDINATE FINAL MOUNTING LOCATION, HEIGHT, PLUG TYPE AND ELECTRICAL CHARACTERISTICS WITH CUT SHEET PRIOR TO ROUGH-IN.
- COORDINATE ALL FIRE DOOR LOCATIONS AND FIRE ALARM DEVICES WITH ARCHITECTURAL DRAWINGS.
- EXISTING RECEPTACLES. COORDINATE WITH OWNER RECEPTACLES TO REMAIN OR BE BLANKED OFF. UPDATE PANELBOARD SCHEDULE WITH APPROPRIATE LOCATION OF RECEPTACLES TO REMAIN.

FIRE ALARM SYSTEM CONTACT:
EASTERN TIME INC.
JUSTIN EDDY
(570) 840-1473
justine@eastern-time.com

FIRE WALL NOTE:
SEE ARCHITECTURAL DRAWING A0.5 FOR ALL FIRE WALL LOCATIONS AND RATINGS. COORDINATE FIRE SEALING ALL PENETRATIONS THROUGH WALLS.

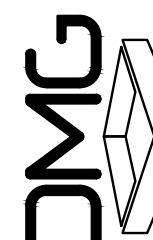
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Consultants:



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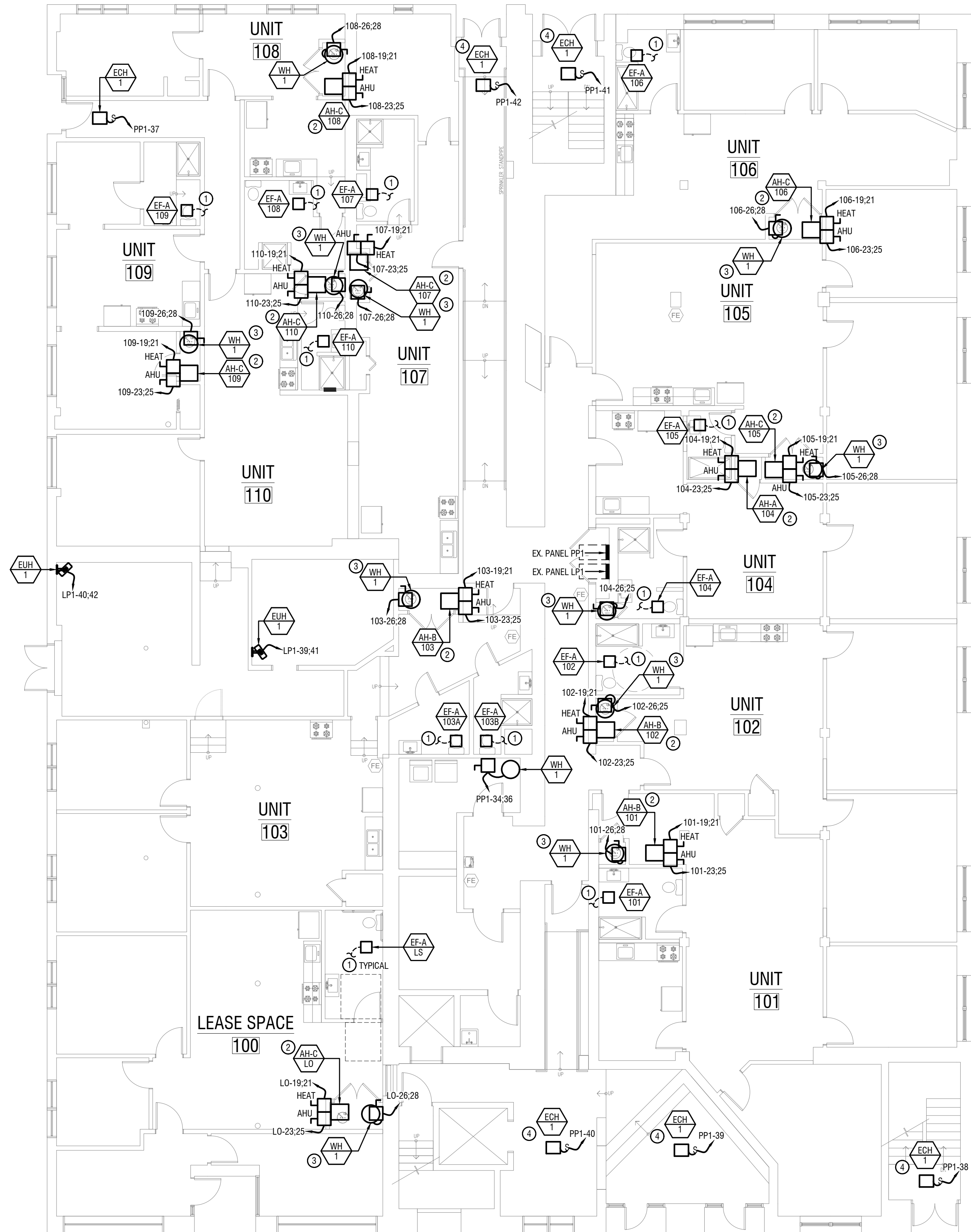
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FIRST & SECOND FLOOR
NEW POWER PLANS

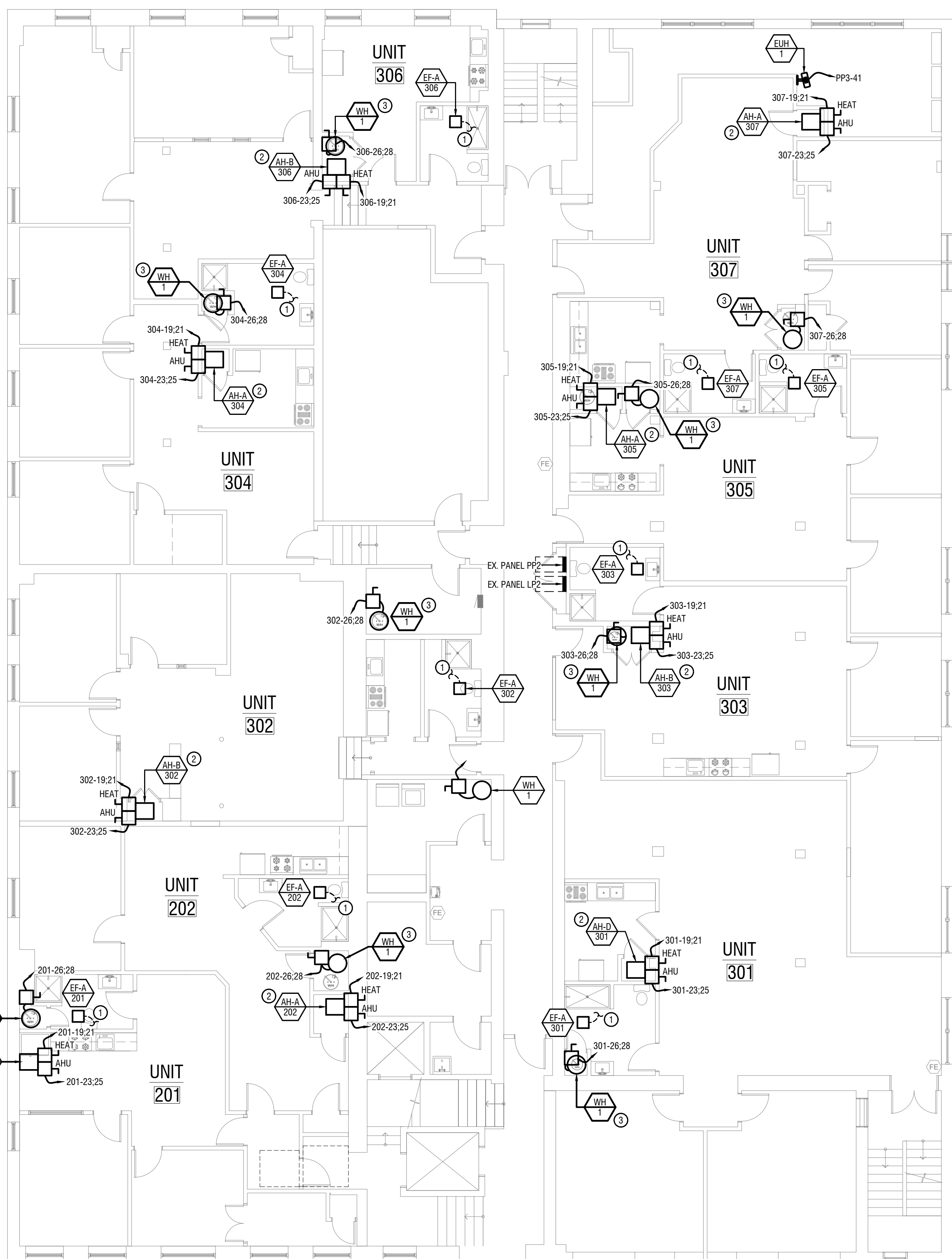
E-2



1 FIRST FLOOR MECHANICAL EQ POWER PLAN
E-3 SCALE: 1/8" = 1'-0"

GENERAL PLAN NOTES

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2 SECOND FLOOR MECHANICAL EQ POWER PLAN
E-3 SCALE: 1/8" = 1'-0"

FIRE WALL NOTE:
SEE ARCHITECTURAL DRAWING A0.5 FOR ALL FIRE WALL LOCATIONS AND RATINGS. COORDINATE FIRE SEALING ALL PENETRATIONS THROUGH WALLS.

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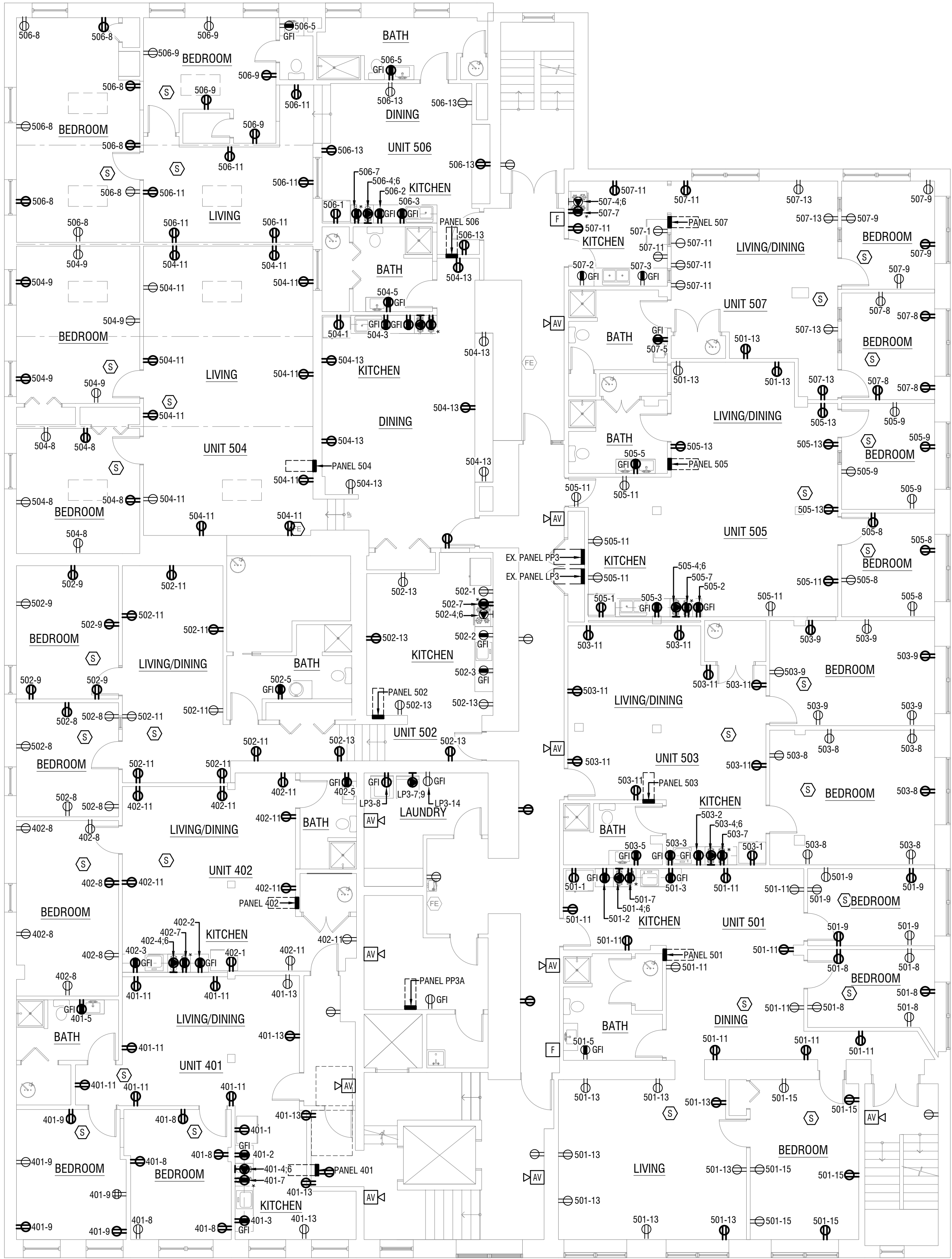
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FIRST AND SECOND FLOOR
MECH. EQ. POWER PLANS

E-3

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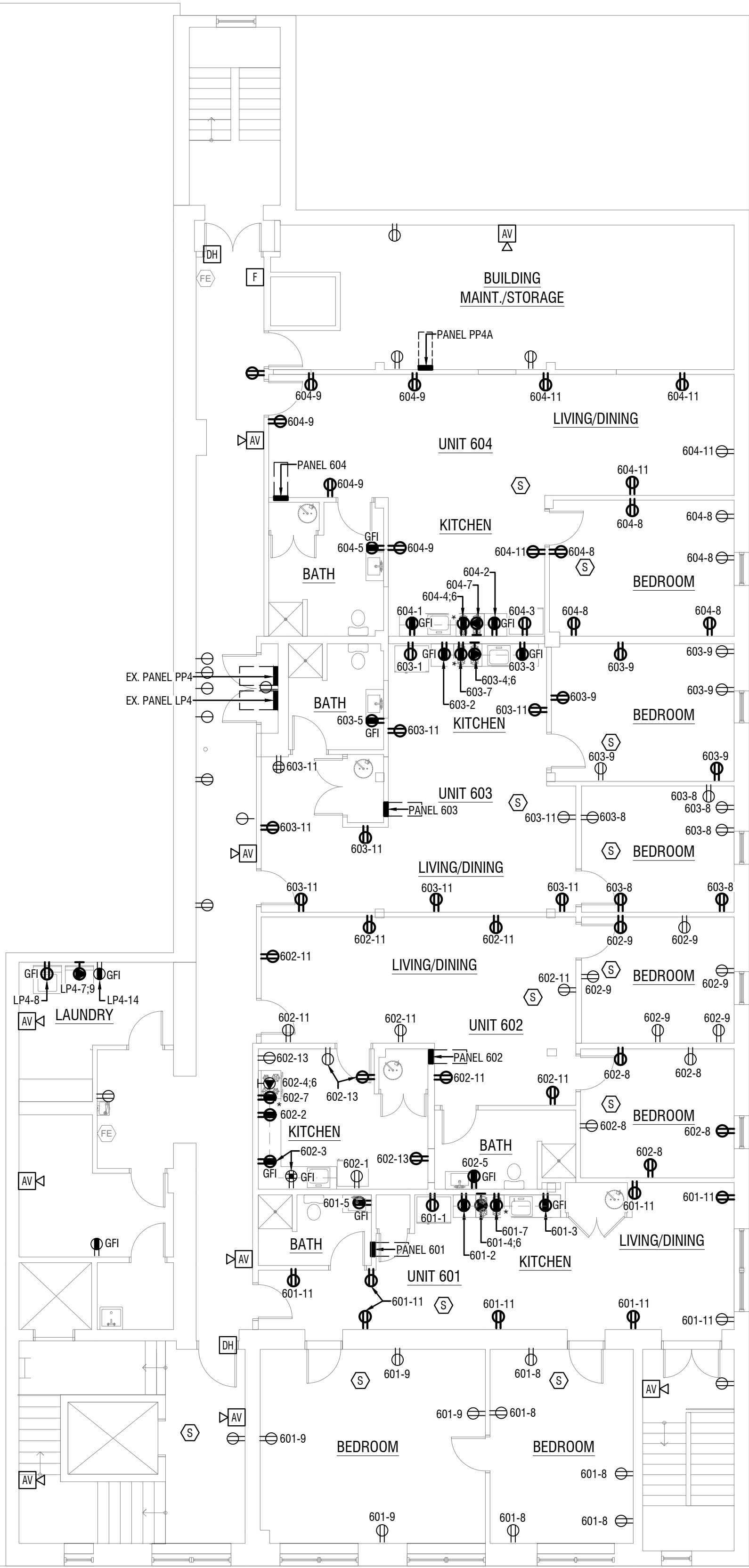
1 THIRD FLOOR POWER PLAN
E-5 SCALE: 1/8" = 1'-0"

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KEYED POWER CONSTRUCTION NOTES

- COORDINATE FINAL PANEL LOCATION AND WALL CONSTRUCTION WITH OWNER PRIOR TO ROUGH-IN.
- ABOVE COUNTER GFI SMALL APPLIANCE CIRCUIT RECEPTACLE. COORDINATE FINAL MOUNTING HEIGHT WITH OWNER AND BACKSPLASH PRIOR TO ROUGH-IN.
- RECEPTACLE FOR MICROWAVE ABOVE RANGE. COORDINATE FINAL MOUNTING HEIGHT WITH CABINETS AND APPLIANCE CUT SHEET.
- ELECTRIC RANGE RECEPTACLE. COORDINATE FINAL MOUNTING LOCATION, HEIGHT, PLUG TYPE AND ELECTRICAL CHARACTERISTICS WITH CUT SHEET PRIOR TO ROUGH-IN.
- COORDINATE ALL FIRE DOOR LOCATIONS AND FIRE ALARM DEVICES WITH ARCHITECTURAL DRAWINGS.
- EXISTING RECEPTACLES. COORDINATE WITH OWNER RECEPTACLES TO REMAIN OR BE BLANKED OFF. UPDATE PANELBOARD SCHEDULE WITH APPROPRIATE LOCATION OF RECEPTACLES TO REMAIN.



2 FOURTH FLOOR POWER PLAN
E-5 SCALE: 1/8" = 1'-0"

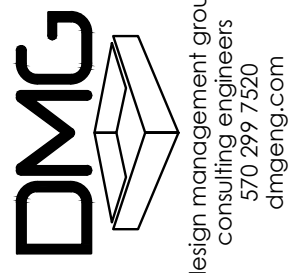
FIRE ALARM SYSTEM CONTACT:
EASTERN TIME INC.
JUSTIN EDDY
(570) 840-1473
JustinE@EASTERN-TIME.COM

FIRE WALL NOTE:
SEE ARCHITECTURAL DRAWING A0.5 FOR ALL FIRE WALL LOCATIONS AND RATINGS. COORDINATE FIRE SEALING ALL PENETRATIONS THROUGH WALLS.

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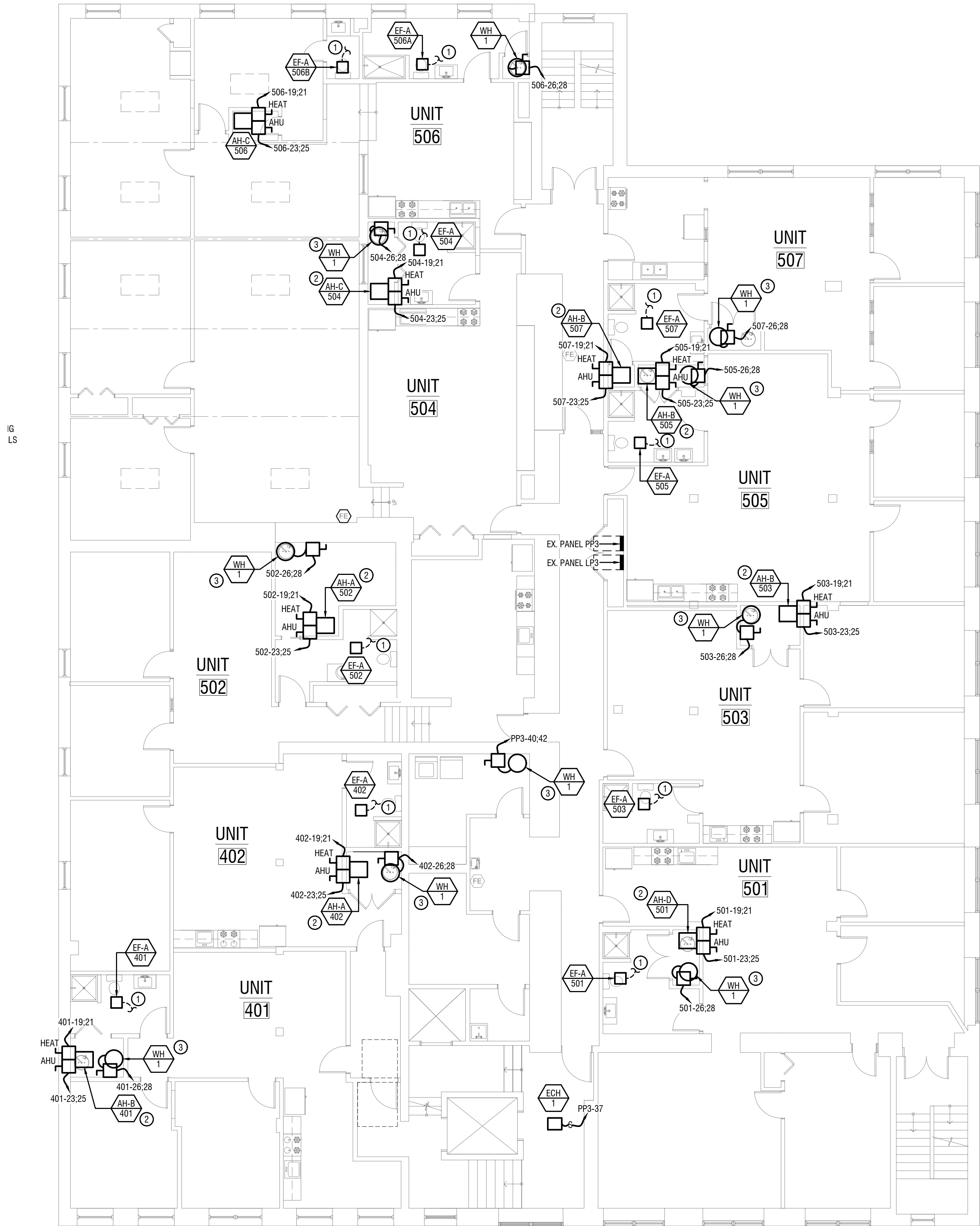
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THIRD AND FOURTH FLOOR
NEW POWER PLANS

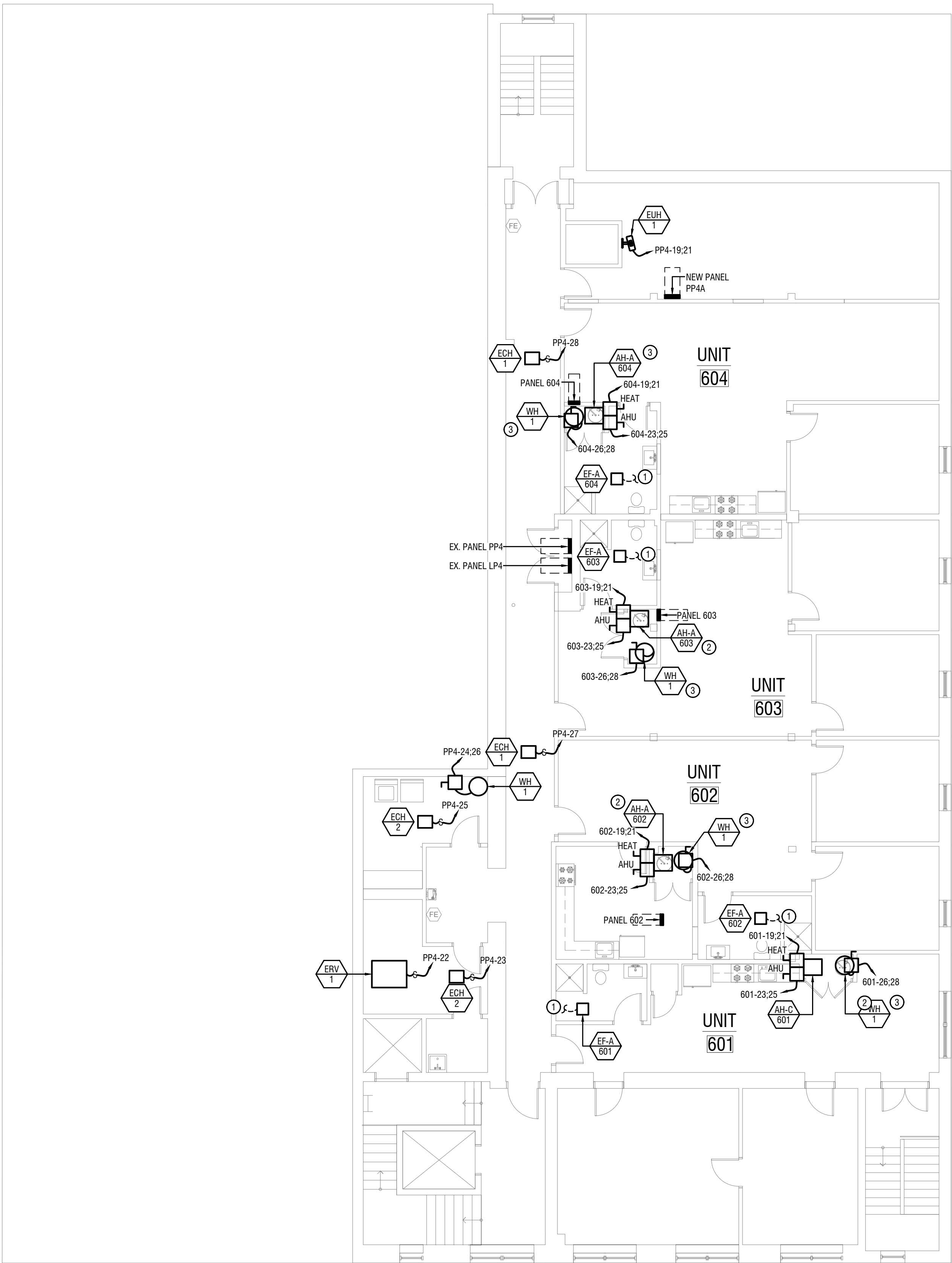
E-5



1 THIRD FLOOR MECHANICAL EQ POWER PLAN
E-6 SCALE: 1/8" = 1'-0"

GENERAL PLAN NOTES

- ALL DEVICES SHOWN ON ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN LOCATION AND SHOWN FOR GENERAL WIRING PURPOSES ONLY. THE E.C. SHALL COORDINATE THE ACTUAL LOCATIONS, MOUNTING HEIGHTS, AND FINAL WIRING REQUIREMENTS FOR ALL EQUIPMENT, CASEWORK, DEVICES, FIXTURES, SWITCHES, SENSORS, ETC. WITH THE OWNER AND ARCHITECT PRIOR TO PERFORMING ANY ROUGH-IN WORK. MOUNT DEVICES IN A COMMON VERTICAL PLANE. PROVIDE MULTI-GANG FACE PLATES WHEREVER POSSIBLE.
- THE E.C. SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS BETWEEN TRADES TO ASSURE THE PROPER INSTALLATION OF ALL EQUIPMENT.



2 FOURTH FLOOR MECHANICAL EQ POWER PLAN
E-6 SCALE: 1/8" = 1'-0"

FIRE WALL NOTE:
SEE ARCHITECTURAL DRAWING A0.5 FOR ALL FIRE WALL LOCATIONS AND RATINGS. COORDINATE FIRE SEALING ALL PENETRATIONS THROUGH WALLS.

Client:
**16-22 Union Street -
Apartment Building**
Client: Empire Property Construction
16-22 Union St.
Wilkes-Barre, Pa 18701

Consultants:

DMG
design management group
consultants
570.297.7520
dmgeng.com

Seals:

CAM architect
architect
CAM architect, LLC
ARCHITECTS | PLANNERS
606 North Main St. Wilkes-Barre, PA 18705
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www.camarchitectus.com

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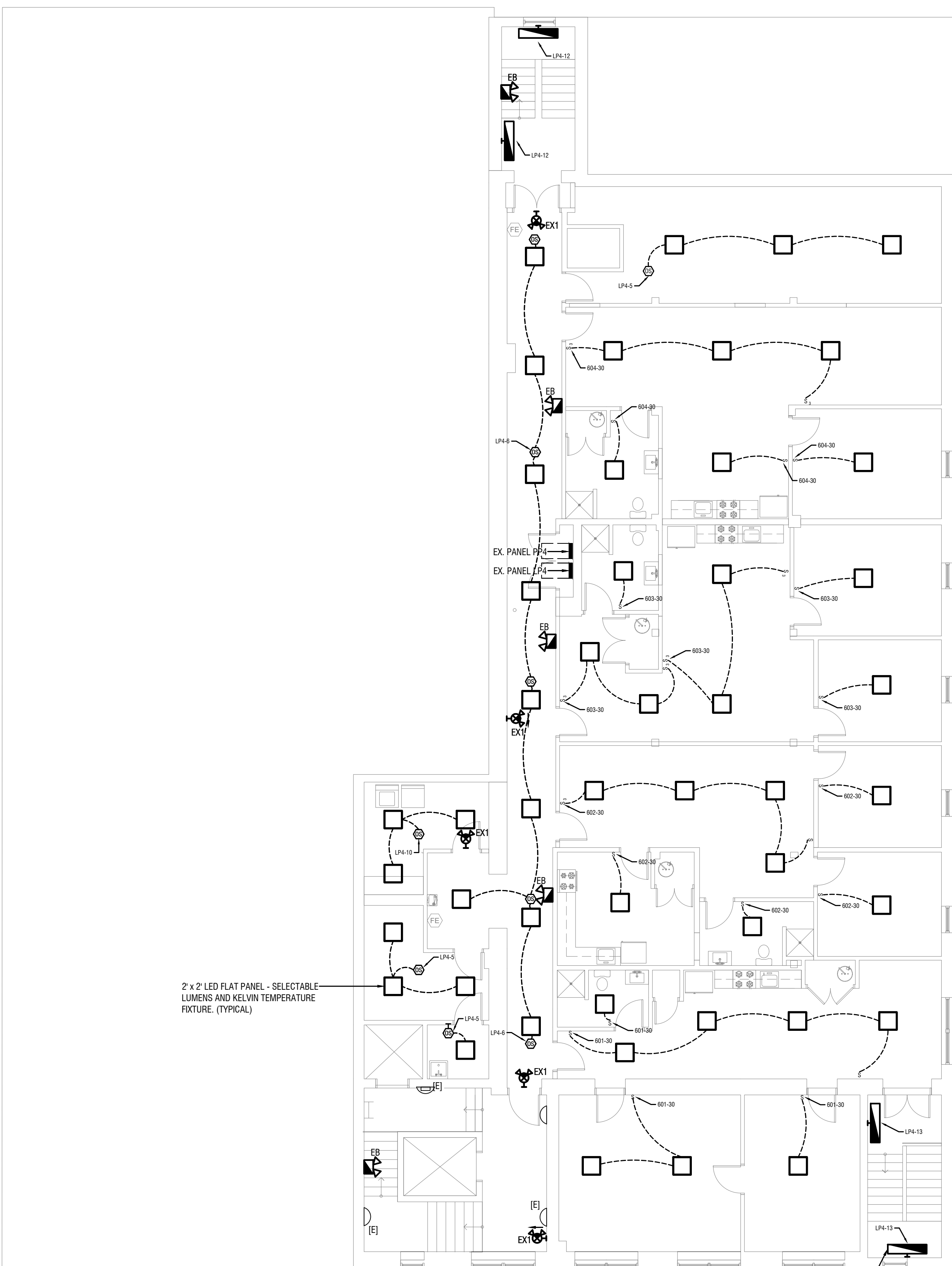
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Revisions | Issues
No: Date:

Phase:
PERMIT/PRICING

Project: Apartment Building
Date: 06/15/2026
Drawn: DP Checked: KJS
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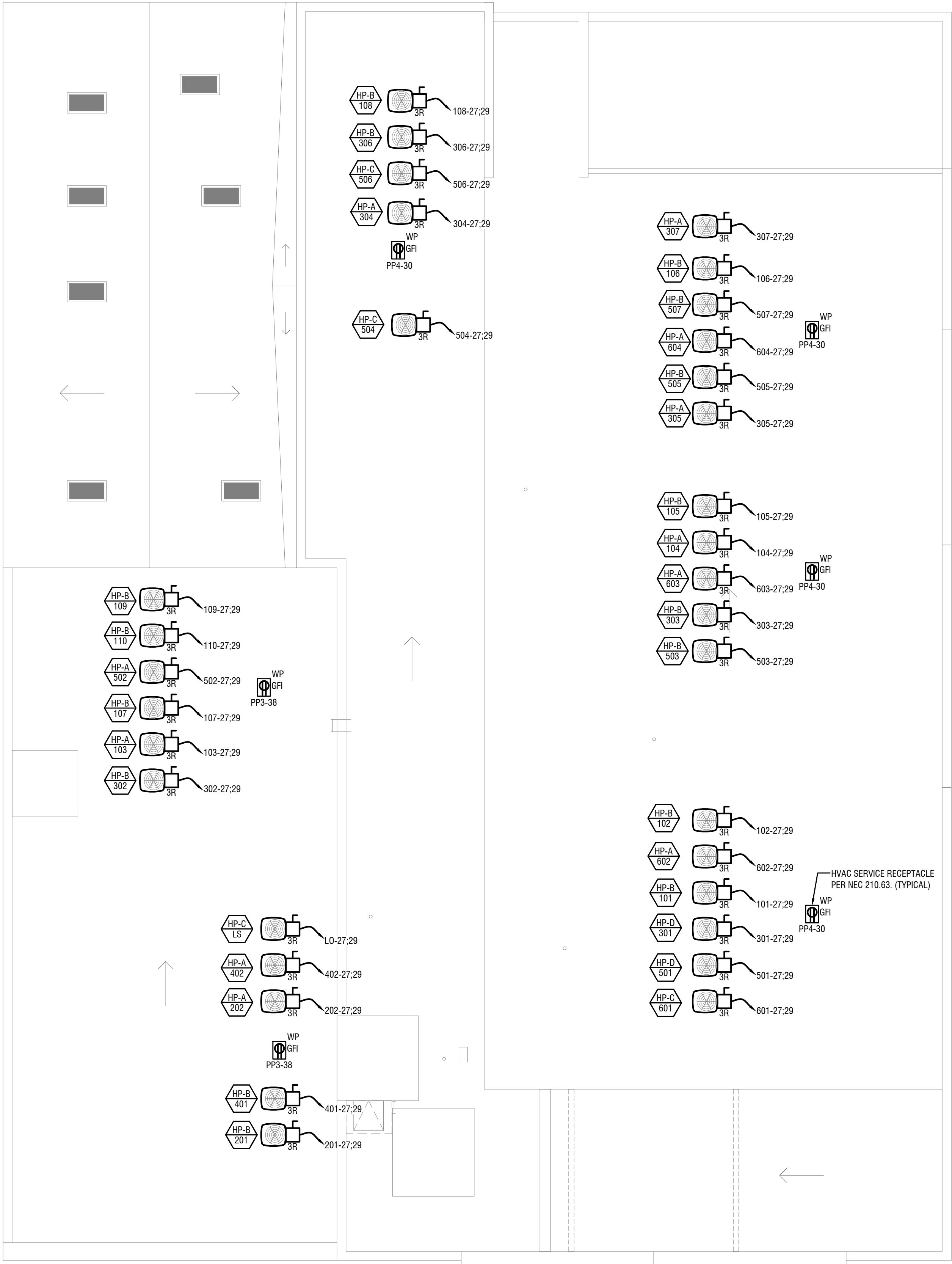
THIRD AND FOURTH FLOOR
MECH. EQ. POWER PLANS
E-6



1 FOURTH FLOOR LIGHTING PLAN
E-7 SCALE: 1/8" = 1'-0"

FIRE WALL NOTE:
SEE ARCHITECTURAL DRAWING A0.5 FOR ALL FIRE WALL
LOCATIONS AND RATINGS. COORDINATE FIRE SEALING ALL
PENETRATIONS THROUGH WALLS.

E-7



GENERAL PLAN NOTES

- ALL DEVICES SHOWN ON ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN LOCATION AND SHOWN FOR GENERAL WIRING PURPOSES ONLY. THE E.C. SHALL COORDINATE THE ACTUAL LOCATIONS, MOUNTING HEIGHTS, AND FINAL WIRING REQUIREMENTS FOR ALL EQUIPMENT, CASEWORK, DEVICES, FIXTURES, SWITCHES, SENSORS, ETC. WITH THE OWNER AND ARCHITECT PRIOR TO PERFORMING ANY ROUGH-IN WORK. MOUNT DEVICES IN A COMMON VERTICAL PLANE. PROVIDE MULTI-GANG FACE PLATES WHEREVER POSSIBLE.
- THE E.C. SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS BETWEEN TRADES TO ASSURE THE PROPER INSTALLATION OF ALL EQUIPMENT.

1 ROOF POWER FLOOR PLAN
E-8 SCALE: 1/8" = 1'-0"

FIRE WALL NOTE:
SEE ARCHITECTURAL DRAWING A0.5 FOR ALL FIRE WALL LOCATIONS AND RATINGS. COORDINATE FIRE SEALING ALL PENETRATIONS THROUGH WALLS.

