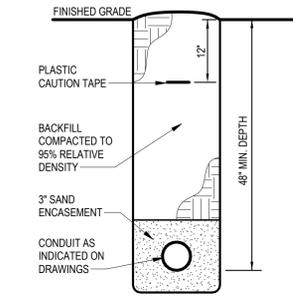
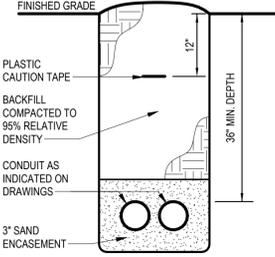


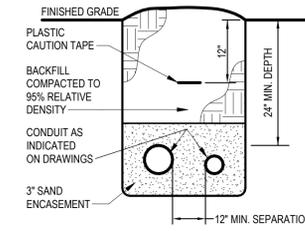
3 GROUND LIGHT DETAIL
 12" = 1'-0"



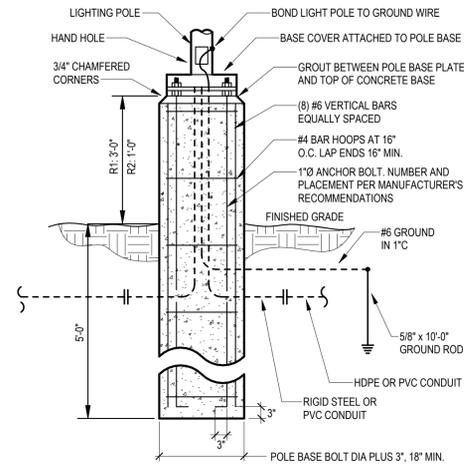
4 PRIMARY CONDUIT SECTION
 NO SCALE



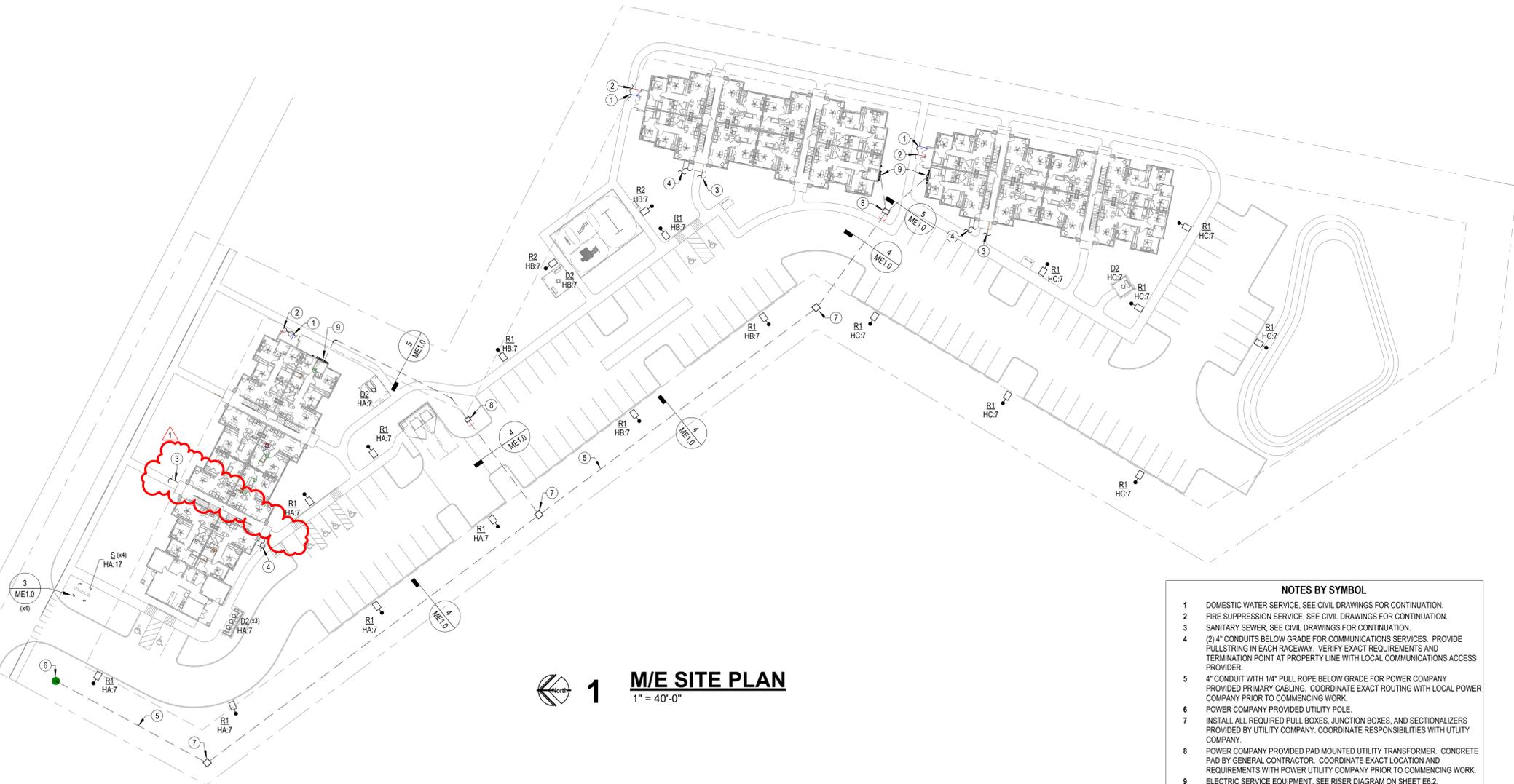
5 SERVICE LATERAL CONDUIT SECTION
 NO SCALE