Client:
**16-22 Union Street -
Apartment Building**
Client: Empire Property Construction
16-22 Union St.
Wilkes-Barre, Pa 18701

Consultants:
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consultants
570.297.7520
dmgeng.com

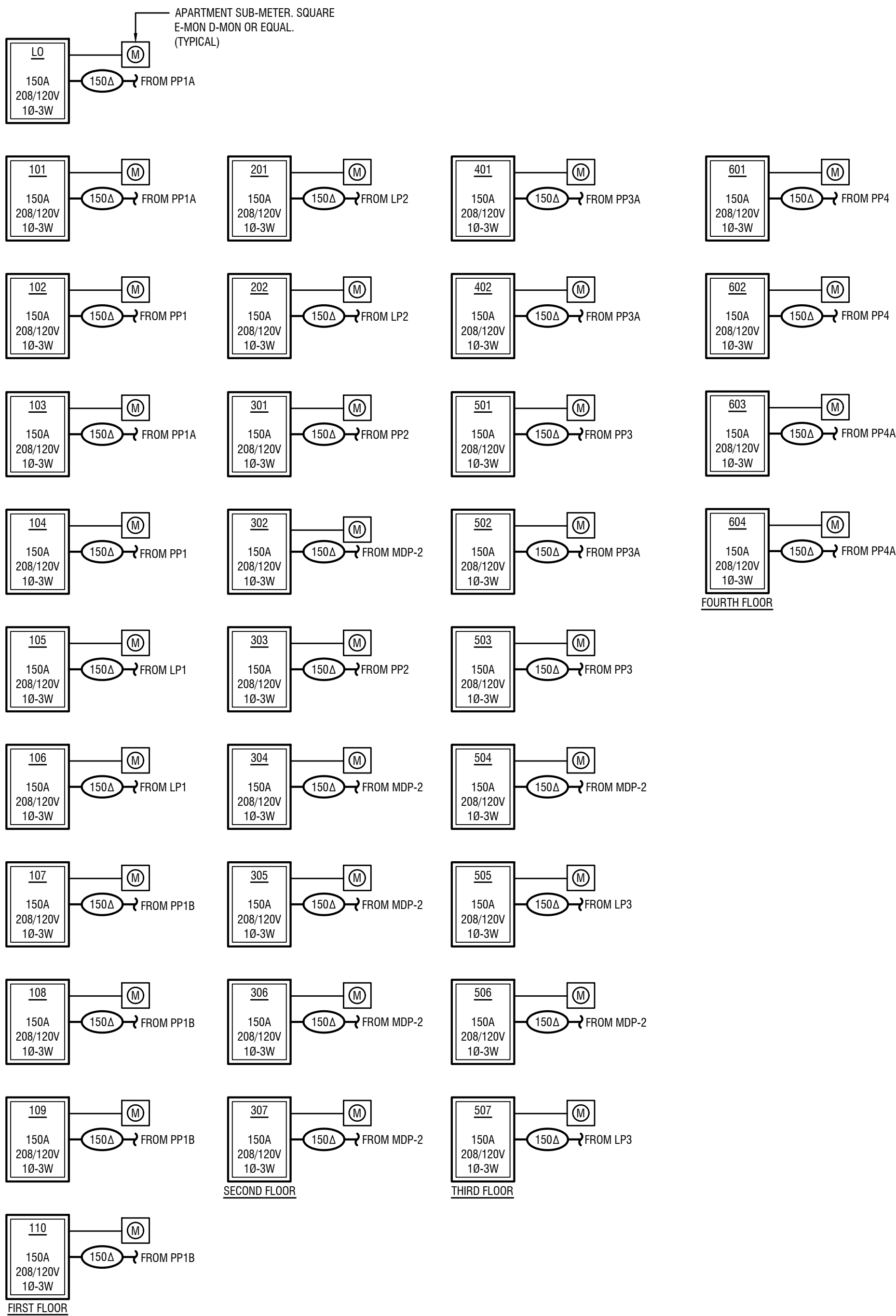
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ROOF NEW POWER PLAN
E-8



FEEDER SCHEDULE						
TAG	RUNS	CONDUCTOR	INSULATION	GROUND	CONDUIT	REMARKS
400Y	1 SET	(4) 500KCML	COPPER THHN/THWN-2	1/0 AWG	3"	
200Y	1 SET	(4) 3/0 AWG	COPPER THHN/THWN-2	#6 AWG	2"	
150A	1 SET	(3) 1/0 AWG	COPPER THHN/THWN-2	#6 AWG	2"	

1 ONE-LINE DIAGRAM
E-9 SCALE: N.T.S

Client:

16-22 Union Street -

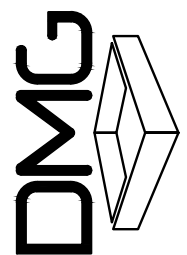
Apartment Building

Client: Empire Property Construction

16-22 Union St.

Wilkes-Barre, Pa 18701

Consultants:



design management group
consulting engineers
570 299 7520
dmgeng.com



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Seals:

Seals:

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No: Date:

Phase:

PERMIT/PRICING

Project: Apartment Building

Date: 06/15/2026

Drawn: DP Checked: KJS

Scale: AS NOTED

Sheet:

ELECTRICAL ONE-LINE DIAGRAM

E-9

EXISTING SWITCHBOARD SCHEDULE																			
DESIGNATION:				MAINS:	1,200A			VOLTAGE:	208/120V-3Ø-4W			LOCATION:	SEE FLOOR PLANS			SINGLE:	X		
				TYPE:				MIN. A/C RATING:	EXISTING			SUPPLY:	UTILITY			DOUBLE:			
				O.C. DEVICE:								MOUNTING:	SURFACE			TRIPLE:			
1	POLE	TRIP	WIRE	GND	C			LOAD	KVA Ø A	KVA Ø B	KVA Ø C	LOAD		C	GND	WIRE	TRIP	POLE	CKT
1	/																		2
3	3	80						SPARE				SPARE						60	3
5	/																	/	4
7	/																	/	8
9	3	80						SPARE				SPARE						60	3
11	/																	/	12
13	/								4.18									/	14
15	3	100	E	E	E			EXISTING PANEL LP4		3.00		SPARE						60	3
17	/								4.00		2.00							/	18
19	/																	/	20
21	3	100	E	E	E			EXISTING PANEL PP4		6.65		SPARE						100	3
23	/																	/	24
25	/								47.72									/	26
27	3	175						SPARE		30.40		NEW PANEL PP3A		*	*	*		400	3
29	/									15.92								/	30
31	/								35.79	29.86								/	32
33	3	225	E	E	E			EXISTING PANEL PP3		35.54	31.38	NEW PANEL PP4A		*	*	*		200	3
35	/										2.25	0.00						/	36
37	/								37.12			SPACE						/	38
39	3	225	E	E	E			EXISTING PANEL LP3		34.94		SPACE						50	2
41	/										2.00	SPACE						/	42
43	/								33.39			SPACE						/	44
45	3	225	E	E	E			EXISTING PANEL PP2		34.19		SPACE						/	46
47	/									0.00		SPACE						/	48
* SEE ONE-LINE DIAGRAM																			
** CONDUCTORS SHALL BE IN EMT																			
CONDUIT WHERE SUBJECT TO																			
PHYSICAL DAMAGE. METAL CLAD																			
(MC) CAN BE USED IN CONCEALED																			
PLACES AND NOT SUBJECT TO																			
PHYSICAL DAMAGE.																			
***LOCKED BREAKER																			
TOTAL/PHASE										158.67	141.91	25.64							
CONNECTED LOAD										326.22			(kVA)						
DEMAND LOAD @ 0.80										260.98			(kVA)						
DEMAND										724.40			(A)						

EXISTING PANELBOARD SCHEDULE																			
DESIGNATION:				MAINS:	225A			VOLTAGE:	208/120V-3Ø-4W			LOCATION:	SEE FLOOR PLANS			SINGLE:	X		
				TYPE:				MIN. A/C RATING:	EXISTING			SUPPLY:	MDP-1			DOUBLE:			
				O.C. DEVICE:	225A M.C.B.							MOUNTING:	SURFACE			TRIPLE:			
CKT	POLE	TRIP	WIRE	GND	C			LOAD	KVA Ø A	KVA Ø B	KVA Ø C	LOAD		C	GND	WIRE	TRIP	POLE	CKT
1	2	150	*	*	*			APARTMENT 301	17.91	15.48		APARTMENT 303		*	*	*	150	2	2
3	/									17.05	17.14							/	4
5	1	20						EXISTING				EXISTING						20	1
7	1	20						EXISTING				EXISTING						20	1
9	1	20						EXISTING				EXISTING						20	1
11	1	20						EXISTING				EXISTING						20	1
13	1	20						EXISTING				EXISTING						20	1
15	1	20						EXISTING				EXISTING						20	1
17	1	20						EXISTING				EXISTING						20	1
19	1	20						EXISTING				EXISTING						20	1
21	1	20						EXISTING				EXISTING						20	1
23	1	20						EXISTING				EXISTING						20	1
25	1	20						EXISTING				EXISTING						20	1
27	2	100						EXISTING				EXISTING						20	1
29	/							EXISTING				EXISTING						20	2
31	1	20						EXISTING				EXISTING						/	32
33	1	20						EXISTING				EXISTING						100	2
35	1	20						EXISTING				EXISTING						/	36
37	1	20						EXISTING				SPACE						50	2
39	2	100						EXISTING				EXISTING						20	1
41	/											EXISTING						20	1
* SEE ONE-LINE DIAGRAM																			
** CONDUCTORS SHALL BE IN EMT																			
CONDUIT WHERE SUBJECT TO																			
PHYSICAL DAMAGE. METAL CLAD																			
(MC) CAN BE USED IN CONCEALED																			
PLACES AND NOT SUBJECT TO																			
PHYSICAL DAMAGE.																			
***LOCKED BREAKER																			
TOTAL/PHASE										33.39	34.19	0.00							
CONNECTED LOAD										67.58			(kVA)						
DEMAND LOAD @ 0.80										54.06			(kVA)						
DEMAND										150.07			(A)						

EXISTING PANELBOARD SCHEDULE																							
DESIGNATION:				MAINS: 225A				VOLTAGE: 208/120V-3Ø-4W				LOCATION: SEE FLOOR PLANS				SINGLE: X							
LP3				TYPE:				MIN. A/C RATING:				EXISTING				SUPPLY: MDP-1				DOUBLE:			
				O.C. DEVICE: 225A M.C.B.												MOUNTING: SURFACE				TRIPLE:			
CKT	POLE	TRIP	WIRE	GND	C	LOAD			KVA Ø A	KVA Ø B	KVA Ø C	LOAD			C	GND	WIRE	TRIP	POLE	CKT			
1	2	150	*	*	*	APARTMENT 505			16.56	16.38		APARTMENT 507			*	*	*	150	2				
3	/									15.88	16.04							/	4				
5	1	20	12	12	**	MAINTENANCE AREA LIGHTING					0.50	0.50	CORRIDOR LIGHTING			**	12	12	20	1	6		
7	2	30	10	10	**	DRYER			2.50	1.00		WASHER			**	12	12	20	1	8			
9	/									2.50	0.50	LAUNDRY LIGHTING			**	12	12	20	1	10			
11	1	20	12	12	**	ELEVATOR STAIRWELL LIGHTING						NORTH STAIRWELL LIGHTING			**	12	12	20	1	12			
13	1	20	12	12	**	SOUTH STAIRWELL LIGHTING			0.50	0.18		LAUNDRY RECEP.TS			**	12	12	20	1	14			
15	1	20				EXISTING						EXISTING						20	1	16			
17	1	20				EXISTING						EXISTING						20	1	18			
19	1	20				EXISTING						EXISTING						50	2	20			
21	1	20				EXISTING						EXISTING						/		22			
23	1	20				EXISTING						EXISTING						20	1	24			
25	2	50				EXISTING						EXISTING						20	1	26			
27	/											EXISTING						20	1	28			
29	1	20				EXISTING						EXISTING						20	1	30			
31	1	20				EXISTING						SPACE								32			
33	1	20				EXISTING						EXISTING						50	2	34			
35	2	30				EXISTING						EXISTING						/		36			
37	/											EXISTING						50	1	38			
39						SPACE						SPACE								40			
41						SPACE						SPACE								42			
TOTAL/PHASE									37.12	34.94	2.00												
*SEE ONE-LINE DIAGRAM																							
**CONDUCTORS SHALL BE IN EMT																							
CONDUIT WHERE SUBJECT TO																							
PHYSICAL DAMAGE. METAL CLAD																							
(MC) CAN BE USED IN CONCEALED																							
PLACES AND NOT SUBJECT TO																							
PHYSICAL DAMAGE.																							
***LOCKED BREAKER																							
CONNECTED LOAD										74.06		(kVA)											
DEMAND LOAD @ 0.80										59.25		(kVA)											
DEMAND										164.46		(A)											

EXISTING SWITCHBOARD SCHEDULE

DESIGNATION: MDP-2							MAINS: 1,200A		VOLTAGE: 208/120V-3Ø-4W			LOCATION: SEE FLOOR PLANS		SINGLE: X		
O.C. DEVICE: 1,200 M.C.B.							MIN. AIC: 100,000			SUPPLY: UTILITY VIA DISC.		DOUBLE: TRIPLE:				
CKT	POLE	TRIP	WIRE	GND	C	LOAD	KVA Ø A	KVA Ø B	KVA Ø C	LOAD	C	GND	WIRE	TRIP	POLE	CKT
1	3	60				SPARE				SPARE				50	3	
/	/	/												/	/	
3	3	125				SPARE				SPARE				80	3	4
/	/	/												/	/	
5	3	125				SPARE				SPARE				100	3	6
/	/	/												/	/	
7	3	175				SPARE				SPARE				100	3	8
/	/	/					17.82			APARTMENT 302	*	*	*	150	2	10
9	3	175				SPARE		16.24						/	/	
/	/	/							17.82	APARTMENT 304	*	*	*	150	2	10
11	3	225	E	E	E	PANEL LP2	35.04	15.42						/	/	
/	/	/					35.02	15.02		APARTMENT 305	*	*	*	150	2	10
/	/	/						2.00	15.60					/	/	
13	3	225	E	E	E	PANEL PP1	33.14	18.00						150	2	10
/	/	/					37.45	17.14		APARTMENT 306	*	*	*	150	2	10
/	/	/							5.25	17.41				/	/	
15	3	225	E	E	E	PANEL LP1	36.76	17.27						150	2	10
/	/	/					38.34	16.87		APARTMENT 506	*	*	*	150	2	10
/	/	/							4.50	16.91				/	/	
TOTAL/PHASE							119.42	120.87	58.08							

* SEE ONE-LINE DIAGRAM

** CONDUCTORS SHALL BE IN EMT

CONDUIT WHERE SUBJECT TO PHYSICAL DAMAGE. METAL CLAD (MC) CAN BE USED IN CONCEALED PLACES AND NOT SUBJECT TO PHYSICAL DAMAGE.

***LOCKED BREAKER

CONNECTED LOAD298.37(kVA)

DEMAND LOAD @ 0.80238.70(kVA)

DEMAND662.55(A)

[illegible]

EXISTING PANELBOARD SCHEDULE																	
DESIGNATION:		MAINS: 225A					VOLTAGE: 208/120V-3Ø-4W			LOCATION: SEE FLOOR PLANS				SINGLE: X			
PP1		TYPE: Q.C. DEVICE: 225A M.C.B.					MIN. AC RATING: EXISTING			SUPPLY: MDP 2 MOUNTING: SURFACE				DOUBLE: TRIPLE:			
CKT	POLE	TRIP	WIRE	GND	C	LOAD	KVA Ø A	KVA Ø B	KVA Ø C	LOAD	C	GND	WIRE	TRIP	POLE	CKT	
1	2	150	*	*	*	APARTMENT 102	15.84	14.30						2	2	2	
3	/							16.78	15.42						/	4	
5	1	20				EXISTING								20	1	6	
7	1	20				EXISTING								20	1	8	
9	1	20				EXISTING								20	1	10	
11	1	20				EXISTING								20	1	12	
13	1	20				EXISTING								20	1	14	
15	1	20				EXISTING								20	1	16	
17	1	20				EXISTING								20	1	18	
19	1	20				EXISTING								20	1	20	
21	1	20				EXISTING								20	1	22	
23	1	20				EXISTING								20	1	24	
25	1	20				EXISTING								20	1	26	
27	1	20				EXISTING								20	1	28	
29	1	20				EXISTING			0.50							30	
31	1	20				EXISTING										32	
33						SPACE		2.25								34	
35						SPACE			2.25							36	
37	1	20	12	12	**	ECH-1	1.50	1.50						**	12	10	
39	1	20	12	12	**	ECH-1		1.50	1.50					**	12	12	
41	1	20	12	12	**	ECH-1			1.50	1.50				**	12	20	
TOTAL/PHASE							33.14	37.45	5.75								
CONNECTED LOAD							76.34		(kVA)								
DEMAND LOAD @ 0.80							61.07		(kVA)								
DEMAND							169.52		(A)								
* SEE ONE-LINE DIAGRAM																	
** CONDUCTORS SHALL BE IN EMT																	
CONDUIT WHERE SUBJECT TO PHYSICAL DAMAGE. METAL CLAD (MC) CAN BE USED IN CONCEALED PLACES AND NOT SUBJECT TO PHYSICAL DAMAGE																	
***LOCKED BREAKER																	

NEW PANELBOARD SCHEDULE																	
DESIGNATION:		MINIS: 400A				VOLTAGE: 208/120V/3Ø-4W				LOCATION: SEE FLOOR PLANS				SINGLE: X			
PP1A		TYPE:				MIN. A/C RATING: 10,000				SUPPLY: MOP-2 SURFACE				DOUBLE:			
		O.C. DEVICE: M.L.O.												TRIPLE:			
CKT	P	POLE	TRIP	WIRE	C	C	LOAD	KVA Ø A	KVA Ø B	KVA Ø C	LOAD	C	GND	WIRE	TRIP	POLE	CKT
1	2	150	*	*	*	*	APARTMENT 101	16.92	16.74		APARTMENT 103	*	*	*	150	2	2
3	/								16.42	16.42						/	4
5	2	150	*	*	*	*	LEASING OFFICE (APT)										6
7	/							17.59		18.27							8
9							SPACE										10
11							SPACE										12
13							SPACE										14
15							SPACE										16
17							SPACE										18
19							SPACE										20
21							SPACE										22
23							SPACE										24
25							SPACE										26
27							SPACE										28
29							SPACE										30
TOTAL/PHASE								51.25	32.84	18.27							
** SEE ONE-LINE DIAGRAM																	
*** CONDUCTORS SHALL BE IN EMT																	
CONDUIT WHERE SUBJECT TO PHYSICAL DAMAGE, METAL CLAD (MC) CAN BE USED IN CONCEALED PLACES AND NOT SUBJECT TO PHYSICAL DAMAGE																	
****LOCKED BREAKER																	
CONNECTED LOAD								102.38 (kVA)									
DEMAND LOAD @ 0.80								81.89 (kVA)									
DEMAND								227.30 (A)									

NEW PANELBOARD SCHEDULE																
DESIGNATION:		PP1B		MINS: 400A		VOLTAGE: 208/120V/3Ø-4W		LOCATION: SEE FLOOR PLANS		SINGLE: X						
				TYPE: O.C. DEVICE: M.L.O.		MIN. A/C RATING: 10,000		SUPPLY: MDP-2 SURFACE		DOUBLE: TRIPLE:						
CKT	POLE	TRIP	WIRE	GND	C	LOAD	KVA Ø A	KVA Ø B	KVA Ø C	LOAD	C	GND	WIRE	TRIP	POLE	CKT
1	2	150	*	*	*	APARTMENT 107	15.66	15.84		APARTMENT 108	*	*	*	150	2	2
3	/							15.70	14.98						/	4
5	2	150	*	*	*	APARTMENT 109				APARTMENT 110	*	*	*	150	2	6
7	/						15.70	15.70							/	8
9						SPACE				SPACE						10
11						SPACE				SPACE						12
13						SPACE				SPACE						14
15						SPACE				SPACE						16
17						SPACE				SPACE						18
19						SPACE				SPACE						20
21						SPACE				SPACE						22
23						SPACE				SPACE						24
25						SPACE				SPACE						26
27						SPACE				SPACE						28
29						SPACE				SPACE						30
TOTAL/PHASE							62.90	30.68	30.96							
* SEE ONE-LINE DIAGRAM																
** CONDUCTORS SHALL BE IN EMT																
CONDUIT WHERE SUBJECT TO PHYSICAL DAMAGE. METAL CLAD (MC) CAN BE USED IN CONCEALED PLACES AND NOT SUBJECT TO PHYSICAL DAMAGE																
****LOCKED BREAKER																
CONNECTED LOAD							124.54		(kVA)							
DEMAND LOAD @ 0.80							99.63		(kVA)							
DEMAND							276.55		(A)							

EXISTING PANELBOARD SCHEDULE																
DESIGNATION:		MAINS: 225A					VOLTAGE: 208/120V-3Ø-W			LOCATION: SEE FLOOR PLANS			SINGLE: X			
LP2		TYPE:					MIN. A/C RATING: EXISTING			SUPPLY: MDP-2			DOUBLE:			
		O.C. DEVICE: 225A M.C.B.								MOUNTING: SURFACE			TRIPLE:			
CKT	POLE	TRIP	WIRE	GND	C	LOAD	KVA Ø A	KVA Ø B	KVA Ø C	LOAD	C	GND	WIRE	TRIP	POLE	CKT
2	1	150	*	*	*	APARTMENT 201	15.84	15.02		APARTMENT 202	*	*	*	150	2	2
3	/							16.42	15.60						/	4
5	1	20	12	12	**	MAINTENANCE AREA LIGHTING			0.50	0.50			**	12	12	1
7	2	30	10	10	**	DRYER	2.50	1.00					**	12	12	2
9	/							2.50	0.50				**	12	12	10
11	1	20	12	12	**	ELEVATOR STAIRWELL LIGHTING			0.50	0.50			**	12	12	20
13	1	20	12	12	**	SOUTH STAIRWELL LIGHTING	0.50	0.18					**	12	12	20
15	/					EXISTING										14
17	2	30				EXISTING										16
19	/					EXISTING										18
21	1	20				EXISTING										1
23	2					EXISTING										22
25	/					EXISTING										24
27	2	50				EXISTING										26
29	/					EXISTING										28
31	1	20				EXISTING										30
33	2	30				EXISTING										32
35	/					EXISTING										34
37	1	20				EXISTING										36
39	1	20				EXISTING										38
41	1	20				EXISTING										40
							TOTAL/PHASE		35.04	35.02	2.00					
* SEE ONE-LINE DIAGRAM							CONNECTED LOAD		72.06		(kVA)					
** CONDUCTORS SHALL BE IN EMT							DEMAND LOAD @ 0.80		57.65		(kVA)					
CONDUIT WHERE SUBJECT TO PHYSICAL DAMAGE, METAL CLAD (MC) CAN BE USED IN CONCEALED PLACES AND NOT SUBJECT TO PHYSICAL DAMAGE							DEMAND		160.01		(A)					
*** LOCKED BREAKER																

PHASE BALANCE NOTE:
COORDINATE NEW BREAKER LOCATIONS TO BALANCE
LOAD OVER EACH PHASE.

Client:

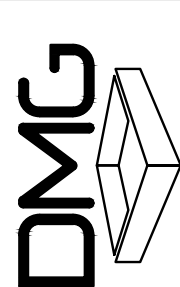
16-22 Union Street -

Apartment Building

Client: Empire Property Construction
16-22 Union St.

Wilkes-Barre, Pa 18701

Consultants:



design management group
consulting engineers
570 299 7520
dmgeng.com



architect

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No: Date:

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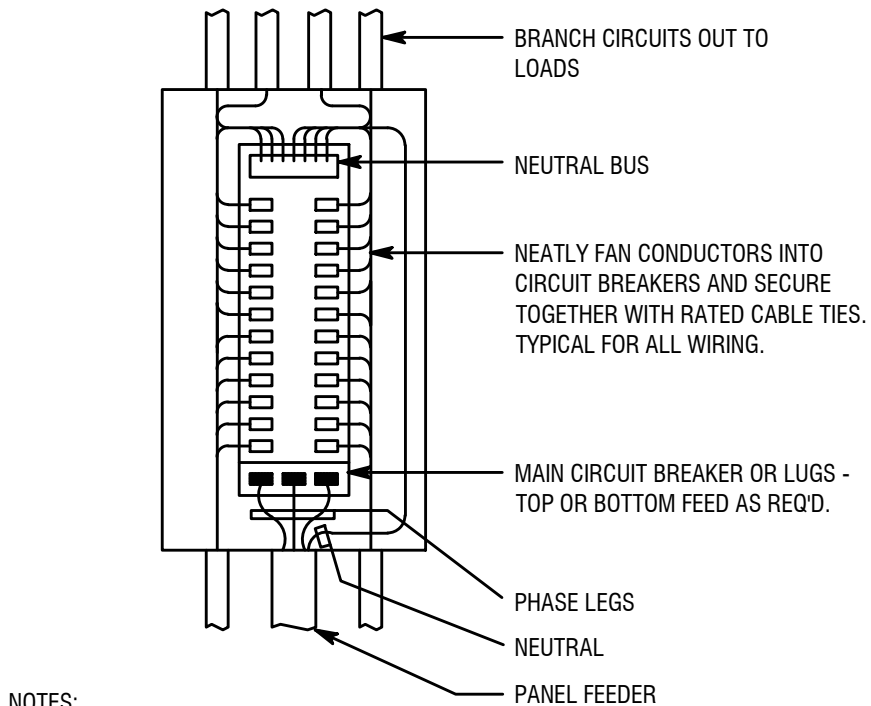
PANELBOARD SCHEDULES

E-11

TYPICAL LOAD CENTER SCHEDULE																			
Designation:		MAINS: 150A				VOLTAGE: 120/208-1Ø-3W				LOCATION: SEE PLANS				Single: X					
		TYPE: 1				MIN. AIC RATING: 10,000				SUPPLY: SEE ONE-LINE				Double:					
		O.C. DEVICE: M.L.O.				MOUNTING: RECESSED													
501																			
CKT	POLE	TRIP	WIRE	GND	C	LOAD	KVA Ø A	KVA Ø B	LOAD	C	GND	WIRE	TRIP	POLE	CKT				
1	1	20	12	12	**	REFRIGERATOR	1.00	0.18	COUNTERTOP RECEPTACLES	**	12	12	20	1	2				
3	1	20	12	12	**	COUNTERTOP RECEPTACLES		0.18	4.00	RANGE	**	10	8	50	2	4			
5	1	20	12	12	**	BATHROOM GFI	0.18	4.00							/	6			
7	1	20	12	12	**	MICROWAVE		1.00	0.90	BEDROOM RECEPTACLES	**	12	12	20	1	8			
9	1	20	12	12	**	BEDROOM RECEPTACLES	0.90	1.20	DISHWASHER	**	12	12	20	1	10				
11	1	20	12	12	**	RECEPTACLES		1.80	1.20						20	1	12		
13	1	20	12	12	**	RECEPTACLES	1.44	1.08	BEDROOM RECEPTACLES	**	12	12	20	1	14				
15						SPACE			SPACE						16				
17						SPACE			SPACE						18				
19	2	40	8	10	**	AH-D HEAT		2.88	SPACE						20				
21	/						2.88		SPACE						22				
23	2	15	14	14	**	AH-D		0.50	SPACE						24				
25	/						0.50	2.25	WH-I	**	10	10	30	2	26				
27	2	30	10	10	**	HP-D		1.98	2.25						/	28			
							1.98	0.50			LIGHTING		**	14	14	15	1	30	
* PROVIDE LOCKED BREAKER							TOTAL/PHASE		18.09		16.69								
** METAL CLAD (MC) OR CONDUCTORS IN CONDUIT SHALL BE USED WHERE SUBJECT TO PHYSICAL DAMAGE. NON-METALLIC (NM) CAN BE USED IN CONCEALED PLACES AND NOT SUBJECT TO PHYSICAL DAMAGE.							CONNECTED LOAD		34.78		(kVA)		ALL 120V-1Ø CIRCUITS SHALL BE AFCI-PROTECTED PER NEC ARTICLE 210.12. PROVIDE AFCI PROTECTION AT THE CIRCUIT BREAKER LEVEL. ALL 120V-1Ø, 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED COMBINATION AFCI BREAKER.						
							DEMAND LOAD @ 0.80		27.82		(kVA)								
							DEMAND		133.77		(A)								

TYPICAL LOAD CENTER SCHEDULE																	
Designation:		MAINS:		150A		VOLTAGE: 120/208-1Ø-3W		LOCATION:		SEE PLANS		Single:		X			
502		TYPE:		1		MIN. AIC RATING:		10,000		SUPPLY:		SEE ONE-LINE		Double:			
		O.C. DEVICE:		M.L.O.		MOUNTING:		RECESSED									
CKT	POLE	TRIP	WIRE	GND	C	LOAD	KVA Ø A	KVA Ø B	LOAD	C	GND	WIRE	TRIP	POLE	CKT		
1	1	20	12	12	**	REFRIGERATOR	1.00	0.18	COUNTERTOP RECEPTACLES	**	12	12	20	1	2		
3	1	20	12	12	**	COUNTERTOP RECEPTACLES		0.18	4.00	RANGE	**	10	8	50	2	4	
5	1	20	12	12	**	BATHROOM GFI	0.18	4.00							/	6	
7	1	20	12	12	**	MICROWAVE		1.00	0.90	BEDROOM RECEPTACLES	**	12	12	20	1	8	
9	1	20	12	12	**	BEDROOM RECEPTACLES	0.90	1.20	DISHWASHER	**	12	12	20	1	10		
11	1	20	12	12	**	RECEPTACLES		1.44	1.20						20	1	12
13	1	20	12	12	**	RECEPTACLES	1.08										14
15						SPACE											16
17						SPACE											18
19	2	40	8	10	**	AH-A HEAT		2.88									20
21	/						2.88										22
23	2	15	14	14	**	AH-A		0.50									24
25	/						0.50	2.25	WH-I	**	10	10	30	2	26		
27	2	20	12	12	**	HP-A		1.25	2.25						/	28	
29	/						1.25	0.50	LIGHTING	**	14	14	15	1	30		
* PROVIDE LOCKED BREAKER							TOTAL/PHASE		15.92		15.60		ALL 120V-1Ø CIRCUITS SHALL BE AFCI-PROTECTED PER NEC ARTICLE 210.12. PROVIDE AFCI PROTECTION AT THE CIRCUIT BREAKER LEVEL. ALL 120V-1Ø, 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED COMBINATION AFCI BREAKER.				
** METAL CLAD (MC) OR CONDUCTORS IN CONDUIT SHALL BE USED WHERE SUBJECT TO PHYSICAL DAMAGE. NON-METALLIC (NM) CAN BE USED IN CONCEALED PLACES AND NOT SUBJECT TO PHYSICAL DAMAGE.							CONNECTED LOAD		31.52		(kVA)						
							DEMAND LOAD @ 0.80		25.22		(kVA)						
							DEMAND		121.23		(A)						

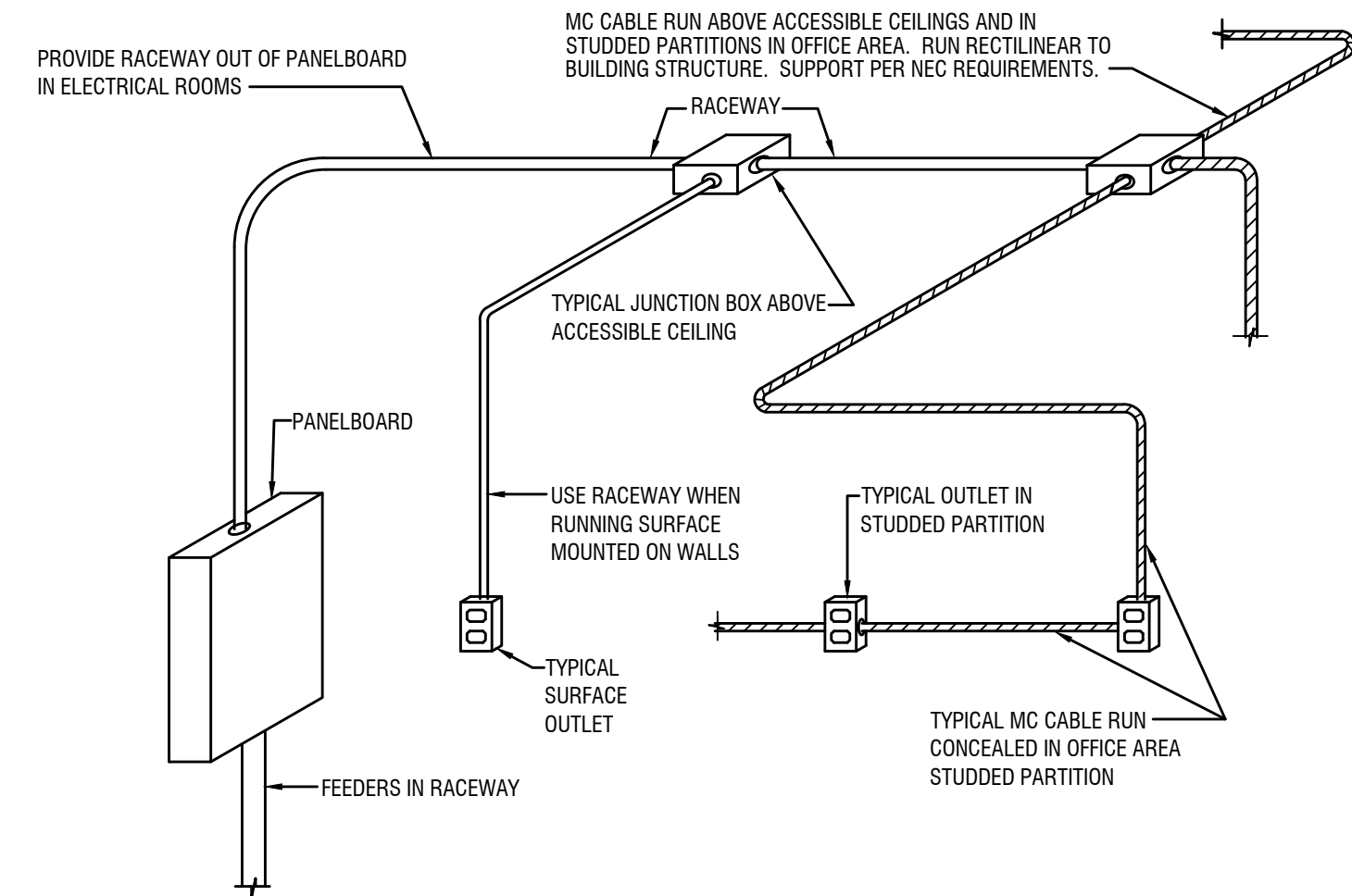
TYPICAL LOAD CENTER SCHEDULE																	
Designation:		MAINS:		150A		VOLTAGE: 120/208-1Ø-3W		LOCATION:		SEE PLANS		Single:		X			
503		TYPE:		1		MIN. AIC RATING:		10,000		SUPPLY:		SEE ONE-LINE		Double:			
		O.C. DEVICE:		M.L.O.		MOUNTING:		RECESSED									
CKT	POLE	TRIP	WIRE	GND	C	LOAD	KVA Ø A	KVA Ø B	LOAD	C	GND	WIRE	TRIP	POLE	CKT		
1	1	20	12	12	**	REFRIGERATOR	1.00	0.18	COUNTERTOP RECEPTACLES	**	12	12	20	1	2		
3	1	20	12	12	**	COUNTERTOP RECEPTACLES		0.18	4.00	RANGE	**	10	8	50	2	4	
5	1	20	12	12	**	BATHROOM GFI	0.18	4.00							/	6	
7	1	20	12	12	**	MICROWAVE		1.00	1.08	BEDROOM RECEPTACLES	**	12	12	20	1	8	
9	1	20	12	12	**	BEDROOM RECEPTACLES	1.08	1.20	DISHWASHER	**	12	12	20	1	10		
11	1	20	12	12	**	RECEPTACLES		1.44	1.20						20	1	12
13	1	20	12	12	**	SPACE											14
15						SPACE											16
17						SPACE											18
19	2	45	8	10	**	AH-B HEAT		3.60									20
21	/						3.60										22
23	2	15	14	14	**	AH-B		0.50									24
25	/						0.50	2.25	WH-1	**	10	10	30	2	26		
27	2	20	12	12	**	HP-B		1.35	2.25						/	28	
29	/						1.35	0.50	LIGHTING	**	14	14	15	1	30		
* PROVIDE LOCKED BREAKER							TOTAL/PHASE		15.84		16.60		ALL 120V-1Ø CIRCUITS SHALL BE AFCI-PROTECTED PER NEC ARTICLE 210.12. PROVIDE AFCI PROTECTION AT THE CIRCUIT BREAKER LEVEL. ALL 120V-1Ø, 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED COMBINATION AFCI BREAKER.				
** METAL CLAD (MC) OR CONDUCTORS IN CONDUIT SHALL BE USED WHEN SUBJECT TO PHYSICAL DAMAGE, NON-METALLIC (NM) CAN BE USED IN CONCEALED PLACES AND NOT SUBJECT TO PHYSICAL DAMAGE.									CONNECTED LOAD		32.44		(kVA)				
							DEMAND LOAD @ 0.80		25.95		(kVA)						
							DEMAND		124.77		(A)						



- NOTES:
1. ALL WIRE AND CONDUIT SHALL BE CONCEALED IN WALLS, CEILING PLENUMS, BULKHEADS AND IN ROOF STRUCTURAL AREAS. U.O.N. THE E.C. SHALL COORDINATE FULLY WITH ALL OTHER TRADES TO INSTALL ALL CONDUIT AND WIRING IN THESE ASSOCIATED STRUCTURES. ANY OTHER MEANS OF PATHWAY SUGGESTED MUST FIRST BE APPROVED FROM THE ELECTRICAL ENGINEER BEFORE INSTALLATION CAN PROCEED.
 2. ALL RACEWAYS AND MC CABLE SHALL BE RECTILINEAR TO BUILDING STRUCTURE AND SUPPORTED PER SPECIFICATIONS.
 3. ALL CONDUCTORS SHALL BE COPPER.

1 PANELBOARD INSTALLATION DETAIL

E-15 SCALE: NONE



- NOTES:
1. THIS DETAIL IS TYPICAL AND MEANT AS A BRIEF SUMMARY OF WIRING METHODS. COMPLY WITH ALL ADOPTED CODE REQUIREMENTS.
 2. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS AND FLOORS. U.O.N.
 3. BRANCH CIRCUITS SERVING UNFINISHED AREAS SHALL BE ALLOWED TO BE SURFACE-MOUNTED IN RACEWAY.

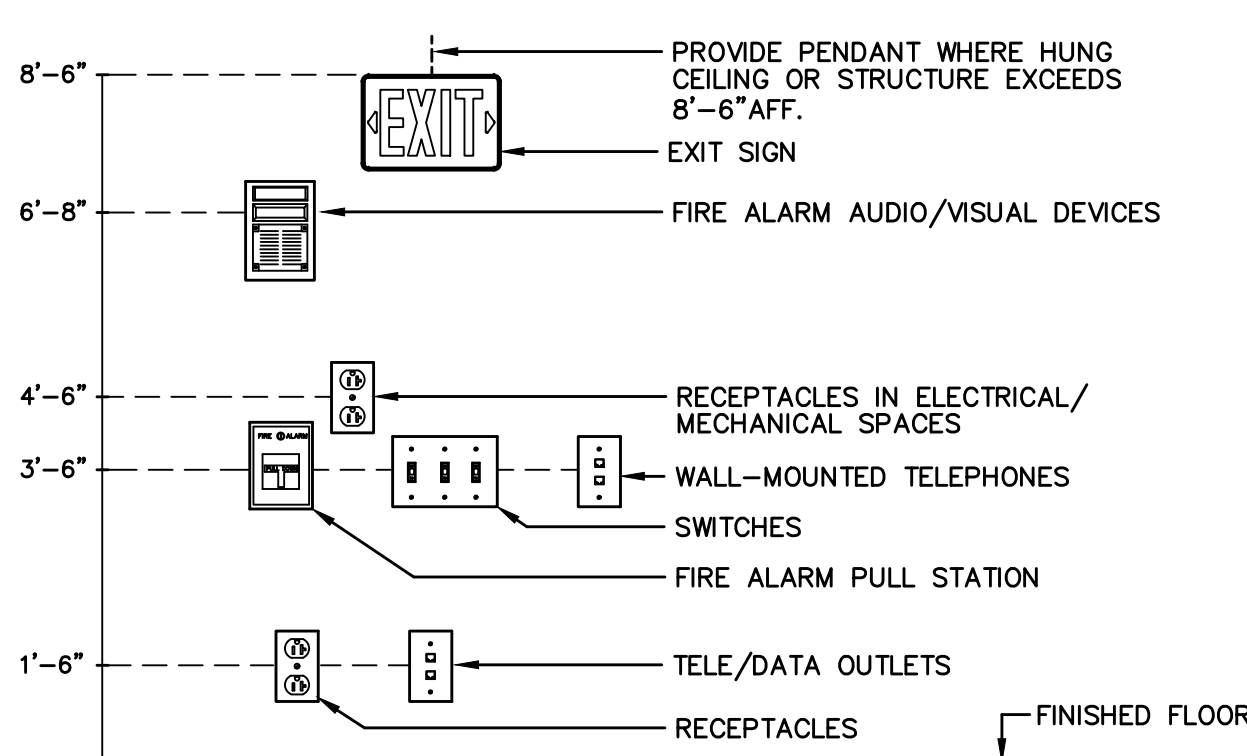
LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (600V AND LESS)

- A. CONDUCTORS: COPPER, SINGLE ANNEALED STRANDED CONDUCTORS WITH AMPACITY OF NOT LESS THAN 98 PERCENT AT 20 DEGREES C COMPLYING WITH ASTM B 3 FOR BARE ANNEALED COPPER AND WITH ASTM B 8 FOR STRANDED CONDUCTORS.
- B. CONDUCTOR INSULATION:
1. TYPE THHN AND TYPE THWN-2: COMPLY WITH UL 83.
 2. TYPE XHHW-2: COMPLY WITH UL 44.
 3. TYPE MC: COMPLY WITH UL 1569, INCLUDE INSULATED GROUND.
- C. CONNECTORS AND SPLICES MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: HUBBELL, QZ-GENDRY, 3M, OR APPROVED EQUAL.

1. DESCRIPTION: FACTORY-FABRICATED CONNECTORS AND SPLICES OF SIZE, AMPACITY RATING, MATERIAL, TYPE, AND CLASS FOR APPLICATION AND SERVICE INDICATED.
2. ALL SPLICES SHALL BE COMPATIBLE WITH CONDUCTOR MATERIAL AND POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS

3 CONDUCTOR DESIGN INTENT

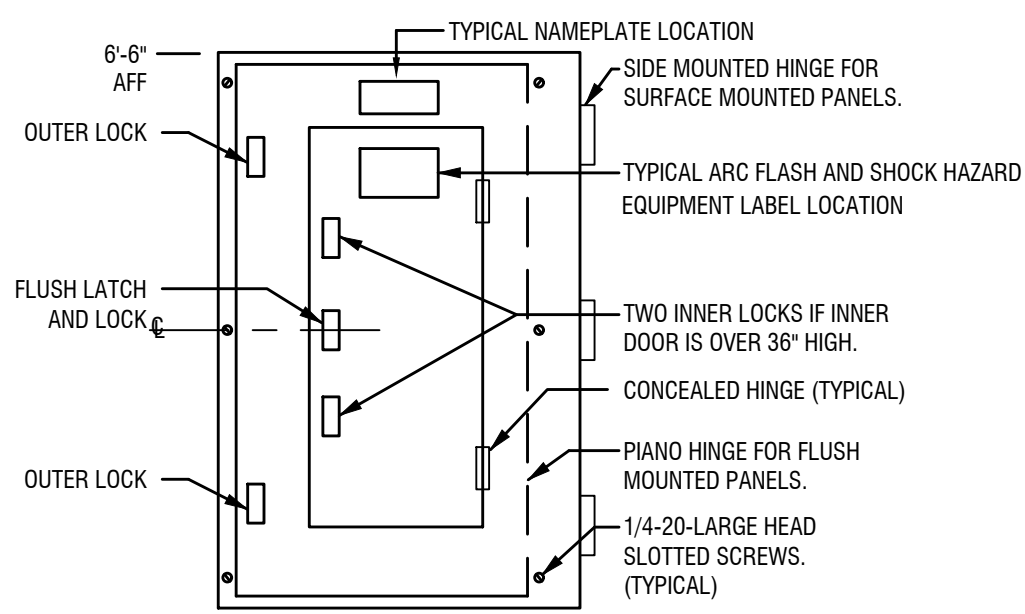
E-15 SCALE: NONE



- NOTES:
1. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
 2. ELECTRICAL RECEPTACLES SHALL BE MOUNTED A MINIMUM OF 15 INCHES TO THE BOTTOM OF THE RECEPTACLE.
 3. ELECTRICAL SWITCHES SHALL BE MOUNTED A MAXIMUM OF 48 INCHES TO THE TOP OF THE SWITCH.
 4. COUNTERTOP ELECTRICAL RECEPTACLES SHALL BE MOUNTED A MAXIMUM OF 44 INCHES TO THE TOP OF THE RECEPTACLE.
 5. CIRCUIT BREAKERS, DISCONNECT SWITCHES, ETC. SHALL BE INSTALLED SO THAT THE CENTER OF THE GRIP OF THE OPERATING HANDLE IN ITS HIGHEST POSITION IS NOT MORE THAN 6'-7" A.F.F.
 6. MOUNT VISIBLE FIRE ALARM DEVICES WITH THE LENS OF THE STROBE NOT LESS THAN 80 IN AND NOT GREATER THAN 96 IN A.F.F. WALL-MOUNTED VISIBLE FIRE ALARM DEVICES SHALL NOT BE WITHIN 6 IN OF THE CEILING.
 7. MOUNT EXIT SIGNS ABOVE DOORS WITH 2" BETWEEN BOTTOM OF EXIT SIGN AND TOP OF DOOR.
 8. THE MOUNTING HEIGHTS SHOWN ARE GENERALLY DIMENSIONED TO THE MID-LINE OF A GIVEN DEVICE. EXACT DEVICE MOUNTING HEIGHTS SHALL BE WITHIN THE SPECIFIC REACH LIMITS SPECIFIED IN THE LATEST REVISION OF THE ADA GUIDELINES AND THE LATEST REVISION OF IBC/ANSI A217.1, SPECIFICALLY FIRE ALARM DEVICES, CONTROLS, OPERATING MECHANISMS AND HARDWARE, INCLUDING RECEPTACLES AND SWITCHES THAT CONTROL LIGHTING, VENTILATION, ETC.
 9. THIS DETAIL IS MEANT AS A GENERAL GUIDE. ALL FINAL MOUNTING HEIGHTS SHALL BE INSTALLED PER ARCHITECTURAL DRAWINGS AND ADOPTED CODES.

6 TYPICAL DEVICE MOUNTING HEIGHTS

E-15 SCALE: NONE

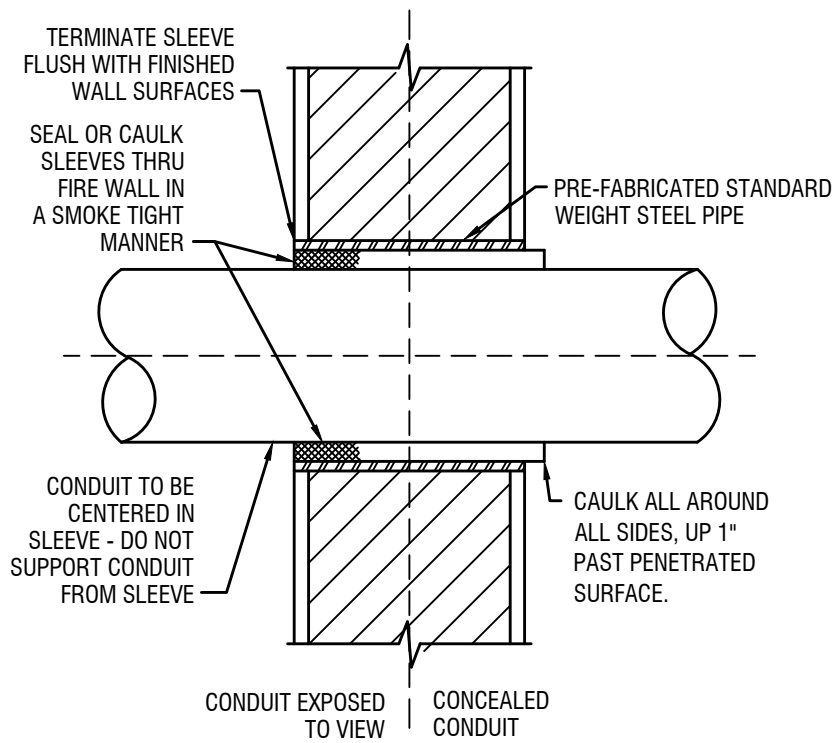


- NOTES:
1. ALL BOLTS SHALL HAVE LARGE (3/8") ROUND HEAD. NO WASHERS ALLOWED.
 2. PROVIDE UNISTRUT MOUNTING ARRANGEMENT DICTATED BY FIELD CONDITIONS. SECURELY FASTEN ALL SUPPORT POINTS INTO THE SLAB, WALL OR BEAM.
 3. PROVIDE ARC FLASH AND SHOCK HAZARD EQUIPMENT LABELS PER THE LATEST REVISION OF NFPA 70E.

TYPICAL PANELBOARD ELEVATION

2 TYPICAL PANELBOARD ELEVATION AND LABELING DETAIL

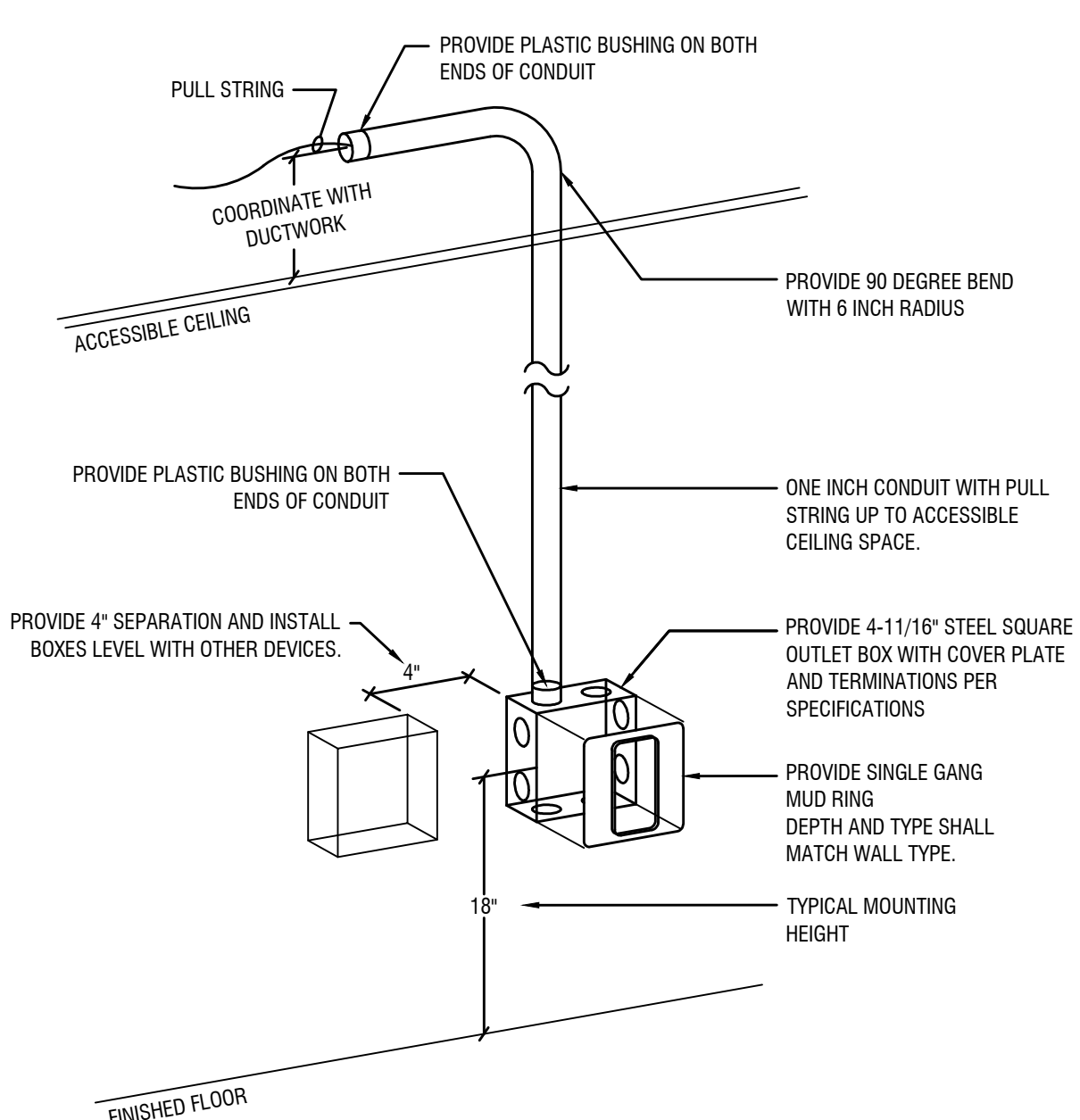
E-15 SCALE: NONE



- NOTES:
1. PROVIDE FIRESTOPPING AT ALL PENETRATIONS THROUGH RATED ASSEMBLIES IN A SMOKE-TIGHT MANNER AND TO MAINTAIN A UL 319 CLOSURE. FIRE RETARDING MATERIAL TO MAINTAIN RATING TO THAT OF SURFACE BEING PENETRATED.
 2. PROVIDE PRE-FABRICATED, STANDARD WEIGHT, STEEL PIPE SLEEVES. CONDUIT TO BE CENTERED IN SLEEVE. DO NOT SUPPORT CONDUIT FROM SLEEVE.
 3. IN UNFINISHED AREAS, CAULK ALL AROUND ALL SIDES, UP 1" PAST PENETRATED SURFACE.
 4. IN FINISHED AREAS, TERMINATE SLEEVE AND SEALANT FLUSH WITH WALL SURFACE.

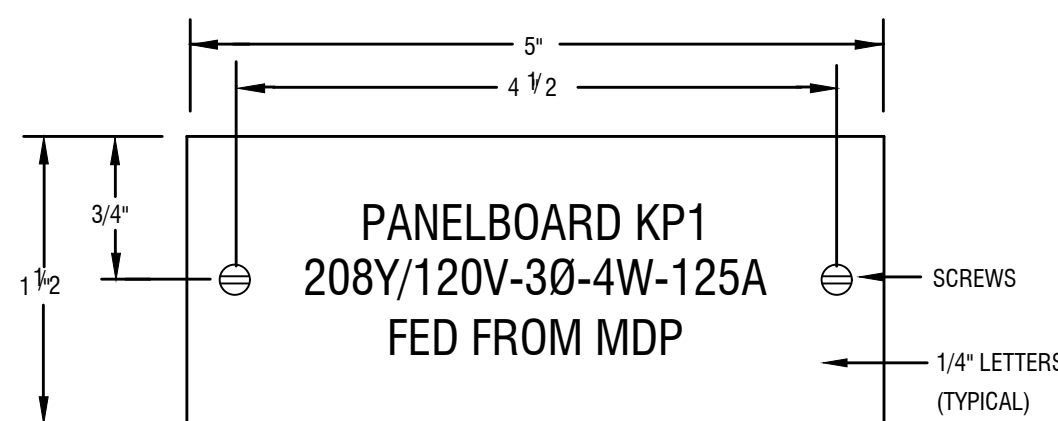
4 RATED PENETRATION DETAIL

E-15 SCALE: NONE



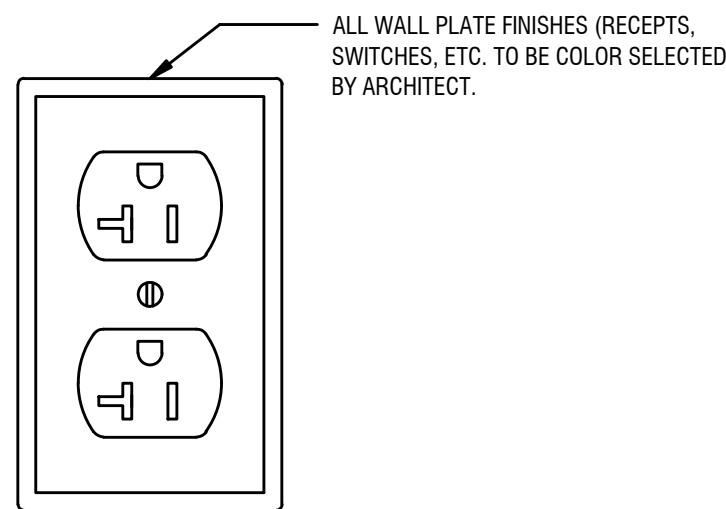
7 TYPICAL TELE/DATA BOX INSTALLATION DETAIL

E-15 SCALE: N.T.S.



TYPICAL NAMEPLATE

- NOTES:
1. LABEL ALL PANELBOARDS, TRANSFER SWITCHES, TRANSFORMERS, CONTROL PANELS, DISCONNECTS, ETC. GREATER THAN 60A, AND MINI SUBSTATIONS.
 2. REFER TO SPECIFICATIONS FOR ADDITIONAL LABELING REQUIREMENTS.
 3. NAMEPLATE TO BE 1/16" THICK BLACK BAKELITE PLASTIC WITH WHITE RECESSED ENGRAVED LETTERS.
 4. SECURE NAMEPLATE TO SURFACES WITH (2) FLAT HEAD BRASS SCREWS. ADHESIVE CEMENT SHALL NOT BE ALLOWED.
 5. NAMEPLATE INFORMATION SHALL INCLUDE NAME, VOLTAGE, AMPERAGE AND EQUIPMENT FED FROM.



- GENERAL NOTES:
1. ALL RECEPTACLES IN CUSTOMER FACING AREAS TO BE TAMPER RESISTANT.
 2. ALL RECEPTACLES IN KITCHEN AREAS AND AS REQUIRED BY N.E.C. TO INCLUDE GFCI PROTECTION.
 3. PROVIDE WIRING DEVICES, COMPONENTS, AND ACCESSORIES, LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
 4. DUPLEX CONVENIENCE RECEPTACLES: 125 V, 20 A; COMPLY WITH NEMA WD 1, NEMA WD 6 CONFIGURATION 5-20R, UL 498, UL 943, AND FS W-C-596.
 5. COMPLY WITH NECA 1, INCLUDING MOUNTING HEIGHTS LISTED IN THAT STANDARD, UNLESS OTHERWISE INDICATED.
 6. FULLY COORDINATE INSTALLATION WITH OWNER AND ALL OTHER TRADES.

5 TYPICAL WIRING DEVICE INSTALLATION DETAIL

E-15 SCALE: NONE

Client:

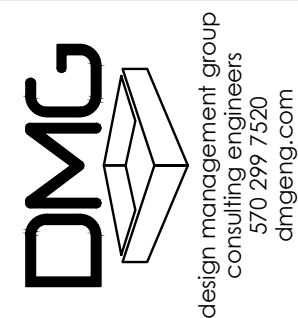
16-22 Union Street -
Apartment Building

Client: Empire Property Construction

16-22 Union St.

Wilkes-Barre, Pa 18701

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Drawn: DP Checked: KJS
Scale: AS NOTED
Sheet:

ELECTRICAL
DETAILS

E-15

PLUMBING ABBREVIATIONS

ABV	ABOVE
ABV CLG	ABOVE CEILING
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
AV	ACID VENT
AW	ACID WASTE
BLW	BELOW
BF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BFP	BACKFLOW PREVENTER
BOJ	BOTTOM OF JOIST
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BTUB	BATHTUB
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACKWATER VALVE
CB	CATCH BASIN
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CIP	CAST IRON PIPE
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
CONN	CONNECT
CONT	CONTINUATION
CS	COUNTERTOP SINK
CW	DOMESTIC COLD WATER
C	CENTER LINE
DEPT	DEPARTMENT
DIP	DUCTILE IRON PIPE
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DN	DOWN
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION

EW	ELECTRICAL WATER COOLER
EX	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATIONS
FHC	FIRE HOSE CABINET
FL	FLOOR
GC	GENERAL CONTRACTOR
GH	GROUND HYDRANT
GI	GREASE INTERCEPTOR LINE
GPM	GALLON PER MINUTE
GW	GRAYWATER
GW-IR	GRAYWATER-IRRIGATION
H	HANDICAPPED
HB	HOSE BIBB
HE	HOSE END
HC	HEATING CONTRACTOR
HP	HORSEPOWER
HW	DOMESTIC HOT WATER
HWH	HOT WATER HEATER
HWR	DOMESTIC HOT WATER RETURN
ID	INSIDE DIAMETER
INV	INVERT
IW	INDIRECT WASTE
KW	KILOWATT
LAV	LAVATORY
LM	LAUNDRY MACHINE
MAX	MAXIMUM
MB	MOP BASIN
MBH	THOUSAND BTUS PER HOUR
MC	MECHANICAL CONTRACTOR
MH	MANHOLE
MIN	MINIMUM
N/C	NORMALLY CLOSED
NFHB	NON-FREEZE HOSE BIBB
NIC	NOT IN CONTRACT
N/O	NORMALLY OPEN

OD

OSD	OPEN SITE DRAIN
OS&Y	OUTSIDE STEM AND YOKE
PC	PLUMBING CONTRACTOR
PD	PUMPED DISCHARGE LINE
PRV	PRESSURE REDUCING VALVE
PSI	PER SQUARE INCH
PVC	POLY VINYL CHLORIDE
R	RISER
RD	ROOF DRAIN
RL	RAINWATER LEADER
RPM	REVOLUTION PER MINUTE
RWC	RAINWATER CONDUCTOR
S	SOIL LINE/STACK
SAN	SANITARY
SD	SHOWER DRAIN
SH	SHOWER
SOV	SHUT-OFF VALVE
SP	SPRINKLER
SS	SERVICE SINK
SW	STORM WATER
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
UR	URINAL
V	VENT
VTR	VENT THRU ROOF
W	WASTE
w/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WH	WALL HYDRANT

OVERFLOW DRAIN

OSD	OPEN SITE DRAIN
OS&Y	OUTSIDE STEM AND YOKE
PC	PLUMBING CONTRACTOR
PD	PUMPED DISCHARGE LINE
PRV	PRESSURE REDUCING VALVE
PSI	PER SQUARE INCH
PVC	POLY VINYL CHLORIDE
R	RISER
RD	ROOF DRAIN
RL	RAINWATER LEADER
RPM	REVOLUTION PER MINUTE
RWC	RAINWATER CONDUCTOR
S	SOIL LINE/STACK
SAN	SANITARY
SD	SHOWER DRAIN
SH	SHOWER
SOV	SHUT-OFF VALVE
SP	SPRINKLER
SS	SERVICE SINK
SW	STORM WATER
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
UR	URINAL
V	VENT
VTR	VENT THRU ROOF
W	WASTE
w/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WH	WALL HYDRANT

PLUMBING GENERAL NOTES

GENERAL PLUMBING NOTES:

- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF WORK TO BE PERFORMED. THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY PIPE, FITTING, VALVE OR APPURTENANCE REQUIRED FOR A COMPLETE INSTALLATION. DO NOT SCALE LOCATION DIMENSIONS FROM THESE DRAWINGS. DRAWINGS ARE NOT TO BE SCALED FOR THE ACCURATE CUTTING OF PIPE OR ITS EXACT LOCATION. BEFORE ANY PIPING IS INSTALLED, CONFER WITH ALL OTHER CONTRACTORS IN ORDER TO ESTABLISH THE LOCATION OF THEIR PIPING, CONDUIT, DUCTWORK, GRILLES, FOUNDATIONS, STRUCTURAL STEEL, LIGHTING FIXTURES AND OTHER EQUIPMENT SO AS TO AVOID INTERFERENCE. FAILURE TO COORDINATE SHALL NOT RESULT IN ANY ADDITIONAL EXPENSES TO THE OWNER AND ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND VERIFYING ALL CONDITIONS AND DIMENSIONS AND FOR COORDINATION OF THEIR WORK WITH THAT OF ALL OTHER TRADES. PERFORM WORK IN A NEAT, ORDERLY MANNER AND WITH THE LEAST POSSIBLE INTERFERENCES.
- WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST CURRENT PENNSYLVANIA EDITION OF:
 - INTERNATIONAL PLUMBING CODE: 2018
 - INTERNATIONAL ENERGY CONSERVATION CODE: 2018 IECC
 - INTERNATIONAL BUILDINGS CODE: 2018 IBC
 - NEC (NFPA 70): 2017
 - INTERNATIONAL FUEL GAS CODE: 2018 IFGC
 - ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES
- CONTRACTOR SHALL CONFORM TO NSF 61 (605.4, 606.5, 702.1, 702.2, 703.3) FOR THE WATER DISTRIBUTION PIPING AND SANITARY DRAINAGE.
- VALVES AND FITTINGS UTILIZED IN THE WATER SUPPLY SYSTEM SHALL HAVE A MAXIMUM LEAD CONTENT OF 8% LEAD. LEAD FREE SOLDER THAT CONFORMS ASTM B32 AND FLUX THAT CONFORMS TO ASTM B 828. LEAD FREE SHALL MEAN A CHEMICAL COMPOSITION EQUAL TO OR LESS THAN 0.2% LEAD. PIPE, PIPE FITTINGS, JOINTS, VALVES, FAUCETS AND FIXTURE FITTINGS UTILIZED TO SUPPLY WATER FOR DRINKING OR COOKING PURPOSES SHALL COMPLY WITH NSF 372 AND SHALL HAVE A WEIGHTED AVERAGED LEAD CONTENT OF 0.25 PERCENT OR LESS.
- CONTRACTOR SHALL PROTECT THE PIPING FROM STRESS AND STRAIN. CONTRACTOR SHALL PROTECT THE IN-SLAB PIPING FROM CORROSION AND STRESS/STRAIN TO CONFORM TO THE INTERNATIONAL PLUMBING CODE. REFER TO PIPING SUPPORT SPACING SCHEDULE OF THE CODE.
- ALL MATERIALS, EQUIPMENT AND DEVICES SHALL, AS A MINIMUM, MEET THE REQUIREMENTS OF UL WHERE UL REQUIREMENTS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR THE PURPOSE OF THE CODE.
- ALL HOT WATER HEATERS TO CONFORM TO REQUIREMENTS OF INTERNATIONAL ENERGY CONSERVATION CODE - IECC (SECTION C404).
- WHERE PIPES PENETRATE FIRE RATED OR SMOKE RATED BARRIERS (WALLS, FLOORS AND CEILINGS), SEAL PENETRATIONS IN ACCORDANCE WITH NFPA 90A WITH UL LISTED FIRE STOPPING SYSTEM.
- REFER TO SCHEMATIC DIAGRAMS FOR ALL PIPE SIZES AND PIPING LOCATIONS NOT SHOWN ON THE PLANS UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL WASTE PIPING BELOW GRADE SHALL BE A MINIMUM OF 2" IN SIZE.
- INSTALL CLEANOUTS (TEST TEES) AT THE BASE OF ALL SOIL STACKS AND RAINWATER CONDUCTORS.
- COORDINATE LOCATION OF PIPING ABOVE CEILING WITH ELECTRICAL PANELS BY ELECTRICAL CONTRACTOR. DO NOT INSTALL PIPING IN DEDICATED SPACE FOR ELECTRIC PANEL.
- ANY REFERENCE TO "GC" OR "GENERAL CONTRACTOR" SHALL MEAN THE APPROPRIATE GENERAL TRADES CONTRACTOR, AS DEFINED IN DIVISION 1. THIS REFERENCE IS NOT TO OUTLINE WORK AMONG GENERAL TRADES CONTRACTOR, BUT TO NOTE WHAT WORK IS NOT A PART OF THE PLUMBING CONTRACT.
- ALL EQUIPMENT AND MATERIALS INCORPORATED IN THIS WORK SHALL BE NEW UNLESS NOTED OTHERWISE AND SHALL BE CURRENT PRODUCTS BY MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS.
- ALL FACTORY APPLIED COATINGS AND FINISHES SHALL BE PROVIDED WITHOUT RUST, SCRATCHES OR DENTS.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, APPROVALS AND INSPECTIONS AS REQUIRED TO COMPLETE INSTALLATIONS INDICATED ON THESE DRAWINGS.
- PROVIDE OWNER WITH CERTIFICATES OF FINAL INSPECTION AND ACCEPTANCE FROM THE AUTHORITY HAVING JURISDICTION.
- PROVIDE OWNER WITH TWO (2) SETS OF O&M (OPERATING AND MAINTENANCE) MANUALS WHICH SHALL INCLUDE:
 - ALL PRODUCT, EQUIPMENT AND FIXTURE DESCRIPTIONS AND SUBMITTAL DATA INCLUDING PARTS ORDERING INFORMATION.
 - INSTALLATION INSTRUCTIONS.
 - OPERATING AND MAINTENANCE INSTRUCTIONS.
 - WARRANTIES AND GUARANTEES.
 - PROVIDE ALL DATA IN A BOUND 8-1/2"x11" 3-RING BINDER FOR TEST AND BALANCE REPORTS.

COORDINATION REQUIREMENTS

- COORDINATE LOCATIONS AND INSTALLATION OF PLUMBING WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. MODIFICATIONS DUE TO FIELD CONDITIONS SHALL BE COMPLETELY RESOLVED BY CONTRACTOR IN ACCORDANCE WITH RECOMMENDATIONS OF THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR.
- COORDINATE FINAL LOCATIONS OF PLUMBING EQUIPMENT WITH ARCHITECTURAL PLANS.
- PROVIDE TO THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR AND ALL OTHER TRADES DIMENSIONED LOCATIONS AND SIZES OF ALL REQUIRED FLOOR, WALL AND ROOF OPENINGS. PROVIDE FOR INSTALLATION OF SLEEVES AND FRAMING AS REQUIRED.

PLUMBING INSTALLATION REQUIREMENTS:

- INSTALL ALL EQUIPMENT AND MATERIAL IN ACCORDANCE WITH MANUFACTURER PRINTED INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN CLEARANCES FOR CLEARANCE ACCESS TO MAINTAIN AND SERVICE EQUIPMENT, VALVES AND CONTROLS.
- ALL INSTALLATION AND WORK SHALL BE PERFORMED IN A NEAT, WORKMANLIKE MANNER SO AS NOT TO DAMAGE ANY SURFACES, EQUIPMENT OR MATERIALS.
- ALL EQUIPMENT AND PIPING SHALL BE SUPPORTED IN AN APPROVED MANNER FROM THE BUILDING STRUCTURE AND INCLUDE HANGERS AND RESTRAINTS IN ACCORDANCE WITH ALL APPLICABLE CODES AND SEISMIC RESTRAINT REQUIREMENTS. PLUMBING CONTRACTOR SHALL PROVIDE ALL ROOF OPENINGS, FLASHING, AUXILIARY STEEL, THREADED RODS, ETC., TO SUPPORT EQUIPMENT ON OR FROM THE STRUCTURE.
- PROVIDE PIPE ESCUTCHEONS AT ALL EXPOSED PENETRATIONS OF FLOORS, WALLS AND CEILINGS.
- PROVIDE LINK-SEALS OR EQUAL WHEN PIPING PENETRATES AN EXTERIOR WALL OR FLOOR SLAB. INSTALL SLEEVES OR CORE DRILL AT PROPER DIAMETER TO ASSURE WEATHERPROOF/MOISTER PROOF INSTALLATION.
- THE MANUFACTURERS AND MODEL NUMBERS LISTED ON THE SCHEDULES AND DETAILS ARE THE BASIS OF DESIGN FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR REFERENCE PURPOSE ONLY AND IS NOT INTENDED TO PRECLUDE SUBMITTAL OF OTHER MANUFACTURERS OF EQUAL QUALITY SUBJECT TO APPROVAL BY THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR.
- PIPE SIZES ARE IN INCHES UNLESS NOTED OTHERWISE.
- SLOPE SANITARY SEWER PIPING A MINIMUM OF 1/4" PER FOOT FOR PIPE 2" AND SMALLER AND 1/8" PER FOOT FOR PIPE LARGER THAN 2".
- RUNOUTS TO EQUIPMENT SHALL BE SIZED AS INDICATED AND INCREASED OR REDUCED AT POINT OF FINAL CONNECTION TO EQUIPMENT.
- ALL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION IN ACCORDANCE WITH APPLICABLE CODE OR REGULATION.
- PLUMBING CONTRACTOR SHALL SEAL ALL PIPE PENETRATIONS THROUGH WALLS, FLOORS AND ROOF WATERTIGHT. SEAL ALL PIPE PENETRATIONS THROUGH FIRE-RATED PARTITIONS WITH UL RATED FIRE RETARDANT CAULKING COMPOUND.
- ALL CHANGES IN PIPE DIRECTION MUST COMPLY WITH THE FITTING INDICATED IN THE APPROPRIATE SECTION IF THE INTERNATIONAL PLUMBING CODE.

PIPING MATERIALS:

- REFER TO IPC 2015 FOR ALL APPLICABLE ASTM NUMBER/REQUIREMENTS AS WELL AS PIPING SUPPORT REQUIREMENTS. FOR ALL SYSTEMS AND MATERIALS.
- ABOVE GROUND DOMESTIC WATER MAY BE TYPE L COPPER WITH SOLDERED JOINTS AND FITTINGS, SCHEDULE 40 CPVC WITH CHEMICAL WELD JOINTS AND FITTINGS OR PEX WITH ASSOCIATED COMPRESSION JOINTS AND FITTINGS. PEX SYSTEMS SHALL BE SUPPORTED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND INTERNATIONAL PLUMBING CODE (IPC). DO NOT INSTALL PLASTIC PIPING SYSTEMS IN RETURN AIR PLENUMS. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
- UNDERGROUND DOMESTIC WATER SHALL BE DUCTILE IRON, TYPE K COPPER WITH SOLDERED JOINTS AND FITTINGS OR HDPE WITH FUSION WELDED JOINTS AND FITTINGS. SERVICE PIPING MUST MEET THE UTILITY PROVIDERS REQUIREMENTS.
- ABOVE GROUND GAS PIPING SHALL BE SCHEDULE 40 STEEL THREADED AND COUPLED, WELDED OR FLANGED. LISTED FLEXIBLE GAS PIPING IS ALLOWABLE FOR FINAL CONNECTIONS TO EQUIPMENT AND APPLIANCES UNLESS OTHERWISE NOTED. DO NOT INSTALL THREADED OR FLANGED FITTINGS IN WALLS, BELOW GROUND OR ANY OTHER NON ACCESSIBLE SPACES.
- UNDERGROUND GAS PIPING SHALL BE SCHEDULE 40 WELDED, OR HDPE FUSION WELDED. FLEXIBLE GAS PIPING IS ALLOWABLE IN USED IN PVC CONDUIT.
- ABOVE OR BELOW GROUND SANITARY AND VENT PIPING MAY BE SCHEDULE 40 SOLID CORE PVC OR STANDARD WEIGHT CAST IRON SOIL PIPE. JOINTS AND FITTINGS MAY BE HUBLESS, HUB AND SPIGOT OR CHEMICAL WELDED. DO NOT INSTALL PLASTIC PIPING IN RETURN AIR PLENUMS. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
- PRESSURIZED OR PUMPED SANITARY LINES SHALL BE CPVC OR TYPE L COPPER WITH SOLDERED JOINTS AND FITTINGS WHEN PLASTIC IS NOT PERMITTED.

GRAPHIC CONVENTIONS

	EQUIPMENT TAG, TOP INDICATES EQUIPMENT DESIGNATION, BOTTOM INDICATES EQUIPMENT NUMBER
	PLAN CALLOUT, TOP INDICATES CALLOUT REFERENCE NUMBER, BOTTOM INDICATES SHEET NUMBER
	ELEVATION CALLOUT, TOP INDICATES CALLOUT REFERENCE NUMBER, BOTTOM INDICATES SHEET NUMBER
	SECTION CALLOUT, TOP INDICATES CALLOUT REFERENCE NUMBER, BOTTOM INDICATES SHEET NUMBER
	REVISION AREA
	REVISION TAG
	CONSTRUCTION KEYED NOTE TAG
	DEMOLITION KEYED NOTE TAG
	POINT OF CONNECTION BETWEEN NEW AND EXISTING
	LIMIT OF DEMOLITION BETWEEN EXISTING TO REMAIN AND TO BE REMOVED

COORDINATION NOTE

THE HVAC, PLUMBING, AND ELECTRICAL CONTRACTORS SHALL BE AWARE THAT THE CEILING HEIGHTS, SOFFITS AND SPACE CONDITIONS ON THIS PROJECT ARE CRITICAL AND SPACE ALLOCATION MUST BE COORDINATED BETWEEN ALL TRADES AND MAINTAINED. EACH CONTRACTOR OR TRADE SHALL REFER TO THE STRUCTURAL AND ARCHITECTURAL DRAWINGS IN ADDITION TO THE HVAC, PLUMBING, AND ELECTRICAL DRAWINGS TO DETERMINE ACCEPTABLE LAYERING OF ALL EQUIPMENT.

PRIME CONTRACT NOTE

THIS PROJECT IS SELF PRIME CONTRACTS. THE P.C. SHALL BE RESPONSIBLE FOR ALL CUTTING PATCHING, ETC. FOR THEIR WORK. THE P.C. SHALL MEET, REPORT WORK PROGRESS, ALL SHUTDOWNS, ETC. WITH OWNER. P.C. SHALL COORDINATE WITH ALL OTHER TRADES. SEE FRONT END SPECIFICATIONS FOR DETAILS.

PLUMBING LEGEND

NOT ALL SYMBOLS ARE USED ON DRAWINGS

	COLD WATER LINE (CW)
	HOT WATER LINE (HW)
	HOT WATER RETURN LINE (HWR)
	140°F HOT WATER LINE (140°)
	140°F HOT WATER RETURN LINE (140°R)
	GRAYWATER (GW)
	GRAYWATER RETURN (GWR)
	GRAYWATER IRRIGATION
	VENT LINE (V)
	SANITARY LINE (SAN)
	EXISTING SANITARY LINE BELOW SLAB OR FLOOR(SAN)
	COMPRESSED AIR (A)
	CONDENSATE DRAIN LINE MANUAL (CD)
	CONDENSATE DRAIN LINE PUMPED (PD)
	FIRE, SPRINKLE SUPPLY LINE
	DEIONIZED OR DISTILLED WATER (DW)
	NATURAL GAS (G)
	PROPANE OR LIQUEFIED PETROLEUM GAS (LPG)

	RAINWATER LINE (RWC)
	STORM WATER LINE OUTSIDE BUILDING (ST)
	TRAP PRIMER LINE (TPL)
	TEMPERED WATER LINE (TEMP °F)
	VACUUM (V)
	ACID VENT LINE (AV)
	ACID WASTE LINE (AW)
	SOLVENT WASTE LINE (SOLV)
	ACETYLENE LINE (AC)
	ARGON LINE (AR)
	CARBON DIOXIDE LINE (CO2)
	MEDICAL AIR LINE (MA)
	MEDICAL VACUUM LINE (MV)
	NITROGEN LINE (N2)
	NITROGEN OXIDE (NO)

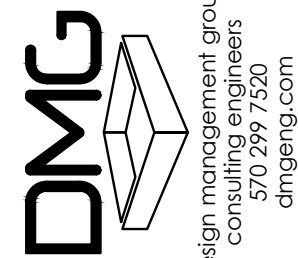
	OXYGEN LINE (O2)
	AUTOMATIC THREE-WAY ATO CONTROL VALVE
	AUTOMATIC THREE-WAY ATO CONTROL VALVE
	BACKFLOW PREVENTER
	BALANCING VALVE
	BALL VALVE
	BALL VALVE IN VERTICAL
	BUTTERFLY VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE
	SOLENOID VALVE
	GATE VALVE IN VERTICAL
	GLOBE VALVE
	PRESSURE REDUCING VALVE

	COMBINATION TEMPERATURE/PRESSURE RELIEF VALVE
	THERMOMETER
	TEMPERATURE GAUGE IN THERMOWELL
	UNION
	SHOCK ASSORBER/WATER HAMMER ARRESTOR "A" INDICATES SIZE; SEE SCHEDULE
	CIRCULATING OF IN-LINE PUMP (PLAN)
	CIRCULATING OF IN-LINE PUMP (SCHEMATIC)
	GAS METER
	WATER METER
	AIR VENT; MANUAL & AUTOMATIC
	FLEXIBLE CONNECTOR
	EXPANSION JOINT
	MOMENT GUIDE
	PIPE ANCHOR
	MOMENT GUIDE
	PIPE CAP

	PIPE REDUCER - CONCENTRIC
	PIPE REDUCER - ECCENTRIC
	PIPE PITCHING DOWNWARD IN DIRECTION OF ARROW
	POINT OF NEW CONNECTION TO EXISTING
	LIMIT OF DEMOLITION
	TEE OUTLET DROP
	TEE OUTLET RISE
	PIPE DROPPING
	PIPE RISING
	RUNNING TRAP
	DIRECTION OF FLOW
	FIXTURE DRAIN WITH TRAP
	FLOOR DRAIN WITH TRAP (FD)
	FLOOR DRAIN WITHOUT TRAP (FD)
	FLOOR CLEANOUT (FCO)

	CLEANOUT FLUSH (FC)
	WALL CLEANOUT (WCO)
	ROOF DRAIN (RD)
	HOSE BIBB (HB)
	NON FREEZE WALL HYDRANT (NFWH)
	FUNNEL DRAIN
	REMOVE EXISTING
	OUTSIDE SCREW AND YOKE VALVE (OS&Y)
	PLUG VALVE; NON-LUBRICATED TYPE
	"Y" STRAINER
	"Y" STRAINER w/BLOWDOWN VALVE AND HOSE BIBB
	GAS SHUT-OFF COCK
	PRESSURE GAUGE w/SHUT-OFF COCK

Consultants:



Client:

16-22 Union Street -

Apartment Building

Client: Empire Property Construction

16-22 Union St.

Wilkes-Barre, Pa 18701

Seals:

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Phase:

PERMIT/PRICING

Project: Apartment Building

Date: 06/15/2026

Drawn: NW

Checked: KJS

Scale: AS NOTED

Sheet:

PLUMBING COVER SHEET

P-1

- 1 - - 2 - - 3 - - 4 - - 5 - - 6 - - 7 - - 8 - - 9 - - 10 -

- A -

- B -

- C -

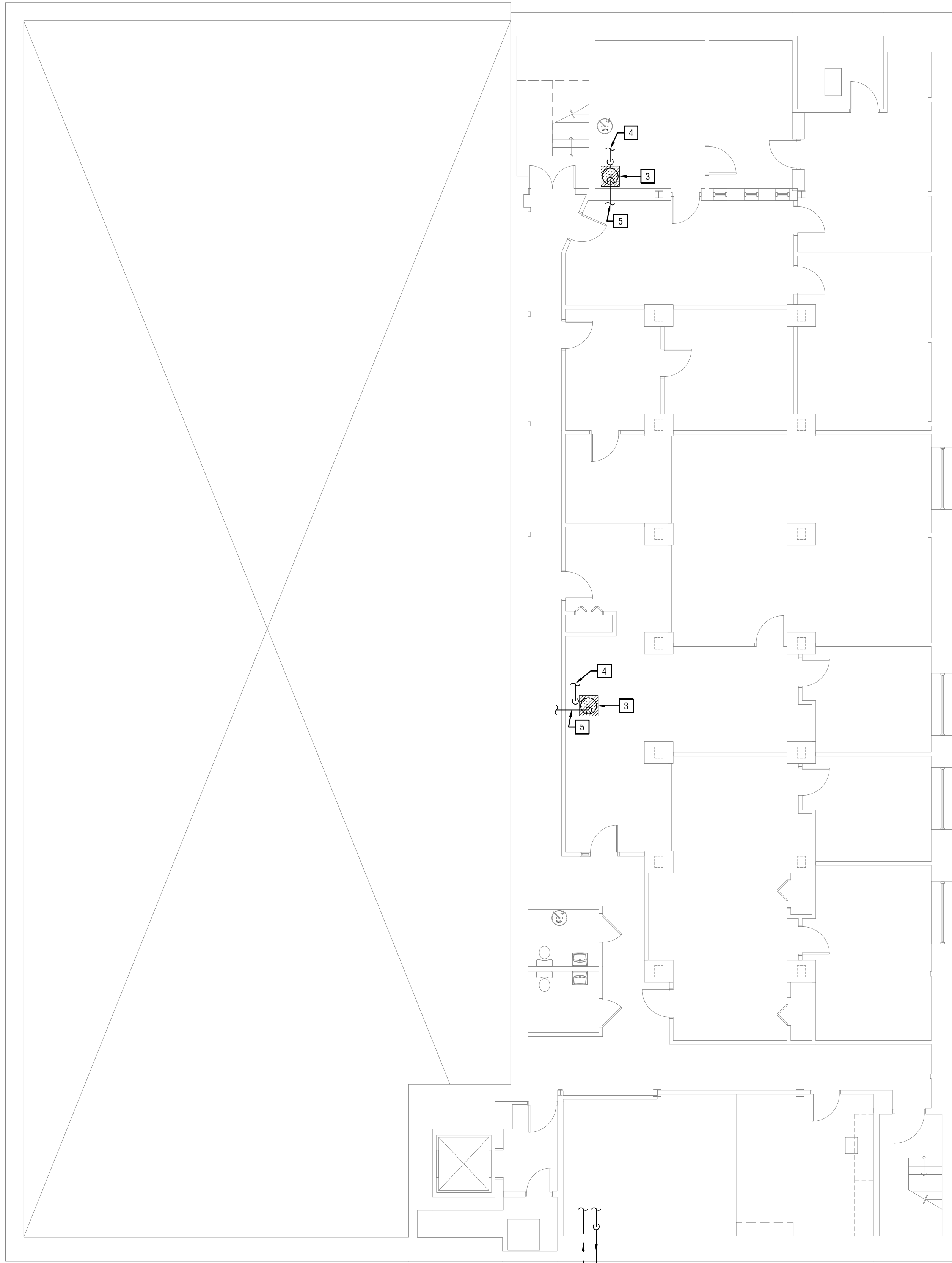
- D -

- E -

- F -

- G -

- H -



1
P-2
PLUMBING DEMOLITION PLAN - BASEMENT
SCALE: 1/8" = 1'-0"

KEYED DEMOLITION NOTES

- 1 APPROXIMATE LOCATION OF EXISTING DOMESTIC WATER SERVICE IN FROM STREET TO REMAIN. FIELD VERIFY EXISTING LOCATION, SIZE, METER/BACKFLOW CONDITION, ETC. PRIOR TO CONSTRUCTION. VERIFY WITH WATER AUTHORITY EXISTING SERVICE AND EQUIPMENT IS ADEQUATELY SIZED TO ACCOMMODATE NEW DOMESTIC WATER DEMAND.
- 2 APPROXIMATE LOCATION OF EXISTING SANITARY SERVICE IN FROM STREET TO REMAIN. FIELD VERIFY EXISTING LOCATION, SIZE, CONDITION, ETC. PRIOR TO CONSTRUCTION. VERIFY WITH SEWER AUTHORITY EXISTING SERVICE IS ADEQUATELY SIZED TO ACCOMMODATE NEW SANITARY DEMAND.
- 3 EXISTING GRINDER PUMP AND BASIN SITTING AT BASEMENT FLOOR LEVEL TO BE REMOVED.
- 4 EXISTING GRAVITY INLET PIPING TO BASEMENT GRINDER PUMP TO BE REDIRECTED TO NEAREST ADEQUATE SIZED EXISTING GRAVITY SANITARY PIPING AT BASEMENT CEILING HEIGHT. FIELD VERIFY EXISTING PIPING SIZES, LOCATIONS, AND BEST POSSIBLE POINT OF NEW CONNECTION.

- 5 EXISTING FORCED OUTLET PIPING FROM BASEMENT GRINDER PUMP TO BE REMOVED FROM GRINDER PUMP OUTLET TO GRAVITY CONNECTION. FIELD VERIFY EXISTING LOCATION AND ROUTING PRIOR TO CONSTRUCTION.

GENERAL DEMOLITION NOTES

1. HATCHED AREAS INDICATE BRANCH PIPING AND ALL RELATED PLUMBING EQUIPMENT TO BE REMOVED, UNLESS OTHERWISE NOTED.
2. THE INTENT OF THE DEMOLITION DRAWINGS IS TO GIVE THE P.C AN OVERALL SCOPE OF WORK REQUIRED TO COMPLETE THIS PROJECT.
3. IT ALSO THE INTENT OF THE DRAWINGS TO PROVIDE A COMPLETE CLEAN SPACE IN THE AREAS DESIGNATED PRIOR TO CONSTRUCTION.
4. ALL PIPING SHOWN IS EXISTING AND INDICATES APPROXIMATE LOCATIONS AND DIRECTIONS. IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXACT PIPING LOCATIONS AND SIZES DURING DEMOLITION / CONSTRUCTION PHASES OF THIS PROJECT.
5. ALL EXISTING DOMESTIC WATER, SANITARY, VENT, STORMWATER, NATURAL GAS, FIRE PROTECTION, ETC. PIPING OUTSIDE OF WORK AREA SHALL REMAIN AND REMAIN IN SERVICE.

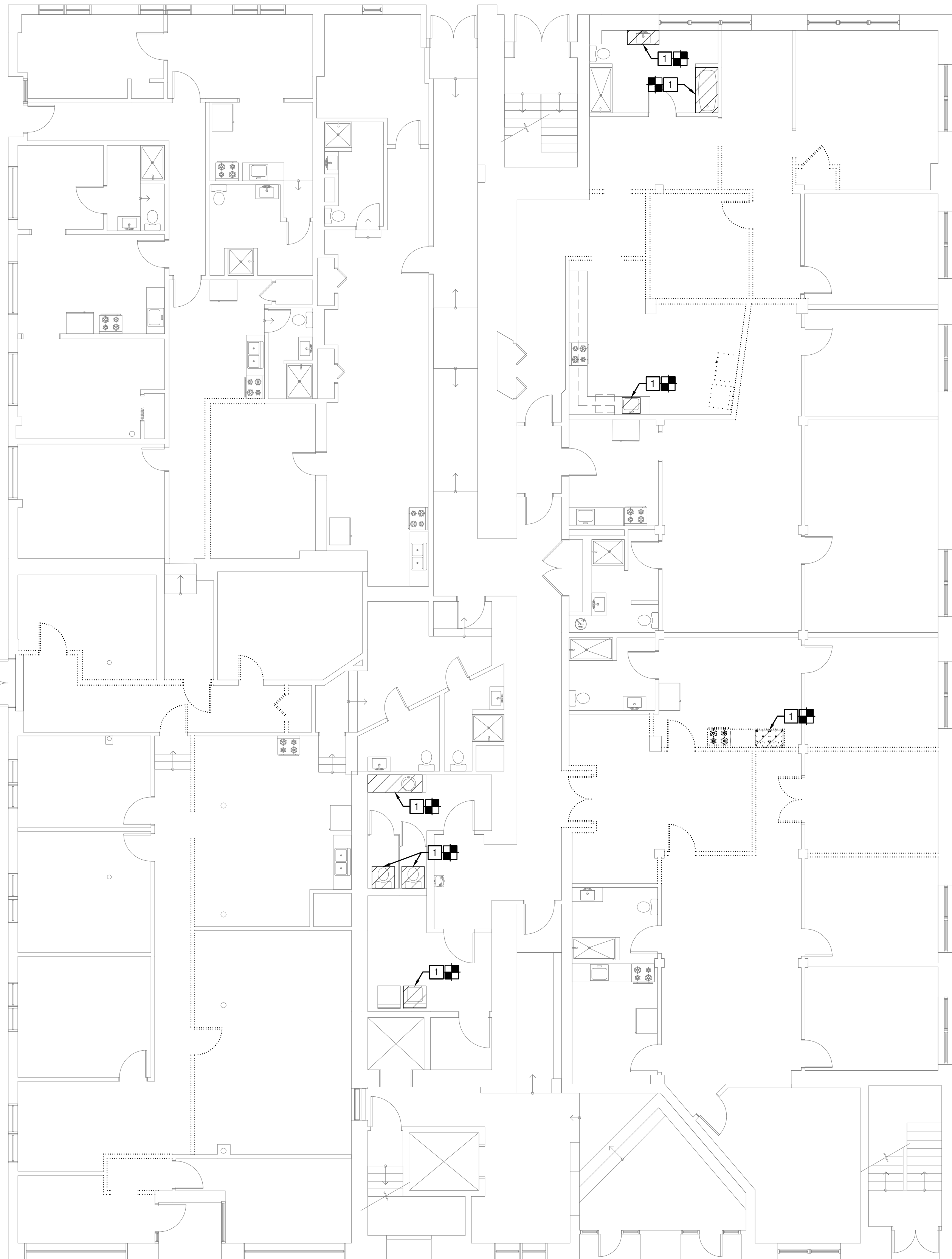
6. THE P.C. IS CAUTIONED THAT WHEN PERFORMING DEMOLITION WORK, PLUMBING AND PROCESS PIPING SERVING AREAS OF THE BUILDING OUTSIDE THE WORK AREA MUST REMAIN IN OPERATION.
7. WHEN DISCONNECTING FIXTURES FOR DEMOLITION, FIXTURES SHALL BE DISCARDED, UNLESS OTHERWISE SPECIFIED, AND ALL RELATED PIPING SHALL BE CAPPED OR PLUGGED IN THE WALLS, ABOVE CEILINGS OR BELOW FLOORS AS CLOSE AS POSSIBLE TO THE SOURCE.
8. THE OWNER RESERVES THE RIGHT TO CLAIM ANY MATERIALS REMOVED DURING DEMOLITION THAT WILL NOT BE REUSED. THE P.C. IS RESPONSIBLE TO REMOVE FROM SITE ANY MATERIALS NOT CLAIMED BY THE OWNER.
9. CONTRACTOR SHALL REMOVE ALL EXISTING DEAD LEGS (ANY BRANCH OR MAIN PIPING WITH NO FLOW) WITHIN THE DOMESTIC WATER SYSTEM DURING DEMOLITION TO PREVENT STAGNATION OF ANY SITTING WATER AND ASSOCIATED BACTERIA GROWTH.

KEYED DEMOLITION NOTES

- 1 EXISTING PLUMBING FIXTURES, INCLUDING ALL FAUCETS, FITTINGS, VALVES, HANGERS, ACCESSORIES, ETC. AND SUPPLY BRANCH PIPING TO BE DEMOLISHED. CUT AND CAP EXISTING COLD/HOT WATER AND SANITARY/VENT BRANCH PIPING BACK TO MAIN AS CLOSE TO SOURCE AS POSSIBLE.

GENERAL DEMOLITION NOTES

1. HATCHED AREAS INDICATE BRANCH PIPING AND ALL RELATED PLUMBING EQUIPMENT TO BE REMOVED, UNLESS OTHERWISE NOTED.
2. THE INTENT OF THE DEMOLITION DRAWINGS IS TO GIVE THE P.C AN OVERALL SCOPE OF WORK REQUIRED TO COMPLETE THIS PROJECT.
3. IT ALSO THE INTENT OF THE DRAWINGS TO PROVIDE A COMPLETE CLEAN SPACE IN THE AREAS DESIGNATED PRIOR TO CONSTRUCTION.
4. ALL PIPING SHOWN IS EXISTING AND INDICATES APPROXIMATE LOCATIONS AND DIRECTIONS. IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXACT PIPING LOCATIONS AND SIZES DURING DEMOLITION / CONSTRUCTION PHASES OF THIS PROJECT.



2
P-2
PLUMBING DEMOLITION PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0"

5. ALL EXISTING DOMESTIC WATER, SANITARY, VENT, STORMWATER, NATURAL GAS, FIRE PROTECTION, ETC. PIPING OUTSIDE OF WORK AREA SHALL REMAIN AND REMAIN IN SERVICE.
6. THE P.C. IS CAUTIONED THAT WHEN PERFORMING DEMOLITION WORK, PLUMBING AND PROCESS PIPING SERVING AREAS OF THE BUILDING OUTSIDE THE WORK AREA MUST REMAIN IN OPERATION.
7. WHEN DISCONNECTING FIXTURES FOR DEMOLITION, FIXTURES SHALL BE DISCARDED, UNLESS OTHERWISE SPECIFIED, AND ALL RELATED PIPING SHALL BE CAPPED OR PLUGGED IN THE WALLS, ABOVE CEILINGS OR BELOW FLOORS AS CLOSE AS POSSIBLE TO THE SOURCE.
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9. CONTRACTOR SHALL REMOVE ALL EXISTING DEAD LEGS (ANY BRANCH OR MAIN PIPING WITH NO FLOW) WITHIN THE DOMESTIC WATER SYSTEM DURING DEMOLITION TO PREVENT STAGNATION OF ANY SITTING WATER AND ASSOCIATED BACTERIA GROWTH.

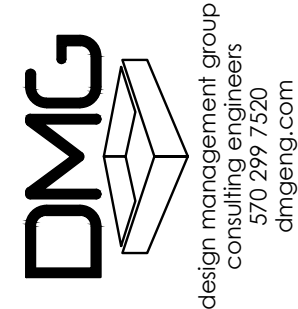
Client:

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Client: Empire Property Construction
16-22 Union St.

Wilkes-Barre, Pa 18701

Consultants:



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Revisions | Issues
No: Date:

Phase:

PERMIT/PRICING

Project: Apartment Building

Date: 06/15/2026

Drawn: NW

Scale: AS NOTED

Sheet:

Checked: KJS
PLUMBING FLOOR
PLANS - DEMOLITION

P-2



1 PLUMBING DEMOLITION PLAN - SECOND FLOOR
P-3 SCALE: 1/8" = 1'-0"

KEYED DEMOLITION NOTES

1. HATCHED AREAS INDICATE BRANCH PIPING AND ALL RELATED PLUMBING EQUIPMENT TO BE REMOVED, UNLESS OTHERWISE NOTED.

GENERAL DEMOLITION NOTES

2. THE INTENT OF THE DEMOLITION DRAWINGS IS TO GIVE THE P.C. AN OVERALL SCOPE OF WORK REQUIRED TO COMPLETE THIS PROJECT.
3. IT ALSO THE INTENT OF THE DRAWINGS TO PROVIDE A COMPLETE CLEAN SPACE IN THE AREAS DESIGNATED PRIOR TO CONSTRUCTION.
4. ALL PIPING SHOWN IS EXISTING AND INDICATES APPROXIMATE LOCATIONS AND DIRECTIONS. IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXACT PIPING LOCATIONS AND SIZES DURING DEMOLITION / CONSTRUCTION PHASES OF THIS PROJECT.

5. ALL EXISTING DOMESTIC WATER, SANITARY, VENT, STORMWATER, NATURAL GAS, FIRE PROTECTION, ETC. PIPING OUTSIDE OF WORK AREA SHALL REMAIN AND REMAIN IN SERVICE.
6. THE P.C. IS CAUTIONED THAT WHEN PERFORMING DEMOLITION WORK, PLUMBING AND PROCESS PIPING SERVING AREAS OF THE BUILDING OUTSIDE THE WORK AREA MUST REMAIN IN OPERATION.
7. WHEN DISCONNECTING FIXTURES FOR DEMOLITION, FIXTURES SHALL BE DISCARDED, UNLESS OTHERWISE SPECIFIED, AND ALL RELATED PIPING SHALL BE CAPPED OR PLUGGED IN THE WALLS, ABOVE CEILINGS OR BELOW FLOORS AS CLOSE AS POSSIBLE TO THE SOURCE.
8. THE OWNER RESERVES THE RIGHT TO CLAIM ANY MATERIALS REMOVED DURING DEMOLITION THAT WILL NOT BE REUSED. THE P.C. IS RESPONSIBLE TO REMOVE FROM SITE ANY MATERIALS NOT CLAIMED BY THE OWNER.
9. CONTRACTOR SHALL REMOVE ALL EXISTING DEAD LEGS (ANY BRANCH OR MAIN PIPING WITH NO FLOW) WITHIN THE DOMESTIC WATER SYSTEM DURING DEMOLITION TO PREVENT STAGNATION OF ANY SITTING WATER AND ASSOCIATED BACTERIA GROWTH.



2 PLUMBING DEMOLITION PLAN - THIRD FLOOR
P-3 SCALE: 1/8" = 1'-0"

KEYED DEMOLITION NOTES

1. HATCHED AREAS INDICATE BRANCH PIPING AND ALL RELATED PLUMBING EQUIPMENT TO BE REMOVED, UNLESS OTHERWISE NOTED.

GENERAL DEMOLITION NOTES

2. THE INTENT OF THE DEMOLITION DRAWINGS IS TO GIVE THE P.C. AN OVERALL SCOPE OF WORK REQUIRED TO COMPLETE THIS PROJECT.
3. IT ALSO THE INTENT OF THE DRAWINGS TO PROVIDE A COMPLETE CLEAN SPACE IN THE AREAS DESIGNATED PRIOR TO CONSTRUCTION.
4. ALL PIPING SHOWN IS EXISTING AND INDICATES APPROXIMATE LOCATIONS AND DIRECTIONS. IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXACT PIPING LOCATIONS AND SIZES DURING DEMOLITION / CONSTRUCTION PHASES OF THIS PROJECT.

5. ALL EXISTING DOMESTIC WATER, SANITARY, VENT, STORMWATER, NATURAL GAS, FIRE PROTECTION, ETC. PIPING OUTSIDE OF WORK AREA SHALL REMAIN AND REMAIN IN SERVICE.
6. THE P.C. IS CAUTIONED THAT WHEN PERFORMING DEMOLITION WORK, PLUMBING AND PROCESS PIPING SERVING AREAS OF THE BUILDING OUTSIDE THE WORK AREA MUST REMAIN IN OPERATION.
7. WHEN DISCONNECTING FIXTURES FOR DEMOLITION, FIXTURES SHALL BE DISCARDED, UNLESS OTHERWISE SPECIFIED, AND ALL RELATED PIPING SHALL BE CAPPED OR PLUGGED IN THE WALLS, ABOVE CEILINGS OR BELOW FLOORS AS CLOSE AS POSSIBLE TO THE SOURCE.
8. THE OWNER RESERVES THE RIGHT TO CLAIM ANY MATERIALS REMOVED DURING DEMOLITION THAT WILL NOT BE REUSED. THE P.C. IS RESPONSIBLE TO REMOVE FROM SITE ANY MATERIALS NOT CLAIMED BY THE OWNER.
9. CONTRACTOR SHALL REMOVE ALL EXISTING DEAD LEGS (ANY BRANCH OR MAIN PIPING WITH NO FLOW) WITHIN THE DOMESTIC WATER SYSTEM DURING DEMOLITION TO PREVENT STAGNATION OF ANY SITTING WATER AND ASSOCIATED BACTERIA GROWTH.

Client:
**16-22 Union Street -
Apartment Building**
Client: Empire Property Construction
16-22 Union St.
Wilkes-Barre, Pa 18701

Consultants:
DMG
design management group
consulting engineers
570.726.5200
dmgeng.com

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Project: Apartment Building
Date: 06/15/2026
Drawn: NW Checked: KJS
Scale: AS NOTED
Sheet: PLUMBING FLOOR PLANS - DEMOLITION
P-3



1 PLUMBING DEMOLITION PLAN - FOURTH FLOOR
P-4 SCALE: 1/8" = 1'-0"

KEYED CONSTRUCTION NOTES

- EXISTING PLUMBING FIXTURES, INCLUDING ALL FAUCETS, FITTINGS, VALVES, HANGERS, ACCESSORIES, ETC. AND SUPPLY BRANCH PIPING TO BE DEMOLISHED. CUT AND CAP EXISTING COLD/HOT WATER AND SANITARY/VENT BRANCH PIPING BACK TO MAIN AS CLOSE TO SOURCE AS POSSIBLE.

GENERAL CONSTRUCTION NOTES

- HATCHED AREAS INDICATE BRANCH PIPING AND ALL RELATED PLUMBING EQUIPMENT TO BE REMOVED, UNLESS OTHERWISE NOTED.
- THE INTENT OF THE DEMOLITION DRAWINGS IS TO GIVE THE P.C. AN OVERALL SCOPE OF WORK REQUIRED TO COMPLETE THIS PROJECT.
- IT ALSO THE INTENT OF THE DRAWINGS TO PROVIDE A COMPLETE CLEAN SPACE IN THE AREAS DESIGNATED PRIOR TO CONSTRUCTION.
- ALL PIPING SHOWN IS EXISTING AND INDICATES APPROXIMATE LOCATIONS AND DIRECTIONS. IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXACT PIPING LOCATIONS AND SIZES DURING DEMOLITION / CONSTRUCTION PHASES OF THIS PROJECT.

- ALL EXISTING DOMESTIC WATER, SANITARY, VENT, STORMWATER, NATURAL GAS, FIRE PROTECTION, ETC. PIPING OUTSIDE OF WORK AREA SHALL REMAIN AND REMAIN IN SERVICE.
- THE P.C. IS CAUTIONED THAT WHEN PERFORMING DEMOLITION WORK, PLUMBING AND PROCESS PIPING SERVING AREAS OF THE BUILDING OUTSIDE THE WORK AREA MUST REMAIN IN OPERATION.
- WHEN DISCONNECTING FIXTURES FOR DEMOLITION, FIXTURES SHALL BE DISCARDED, UNLESS OTHERWISE SPECIFIED, AND ALL RELATED PIPING SHALL BE CAPPED OR PLUGGED IN THE WALLS, ABOVE CEILINGS OR BELOW FLOORS AS CLOSE AS POSSIBLE TO THE SOURCE.
- THE OWNER RESERVES THE RIGHT TO CLAIM ANY MATERIALS REMOVED DURING DEMOLITION THAT WILL NOT BE REUSED. THE P.C. IS RESPONSIBLE TO REMOVE FROM SITE ANY MATERIALS NOT CLAIMED BY THE OWNER.
- CONTRACTOR SHALL REMOVE ALL EXISTING DEAD LEGS (ANY BRANCH OR MAIN PIPING WITH NO FLOW) WITHIN THE DOMESTIC WATER SYSTEM DURING DEMOLITION TO PREVENT STAGNATION OF ANY SITTING WATER AND ASSOCIATED BACTERIA GROWTH.

Consultants:

DMG

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Sheet: PLUMBING FLOOR PLANS - DEMOLITION
P-4

- 1 - - 2 - - 3 - - 4 - - 5 - - 6 - - 7 - - 8 - - 9 - - 10 -

- A -

- B -

- C -

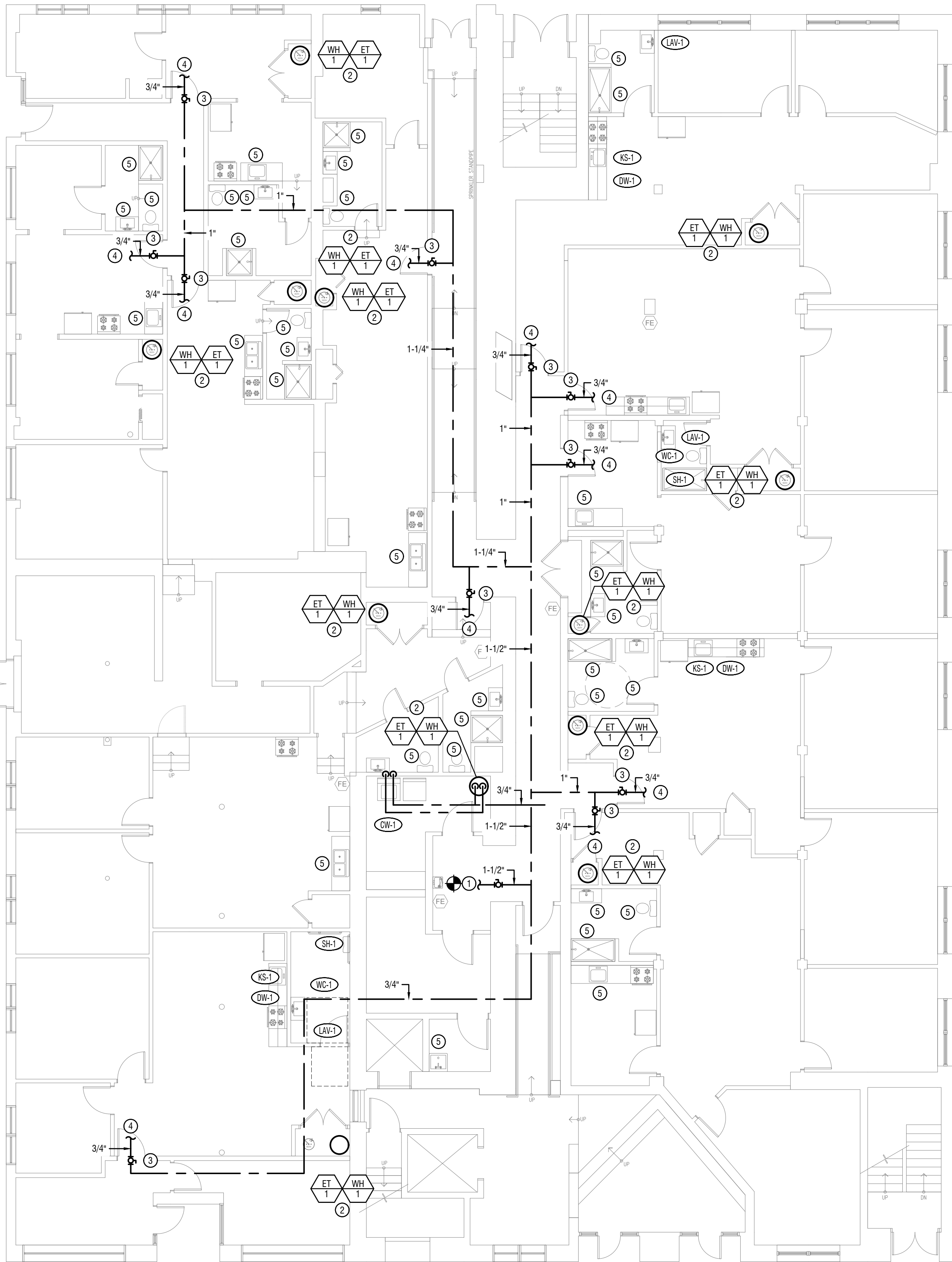
- D -

- E -

- F -

- G -

- H -



1 PLUMBING NEW PLAN DOMESTIC WATER - FIRST FLOOR
P-5 SCALE: 1/8\" = 1'-0"

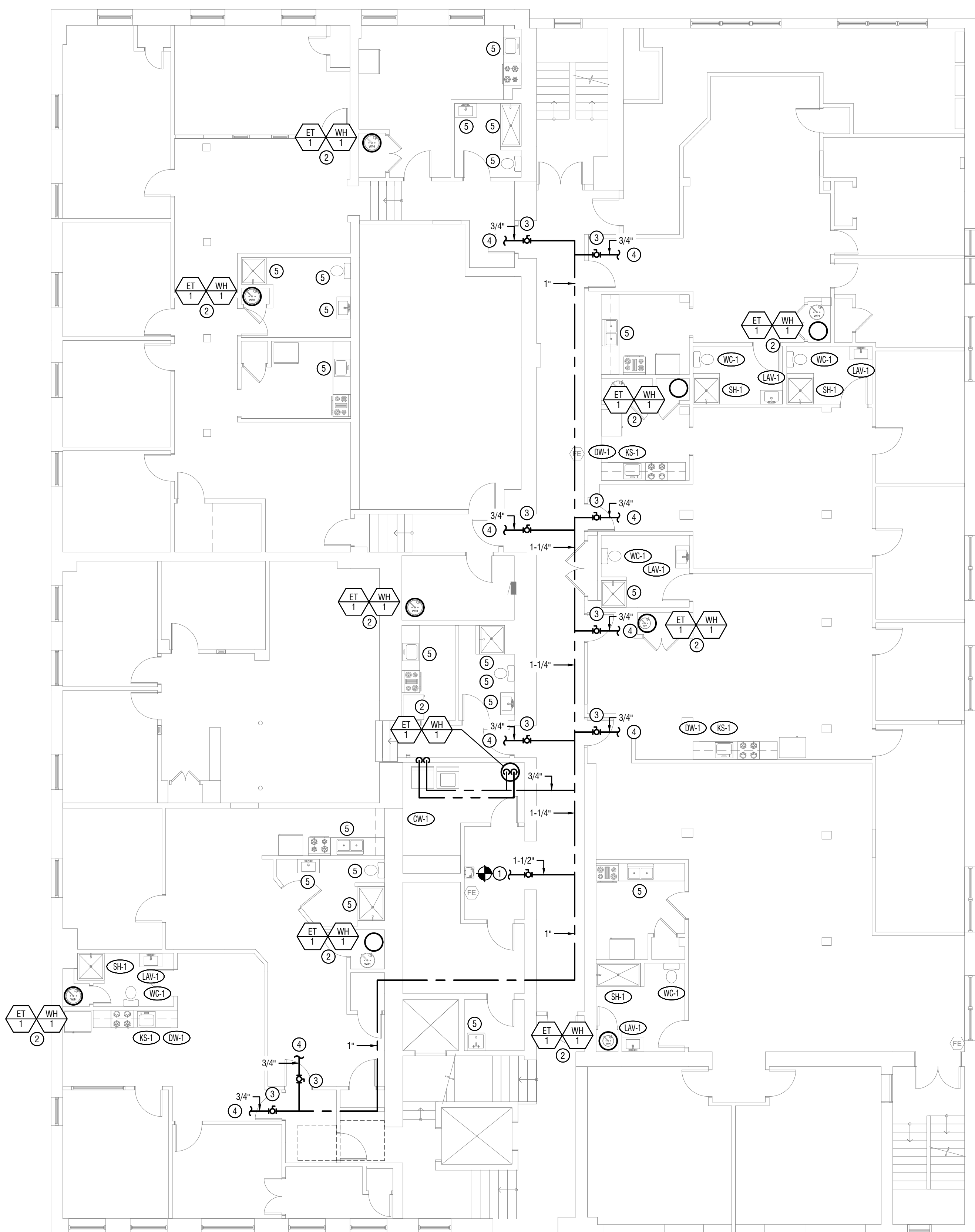
KEYED CONSTRUCTION NOTES

- CONNECT NEW DOMESTIC WATER FEED SERVING PLUMBING FIXTURES THIS FLOOR LEVEL TO EXISTING NEAREST ADEQUATELY SIZED WATER MAIN PIPING. FIELD VERIFY EXISTING PIPING LOCATIONS, SIZES, CONDITIONS, ETC. AND BEST POSSIBLE POINT OF NEW CONNECTION. PROVIDE SHUT-OFF VALVE AT POINT OF CONNECTION.
- WATER HEATER WITH EXPANSION TANK ON CW LINE MOUNTED ON DRAIN PAN. DRAIN PAN TO INDIRECTLY DRAIN TO NEAREST FLOOR DRAIN. REFER TO SCHEDULE AND DETAIL FOR MORE INFORMATION. COORDINATE WATER HEATER LOCATIONS, CLEARANCES WITHIN CLOSET, AND CLOSET SIZES WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- PROVIDE ACCESSIBLE SHUTOFF VALVE ON DOMESTIC WATER LINE SERVING INDIVIDUAL APARTMENT.
- CONNECT NEW APARTMENT DOMESTIC WATER LINE ABOVE CEILING LEVEL TO INDIVIDUAL FIXTURES AND WATER HEATER WITHIN APARTMENT. COORDINATE EXACT DOMESTIC COLD AND HOT WATER CONNECTION SIZES WITH PLUMBING FIXTURE SCHEDULE AND MANUFACTURER'S SPECIFICATIONS.

- EXISTING DOMESTIC WATER PIPING, VALVES, AND PLUMBING FIXTURES SHALL BE EVALUATED BY THE CONTRACTOR AND OWNER FOR CONDITION AND REUSE. REUSE EXISTING COMPONENTS WHERE ACCEPTABLE TO THE OWNER AND DETERMINED TO BE IN GOOD WORKING CONDITION. COMPONENTS DEEMED UNSUITABLE FOR REUSE SHALL BE REPLACED IN KIND. RECONNECT REUSED OR REPLACEMENT COMPONENTS TO EXISTING DOMESTIC WATER SYSTEMS AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION.

GENERAL CONSTRUCTION NOTES

- ALL DOMESTIC WATER LINES SHOWN ON THIS FLOOR PLAN TO BE INSTALLED ABOVE CEILING LEVEL, UNLESS OTHERWISE NOTED.
- ALL DOMESTIC WATER RISE/DROPS SHALL BE CONCEALED, UNLESS OTHERWISE DIRECTED BY THE OWNER/ARCHITECT. COORDINATE ANY REQUIRED NEW WALL FUROUTS, WALL DIMENSIONS, PIPE CHASES, ETC. WITH OWNER, ARCHITECT, AND GC PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ADEQUATE HEATING IS PROVIDED IN AREAS INSTALLED WITH WATER PIPING. COORDINATE HEATED AREAS WITH MC AND OWNER PRIOR TO INSTALLATION.



2 PLUMBING NEW PLAN DOMESTIC WATER - SECOND FLOOR
P-5 SCALE: 1/8\" = 1'-0"

- CONTRACTOR SHALL FULLY COORDINATE ANY REQUIRED DEMOLITION AND REPAIR OF EXISTING WALLS, CEILINGS, OR FLOORS FOR INSTALLATION OF NEW PLUMBING PIPING OR EQUIPMENT WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- PLUMBING CONTRACTOR SHALL THOROUGHLY EXAMINE ALL EXISTING PLUMBING FIXTURES TO BE REUSED PRIOR TO CONSTRUCTION. VERIFY EXISTING FIXTURE AND ASSOCIATED PIPING/ACCESSORIES ARE IN PROPER WORKING ORDER. INSPECT, CLEAN, AND REPAIR/REPLACE ANY CRACKED, LEAKING, DEFECTIVE FIXTURES OR PIPING AS REQUIRED.

DOMESTIC WATER PIPING WITHIN INDIVIDUAL APARTMENT UNITS IS NOT SHOWN IN ITS ENTIRETY. CONTRACTOR SHALL PROVIDE AND COORDINATE ALL REQUIRED HOT, COLD, AND RECIRCULATION PIPING (WHERE APPLICABLE) FROM THE POINTS SHOWN ON THE DRAWINGS TO ALL PLUMBING FIXTURES, WATER HEATERS, AND OTHER DEVICES REQUIRING DOMESTIC WATER SERVICE WITHIN EACH UNIT. DOMESTIC WATER MAINS SERVING INDIVIDUAL APARTMENT UNITS SHALL BE 3/4-INCH MINIMUM UNLESS NOTED OTHERWISE. BRANCH PIPING TO INDIVIDUAL FIXTURES SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE PLUMBING FIXTURE SCHEDULE, MANUFACTURER'S REQUIREMENTS, APPLICABLE CODES, AND PROJECT CONDITIONS. CONTRACTOR SHALL COORDINATE FINAL ROUTING WITH ARCHITECTURAL, STRUCTURAL, AND OTHER TRADES PRIOR TO INSTALLATION.

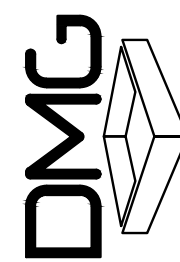
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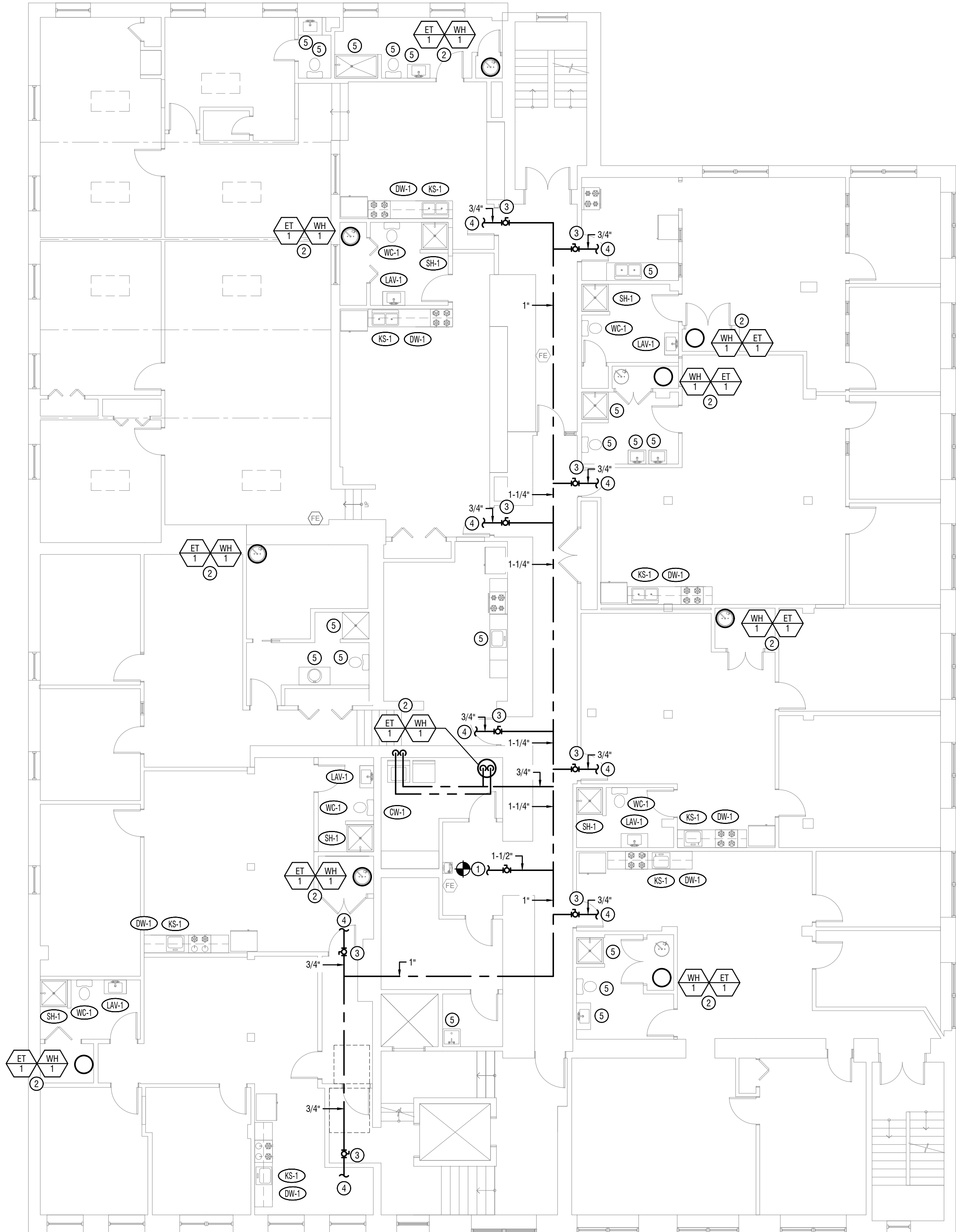
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PLUMBING FLOOR PLANS -
NEW DOMESTIC WATER

P-5



1 PLUMBING NEW PLAN DOMESTIC WATER - THIRD FLOOR
P-6 SCALE: 1/8" = 1'-0"

KEYED CONSTRUCTION NOTES

- CONNECT NEW DOMESTIC WATER FEED SERVING PLUMBING FIXTURES THIS FLOOR LEVEL TO EXISTING NEAREST ADEQUATELY SIZED WATER MAIN PIPING. FIELD VERIFY EXISTING PIPING LOCATIONS, SIZES, CONDITIONS, ETC. AND BEST POSSIBLE POINT OF NEW CONNECTION. PROVIDE SHUT-OFF VALVE AT POINT OF CONNECTION.
- WATER HEATER WITH EXPANSION TANK ON CW LINE MOUNTED ON DRAIN PAN. DRAIN PAN TO INDIRECTLY DRAIN TO NEAREST FLOOR DRAIN. REFER TO SCHEDULE AND DETAIL FOR MORE INFORMATION. COORDINATE WATER HEATER LOCATIONS, CLEARANCES WITHIN CLOSET, AND CLOSET SIZES WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- PROVIDE ACCESSIBLE SHUTOFF VALVE ON DOMESTIC WATER LINE SERVING INDIVIDUAL APARTMENT.
- CONNECT NEW APARTMENT DOMESTIC WATER LINE ABOVE CEILING LEVEL TO INDIVIDUAL FIXTURES AND WATER HEATER WITHIN APARTMENT. COORDINATE EXACT DOMESTIC COLD AND HOT WATER CONNECTION SIZES WITH PLUMBING FIXTURE SCHEDULE AND MANUFACTURER'S SPECIFICATIONS.

- EXISTING DOMESTIC WATER PIPING, VALVES, AND PLUMBING FIXTURES SHALL BE EVALUATED BY THE CONTRACTOR AND OWNER FOR CONDITION AND REUSE. REUSE EXISTING COMPONENTS WHERE ACCEPTABLE TO THE OWNER AND DETERMINED TO BE IN GOOD WORKING CONDITION. COMPONENTS DEEMED UNSUITABLE FOR REUSE SHALL BE REPLACED IN KIND. RECONNECT REUSED OR REPLACEMENT COMPONENTS TO EXISTING DOMESTIC WATER SYSTEMS AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION.

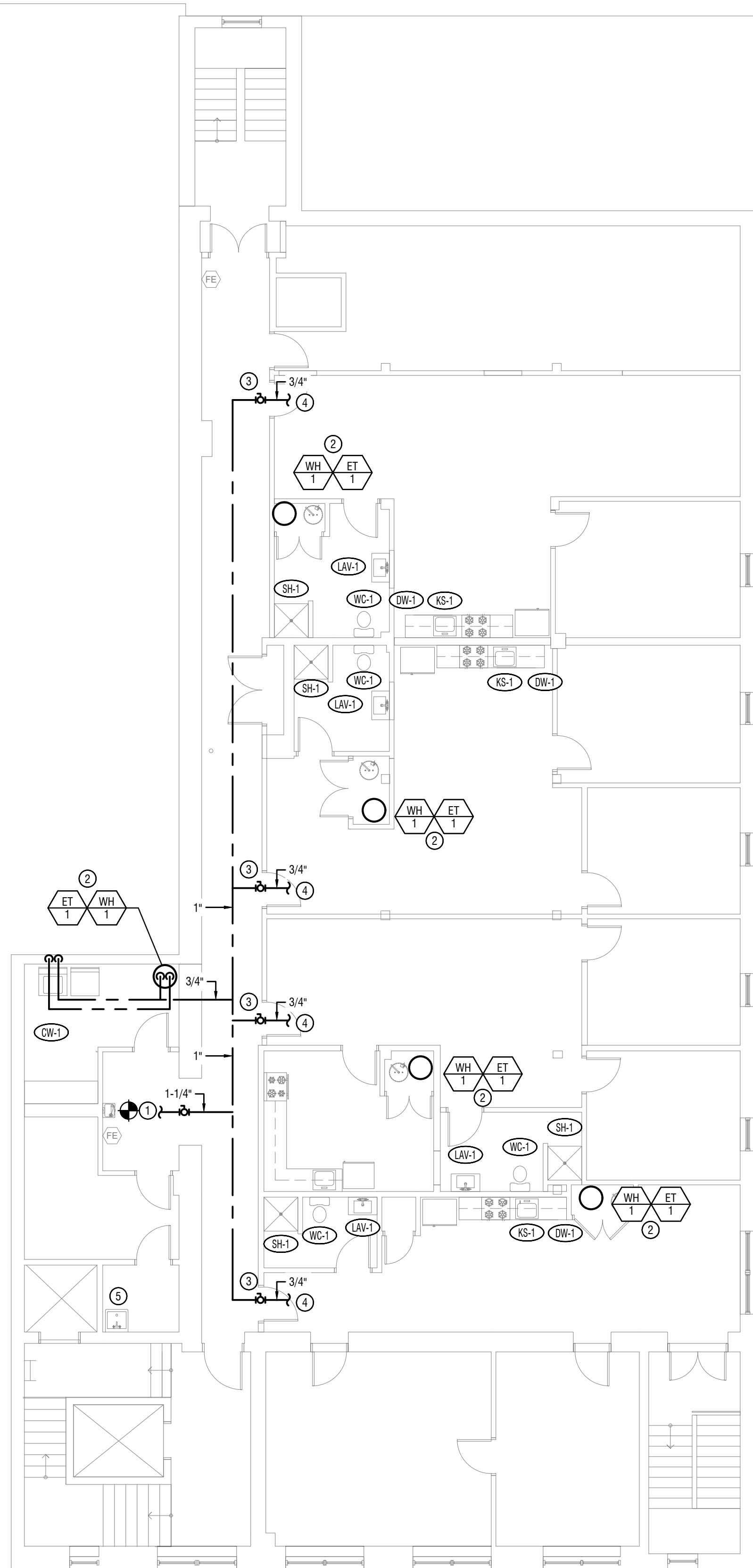
GENERAL CONSTRUCTION NOTES

- ALL DOMESTIC WATER LINES SHOWN ON THIS FLOOR PLAN TO BE INSTALLED ABOVE CEILING LEVEL, UNLESS OTHERWISE NOTED.
- ALL DOMESTIC WATER RISE/DROPS SHALL BE CONCEALED, UNLESS OTHERWISE DIRECTED BY THE OWNER/ARCHITECT. COORDINATE ANY REQUIRED NEW WALL FURDITS, WALL DIMENSIONS, PIPE CHASES, ETC. WITH OWNER, ARCHITECT, AND GC PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ADEQUATE HEATING IS PROVIDED IN AREAS INSTALLED WITH WATER PIPING. COORDINATE HEATED AREAS WITH MC AND OWNER PRIOR TO INSTALLATION.

- CONTRACTOR SHALL FULLY COORDINATE ANY REQUIRED DEMOLITION AND REPAIR OF EXISTING WALLS, CEILINGS, OR FLOORS FOR INSTALLATION OF NEW PLUMBING PIPING OR EQUIPMENT WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- PLUMBING CONTRACTOR SHALL THOROUGHLY EXAMINE ALL EXISTING PLUMBING FIXTURES TO BE REUSED PRIOR TO CONSTRUCTION. VERIFY EXISTING FIXTURE AND ASSOCIATED PIPING/ACCESSORIES ARE IN PROPER WORKING ORDER. INSPECT, CLEAN, AND REPAIR/REPLACE ANY CRACKED, LEAKING, DEFECTIVE FIXTURES OR PIPING AS REQUIRED.

DOMESTIC WATER PIPING WITHIN INDIVIDUAL APARTMENT UNITS IS NOT SHOWN IN ITS ENTIRETY. CONTRACTOR SHALL PROVIDE AND COORDINATE ALL REQUIRED HOT, COLD, AND REGULATION PIPING (WHERE APPLICABLE) FROM THE POINTS SHOWN ON THE DRAWINGS TO ALL PLUMBING FIXTURES, WATER HEATERS, AND OTHER DEVICES REQUIRING DOMESTIC WATER SERVICE WITHIN EACH UNIT. DOMESTIC WATER MAINS SERVING INDIVIDUAL APARTMENT UNITS SHALL BE 3/4-INCH MINIMUM UNLESS NOTED OTHERWISE. BRANCH PIPING TO INDIVIDUAL FIXTURES SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE PLUMBING FIXTURE SCHEDULE, MANUFACTURER'S REQUIREMENTS, APPLICABLE CODES, AND PROJECT CONDITIONS. CONTRACTOR SHALL COORDINATE FINAL ROUTING WITH ARCHITECTURAL, STRUCTURAL, AND OTHER TRADES PRIOR TO INSTALLATION.

2 PLUMBING NEW PLAN DOMESTIC WATER - FOURTH FLOOR
P-6 SCALE: 1/8" = 1'-0"



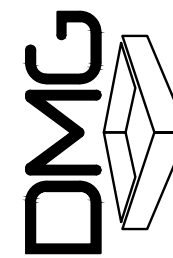
Client:

16-22 Union Street -
Apartment Building

Client: Empire Property Construction
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Wilkes-Barre, Pa 18701

Consultants:



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consulting engineers
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Date: 06/15/2026

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Sheet:

Checked: KJS
PLUMBING FLOOR PLANS -
NEW DOMESTIC WATER

P-6

1 PLUMBING NEW PLAN SANITARY AND VENT - FIRST FLOOR
SCALE: 1/8" = 1'-0"

KEYED CONSTRUCTION NOTES

- CONNECT NEW SANITARY PIPING BELOW FLOOR LEVEL TO NEAREST ADEQUATELY SIZED EXISTING SANITARY PIPING. FIELD VERIFY EXISTING SANITARY PIPING LOCATIONS, SIZES, CONDITIONS, INVERTS, ETC. PRIOR TO CONSTRUCTION.
- CONNECT NEW VENT PIPING ABOVE CEILING LEVEL TO NEAREST ADEQUATELY SIZED EXISTING VENT PIPING. FIELD VERIFY EXISTING VENT PIPING LOCATIONS, SIZES, CONDITIONS, INVERTS, ETC. PRIOR TO CONSTRUCTION.
- 3 INCH VENT RISE UP. COORDINATE FINAL ROUTING LOCATION AND CONCEALING REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- EXISTING SANITARY, WASTE, VENT PIPING, AND PLUMBING FIXTURES SHALL BE EVALUATED BY THE CONTRACTOR AND OWNER FOR CONDITION AND REUSE. REUSE EXISTING COMPONENTS WHERE ACCEPTABLE TO THE OWNER AND DETERMINED TO BE IN SERVICEABLE CONDITION. COMPONENTS DEEMED UNSUITABLE FOR REUSE SHALL BE REPLACED IN KIND. RECONNECT REUSED OR REPLACEMENT COMPONENTS TO EXISTING SANITARY AND VENT SYSTEMS AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION.

- ⑤ APPROXIMATE LOCATION OF EXISTING GRINDER PUMP AND BASIN FLUSH WITH FIRST FLOOR LEVEL. EXISTING AIR ADMITTANCE VALVE USED FOR BASIN VENTING TO BE REMOVED. EXTEND EXISTING VENT PIPING TO NEAREST ADEQUATELY SIZED VENT PIPING. FIELD VERIFY EXISTING VENT PIPING SIZE, LOCATION, CONDITIONS, ETC. PRIOR TO CONSTRUCTION.

GENERAL CONSTRUCTION NOTES

- ALL DRAINAGE PIPING 2-1/2" DIAMETER AND SMALLER TO BE PITCHED AT MINIMUM OF 1/4" PER FOOT, 3" TO 6" DIAMETER AT 1/8" PER FOOT, AND 8" AND LARGER AT 1/16" PER FOOT.
- COORDINATE ANY REQUIRED SAW CUTTING, FLOOR REMOVAL, TRENCHING, PAINTING, PATCHING, FINISHING OF FLOOR, ETC. FOR INSTALLATION OF SANITARY LINES BELOW FLOOR LEVEL WITH OWNER, ARCHITECT, AND G.C. PRIOR TO CONSTRUCTION.
- ALL VENT PIPING TO BE INSTALLED ABOVE CEILING LEVEL, UNLESS OTHERWISE NOTED. ALL SANITARY PIPING TO BE INSTALLED BELOW FLOOR LEVEL, UNLESS OTHERWISE NOTED.

- ALL PLUMBING PIPE RISE/DROPS SHALL BE CONCEALED, UNLESS OTHERWISE DIRECTED BY THE OWNER/ARCHITECT. COORDINATE ANY REQUIRED DEMOLITION/REPAIR OF EXISTING WALLS, NEW WALL FUROUTS, PIPE CHASES, ETC. WITH OWNER, ARCHITECT, AND GC PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VERIFY EXISTING SANITARY LINES LOCATION, SIZE, INVERT, CONDITION, ETC. PRIOR TO CONSTRUCTION. REPAIR/REPLACE ANY PIPING DEEMED IN NEED OF REPAIR AS REQUIRED.
- ALL EXISTING SANITARY PIPING TO BE REUSED SHALL BE VIDEO SCOPED TO ENSURE ADEQUATE CONDITION FOR PROPER OPERATION WITH NEW CONNECTED FIXTURES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY EXISTING SANITARY PIPING LOCATIONS, SIZES, CONDITIONS, INVERT, ETC. AND INSPECT PIPING FOR ANY CLOGS, SAGS, CRACKS, DEFECTS, ETC. PRIOR TO CONSTRUCTION.
- ALL EXISTING PLUMBING FIXTURES AND SANITARY WASTE/VENT PIPING TO BE REUSED SHALL BE FIELD VERIFIED TO BE IN SOUND CONDITION, PROPERLY SLOPED, VENTED, SEALED AND FREE FROM LEAKS, AND INSTALLED IN STRICT ACCORDANCE WITH THE CURRENT IPC.

SANITARY WASTE AND VENT PIPING IS SHOWN SCHEMATICALLY AND IS NOT INDICATED IN ITS ENTIRETY. BREAK LINES ARE PROVIDED FOR CLARITY ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SANITARY, WASTE, AND VENT PIPING SIZES, ELEVATIONS, ROUTING, CAPACITIES, CONNECTION POINTS, AND CONDITIONS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, OFFSETS, TRANSITIONS, AND CONNECTIONS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. FINAL ROUTING AND EXACT POINTS OF CONNECTION TO EXISTING SYSTEMS SHALL BE FIELD COORDINATED. EXISTING PIPING ACCEPTABLE FOR REUSE SHALL REMAIN AND BE REUSED WHERE POSSIBLE. PIPING DETERMINED TO BE DAMAGED, DETERIORATED, OR UNSUITABLE FOR REUSE SHALL BE REPLACED IN KIND AND CONNECTED TO THE EXISTING SYSTEM AS REQUIRED.

2 PLUMBING NEW PLAN SANITARY AND VENT - SECOND FLOOR
SCALE: 1/8" = 1'-0"

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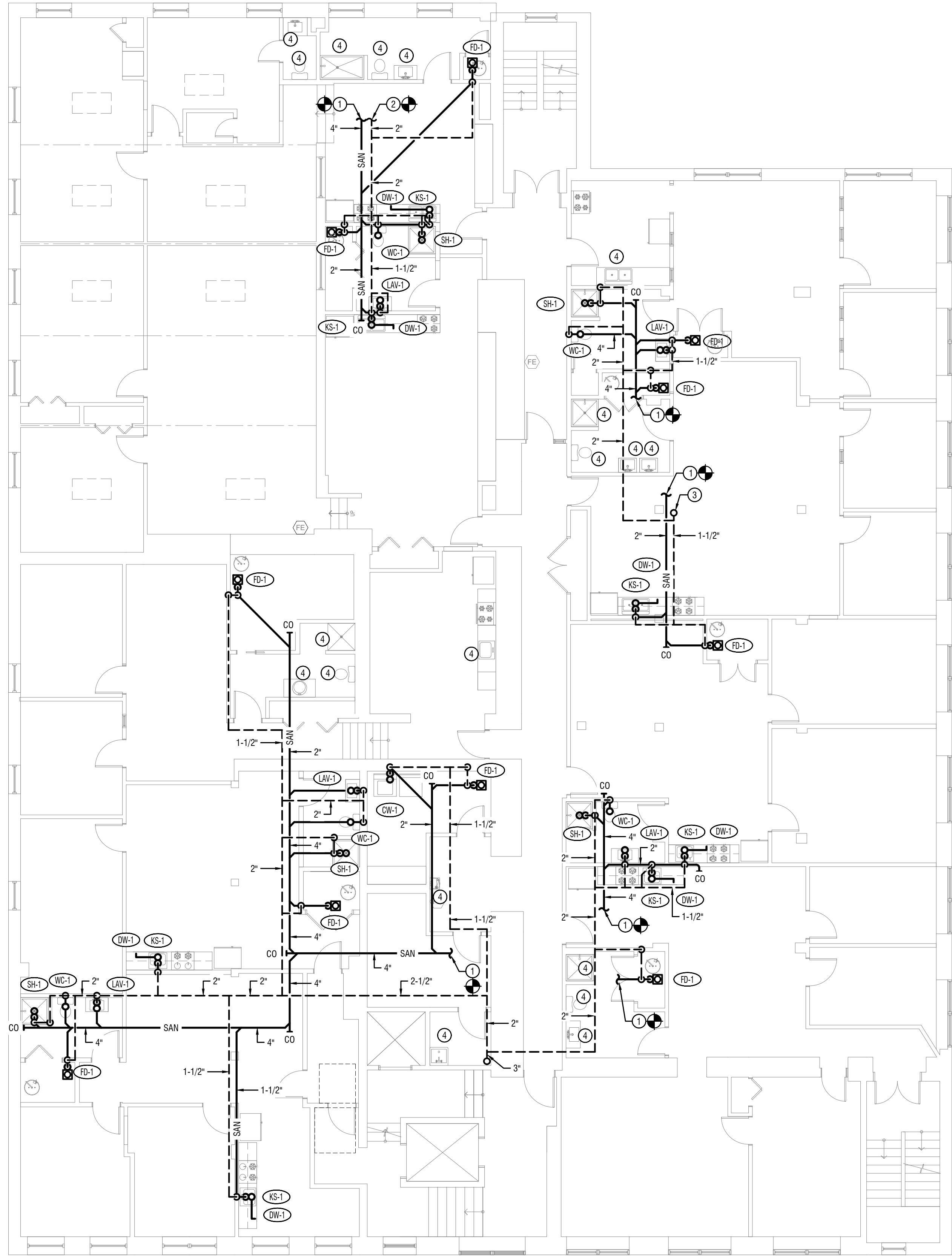
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Sheet: PLUMBING FLOOR PLANS - NEW SANITARY AND VENT
P-7



1 PLUMBING NEW PLAN SANITARY AND VENT - THIRD FLOOR
SCALE: 1/8" = 1'-0"

KEYED CONSTRUCTION NOTES

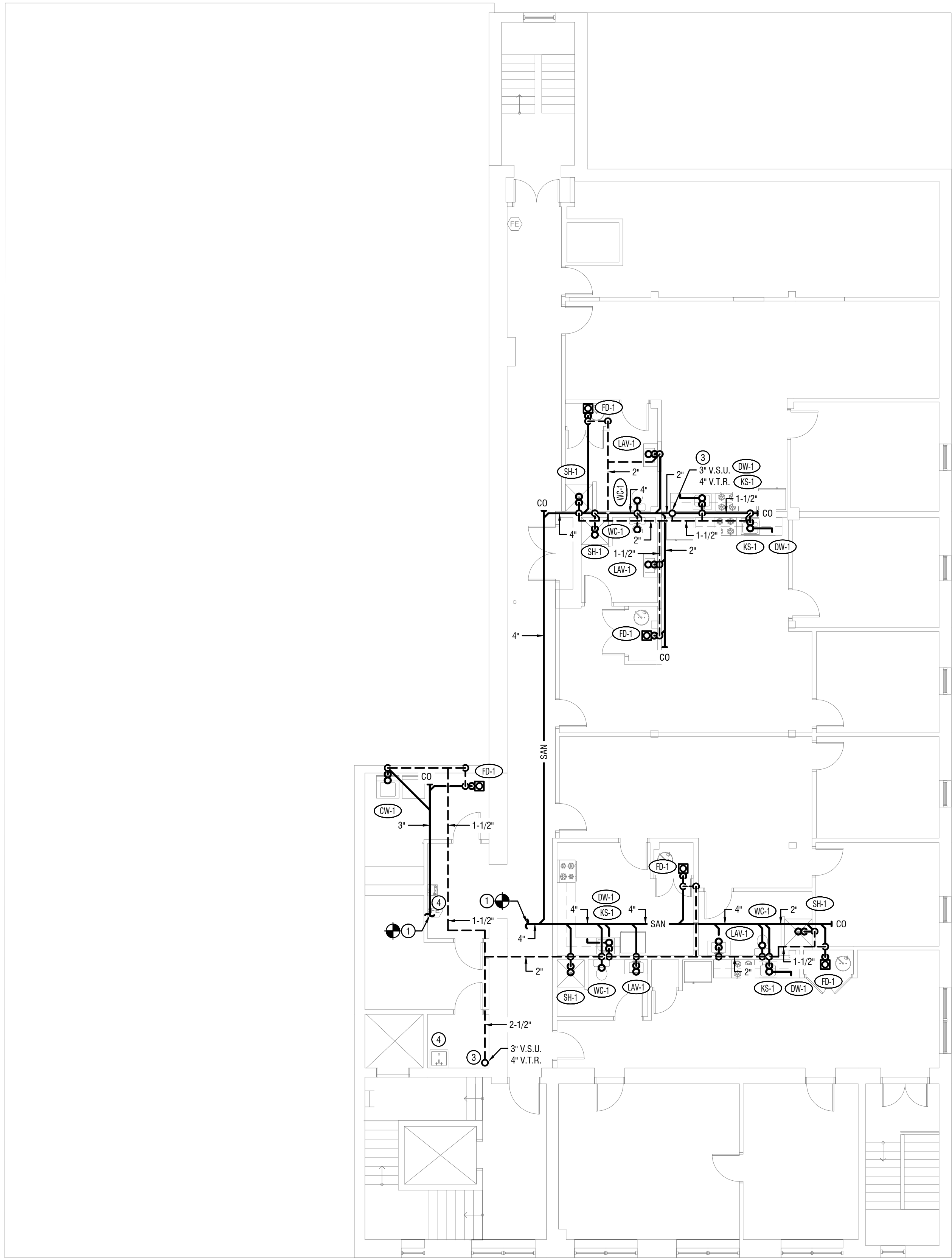
- CONNECT NEW SANITARY PIPING BELOW FLOOR LEVEL TO NEAREST ADEQUATELY SIZED EXISTING SANITARY PIPING. FIELD VERIFY EXISTING SANITARY PIPING LOCATIONS, SIZES, CONDITIONS, INVERTS, ETC. PRIOR TO CONSTRUCTION.
- CONNECT NEW VENT PIPING ABOVE CEILING LEVEL TO NEAREST ADEQUATELY SIZED EXISTING VENT PIPING. FIELD VERIFY EXISTING VENT PIPING LOCATIONS, SIZES, CONDITIONS, INVERTS, ETC. PRIOR TO CONSTRUCTION.
- VENT RISE UP FROM FLOOR BELOW. COORDINATE FINAL ROUTING LOCATION AND CONCEALING REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- EXISTING SANITARY, WASTE, VENT PIPING, AND PLUMBING FIXTURES SHALL BE EVALUATED BY THE CONTRACTOR AND OWNER FOR CONDITION AND REUSE. REUSE EXISTING COMPONENTS WHERE ACCEPTABLE TO THE OWNER AND DETERMINED TO BE IN SERVICEABLE CONDITION. COMPONENTS DEEMED UNSUITABLE FOR REUSE SHALL BE REPLACED IN KIND, RECONNECT REUSED OR REPLACEMENT COMPONENTS TO EXISTING SANITARY AND VENT SYSTEMS AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION.

GENERAL CONSTRUCTION NOTES

- ALL DRAINAGE PIPING 2-1/2" DIAMETER AND SMALLER TO BE PITCHED AT MINIMUM OF 1/4" PER FOOT, 3" TO 6" DIAMETER AT 1/8" PER FOOT, AND 8" AND LARGER AT 1/16" PER FOOT.
- COORDINATE ANY REQUIRED SAW CUTTING, FLOOR REMOVAL, TRENCHING, PAINTING, PATCHING, FINISHING OF FLOOR, ETC. FOR INSTALLATION OF SANITARY LINES BELOW FLOOR LEVEL WITH OWNER, ARCHITECT, AND G.C. PRIOR TO CONSTRUCTION.
- ALL VENT PIPING TO BE INSTALLED ABOVE CEILING LEVEL, UNLESS OTHERWISE NOTED. ALL SANITARY PIPING TO BE INSTALLED BELOW FLOOR LEVEL, UNLESS OTHERWISE NOTED.
- ALL PLUMBING PIPE RISE/DROPS SHALL BE CONCEALED, UNLESS OTHERWISE DIRECTED BY THE OWNER/ARCHITECT. COORDINATE ANY REQUIRED DEMOLITION/REPAIR OF EXISTING WALLS, NEW WALL FURROUTS, PIPE CHASES, ETC. WITH OWNER, ARCHITECT, AND GC PRIOR TO CONSTRUCTION.

- CONTRACTOR SHALL VERIFY EXISTING SANITARY LINES LOCATION, SIZE, INVERT, CONDITION, ETC. PRIOR TO CONSTRUCTION. REPAIR/REPLACE ANY PIPING DEEMED IN NEED OF REPAIR AS REQUIRED.
- ALL EXISTING SANITARY PIPING TO BE REUSED SHALL BE VIDEO SCOPED TO ENSURE ADEQUATE CONDITION FOR PROPER OPERATION WITH NEW CONNECTED FIXTURES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY EXISTING SANITARY PIPING LOCATIONS, SIZES, CONDITIONS, INVERT, ETC. AND INSPECT PIPING FOR ANY CLOGS, SAGS, CRACKS, DEFECTS, ETC. PRIOR TO CONSTRUCTION.
- ALL EXISTING PLUMBING FIXTURES AND SANITARY WASTE/VENT PIPING TO BE REUSED SHALL BE FIELD VERIFIED TO BE IN SOUND CONDITION, PROPERLY SLOPED, VENTED, SEALED AND FREE FROM LEAKS, AND INSTALLED IN STRICT ACCORDANCE WITH THE CURRENT IPC.

SANITARY WASTE AND VENT PIPING IS SHOWN SCHEMATICALLY AND IS NOT INDICATED IN ITS ENTIRETY. BREAK LINES ARE PROVIDED FOR CLARITY ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SANITARY, WASTE, AND VENT PIPING SIZES, ELEVATIONS, ROUTING, CAPACITIES, CONNECTION POINTS, AND CONDITIONS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, OFFSETS, TRANSITIONS, AND CONNECTIONS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. FINAL ROUTING AND EXACT POINTS OF CONNECTION TO EXISTING SYSTEMS SHALL BE FIELD COORDINATED. EXISTING PIPING ACCEPTABLE FOR REUSE SHALL REMAIN AND BE REUSED WHERE POSSIBLE. PIPING DETERMINED TO BE DAMAGED, DETERIORATED, OR UNSUITABLE FOR REUSE SHALL BE REPLACED IN KIND AND CONNECTED TO THE EXISTING SYSTEM AS REQUIRED.



2 PLUMBING NEW PLAN SANITARY AND VENT - FOURTH FLOOR
SCALE: 1/8" = 1'-0"

Revisions | Issues

No: Date:

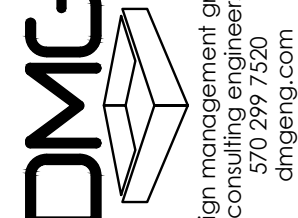
Phase: PERMIT/PRICING

Project: Apartment Building
Date: 06/15/2026
Drawn: NW
Scale: AS NOTED
Sheet: KJS

PLUMBING FLOOR PLANS -
NEW SANITARY AND VENT

P-8

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MAXIMUM HANGER SPACING PER IPC		
ITEM	MAXIMUM HORIZONTAL SPACING (FT.)	MAXIMUM VERTICAL SPACING (FT.)
ABS PIPE	4	10
ALUMINUM TUBING	10	15
BRASS PIPE	10	10
CAST IRON	5	15
COPPER OR COPPER-ALLOY PIPE	12	15
COPPER OR COPPER-ALLOY TUBING 1 1/4" DIAMETER OR SMALLER	6	10
COPPER OR COPPER-ALLOY TUBING 1 1/2" DIAMETER OR LARGER	10	10
CROSS-LINKED POLYETHYLENE (PEX) PIPE	2.67 (32 INCHES)	10
CROSS-LINKED POLYETHYLENE/ALUMINUM/CROSS-LINKED POLYETHYLENE (PEX-AL-PEX) PIPE (PEX) PIPE	2.67 (32 INCHES)	4
CPVC PIPE OR TUBING, 1" OR SMALLER	3	10
CPVC PIPE OR TUBING, 1 1/4" OR LARGER	4	10
STEEL PIPE	12	15
PB PIPE OR TUBING	2.67	4
POLYETHYLENE/ALUMINUM/POLYETHYLENE (PE-AL-PE) PIPE	2.67	4
POLYPROPYLENE (PP) PIPE OR TUBING 1" OR SMALLER	2.67	10
POLYPROPYLENE (PP) PIPE OR TUBING 1 1/4" OR LARGER	4	10
PVC PIPE	4	10
STAINLESS STEEL DRAINAGE SYSTEMS	10	10
NOTES: 1. PIPE HANGERS SHALL ENCIROLE PIPE INSULATION. 2. PROVIDE MAXIMUM HANGER SPACING AS PER THE SCHEDULE ABOVE OF PER SPECIFICATIONS WHICH EVER IS MORE STRINGENT.		

PLUMBING FIXTURE INSULATION SCHEDULE				
PIPING	INSULATION TYPE	INSULATION THICKNESS		NOTES
		LESS THAN 1 1/2" DIA.	1 1/2" DIA. AND LARGER	
DOMESTIC COLD WATER	FIBERGLASS	1/2"	1"	1, 2, 3, 4, & 5
DOMESTIC HOT WATER	FIBERGLASS	1"	1 1/2"	1, 2, 3, 4, & 5
DOMESTIC HOT WATER RETURN	FIBERGLASS	1"	1 1/2"	1, 2, 3, 4, & 5
NOTES: 1. INSULATE PIPING PER SECTION OF THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC). CONDUCTIVITY NOT TO EXCEED 0.27 BTU PER/IN*FT2*F". 2. INSULATION SHALL BE APPLIED BY AN EXPERIENCED PERSONNEL IN ACCORDANCE WITH BEST TRADE PRACTICE GUIDED BY MANUFACTURER'S PRINTED INSTALLATION INSTRUCTION/DIRECTIONS 3. INSULATION SHALL BE MANVILLE MICRO-LOK FIBERGLASS PIPE INSULATION TYPE AP-T OR APPROVED EQUAL. 4. ALL INSULATION JACKETS, FACING AND ADHESIVES USED TO ADHERE JACKET OR FACING TO THE INSULATION, INCLUDING FITTING AND BUTT STRIPS SHALL HAVE NON-COMBUSTIBLE FIRE AND SMOKE HAZARD RATING AND LABEL AS TESTED BY ASTM-84-91A, NFPA 255 AND UL 723 NOT EXCEEDING FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50. 5. FITTING AND VALVES SHALL BE INSULATED WITH MANVILLE FACTORY PERCUT HI-LO TEMP FIBERGLASS INSULATION AND ZESTON 25/50 RATED CVC INSULATION FITTING COVERS. EPOLUX 670 WHITE VAPOR BARRIER COATING, OR APPROVED EQUAL, SHALL BE APPLIED AROUND THE EDGES OF THE ADJOINING PIPE INSULATION AND ON THE FITTING COVER THROAT OVERLAP SEAM. THE FITTING COVER SHALL BE SECURED WITH PRESSURE SENSITIVE PEARL GRAY Z-TAPE ALONG THE CIRCUMFERENTIAL EDGES. THE TAPE SHALL EXTEND ALL OVER THE ADJACENT PIPE INSULATION WITH AN OVERLAP ON ITSELF OF 2". ALL INSULATION MATERIAL SHALL COMPLY WITH THE NEW WORK BUILDING CODE REQUIREMENTS.				

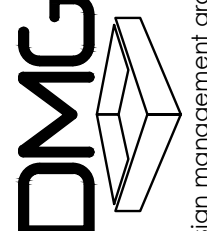
PLUMBING FIXTURE SCHEDULE												
TAG	FIXTURE	FIXTURE		C.W.	H.W.	W.	TRAP	V.	TRIM	TRIM		SPECIFICATION
		MODEL	MODEL							MANUFACTURER	MODEL	
WC-1	WATER CLOSET ADA (FLUSH TANK)	AMERICAN STD.	270AA.001	1/2"	-	4"	-	2"	SEAT	AMERICAN STD.	5905.100SS	FLUSH TANK ELONGATED VITREOUS CHINA TOILET. LOW CONSUMPTION (1.6 GPF), CADET FLUSHING SYSTEM, EVERCLEAN SURFACE, CHROME FINISH TRIP LEVER. ELONGATED HEAVY DUTY BOWL. OPEN FRONT SEAT LESS COVER WITH SELF SUSTAINING HINGE. MOUNTED AT ADA COMPLAINT HEIGHT.
LAV-1	COUNTERTOP LAVATORY ADA	AMERICAN STD.	0476.028	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	FAUCET	AMERICAN STD.	7508201.002	COUNTERTOP VITREOUS CHINA SINK, SELF-RIMMING WITH CUTOUT TEMPLATE SUPPLIED. FRONT OVERFLOW, FAUCET LEDGE. NOMINAL DIMENSIONS 20-3/8" X 17-3/8". MANUAL CONTROL. CENTERSET LAVATORY FAUCET ON 4" CENTERS. METAL LEVER HANDLES, POP-UP DRAIN, POLISHED CHROME FINISH. 1.2 GPM MAXIMUM FLOW RATE.
SH-1	SHOWER UNIT	-	-	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	-	-	-	COORDINATE PURCHASE/SPECIFICATION OF FIXTURE AND TRIM WITH OWNER AND ARCHITECT. PLUMBING SUPPLIES TO BE INSTALLED BY PC.
KS-1	KITCHEN SINK	AMERICAN STD.	18SB6231800S.075	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	FAUCET	AMERICAN STD.	4332.350.F15	22" X 16" ADA SINGLE BOWL, 18 GAUGE STAINLESS STEEL KITCHEN SINK, 6" DEPTH WITH OFFSET DRAIN, UNDERMOUNT INSTALLATION, LIMITED LIFETIME WARRANTY. FAUCET SHALL BE SINGLE CONTROL KITCHEN FAUCET, SEMI-PROFESSIONAL, FORGED BRASS BODY WITH BRASS SWIVEL SPOUT (150° ROTATION) AND SWING ARM. METAL LEVER HANDLE. PULL-DOWN SPRAY WITH ADJUSTABLE SPRAY PATTERN AND PUSH BUTTON ACTIVATION. METAL REINFORCED HOSE WITH STAINLESS STEEL PROTECTOR COIL. WASHERLESS 40MM CERAMIC DISC VALVE CARTRIDGE. BRASS MOUNTING SHANK WITH BRASS FIXATION RING. COMPLETE WITH TWO INTEGRAL CHECK VALVES. BRAIDED FLEXIBLE SUPPLY HOSES WITH 3/8" COMPRESSION CONNECTORS
MS-1	JANITORS SINK/MOP BASIN	ACORN	TDF-24	3/4"	3/4"	3"	3"	2"	FAUCET	AMERICAN STANDARD	8351.076	MOP SINK SHALL BE MADE OF PRECAST TERAZZO TO PRODUCE A COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI SEVEN DAYS AFTER CASTING. ALL EXPOSED SURFACES SHALL BE GROUND SMOOTH AND SEALED. NO AIR HOLES OR PITS SHALL BE ALLOWED ON THE FINISHED SURFACE. SINK SHALL HAVE COVERED CORNERS AND BE PITCHED TO THE DRAIN OUTLET FOR POSITIVE DRAINAGE. INTEGRAL DRAIN SHALL HAVE A STAINLESS STEEL STRAINER AND PROVIDE FOR AN INSIDE CAULKED CONNECTION TO A 3" PIPE. 3" CAST BRASS SPOUT, EXPOSED YOKE WALL-MOUNT UTILITY FAUCET SHALL FEATURE A CAST BRASS BODY WITH INTEGRAL STOPS. CAST BRASS SPOUT WITH BUCKET HOOK AND VANDAL-RESISTANT METAL LEVER HANDLES. SHALL ALSO FEATURE A 1/4 TURN WASHERLESS CERAMIC DISC VALVE CARTRIDGES.
DW-1	DISHWASHER	-	-	-	1/2"	1 1/2"	1 1/2"	1 1/2"	-	-	-	COORDINATE SPECIFICATION AND PURCHASE OF FIXTURE WITH OWNER AND ARCHITECT. PLUMBING SUPPLIES TO BE INSTALLED BY PC.
CW-1	CLOTHES WASHER	-	-	1/2"	1/2"	2"	2"	1 1/2"	OUTLET BOX	SIOUX CHIEF	696	COORDINATE SPECIFICATION AND PURCHASE OF FIXTURE WITH OWNER AND ARCHITECT. PLUMBING SUPPLIES TO BE INSTALLED BY PC. PROVIDE WASHING MACHINE BOX MOUNTED WITHIN WALL BEHIND FIXTURE. UNIT SHALL ALLOW FOR MOUNTING WITH SUPPLY LINES FROM TOP OR BOTTOM, ON-STUD OR BETWEEN-STUDS. SUPPLY AND DRAIN BOXES CAN BE CONNECTED USING PROVIDED GALVANIZED U-CLIP OR SEPARATED AS DESIRED. SUPPLY BOX CAN BE INVERTED. ARRESTER VARIATIONS CAN BE INSTALLED WITH ARRESTERS AT ANY ANGLE. UNIT SHALL BE AVAILABLE WITH 1/4-TURN VALVES. METAL SUPPORT BRACKET SHALL INSTALL INTO TOP/BOTTOM TRACKS OF BOX.
FD-1	FLOOR DRAIN (GENERAL USE, SHOWER)	JAY R. SMITH	2005	-	-	2"	2"	1 1/2"	-	-	-	GENERAL SERVICE FLOOR DRAIN FOR USE IN SHOWERS, TOILETS, KITCHENS AND OTHER FINISHED AREAS WHERE FOOT TRAFFIC IS EXPECTED. THE ROUND TOP STRAINER HEAD IS USED FOR ALL TYPES OF POURED FINISHED FLOORS. THE SQUARE TOP IS PARTICULARLY ADAPTABLE TO FLOORS THAT ARE FINISHED IN MATERIAL OF SQUARE OR STRAIGHT LINE PATTERN. REVERSIBLE FLASHING COLLAR PERMITS ADJUSTMENT OF THE STRAINER TO MEET FINISHED FLOOR LEVEL.
FCO	FLOOR CLEANOUT	JAY R. SMITH	4020	-	-	VARIES	VARIES	-	-	-	-	DUCC CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED NICKEL BRONZE TOP WITH BRONZE CLOSURE PLUG.
NOTES: 1. ALL FIXTURES SHALL BE PROVIDED WITH SUPPLIES AND STOPS. PROVIDE DRAINS, STRAINERS, TRAPS AND TAIL PIECES AS REQUIRED. WHERE ADA ACCESSIBILITY IS INDICATED, PROVIDE OFFSET TAIL PIECES. ALL EXPOSED TRAP AND DRAIN PIPING SHALL BE INSULATED OR PROVIDED WITH AN INSULATED SHROUDING SYSTEM AS MANUFACTURED BY TRUBERO OR EQUAL. 2. WATER CLOSETS SHALL BE PROVIDED WITH MATCHING SEATS WITH SELF SUSTAINING CHECK HINGES AND ANTI-MICROBIAL COATINGS 3. FLOOR DRAINS SHALL BE PROVIDED WITH TRAPS AND TRAP SEALS UNLESS A PRIMING SYSTEM IS EXPLICITLY INDICATED ON THE DRAWINGS. 4. ALL WALL HUNG FIXTURES SHALL BE PROVIDED WITH THE APPROPRIATE CARRYING DEVICE AS MANUFACTURED BY JAY R. SMITH OR EQUAL. 5. PROVIDE ACORN ST70 ASSE ANTI-SCALD VALVES (TEMPERED WATER/ MAX 110 °F) ON ALL HOT WATER FIXTURES EXCEPT FOR KITCHEN EQUIPMENT, MOP AND SERVICE SINKS, SPECIAL CLEANING DEVICES (HOT WATER HOSE BIBS OR HYDRANTS), OR LAUNDRY EQUIPMENT. 6. COORDINATE FINAL SELECTIONS AND FINISHES OF ALL PLUMBING FIXTURES WITH OWNER AND ARCHITECT PRIOR TO PURCHASE.												

THERMAL EXPANSION TANK SCHEDULE							
TAG	BASIS OF DESIGN		SERVICE ZONE	ACCEPTABLE VOLUME	CONNECTION SIZE	SIZE DIA." x H"	NOTES
	MANUFACTURER	MODEL					
ET-1	AMTROL	ST-12	WH-1, WH-2	3.2 GAL	3/4"	12x8	1,2,3,4
NOTES: 1. CONSTRUCTION SHALL BE FACTORY FABRICATED STEEL, WELDED TO TANK BEFORE TESTING AND LABELING. INCLUDING ASME B1.20.1, PIPE THREAD. 2. COMPLY WITH NSF 61 BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS, INCLUDING EXTENDING FINISH INTO AND THROUGH TANK FITTINGS. 3. FACTORY INSTALLED AIR CHARGING VALVE. 4. WORKING PRESSURE RATING 150 PSIG, AIR PRECHARGE PRESSURE: 55 PSIG							

ELECTRIC WATER HEATER SCHEDULE										
TAG	BASIS OF DESIGN		TYPE	TANK CAPACITY	TOTAL WATTAGE INPUT (KW)	RECOVERY GPH @ TEMP RISE °F	CONNECTIONS		VOLTS/PH/Hz	NOTES
	MANUFACTURER	MODEL					INLET	OUTLET		
WH-1	AO SMITH	DEN-52	STORAGE	55	4.5	18 GPH @ 100 °F	3/4"	3/4"	208/1/60	1,2,3,4,5
NOTES: 1. FURNISHED WITH ALL STANDARD EQUIPMENT INCLUDING TEMPERATURE AND PRESSURE (T&P) RELIEF VALVE. 2. THE HEATER WILL BE FACTORY ASSEMBLED AND TESTED REQUIRING ONLY CONNECTIONS TO THE ELECTRIC AND PLUMBING SYSTEM. 3. THE HEATER WILL HAVE (2) IMMERSION HEATING ELEMENTS. WATER HEATERS WH-1 AND WH-2 HEATING ELEMENTS SHALL BE WIRED TO OPERATE NON SIMULTANEOUSLY, WHILE WH-3 SHALL BE WIRED TO OPERATE SIMULTANEOUSLY. COORDINATE WIRING WITH MANUFACTURER AND E.C. PRIOR TO PURCHASE. 4. PROVIDE ACORN MV-17-1 (TMV-1) MASTER MIXING VALVE ROUGH BRONZE WITH ALL STANDARD EQUIPMENT INCLUDING PARAFFIN COPPER ACTUATOR, HEAVY DUTY COMBINATION STRAINER, CHECKSTOPS AND TAMPER RESISTANT TEMPERATURE ADJUSTABLE CONTROL. 5. VERIFY TEMPERATURE SETTING WITH OWNER (SET TO DELIVER 110°F WATER TEMPERATURE).										

Client: **16-22 Union Street - Apartment Building**
Client: Empire Property Construction
16-22 Union St.
Wilkes-Barre, Pa 18701

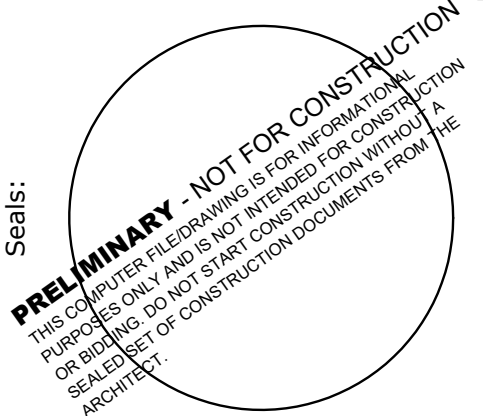
Consultants:



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consulting engineers
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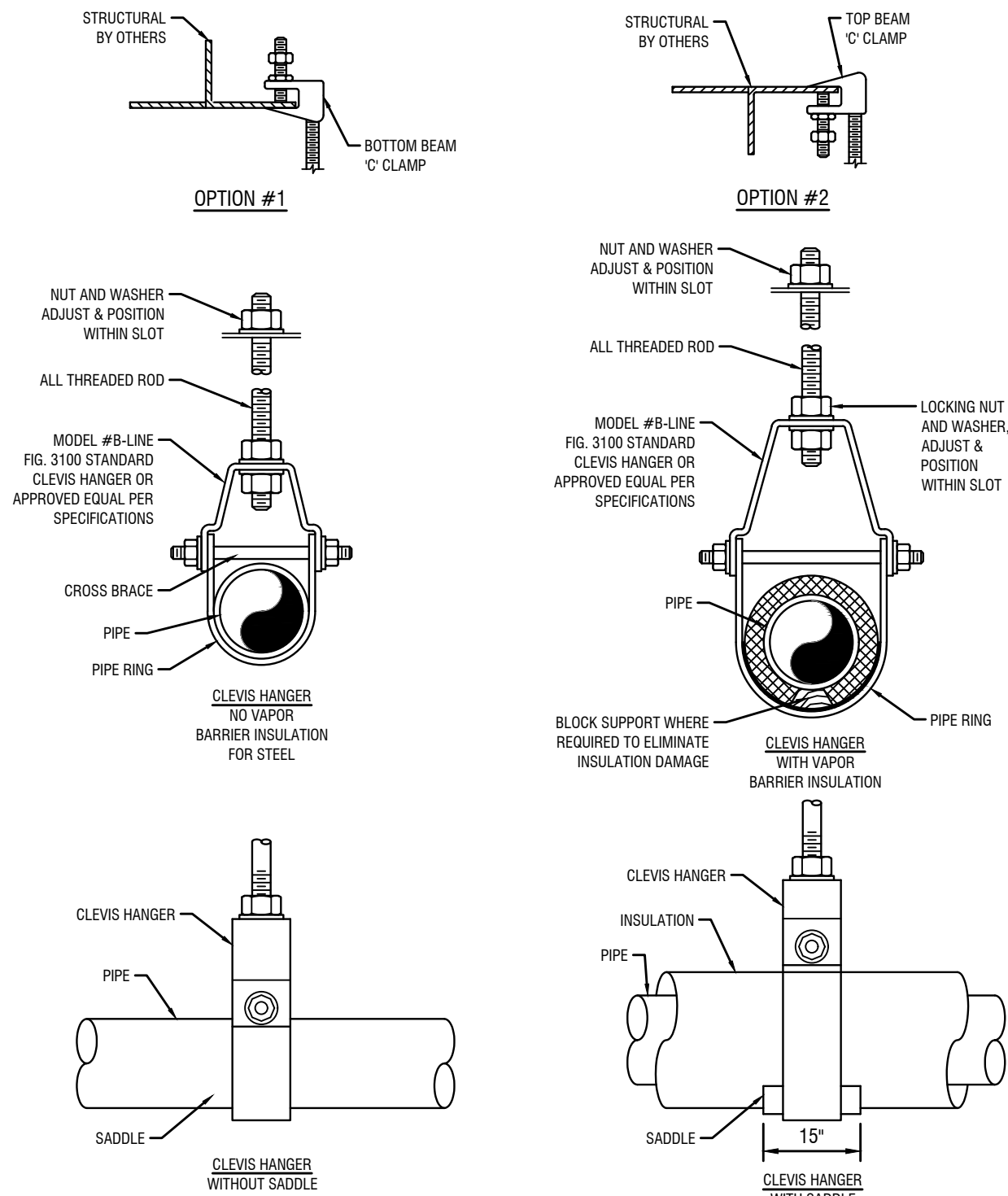
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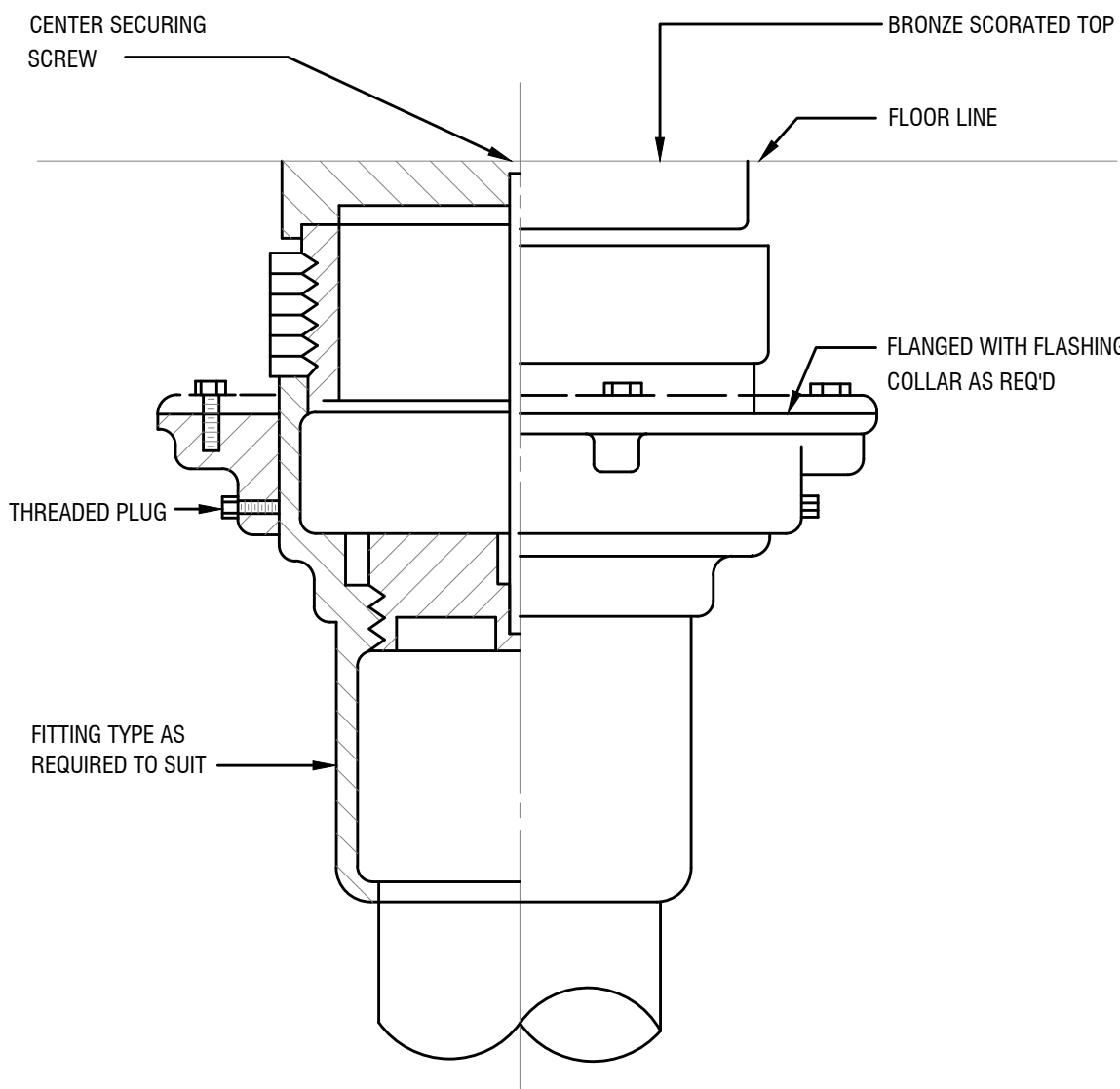
Phase:
PERMIT/PRICING

Project: Apartment Building
Date: 06/15/2026
Drawn: NW Checked: KJS
Scale: AS NOTED
Sheet: PLUMBING SCHEDULES

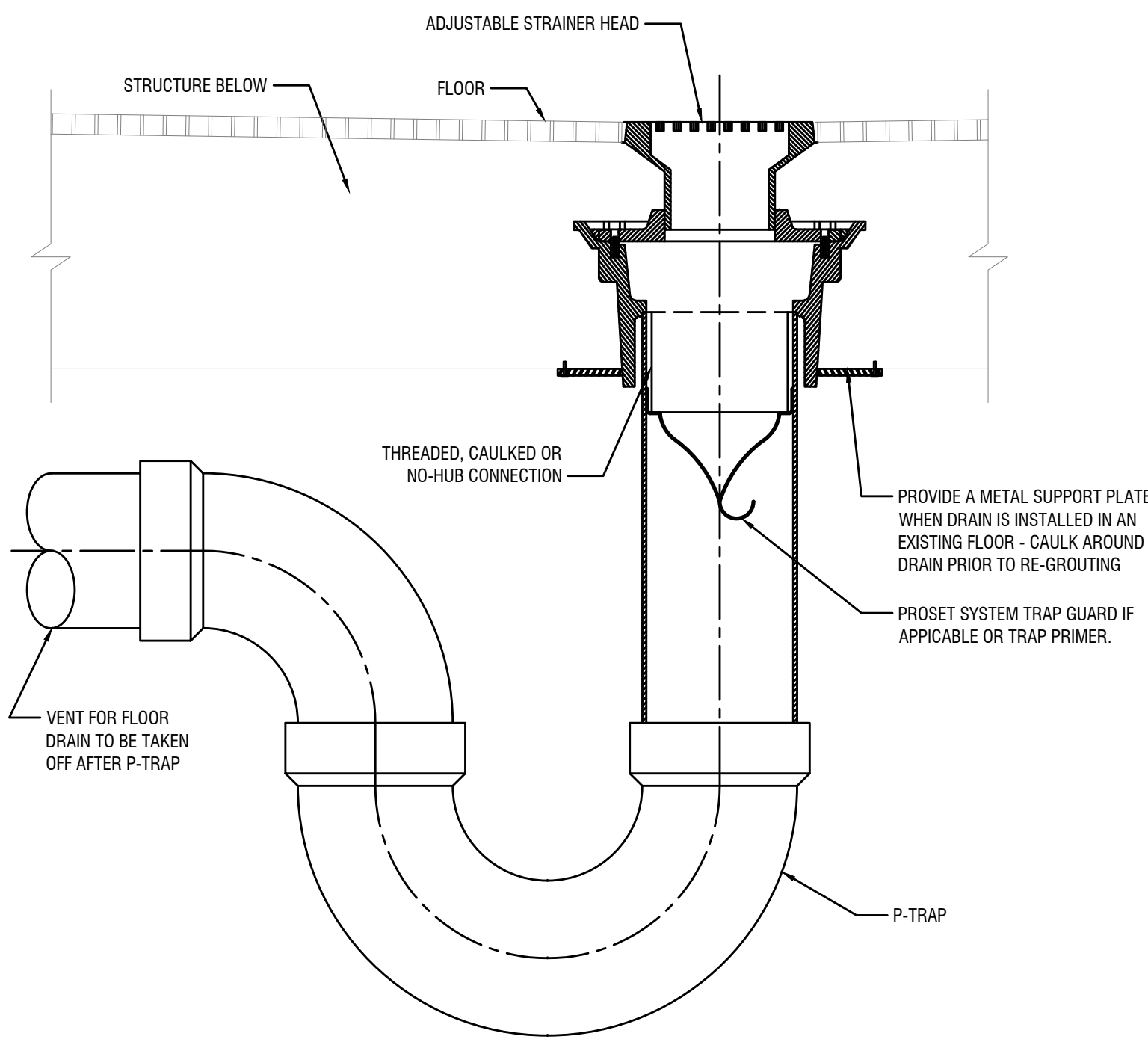
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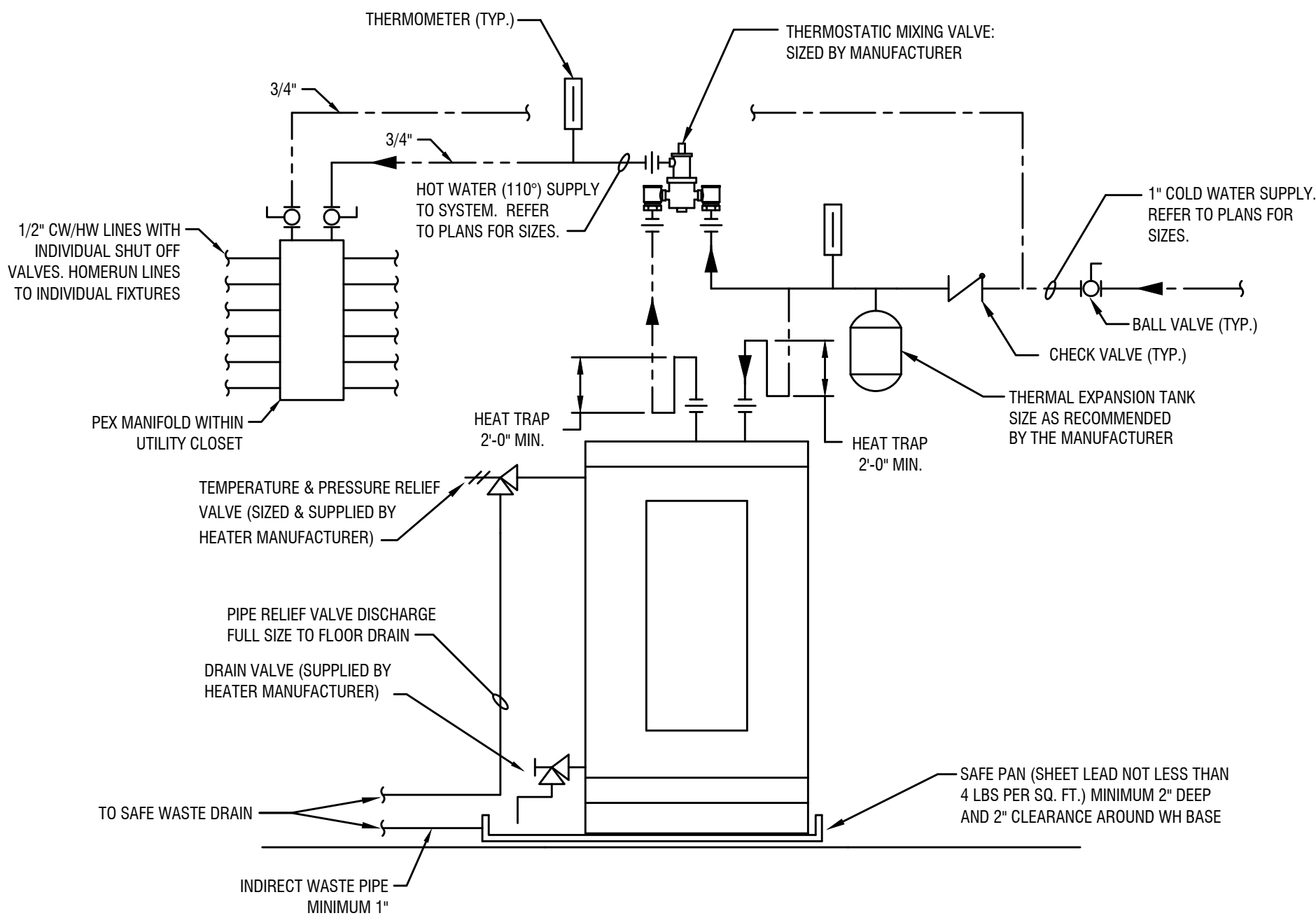
1 TYPICAL SUSPENDED PIPE HANGER DETAIL (JOIST/BEAM)
P-10 SCALE: NOT TO SCALE



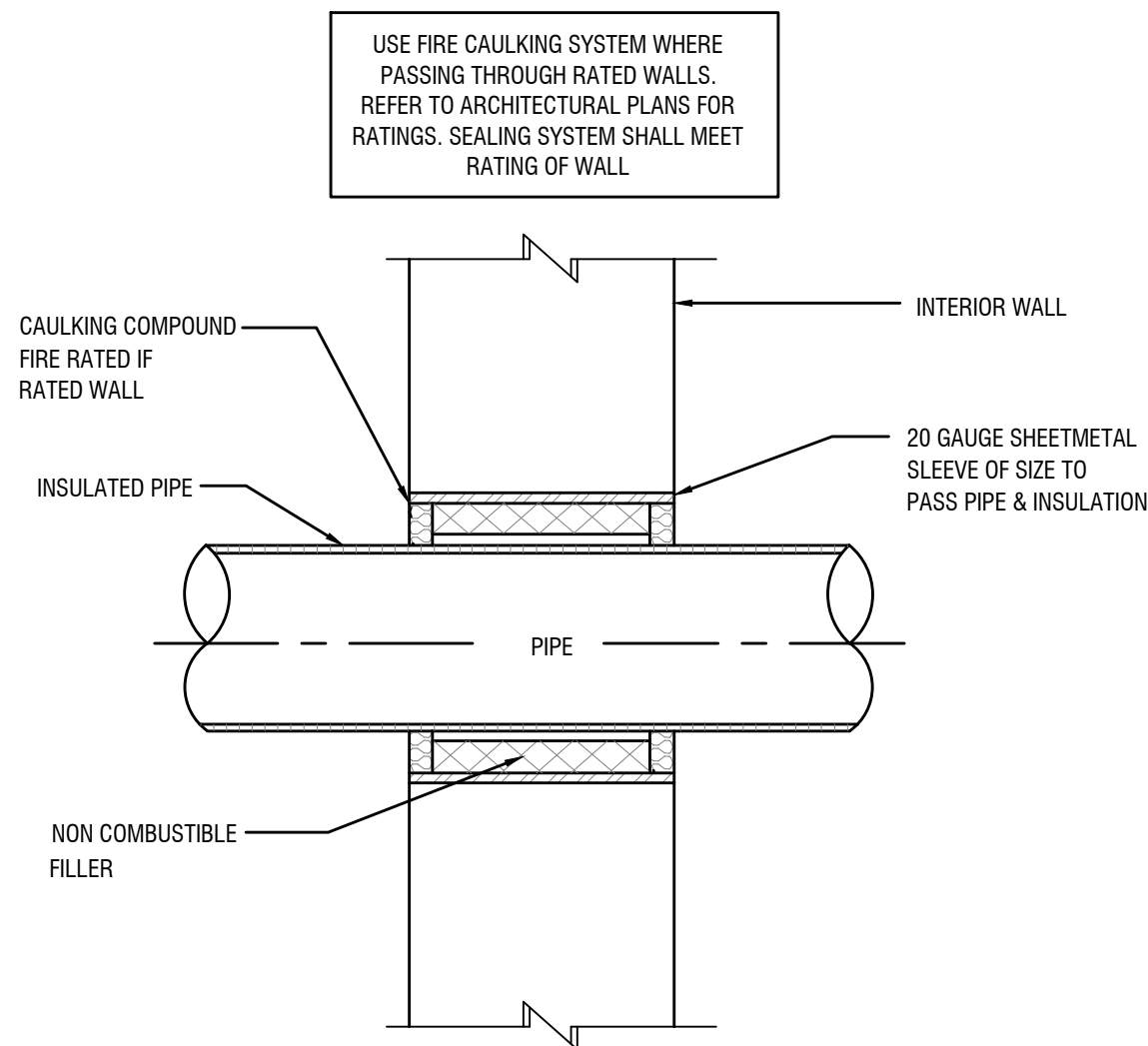
5 FINISHED FLOOR CLEANOUT DETAIL
P-10 SCALE: NOT TO SCALE



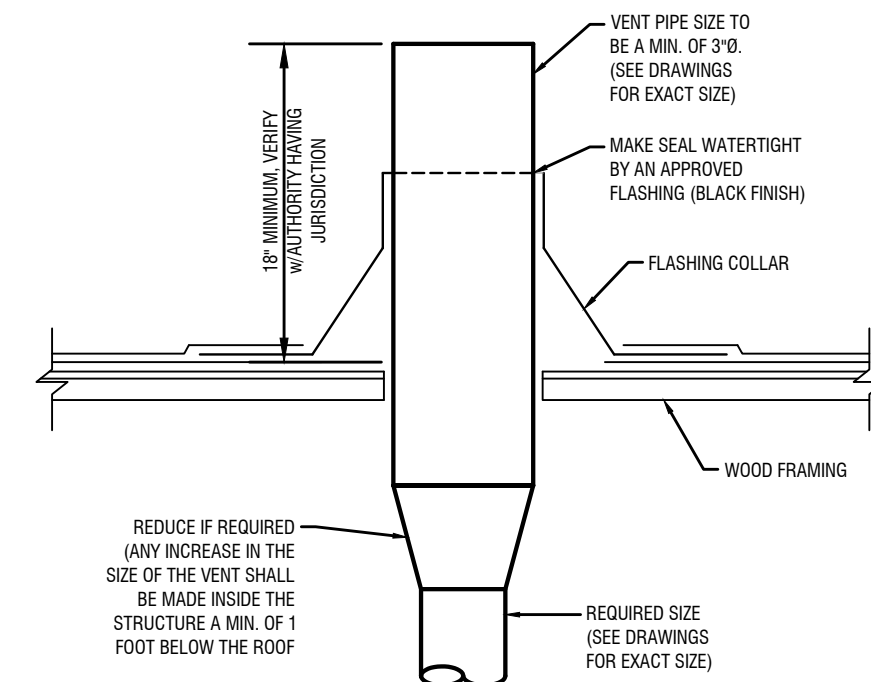
2 TYPICAL FLOOR DRAIN DETAIL
P-10 SCALE: NOT TO SCALE



6 ELECTRIC HOT WATER HEATER DETAIL
P-10 SCALE: NOT TO SCALE



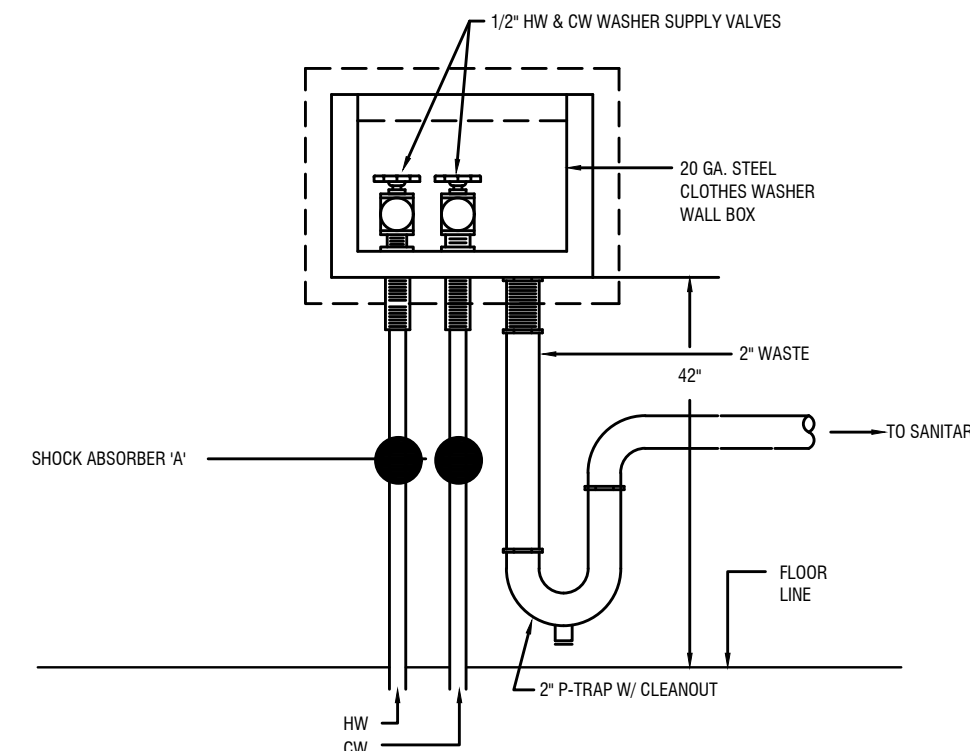
3 PIPING THROUGH INTERIOR WALL DETAIL
P-10 SCALE: NOT TO SCALE



NOTES:

1. AN OPEN VENT TERMINAL FROM A DRAINAGE SYSTEM SHALL NOT BE LOCATED DIRECTLY BENEATH ANY DOOR, OPERABLE WINDOW, OR OTHER INTAKE OPENING OF THE BUILDING OR OF AN ADJACENT BUILDING. AND ANY SUCH VENT TERMINAL SHALL NOT BE WITHIN 10 FEET HORIZONTALLY OF SUCH AN OPENING UNLESS IT IS AT LEAST 2 FEET ABOVE THE TOP OF SUCH OPENING.
2. FOLLOW ROOF MANUFACTURER'S FLASHING INSTRUCTIONS WHERE REQUIRED MANUFACTURER'S WARRANTY

4 VENT PIPE THROUGH ROOF DETAIL
P-10 SCALE: NOT TO SCALE



7 UTILITY BOX FOR CLOTHIER WASHER
P-10 SCALE: NOT TO SCALE

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Client: Empire Property Construction
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Wilkes-Barre, Pa 18701

Consultants: **DMG**
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Scale: AS NOTED
Sheet: PLUMBING DETAILS

Checked: KJS

P-10

Pennsylvania American Water
2699 Stafford Ave., Scranton, PA 18505

REPORT ON FLOW TEST

12^h MAIN ON E. Union St / W/B
Street/Ave./Rd./Ln. Municipality

DATE: 3-4-26
TIME: 6:00 PM

FLOW HYDRANT NO. H4BC-518
HYDRANT LOCATION: N. Washington @ E. Union St.

RESIDUAL HYDRANT NO. H4BC-222
HYDRANT LOCATION: 46 N Washington St.

FLOW:
STATIC PRESSURE 80 PSI
1. PITOT PRESSURE 1450 GPM
2. PITOT PRESSURE 1450 GPM

RESIDUAL:
STATIC PRESSURE 90 PSI
1. RESIDUAL PRESSURE 145 PSI
2. RESIDUAL PRESSURE 145 PSI

COMMENTS:

TEST TEAM: Dixon

SUPERVISOR: Vital

The results are representative of the distribution system flow capabilities and fire flow capacity at the time of the test and do not take into account normal fluctuations within the distribution system that may occur in the future.

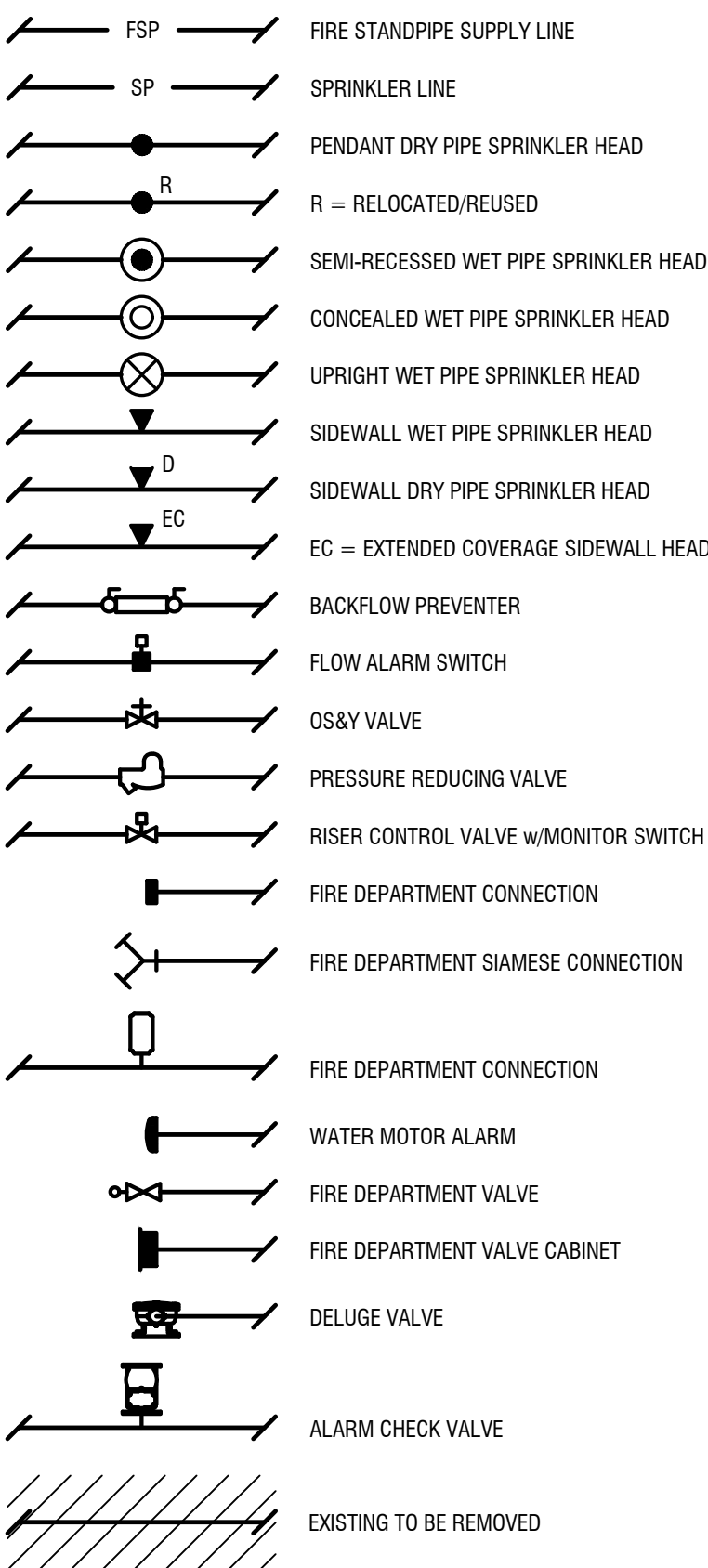


RESIDUAL HYDRANT (ELEVATION APPX. 551.0')

FLOW HYDRANT (ELEVATION APPX. 549.0')

FIRE PROTECTION LEGEND

NOT ALL SYMBOLS ARE USED ON DRAWINGS



TS TAMPER SWITCH
FS FLOW SWITCH

COORDINATION NOTE

THE HVAC, PLUMBING, AND ELECTRICAL CONTRACTORS SHALL BE AWARE THAT THE CEILING HEIGHTS, SOFFITS AND SPACE CONDITIONS ON THIS PROJECT ARE CRITICAL AND SPACE ALLOCATION MUST BE COORDINATED BETWEEN ALL TRADES AND MAINTAINED. EACH CONTRACTOR OR TRADE SHALL REFER TO THE STRUCTURAL AND ARCHITECTURAL DRAWINGS IN ADDITION TO THE HVAC, PLUMBING, AND ELECTRICAL DRAWINGS TO DETERMINE ACCEPTABLE LAYERING OF ALL EQUIPMENT.

PRIME CONTRACT NOTE

THIS PROJECT IS SELF PRIME CONTRACTS. THE F.P.C. SHALL BE RESPONSIBLE FOR ALL CUTTING/PATCHING, ETC. FOR THEIR WORK. THE F.P.C. SHALL MEET, REPORT WORK PROGRESS, ALL SHUTDOWNS, ETC. WITH OWNER. F.P.C. SHALL COORDINATE WITH ALL OTHER TRADES. SEE FRONT END SPECIFICATIONS FOR DETAILS.

HAZARD OCCUPANCY LEGEND

LH	NFPA-13 LIGHT HAZARD - 0.10 GPM/SF DESIGN DENSITY, 225 SF MAX SPRINKLER PROTECTION AREA, 15 FT MAX SPRINKLER SPACING.
OH1	NFPA-13 ORDINARY HAZARD GROUP 1 - 0.15 GPM/SF DESIGN DENSITY, 130 SF MAX SPRINKLER PROTECTION AREA, 15 FT MAX SPRINKLER SPACING.
OH2	NFPA-13 ORDINARY HAZARD GROUP 2 - 0.20 GPM/SF DESIGN DENSITY, 130 SF MAX SPRINKLER PROTECTION AREA, 15 FT MAX SPRINKLER SPACING.
EH1	NFPA-13 EXTRA HAZARD GROUP 1 - 0.30 GPM/SF DESIGN DENSITY, 100 SF MAX SPRINKLER PROTECTION AREA, 12 FT MAX SPRINKLER SPACING.
EH2	NFPA-13 EXTRA HAZARD GROUP 2 - 0.40 GPM/SF DESIGN DENSITY, 100 SF MAX SPRINKLER PROTECTION AREA, 12 FT MAX SPRINKLER SPACING.
RES	RESIDENTIAL SPRINKLER HEADS - FLOW CHARACTERISTICS, AREAS OF COVERAGE, MAXIMUM DISTANCES BETWEEN SPRINKLERS, ETC. INSTALLED IN CONFORMANCE WITH THEIR MANUFACTURER'S LISTING.

SPRINKLER DESIGN CRITERIA AND NOTES

- ALL AREAS OF THE RENOVATION SHALL BE FULLY SPRINKLERED BY MODIFYING EXISTING HEAD LOCATIONS AND/OR ADDING HEADS AS NECESSARY.
- ALL FIRE PROTECTION WORK SHALL MEET THE REQUIREMENTS OF NFPA 13 AND ALL LOCAL ORDINANCES.
- SPRINKLER PROTECTION: TO DETERMINE SPACING, DENSITY, AND HOSE STREAM ALLOWANCE, APPLY THE FOLLOWING COVERAGE CLASSIFICATIONS.
 - LIGHT HAZARDS OCCUPANCIES: CLASSROOMS OFFICES, LOBBIES, WAITING ROOMS, TOILET ROOMS, CORRIDORS, AND CUSTOMARY ACCESS AREAS.
 - ORDINARY HAZARD GROUP 1 OCCUPANCIES: MECHANICAL EQUIPMENT ROOMS, TRANSFORMER ROOMS, ELECTRICAL ROOMS, ELECTRIC CLOSETS, ELEVATOR SHAFTS, ELEVATOR MACHINE ROOMS AND FILE STORAGE.
 - ORDINARY HAZARD GROUP 2 OCCUPANCIES: STORAGE ROOMS, TRASH ROOMS, CLEAN AND SOILED LINEN ROOMS STORAGE AREAS, CLEAN AND SOILED UTILITY ROOMS, JANITOR CLOSETS, BUILDING MANAGEMENT STORAGE, FILE STORAGE AREAS FOR THE ENTIRE AREA OF THE SPACE UP TO 140 SQUARE METERS (1500 SQUARE FEET).
- HYDRAULICALLY CALCULATED WET PIPE SYSTEMS: AUTOMATIC SPRINKLERS THROUGHOUT ENTIRE AREA(S) SHALL BE INSTALLED AS HYDRAULICALLY CALCULATED SYSTEMS TO PROVIDE THE MINIMUM REQUIRED DENSITY TO THE HYDRAULICALLY MOST REMOTE AREA BASED ON OCCUPANCY CLASSIFICATION. THE HEAD COVERAGE SHALL EXCEED NFPA-13 LIMITATIONS.
- HYDRAULICALLY CALCULATED WET SPRINKLER SYSTEMS SHALL INCLUDE AN INTERIOR AND EXTERIOR HOSE ALLOWANCE BASED ON OCCUPANCY CLASSIFICATION AS REQUIRED BY NFPA 13.
- COORDINATE ALL FIRE PROTECTION WORK WITH ARCHITECTURAL REFLECTED CEILING PLANS, HVAC DUCTWORK AND DIFFUSER LOCATIONS AND ELECTRICAL LIGHTING LOCATIONS. RELOCATE EXISTING PIPING SHOWN TO REMAIN AS NECESSARY.
- THE SPRINKLER TRADE SHALL COORDINATE SPRINKLER HEAD AND PIPING LAYOUT WITH LIGHTING, DIFFUSER AND DUCTWORK LAYOUTS. LIGHTING, DIFFUSERS AND DUCTWORK SHALL TAKE PRECEDENCE OVER THE SPRINKLER SYSTEM.
- SPRINKLER HEADS SHALL HAVE A 1/2" NOMINAL ORIFICE AND A TEMPERATURE RATING OF 165°F. SPRINKLER HEADS LOCATED NEAR HEAT PRODUCING EQUIPMENT IN AREAS SUBJECT TO HIGH TEMPERATURES, THE SPRINKLER HEADS SHALL HAVE A TEMPERATURE RATING OF 212°F. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.
 - MECHANICAL ROOM
 - CLOSET
 - VESTIBULES
 - STAIRWELLS - TOP, BOTTOM AND INTERMEDIATE LANDING AND IN ENCLOSED SPACES UNDER STAIRS AND UNDER WALKWAYS.
 - UNDER WIDE (48" AND WIDER) DUCTS AND AC EQUIPMENT.
 - ENCLOSED COMBUSTIBLE SPACES.
 - ALL LOCATIONS COVERED BY NFPA CODE 13, CHAPTER 4
 - ABOVE AND BELOW PLATFORMS FOR HVAC EQUIPMENT
 - ABOVE AND BELOW CEILING CLOUDS PER NFPA CODE (SEE ARCHITECTURAL CEILING PLAN FOR LOCATIONS)
- THE CONTRACTOR SHALL TEST THE ENTIRE SYSTEM(S) IN ACCORDANCE WITH NFPA-13, STATE AND LOCAL CODE REGULATIONS. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR A FINAL INSPECTION AND APPROVAL BY ALL REQUIRED GOVERNING AGENCIES. APPOINTMENTS MUST BE MADE IN ADVANCE FOR THESE INSPECTIONS. TEST REPORTS SHALL BE FURNISHED TO THE OWNER.
- ALL SPRINKLER HEADS SHALL BE LOCATED IN ACCORDANCE WITH THE SPRINKLER DESIGN CRITERIA NOTES ON THIS DRAWING AND NFPA.
- VERIFY ALL CEILING HEIGHTS PRIOR TO INSTALLATION OF SPRINKLER DROPS.
- SPRINKLER HEAD LOCATIONS SHALL BE COORDINATED IN FIELD WITH ALL OTHER TRADES BEFORE INSTALLATION.
- THE ABOVE CEILING CONSTRUCTION IS CONGESTED, THIS CONTRACTOR SHALL CAREFULLY REVIEW ALL DRAWINGS TO COORDINATE ALL NECESSARY PIPE RUNS. MULTIPLE OFFSETS IN PIPING WILL BE NECESSARY TO ACCOMMODATE PIPE RUNS THROUGH CEILINGS AND TO AVOID CONFLICTS WITH ALL OTHER TRADES.
- NO PIPING SHALL BE RUN IN SPACES SUBJECT TO FREEZING. THIS CONTRACTOR MUST COORDINATE WITH THE G.C. AS TO LOCATION OF PIPE RUNS TO ENSURE ALL PIPING WILL BE PROTECTED AGAINST FREEZING.
- THIS CONTRACTOR SHALL COORDINATE WITH G.C. AND MAKE G.C. AWARE OF ALL NECESSARY CUTTING AND PATCHING. G.C. WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING.
- THESE DRAWINGS INDICATE THE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. ANY DIMENSIONS NOT SHOWN SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS. FOR EXACT LOCATIONS, HEIGHT, DOOR SWINGS, MOUNTING HEIGHTS, ETC. REFER TO ARCHITECTURAL DRAWING AND DETAILS.
- PRIOR TO STARTING ANY WORK, PURCHASE OF EQUIPMENT, ETC. COORDINATE THE WORK WITH OTHER TRADES. CONFER WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION AND ARRANGE ALL PARTS OF THIS WORK AND EQUIPMENT OF OTHERS, WITH THE BUILDING CONSTRUCTION AND WITH ARCHITECTURAL FINISH SO THAT IT WILL HARMONIZE IN SERVICE AND APPEARANCE. IN THE EVENT THERE IS A CONFLICT IN COORDINATION BETWEEN TRADES, THE OWNER WILL RESOLVE IT.
- BIDDERS, BEFORE SUBMITTING A PROPOSAL, SHALL VISIT AND EXAMINE CAREFULLY THE AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT WILL EFFECT THE EXECUTION OF THIS WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH EXAMINATION BEEN MADE.
- SUBMIT SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO THE ENGINEER FOR REVIEW AND COMMENTS BEFORE FABRICATION OF THE WORK IS STARTED.
- ALL PARTS OF THE WORK AND ASSOCIATED EQUIPMENT SHALL BE TESTED AND ADJUSTED TO WORK PROPERLY AND BE LEFT IN PERFECT OPERATING CONDITION.
- PROVIDE ALL LABOR AND MATERIALS NEEDED FOR A COMPLETE AND PROPERLY OPERATIONAL SYSTEM. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED, DESIGNED AND INSTALLED BY THIS CONTRACTOR. THE CONTRACTOR SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS TO ALL AGENCIES HAVING JURISDICTION. NO WORK SHALL COMMENCE ON THE SYSTEM UNTIL THESE DOCUMENTS ARE FULLY APPROVED. SHOP DRAWINGS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN PENNSYLVANIA.
- THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF WORK TO BE PERFORMED; THE DRAWINGS ARE NOT INTENDED TO SHOW EXACT LOCATIONS OR TO SHOW EVERY PIPE, SPRINKLER HEADS, FITTING, VALVE OR APPURTENANCE REQUIRED FOR A COMPLETE INSTALLATION. IT IS THE INTENT OF THESE DOCUMENTS TO PROVIDE A COMPLETELY SPRINKLERED BUILDING IN ACCORDANCE WITH NFPA AND THE LOCAL JURISDICTION HAVING AUTHORITY. DO NOT SCALE LOCATION, DIMENSIONS, OR QUANTITY OF SPRINKLER HEADS FROM THESE DRAWINGS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR INCREASED QUANTITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND VERIFYING ALL EXISTING CONDITIONS AND DIMENSIONS AND FOR COORDINATION OF HIS WORK WITH THAT OF OTHER TRADES. PERFORM WORK IN AN ORDERLY MANNER AND WITH THE LEAST POSSIBLE INTERFERENCE.
- SPRINKLER HEADS ARE TO BE LOCATED IN THE CENTER OF CEILING TILES, UNLESS SHOWN OTHERWISE. SPRINKLER HEADS LOCATED IN 2'-0"x2'-0" CEILING SHALL BE LOCATED IN THE CENTER OF THE 2'-0"x2'-0" AREA OF THE TILE.
- CONTRACTOR SHALL INSTALL ALL SPRINKLER PIPE AND FITTINGS SO THE SYSTEM CAN BE DRAINED.
- WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST CURRENT PENNSYLVANIA EDITION OF:
 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS: 2019 NFPA 13
 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEM: 2019 NFPA 14
 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION: 2019 NFPA 20
 - INTERNATIONAL BUILDING CODE: 2021 IBC
 - NATIONAL ELECTRIC CODE (NFPA 70): 2020 NEC
 - NATIONAL FIRE ALARM AND SIGNALING CODE: 2019 NFPA 72
 - ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES

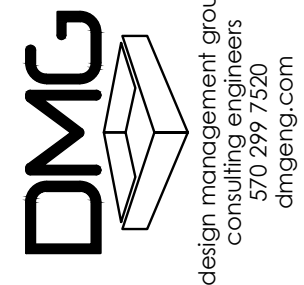
TEST AND INSPECTION:

- THE CONTRACTOR SHALL TEST THE ENTIRE SYSTEM IN ACCORDANCE WITH NFPA STANDARDS AND REGULATIONS. CONTRACTOR SHALL COORDINATE ALL ARRANGEMENTS FOR A FINAL INSPECTION & APPROVAL BY THE AUTHORITY HAVING JURISDICTION. APPOINTMENTS MUST BE MADE IN ADVANCE FOR THESE INSPECTIONS. TEST REPORTS SHALL BE FURNISHED TO THE OWNER.
- PROVIDE INSTRUMENTS, EQUIPMENT: PAY EXPENSES INCURRED IN MAKING TESTS, OBTAIN APPROVALS & CERTIFICATES.
- THIS CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED TO HIS OWN OR OTHER CONTRACTORS' WORK AS A RESULT OF TESTS AND WILL BE CALLED UPON TO PAY FOR ALL REPAIRS WITHOUT ADDITIONAL COST TO OWNER.

Client:

16-22 Union Street -
Apartment Building
Client: Empire Property Construction
16-22 Union St.
Wilkes-Barre, Pa 18701

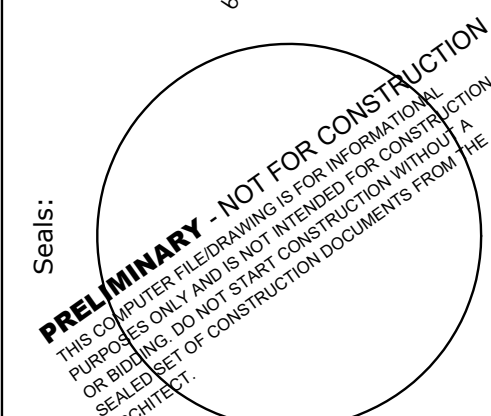
Consultants:



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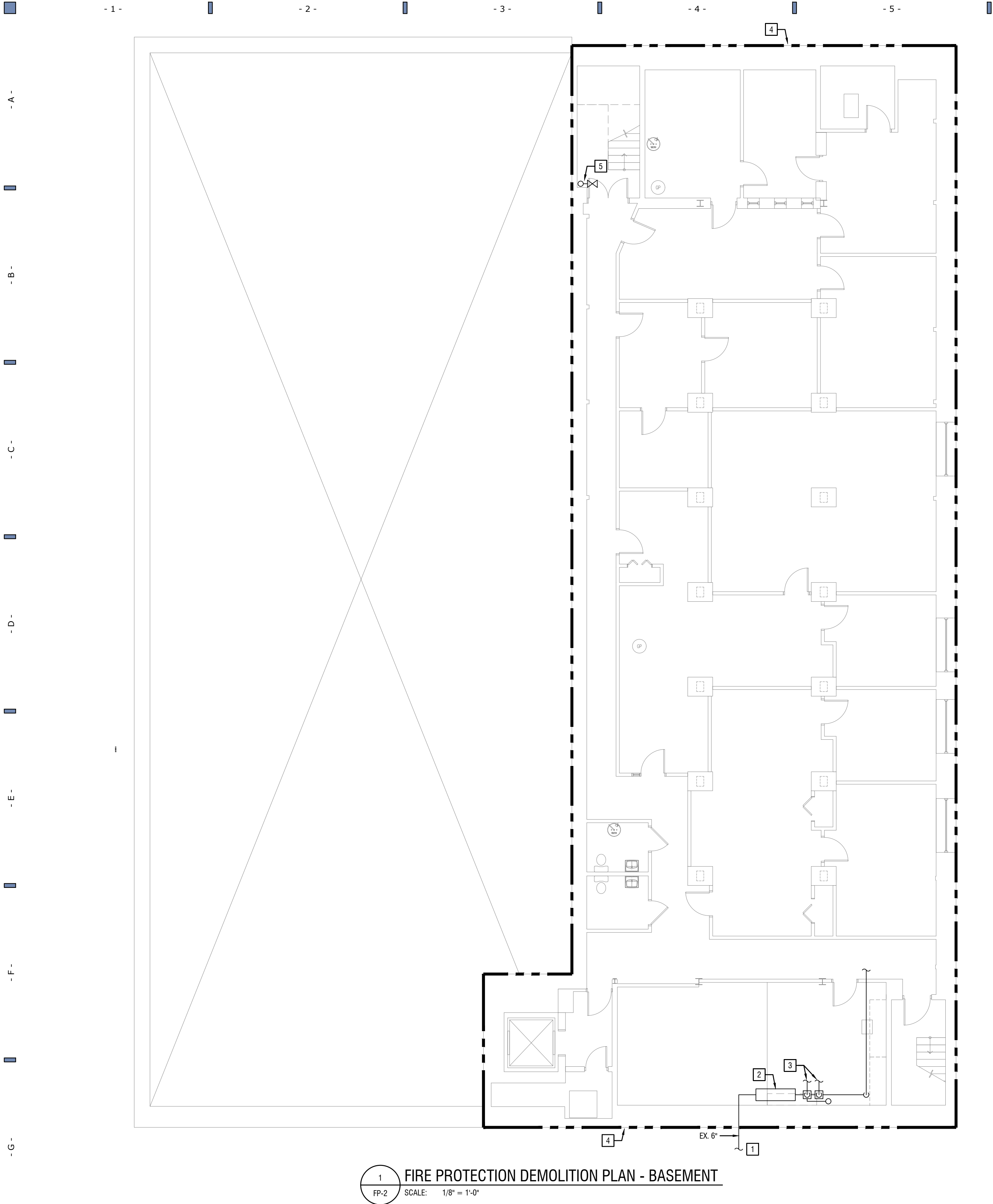
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FIRE PROTECTION COVER
SHEET

FP-1



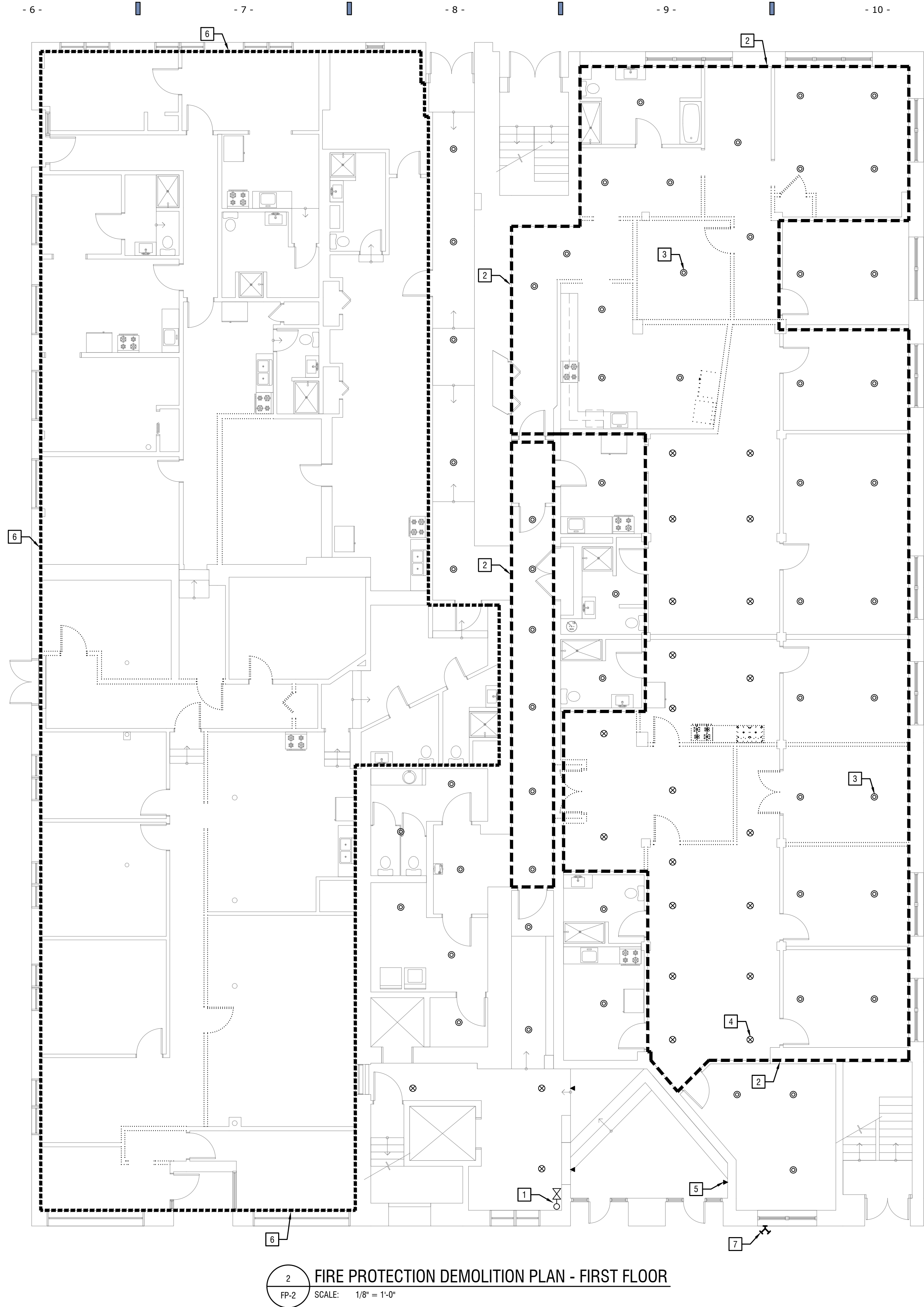
KEYED CONSTRUCTION NOTES

- APPROXIMATE LOCATION OF EXISTING FIRE SERVICE ENTRANCE FROM STREET.
- APPROXIMATE LOCATION OF EXISTING FIRE PROTECTION BACKFLOW PREVENTER LOW NEAR BASEMENT FLOOR LEVEL. BACKFLOW PREVENTER TO BE TESTED TO ENSURE PROPER OPERATION PRIOR TO CONSTRUCTION. VERIFY TAMPER SWITCHES ARE PRESENT ON SHUTOFF VALVES AND WIRED TO FIRE ALARM SYSTEM.
- APPROXIMATE LOCATION OF EXISTING WET PIPE FIRE ALARM VALVE RISERS TO REMAIN. VERIFY TAMPER SWITCHES ARE PRESENT ON SHUTOFF VALVES, A FLOW SWITCH IS PRESENT DOWNSTREAM OF CHECK VALVE, AND THAT BOTH SWITCHES ARE WIRED TO FIRE ALARM SYSTEM.
- EXISTING SPRINKLER COVERAGE AT BASEMENT CEILING HEIGHT TO REMAIN. FIELD VERIFY EXISTING SPRINKLER TYPES, LOCATIONS, CONDITIONS, ETC. PRIOR TO CONSTRUCTION. PROVIDE ADDITIONAL SPRINKLER COVERAGE IF EXISTING SPRINKLER COVERAGE IS NOT PRESENT OR NOT INSTALLED IN ACCORDANCE WITH NFPA-13 REQUIREMENTS.

- EXISTING STANDPIPE AND HOSE CONNECTION WITHIN STAIRWELL TO REMAIN. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STANDPIPE AND HOSE CONNECTION LOCATIONS TO ENSURE NFPA-14 REQUIREMENTS ARE MET.

GENERAL CONSTRUCTION NOTES

- AREAS INDICATED AS DEMOLITION SHALL HAVE ALL WET BRANCH PIPING AND ALL RELATED FIRE PROTECTION EQUIPMENT, PIPING, VALVES, ETC. TO BE REMOVED, UNLESS OTHERWISE NOTED.
- THE INTENT OF THE DEMOLITION DRAWINGS IS TO GIVE THE CONTRACTOR AN OVERALL SCOPE OF WORK REQUIRED TO COMPLETE THIS PROJECT.
- IT ALSO THE INTENT OF THE DRAWINGS TO PROVIDE A COMPLETE CLEAN SPACE IN THE AREAS DESIGNATED PRIOR TO CONSTRUCTION.
- ALL PIPING AND SPRINKLERS SHOWN ARE EXISTING AND INDICATES APPROXIMATE LOCATIONS AND DIRECTIONS. IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXACT SPRINKLER HEAD AND PIPING LOCATIONS / SIZES DURING DEMOLITION / CONSTRUCTION PHASES OF THIS PROJECT.
- ALL EXISTING FIRE PROTECTION, DOMESTIC WATER, SANITARY/VENT, GAS, ETC. PIPING OUTSIDE OF WORK AREA SHALL REMAIN AND REMAIN IN SERVICE.
- THE CONTRACTOR IS CAUTIONED THAT WHEN PERFORMING DEMOLITION WORK, FIRE PROTECTION AND PLUMBING PIPING SERVING AREAS OF THE BUILDING OUTSIDE THE WORK AREA MUST REMAIN IN OPERATION.
- THE OWNER RESERVES THE RIGHT TO CLAIM ANY MATERIALS REMOVED DURING DEMOLITION THAT WILL NOT BE REUSED. THE CONTRACTOR IS RESPONSIBLE TO REMOVE FROM SITE ANY MATERIALS NOT CLAIMED BY THE OWNER.
- ALL EXISTING SPRINKLERS AND PIPING SHOWN ARE BASED ON FIELD OBSERVATION WHERE POSSIBLE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SPRINKLER AND PIPING LOCATIONS IN RELATION TO RENOVATED AREAS AS REQUIRED.
- CONTRACTOR TO COORDINATE ANY REMOVAL OR REPLACEMENT OF EXISTING CEILINGS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION. IF EXISTING CEILINGS ARE TO BE REMOVED OR REPLACED, THE EXISTING CEILING LEVEL SPRINKLERS SHALL BE REMOVED AS WELL. CUT AND CAP BRANCH PIPING AS CLOSE TO MAIN AS POSSIBLE AND PREPARE PIPING FOR NEW SPRINKLER CONNECTION.



KEYED CONSTRUCTION NOTES

- EXISTING STANDPIPE AND HOSE CONNECTION WITHIN STAIRWELL TO REMAIN. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STANDPIPE AND HOSE CONNECTION LOCATIONS TO ENSURE NFPA-14 REQUIREMENTS ARE MET.
- APPROXIMATE OUTLINE OF AREA IN WHICH EXISTING SPRINKLER COVERAGE AT CEILING LEVEL IS TO BE REMOVED TO MAKE A CLEAN SPACE FOR NEW RENOVATION AREA. CONTRACTOR TO COORDINATE EXTENTS OF RENOVATION AREA, ANY CEILING REMOVAL, AND EXISTING SPRINKLER LOCATIONS PRIOR TO CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING SEMI RECESSED PENDENT SPRINKLER AT CEILING LEVEL (TYPICAL).
- APPROXIMATE LOCATION OF EXISTING UPRIGHT SPRINKLER AT CEILING LEVEL (TYPICAL).
- APPROXIMATE LOCATION OF EXISTING SIDEWALL SPRINKLER AT CEILING LEVEL (TYPICAL).

- APPROXIMATE OUTLINE OF EXISTING AREA NOT PROVIDED WITH EXISTING SPRINKLER COVERAGE AT CEILING LEVEL. SPRINKLER COVERAGE TO BE PROVIDED WITHIN NEW RENOVATION PROJECT SERVED FROM EXISTING WET PIPE SPRINKLER SYSTEM.
- APPROXIMATE LOCATION OF EXISTING FIRE DEPARTMENT CONNECTION ON EXISTING EXTERIOR WALL REMAIN.

GENERAL CONSTRUCTION NOTES

- AREAS INDICATED AS DEMOLITION SHALL HAVE ALL WET BRANCH PIPING AND ALL RELATED FIRE PROTECTION EQUIPMENT, PIPING, VALVES, ETC. TO BE REMOVED, UNLESS OTHERWISE NOTED.
- THE INTENT OF THE DEMOLITION DRAWINGS IS TO GIVE THE CONTRACTOR AN OVERALL SCOPE OF WORK REQUIRED TO COMPLETE THIS PROJECT.
- IT ALSO THE INTENT OF THE DRAWINGS TO PROVIDE A COMPLETE CLEAN SPACE IN THE AREAS DESIGNATED PRIOR TO CONSTRUCTION.
- ALL PIPING AND SPRINKLERS SHOWN ARE EXISTING AND INDICATES APPROXIMATE LOCATIONS AND DIRECTIONS. IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXACT SPRINKLER HEAD AND PIPING LOCATIONS / SIZES DURING DEMOLITION / CONSTRUCTION PHASES OF THIS PROJECT.

- ALL EXISTING FIRE PROTECTION, DOMESTIC WATER, SANITARY/VENT, GAS, ETC. PIPING OUTSIDE OF WORK AREA SHALL REMAIN AND REMAIN IN SERVICE.
- THE CONTRACTOR IS CAUTIONED THAT WHEN PERFORMING DEMOLITION WORK, FIRE PROTECTION AND PLUMBING PIPING SERVING AREAS OF THE BUILDING OUTSIDE THE WORK AREA MUST REMAIN IN OPERATION.
- THE OWNER RESERVES THE RIGHT TO CLAIM ANY MATERIALS REMOVED DURING DEMOLITION THAT WILL NOT BE REUSED. THE CONTRACTOR IS RESPONSIBLE TO REMOVE FROM SITE ANY MATERIALS NOT CLAIMED BY THE OWNER.
- ALL EXISTING SPRINKLERS AND PIPING SHOWN ARE BASED ON FIELD OBSERVATION WHERE POSSIBLE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SPRINKLER AND PIPING LOCATIONS IN RELATION TO RENOVATED AREAS AS REQUIRED.
- CONTRACTOR TO COORDINATE ANY REMOVAL OR REPLACEMENT OF EXISTING CEILINGS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION. IF EXISTING CEILINGS ARE TO BE REMOVED OR REPLACED, THE EXISTING CEILING LEVEL SPRINKLERS SHALL BE REMOVED AS WELL. CUT AND CAP BRANCH PIPING AS CLOSE TO MAIN AS POSSIBLE AND PREPARE PIPING FOR NEW SPRINKLER CONNECTION.

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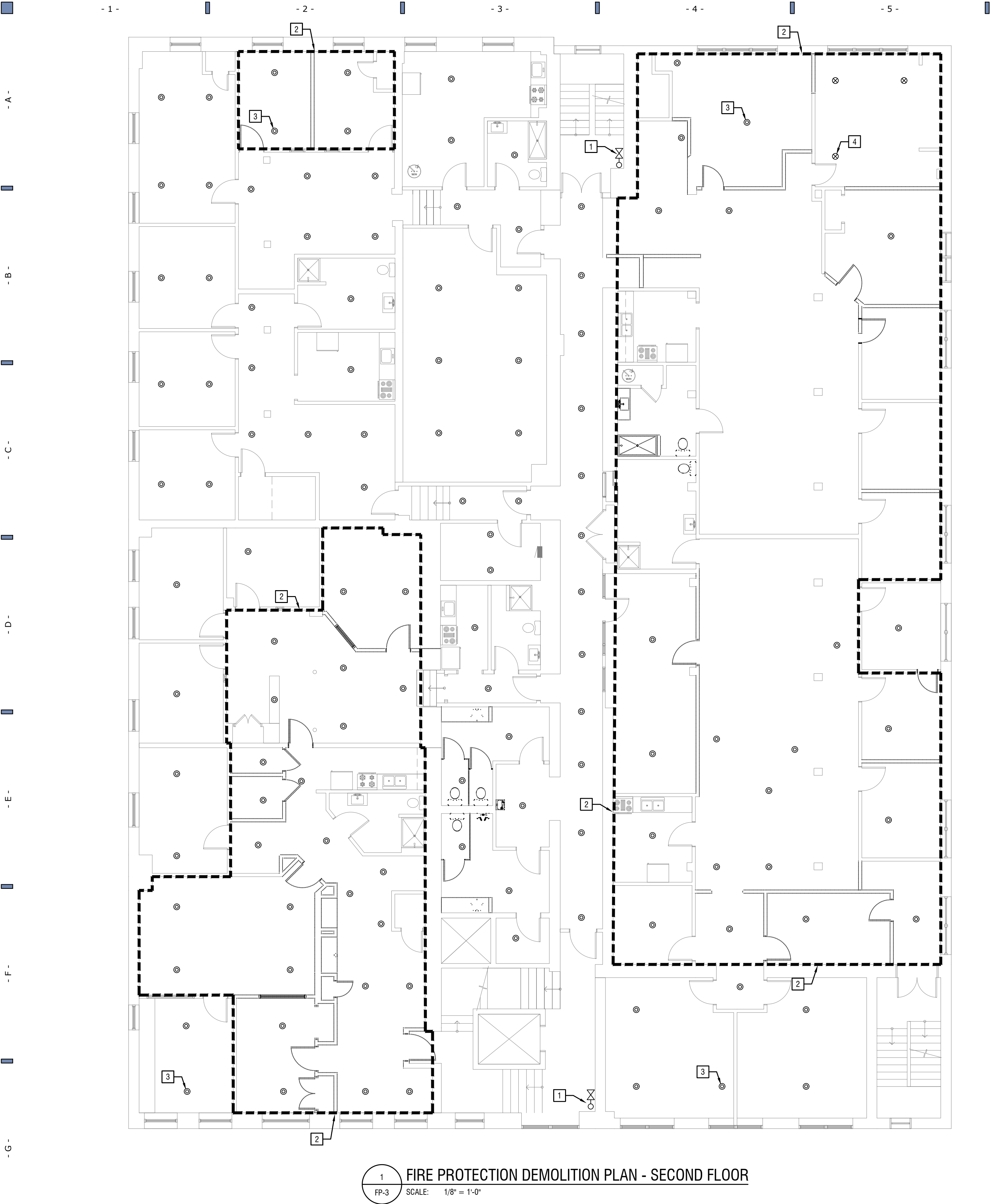
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FIRE PROTECTION FLOOR PLANS - DEMOLITION
FP-2



1 FIRE PROTECTION DEMOLITION PLAN - SECOND FLOOR
FP-3 SCALE: 1/8" = 1'-0"

KEYED CONSTRUCTION NOTES

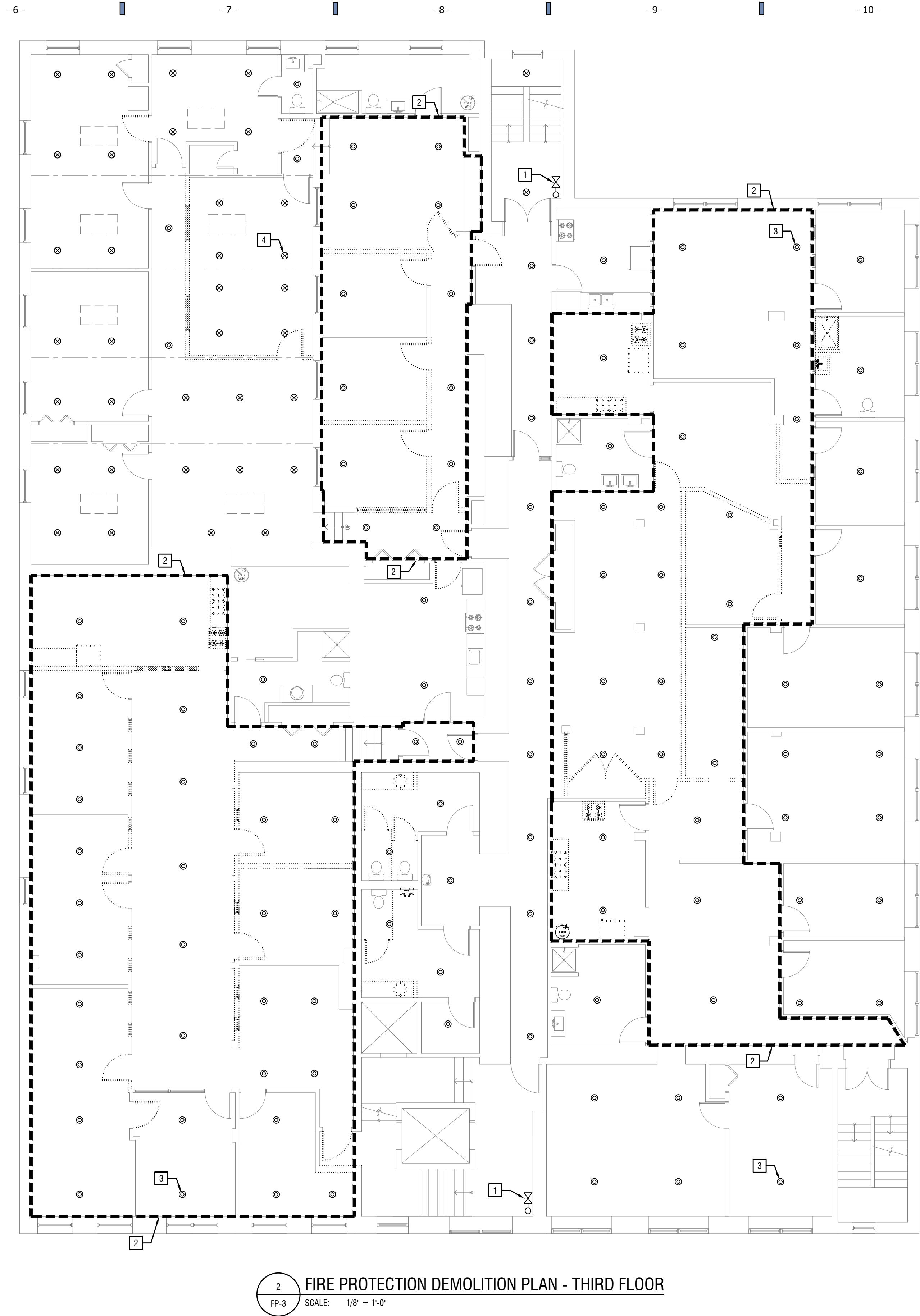
- EXISTING STANDPIPE AND HOSE CONNECTION WITHIN STAIRWELL TO REMAIN. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STANDPIPE AND HOSE CONNECTION LOCATIONS TO ENSURE NFPA-14 REQUIREMENTS ARE MET.
- APPROXIMATE OUTLINE OF AREA IN WHICH EXISTING SPRINKLER COVERAGE AT CEILING LEVEL IS TO BE REMOVED TO MAKE A CLEAN SPACE FOR NEW RENOVATION AREA. CONTRACTOR TO COORDINATE EXTENTS OF RENOVATION AREA, ANY CEILING REMOVAL, AND EXISTING SPRINKLER LOCATIONS PRIOR TO CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING SEMI RECESSED PENDENT SPRINKLER AT CEILING LEVEL (TYPICAL).
- APPROXIMATE LOCATION OF EXISTING UPRIGHT SPRINKLER AT CEILING LEVEL (TYPICAL).

GENERAL CONSTRUCTION NOTES

- AREAS INDICATED AS DEMOLITION SHALL HAVE ALL WET BRANCH PIPING AND ALL RELATED FIRE PROTECTION EQUIPMENT, PIPING, VALVES, ETC. TO BE REMOVED, UNLESS OTHERWISE NOTED.

- THE INTENT OF THE DEMOLITION DRAWINGS IS TO GIVE THE CONTRACTOR AN OVERALL SCOPE OF WORK REQUIRED TO COMPLETE THIS PROJECT.
- IT ALSO THE INTENT OF THE DRAWINGS TO PROVIDE A COMPLETE CLEAN SPACE IN THE AREAS DESIGNATED PRIOR TO CONSTRUCTION.
- ALL PIPING AND SPRINKLERS SHOWN ARE EXISTING AND INDICATES APPROXIMATE LOCATIONS AND DIRECTIONS. IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXACT SPRINKLER HEAD AND PIPING LOCATIONS / SIZES DURING DEMOLITION / CONSTRUCTION PHASES OF THIS PROJECT.
- ALL EXISTING FIRE PROTECTION, DOMESTIC WATER, SANITARY/VENT, GAS, ETC. PIPING OUTSIDE OF WORK AREA SHALL REMAIN AND REMAIN IN SERVICE.
- THE CONTRACTOR IS CAUTIONED THAT WHEN PERFORMING DEMOLITION WORK, FIRE PROTECTION AND PLUMBING PIPING SERVING AREAS OF THE BUILDING OUTSIDE THE WORK AREA MUST REMAIN IN OPERATION.
- THE OWNER RESERVES THE RIGHT TO CLAIM ANY MATERIALS REMOVED DURING DEMOLITION THAT WILL NOT BE REUSED. THE CONTRACTOR IS RESPONSIBLE TO REMOVE FROM SITE ANY MATERIALS NOT CLAIMED BY THE OWNER.

- ALL EXISTING SPRINKLERS AND PIPING SHOWN ARE BASED ON FIELD OBSERVATION WHERE POSSIBLE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SPRINKLER AND PIPING LOCATIONS IN RELATION TO RENOVATED AREAS AS REQUIRED.
- CONTRACTOR TO COORDINATE ANY REMOVAL OR REPLACEMENT OF EXISTING CEILINGS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION. IF EXISTING CEILINGS ARE TO BE REMOVED OR REPLACED, THE EXISTING CEILING LEVEL SPRINKLERS SHALL BE REMOVED AS WELL. CUT AND CAP BRANCH PIPING AS CLOSE TO MAIN AS POSSIBLE AND PREPARE PIPING FOR NEW SPRINKLER CONNECTION.



2 FIRE PROTECTION DEMOLITION PLAN - THIRD FLOOR
FP-3 SCALE: 1/8" = 1'-0"

KEYED CONSTRUCTION NOTES

- EXISTING STANDPIPE AND HOSE CONNECTION WITHIN STAIRWELL TO REMAIN. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STANDPIPE AND HOSE CONNECTION LOCATIONS TO ENSURE NFPA-14 REQUIREMENTS ARE MET.
- APPROXIMATE OUTLINE OF AREA IN WHICH EXISTING SPRINKLER COVERAGE AT CEILING LEVEL IS TO BE REMOVED TO MAKE A CLEAN SPACE FOR NEW RENOVATION AREA. CONTRACTOR TO COORDINATE EXTENTS OF RENOVATION AREA, ANY CEILING REMOVAL, AND EXISTING SPRINKLER LOCATIONS PRIOR TO CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING SEMI RECESSED PENDENT SPRINKLER AT CEILING LEVEL (TYPICAL).
- APPROXIMATE LOCATION OF EXISTING UPRIGHT SPRINKLER AT CEILING LEVEL (TYPICAL).

GENERAL CONSTRUCTION NOTES

- AREAS INDICATED AS DEMOLITION SHALL HAVE ALL WET BRANCH PIPING AND ALL RELATED FIRE PROTECTION EQUIPMENT, PIPING, VALVES, ETC. TO BE REMOVED, UNLESS OTHERWISE NOTED.

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Client:
**16-22 Union Street -
Apartment Building**
Client: Empire Property Construction
16-22 Union St.
Wilkes-Barre, Pa 18701

Consultants:
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consulting engineers
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architect

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FIRE PROTECTION FLOOR
PLANS - DEMOLITION
FP-3

- 1 - - 2 - - 3 - - 4 - - 5 - - 6 - - 7 - - 8 - - 9 - - 10 -

- A -

- B -

- C -

- D -

- E -

- F -

- G -

- H -



1 FIRE PROTECTION DEMOLITION PLAN - FOURTH FLOOR
FP-4 SCALE: 1/8" = 1'-0"

KEYED CONSTRUCTION NOTES

- EXISTING STANDPIPE AND HOSE CONNECTION WITHIN STAIRWELL TO REMAIN. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STANDPIPE AND HOSE CONNECTION LOCATIONS TO ENSURE NFPA-14 REQUIREMENTS ARE MET.
- APPROXIMATE OUTLINE OF AREA IN WHICH EXISTING SPRINKLER COVERAGE AT CEILING LEVEL IS TO BE REMOVED TO MAKE A CLEAN SPACE FOR NEW RENOVATION AREA. CONTRACTOR TO COORDINATE EXTENTS OF RENOVATION AREA, ANY CEILING REMOVAL, AND EXISTING SPRINKLER LOCATIONS PRIOR TO CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING SEMI RECESSED PENDENT SPRINKLER AT CEILING LEVEL (TYPICAL).
- APPROXIMATE LOCATION OF EXISTING UPRIGHT SPRINKLER AT CEILING LEVEL (TYPICAL).
- APPROXIMATE LOCATION OF SPRINKLER RISE UP FROM FLOOR BELOW. FIELD VERIFY EXISTING SIZE AND LOCATION. VERIFY EXISTING LOCATION IN RELATION TO MINIMUM EGRESS HALLWAY WIDTH REQUIREMENTS. IF SPRINKLER RISE OBSTRUCTS HALLWAY WIDTH REQUIREMENTS, SPRINKLER RISE TO BE RELOCATED AND RECONNECTED TO EXISTING ABOVE CEILING PIPING.

GENERAL CONSTRUCTION NOTES

- AREAS INDICATED AS DEMOLITION SHALL HAVE ALL WET BRANCH PIPING AND ALL RELATED FIRE PROTECTION EQUIPMENT, PIPING, VALVES, ETC. TO BE REMOVED, UNLESS OTHERWISE NOTED.
- THE INTENT OF THE DEMOLITION DRAWINGS IS TO GIVE THE CONTRACTOR AN OVERALL SCOPE OF WORK REQUIRED TO COMPLETE THIS PROJECT.
- IT ALSO THE INTENT OF THE DRAWINGS TO PROVIDE A COMPLETE CLEAN SPACE IN THE AREAS DESIGNATED PRIOR TO CONSTRUCTION.
- ALL PIPING AND SPRINKLERS SHOWN ARE EXISTING AND INDICATES APPROXIMATE LOCATIONS AND DIRECTIONS. IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXACT SPRINKLER HEAD AND PIPING LOCATIONS / SIZES DURING DEMOLITION / CONSTRUCTION PHASES OF THIS PROJECT.
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- THE OWNER RESERVES THE RIGHT TO CLAIM ANY MATERIALS REMOVED DURING DEMOLITION THAT WILL NOT BE REUSED. THE CONTRACTOR IS RESPONSIBLE TO REMOVE FROM SITE ANY MATERIALS NOT CLAIMED BY THE OWNER.
- ALL EXISTING SPRINKLERS AND PIPING SHOWN ARE BASED ON FIELD OBSERVATION WHERE POSSIBLE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SPRINKLER AND PIPING LOCATIONS IN RELATION TO RENOVATED AREAS AS REQUIRED.
- CONTRACTOR TO COORDINATE ANY REMOVAL OR REPLACEMENT OF EXISTING CEILINGS WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION. IF EXISTING CEILINGS ARE TO BE REMOVED OR REPLACED, THE EXISTING CEILING LEVEL SPRINKLERS SHALL BE REMOVED AS WELL. CUT AND CAP BRANCH PIPING AS CLOSE TO MAIN AS POSSIBLE AND PREPARE PIPING FOR NEW SPRINKLER CONNECTION.

Consultants:

DMG

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consulting engineers
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No: Date:

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Project: Apartment Building
Date: 06/15/2026
Drawn: NW Checked: KJS
Scale: AS NOTED
Sheet:
FIRE PROTECTION FLOOR PLANS - DEMOLITION
FP-4



1 FIRE PROTECTION NEW PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0"

KEYED CONSTRUCTION NOTES

- NEW 4" CLASS I MANUAL WET STANDPIPE WITHIN STAIRWELL. COORDINATE FINAL LOCATION OF VERTICAL STANDPIPE WITHIN STAIRWELL WITH ALL STRUCTURAL ELEMENTS AND REQUIRED STAIRWELL EGRESS CLEARANCES PRIOR TO INSTALLATION.
- PROVIDE 2-1/2" HOSE CONNECTIONS WITH APPROVED FIRE DEPARTMENT THREADS ON EACH INDIVIDUAL FLOOR LEVEL. SEE STANDPIPE DETAIL FOR MORE INFORMATION. COORDINATE FINAL HOSE CONNECTION LOCATIONS AND DETAILS (HOSE CONNECTION SIZE, TYPE, THREADS, ETC.) WITH LOCAL FIRE DEPARTMENT PRIOR TO INSTALLATION.
- LISTED INDICATING STANDPIPE ISOLATION VALVE TO ALLOW ISOLATING OF STANDPIPE WITHOUT INTERRUPTING THE SUPPLY TO OTHER STANDPIPES FROM THE SAME SOURCE OF SUPPLY. COORDINATE FINAL ACCESSIBLE INSTALLATION LOCATION WITHIN BASEMENT LEVEL BELOW WITH OWNER/ARCHITECT PRIOR TO CONSTRUCTION.
- CONNECT NEW STANDPIPE FEED MAIN TO EXISTING PIPING AT BASEMENT CEILING HEIGHT NEAR SPRINKLER SERVICE ENTRANCE LOCATION. PROVIDE HOSE CONNECTION AT BASEMENT LEVEL WITHIN STAIRWELL. FIELD VERIFY EXISTING MAIN PIPING LOCATIONS AND BEST POSSIBLE POINT OF NEW CONNECTION.

- PROVIDE NEW CONCEALED TYPE PENDENT SPRINKLERS AT CEILING LEVEL (TYPICAL) WITHIN ALL NEW RENOVATION AREAS. COORDINATE FINAL LOCATIONS WITH NFPA-13 REQUIREMENTS (TYPICAL FOR ALL PIPE SIZES AND LOCATIONS). FANS, DIFFUSERS, AND REFLECTED CEILING PLAN. CONNECT BRANCH PIPING TO NEAREST ADEQUATELY SIZED PIPING. PROVIDE ADDITIONAL UPRIGHT HEADS WITHIN CONCEALED COMBUSTIBLE SPACES ABOVE CEILING IF REQUIRED BY NFPA-13 AND NO EXISTING SPRINKLER COVERAGE IS ADEQUATELY PROVIDED. SEE DETAIL FOR MORE INFORMATION.

GENERAL CONSTRUCTION NOTES

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- SPRINKLER HEAD LOCATIONS TO BE DETERMINED BY HYDRAULIC CALCULATIONS AND NFPA-13 REQUIREMENTS (TYPICAL FOR ALL SPRINKLER HEADS).

- PIPE SIZES AND LOCATIONS TO BE DETERMINED BY HYDRAULIC CALCULATIONS AND NFPA-13 REQUIREMENTS (TYPICAL FOR ALL PIPE SIZES AND LOCATIONS).
- COORDINATE FINAL SPRINKLER LOCATIONS WITH REFLECTED CEILING PLAN, DIFFUSERS, LIGHTS, KITCHEN HOODS, STRUCTURAL ELEMENTS, CEILING OBSTRUCTIONS, ETC. AND NFPA-13 REQUIREMENTS.
- SPRINKLER HEADS SHALL BE CONCEALED TYPE PENDANT HEADS IN AREAS WITH HARD OR DROP CEILINGS, OR UPRIGHT HEADS IN OPEN AREAS EXPOSED TO STRUCTURE ABOVE. SEE ARCHITECTURAL RCP PLANS FOR MORE INFORMATION.
- ALL PIPE SIZES, ROUTING, LOCATIONS, ETC. SHOWN ON THIS DRAWING ARE FOR REFERENCE ONLY. CONTRACTOR MAY RESIZE AND LOCATE PIPING PER HYDRAULIC CALCULATIONS TO PROVIDE MORE ECONOMICAL SYSTEM WHILE STILL MEETING ALL NFPA-13 REQUIREMENTS.
- SPRINKLER HEAD LOCATIONS AND QUANTITIES ARE SHOWN FOR REFERENCE ONLY. FINAL LOCATIONS, QUANTITIES, TYPES, ETC. MAY VARY BASED ON ACTUAL FIELD CONDITIONS, CEILING OBSTRUCTIONS, HYDRAULIC REQUIREMENTS, ROOM DIMENSIONS/USES, ETC. SPRINKLER CONTRACTOR SHALL INSTALL ALL HEADS IN ACCORDANCE WITH NFPA-13 AND/OR MANUFACTURER'S REQUIREMENTS.



2 FIRE PROTECTION NEW PLAN - SECOND FLOOR
SCALE: 1/8" = 1'-0"

KEYED CONSTRUCTION NOTES

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- SPRINKLER HEAD LOCATIONS TO BE DETERMINED BY HYDRAULIC CALCULATIONS AND NFPA-13 REQUIREMENTS (TYPICAL FOR ALL SPRINKLER HEADS).
- PIPE SIZES AND LOCATIONS TO BE DETERMINED BY HYDRAULIC CALCULATIONS AND NFPA-13 REQUIREMENTS (TYPICAL FOR ALL PIPE SIZES AND LOCATIONS).
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Project: Apartment Building
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Scale: AS NOTED
Sheet: FIRE PROTECTION FLOOR PLANS - NEW
FP-5



KEYED CONSTRUCTION NOTES

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Client:
**16-22 Union Street -
Apartment Building**
Client: Empire Property Construction
16-22 Union St.
Wilkes-Barre, Pa 18701

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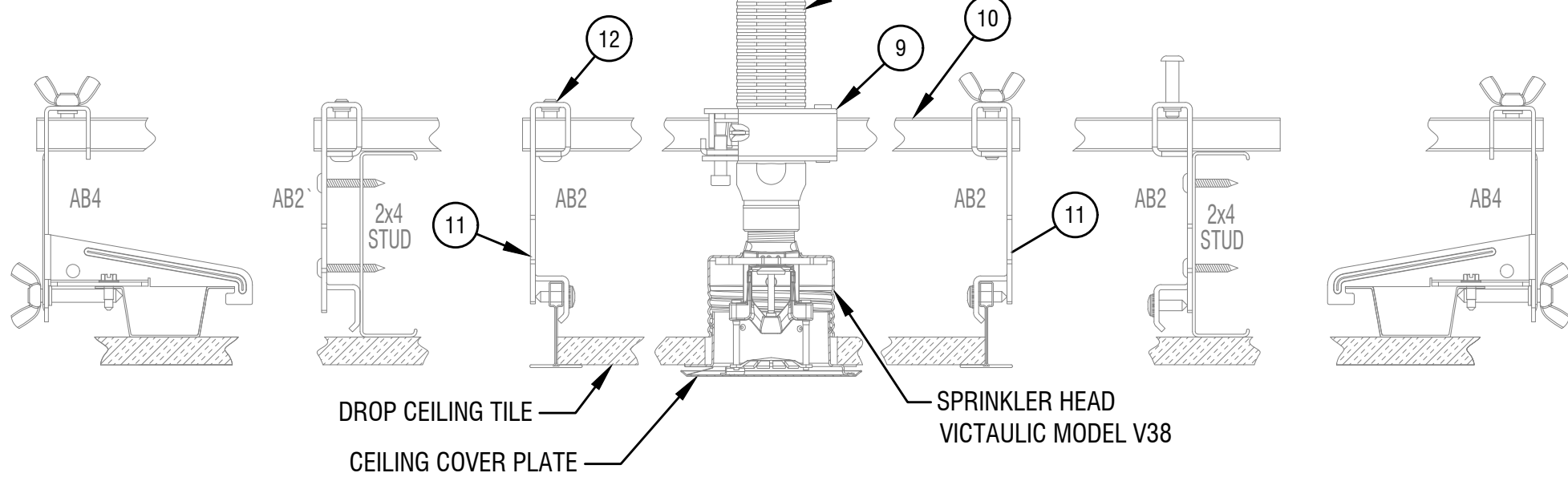
Phase:
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Project: Apartment Building
Date: 06/15/2026
Drawn: NW Checked: KJS
Scale: AS NOTED
Sheet: FIRE PROTECTION FLOOR PLANS - NEW
FP-6

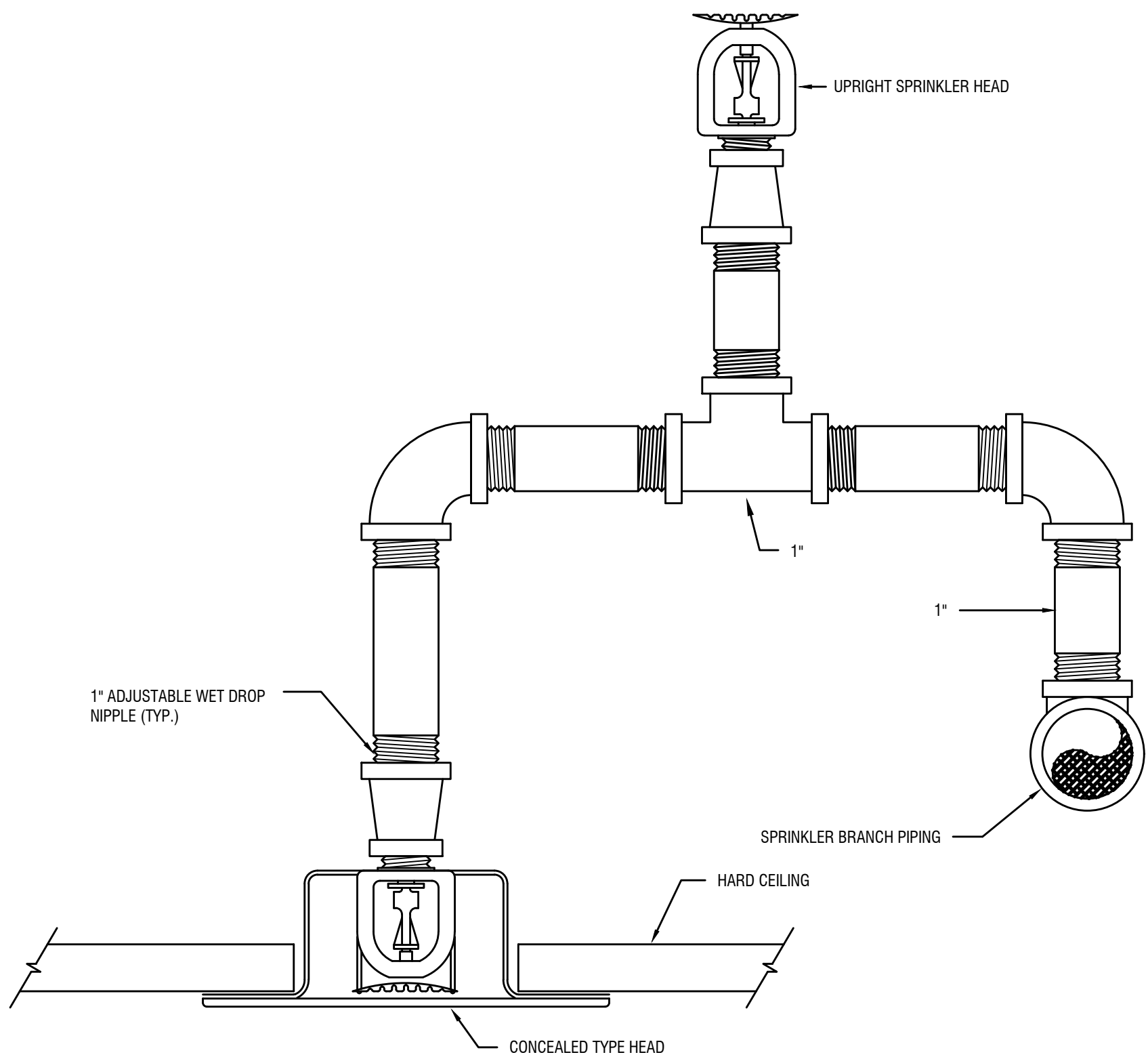
PRODUCT LEGEND	
1	INLET NIPPLE (1" FMPT)
2	NUT
3	ISOLATION RING
4	COLLAR / WELD FITTING
5	STAINLESS STEEL FLEXIBLE BRAIDED HOSE (1" NOMINAL DIAMETER)
LENGTHS AVAILABLE 31", 36" 48", 60", & 72"	
6	COLLAR / WELD FITTING
7	NUT
8	REDUCING OUTLET (AVAILABLE 1/2" OR 3/4" FMPT)
9	CENTER BRACKET ASSEMBLY
10	SQUARE BAR (AVAILABLE IN 24" AND 48" LENGTHS)
11	END BRACKET ASSEMBLY
12	SHEET METAL SCREW
13	VIC MECHANICAL-T OUTLET STYLE 922 FIRELOCK (1" FMPT)
SEE VICTAULIC SUBMITTAL NUMBER 10.85	

**BRAIDED VICFLEX FLEXIBLE
HOSE SPRINKLER ASSEMBLIES
FOR CONCEALED PENDENT SPRINKLERS**

NOTES:
1. REFER TO VICTAULIC SUBMITTAL 10.85 FOR ADDITIONAL DETAILS.

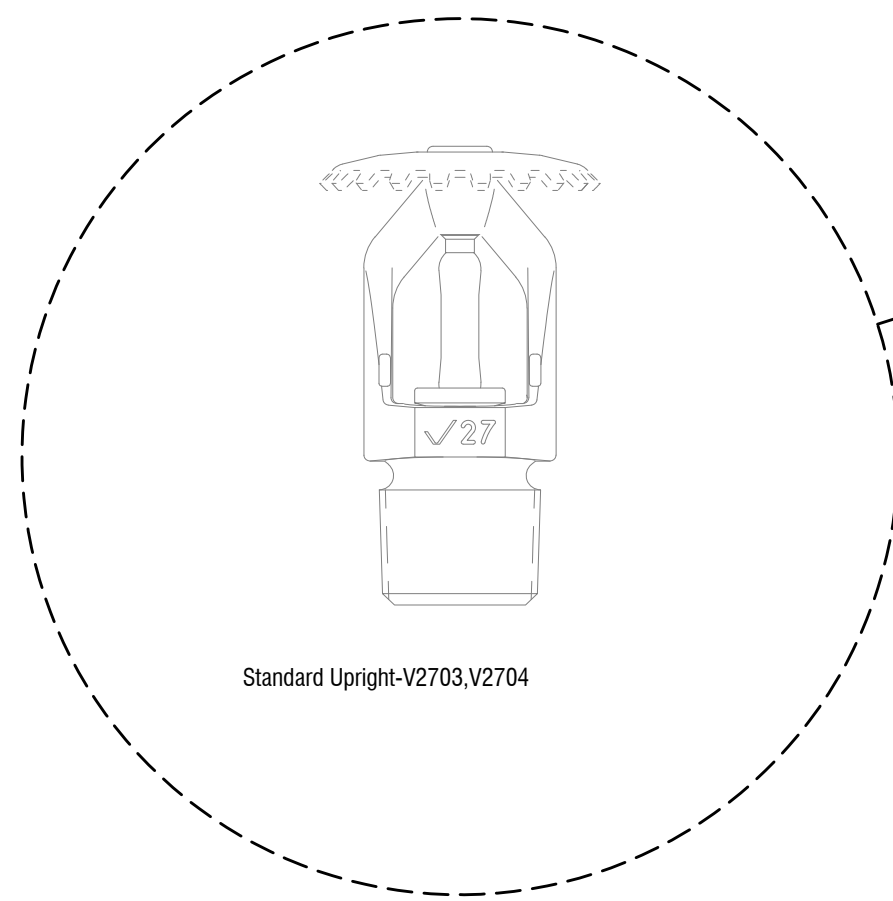


1 CONCEALED SPRINKLER INSTALLATION DETAIL (BASIS OF DESIGN)
FP-7 SCALE: NOT TO SCALE

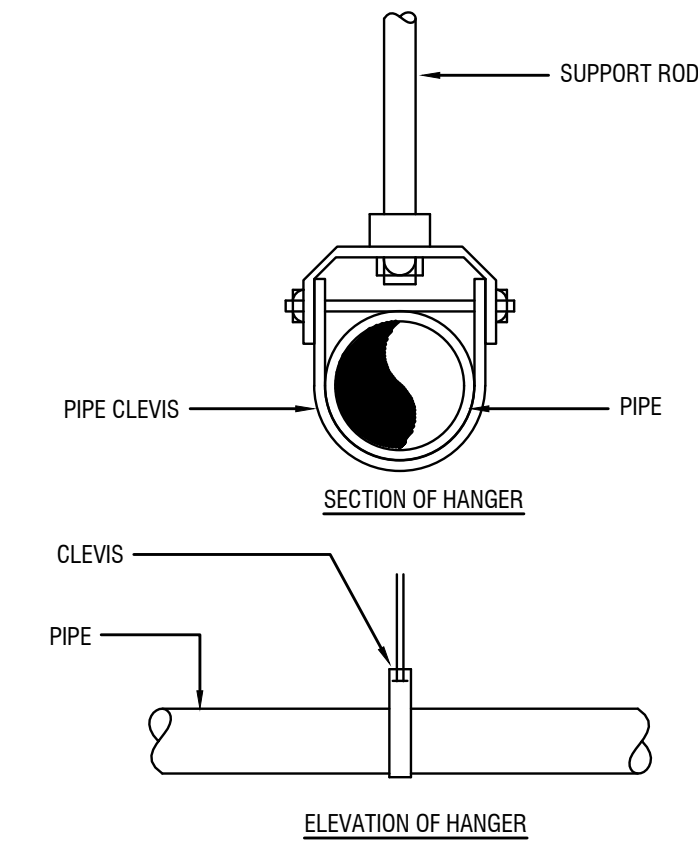
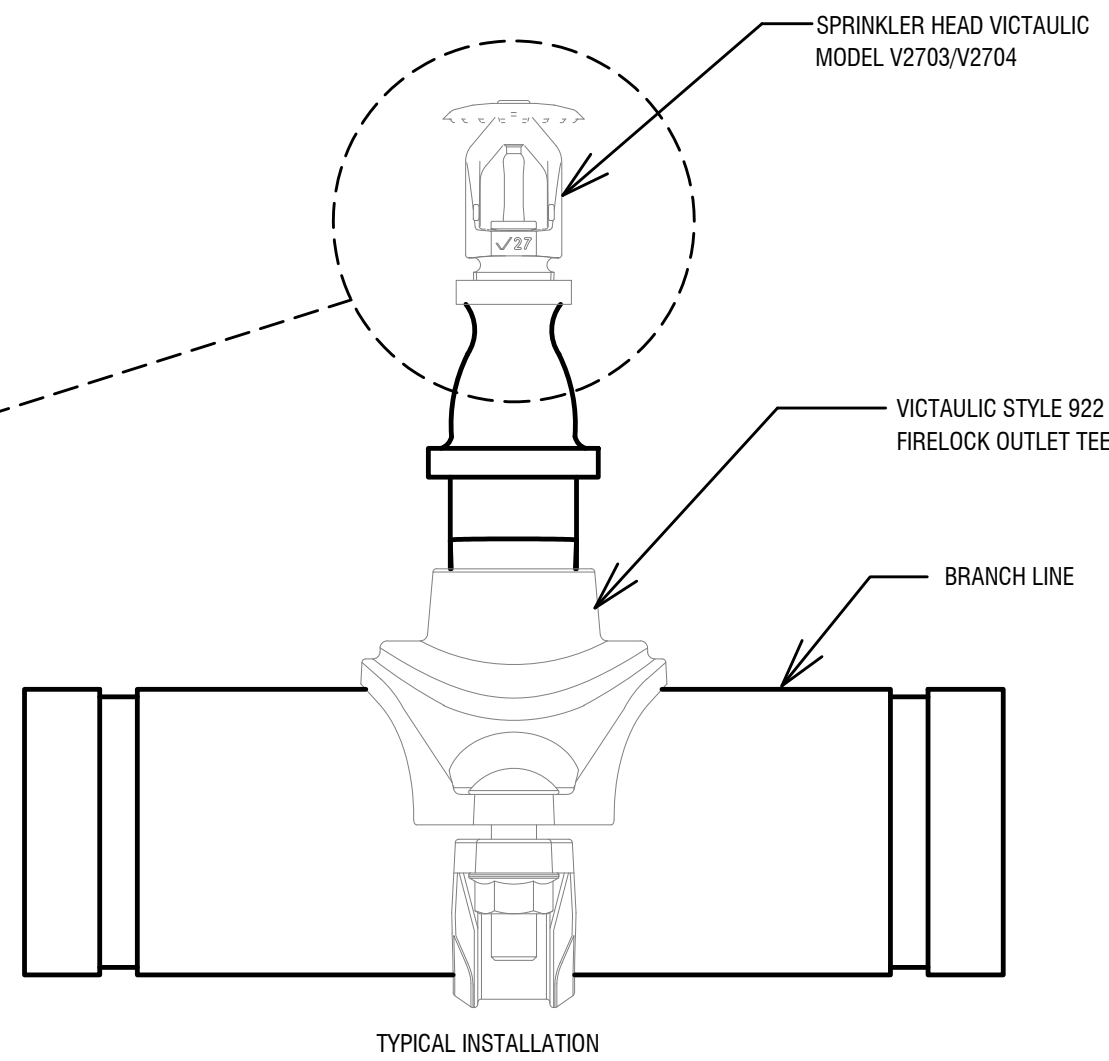


4 TYPICAL SPRINKLER INSTALLATION ABOVE AND AT CEILING LEVEL
FP-7 SCALE: N.T.S.

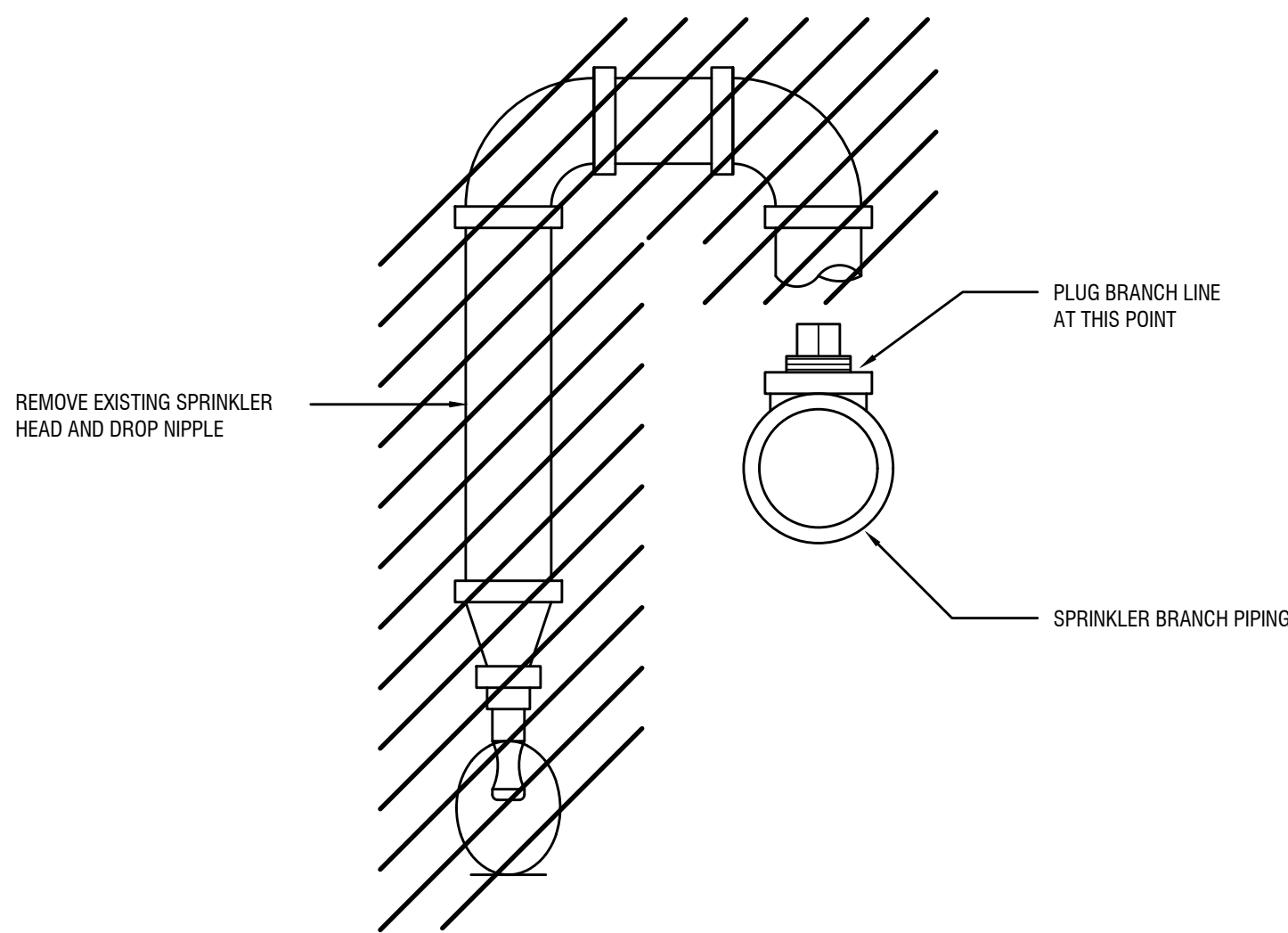
**STANDARD SPRAY UPRIGHT STANDARD AND QUICK RESPONSE VICTAULIC MODELS
V2703 AND V2704**



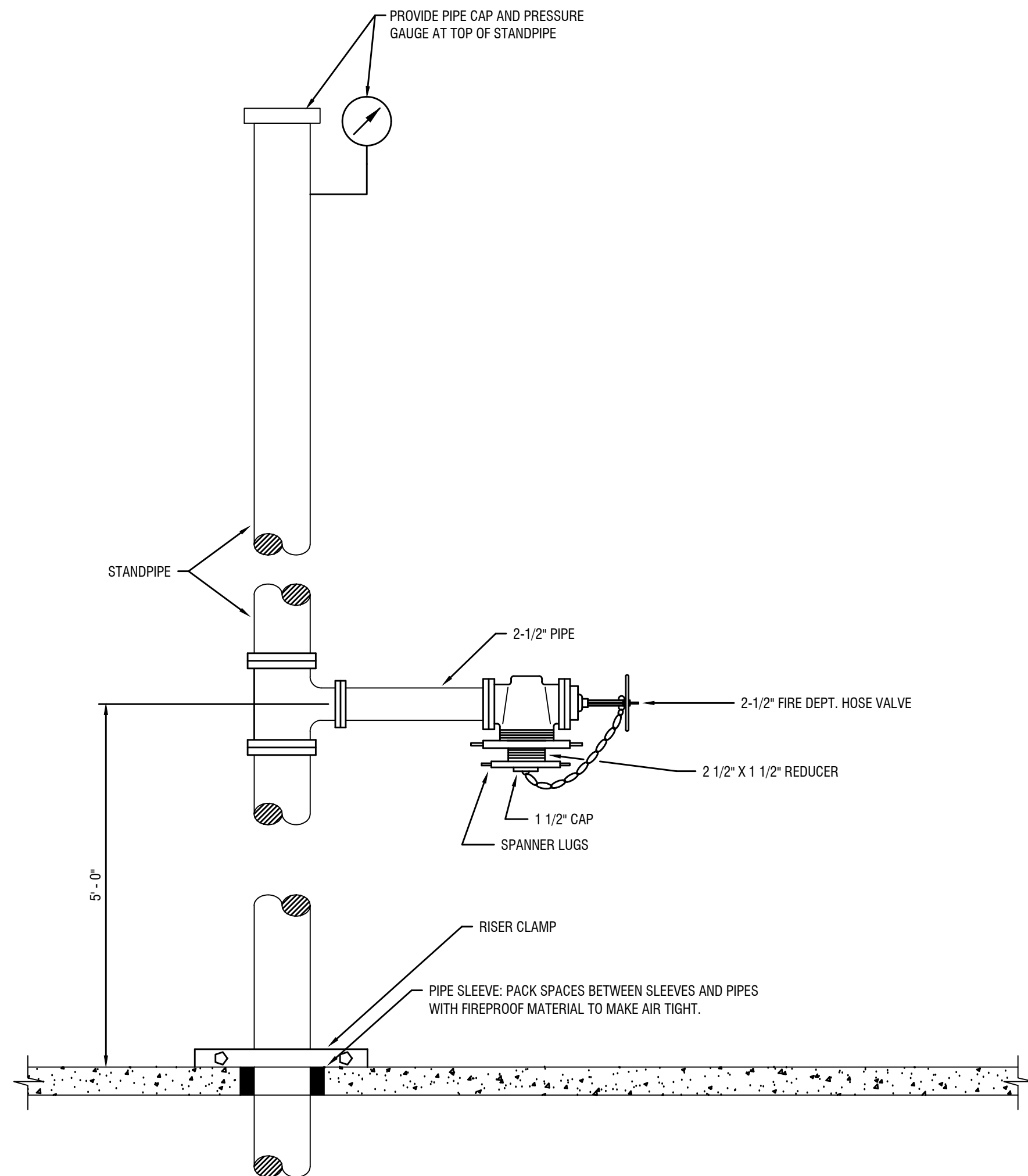
2 UPRIGHT SPRINKLER INSTALLATION DETAIL (BASIS OF DESIGN)
FP-7 SCALE: NOT TO SCALE



3 SPRINKLER HANGER DETAIL
FP-7 SCALE: NOT TO SCALE



5 SPRINKLER RETURN BEND REMOVAL DETAIL
FP-7 SCALE: NOT TO SCALE



6 STANDPIPE DETAIL
FP-7 SCALE: NOT TO SCALE

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FIRE PROTECTION DETAILS

FP-7