6 TELECOMM CONDUIT SECTION
 NO SCALE



2 LIGHT POLE BASE DETAIL
 NO SCALE



1 M/E SITE PLAN
 1" = 40'-0"

- NOTES BY SYMBOL**
- DOMESTIC WATER SERVICE, SEE CIVIL DRAWINGS FOR CONTINUATION.
 - FIRE SUPPRESSION SERVICE, SEE CIVIL DRAWINGS FOR CONTINUATION.
 - SANITARY SEWER, SEE CIVIL DRAWINGS FOR CONTINUATION.
 - (2) 4" CONDUITS BELOW GRADE FOR COMMUNICATIONS SERVICES. PROVIDE PULLSTRING IN EACH RACEWAY. VERIFY EXACT REQUIREMENTS AND TERMINATION POINT AT PROPERTY LINE WITH LOCAL COMMUNICATIONS ACCESS PROVIDER.
 - 4" CONDUIT WITH 1/4" PULL ROPE BELOW GRADE FOR POWER COMPANY PROVIDED PRIMARY CABLING. COORDINATE EXACT ROUTING WITH LOCAL POWER COMPANY PRIOR TO COMMENCING WORK.
 - POWER COMPANY PROVIDED UTILITY POLE.
 - INSTALL ALL REQUIRED PULL BOXES, JUNCTION BOXES, AND SECTIONALIZERS PROVIDED BY UTILITY COMPANY. COORDINATE RESPONSIBILITIES WITH UTILITY COMPANY.
 - POWER COMPANY PROVIDED PAD MOUNTED UTILITY TRANSFORMER. CONCRETE PAD BY GENERAL CONTRACTOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH POWER UTILITY COMPANY PRIOR TO COMMENCING WORK.
 - ELECTRIC SERVICE EQUIPMENT, SEE RISER DIAGRAM ON SHEET E6.2.

THE RESERVES AT COBALT CIRCLE

NEW APARTMENT COMPLEX

TENNESSEE

BROWNSVILLE



REVISIONS:

1	10-29-2025	ASI #3
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DATE: 05/09/2025
 JOB: 24-3446
 SHEET NO.:

ME1.0

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Electrical Abbreviations	
1P	1 Pole (2P, 3P, 4P, ETC.)
A	Amp
AC	Above Counter
ACLG	Above Ceiling
ADO	Automatic Door Opener
AF	Amp Frame
AFB	Above Finished Floor
AFG	Above Finished Grade
AFI	Arc Fault Circuit Interrupter
AHU	Air Handling Unit
AL	Aluminum
ALT	Alternate
AMP	Ampere
AMPL	Amplifier
ANNUN	Annunciator
APPROX	Approximately
AQ-STAT	Aquastat
ARCH	Architect, Architectural
AS	Amp Switch
AT	Amp Trip
ATS	Automatic Transfer Switch
AUTO	Automatic
AUX	Auxiliary
AV	Audio Visual
AWG	American Wire Gauge
BATT	Battery
BD	Board
BLDG	Building
BMS	Building Management System
C	Conduit
CAB	Cabinet
CAT	Catalog
CATV	Cable Television
CB	Circuit Breaker
CCTV	Closed Circuit Television
CKT	Circuit
CLG	Ceiling
COMB	Combination
COMP	Compressor
CONN	Connection
CONST	Construction
CONT	Continuation Or Continuous
CONTR	Contractor
CONV	Converter
CP	Circulating Pump
CRT	Cathode-Ray Tube
CT	Current Transformer
CTR	Center
CU	Copper
DCP	Domestic Water Circulating Pump
DEPT	Department
DET	Detail
DIA	Diameter
DISC	Disconnect
DIST	Distribution
DN	Down
DPR	Damper
DS	Safety Disconnect Switch
DT	Double Throw
DWG	Drawing
EC	Electrical Contractor
ELEC	Electric, Electrical
ELEV	Elevator
ELU	Emergency Lighting Unit
EM	Emergency
EMS	Energy Management System
EMT	Electrical Metallic Tubing
EP	Electric Pneumatic
EQUIP	Equipment
EWC	Electric Water Cooler
EXIST	Existing
EXH	Exhaust
EXP	Explosion Proof
FA	Fire Alarm
FABP	Fire Alarm Booster Power Supply Panel
FACP	Fire Alarm Control Panel
FCU	Fan Coil Unit
FIXT	Fixture
FLR	Floor
FLUOR	Fluorescent
FU	Fuse
FUSD	Fused Safety Disconnect Switch
GA	Gauge
GAL	Gallon
GALV	Galvanized
GC	General Contractor
GEN	Generator
GFI	Ground Fault Circuit Interrupter
GFP	Ground Fault Protector
GND	Ground
GRS	Galvanized Rigid Steel (Conduit)
GYP BD	Gypsum Board
HCA	Hands-Off Automatic Switch
HORIZ	Horizontal
HP	Horsepower
HPF	High Power Factor
HT	Height
HTG	Heating
HTR	Heater
HV	High Voltage
HVAC	Heating, Ventilating And Air Conditioning
IC	Interrupting Capacity
IG	Isolated Ground
IMC	Intermediate Metal Conduit
INCAND	Incandescent
IR	Infrared
IW	Interlock With
J-BOX	Junction Box
KV	Kilovolt
KVA	Kilovolt-Ampere
KVAR	Kilovolt-Ampere Reactive
KW	Kilowatt
KWH	Kilowatt Hour
LOC	Locate Or Location
LT	Light
LTG	Lighting
LTNG	Lightning
LV	Low Voltage
MAX	Maximum
MAGS	Magnetic Starter
MIC	Momentary Contact
MC	Mechanical Contractor
MCB	Main Circuit Breaker
MCC	Motor Control Center
MDC	Main Distribution Center
MDP	Main Distribution Panel
MFR	Manufacturer
MFS	Main Fused Disconnect Switch
MH	Manhole
MIC	Microphone
MIN	Minimum
MISC	Miscellaneous
MLO	Main Lugs Only
MS	Manual Motor Starter
MOA	Multioutlet Assembly
MSP	Motor Starter Panelboard
MSBD	Main Switchboard
MSS	Motor Starter Switch
MT	Mount
MT-C	Empty Conduit
MTS	Manual Transfer Switch
MTR	Motor, Motorized
N.C.	Normally Closed
NEC	National Electrical Code
NEMA	National Electrical Manufacturer's Association
NFDS	Non-Fused Safety Disconnect Switch
NIC	Not in Contract
NL	Night Light
N.O.	Normally Open
NPF	Normal Power Factor
NTS	Not To Scale
ON	On Center
OH	Overhead
OL	Overloads
PA	Public Address
PB	Pull Box Or Pushbutton
PE	Pneumatic Electric
PF	Pedestal
PH	Phase
PV	Post Indicating Valve
PNL	Panel
PP	Power Pole
PR	Pair
PR1	Primary
PROJ	Projection
PRV	Power Roof Ventilator
PT	Potential Transformer
PVC	Polyvinyl Chloride (Conduit)
PHWR	Power
QUAN	Quantity
RCPT	Receptacle
REQD	Required
RM	Room
RSC	Rigid Steel Conduit
RTU	Roof Top Unit
SC	Surface Conduit
SEC	Secondary
SHT	Sheet
SIM	Similar
SLD	Single-Line Diagram
SN	Solid Neutral
SPEC	Specification
SPKR	Speaker
SP	Spare
SPP	Single-Point Power
SR	Surface Raceway
SS	Stainless Steel
SSW	Selector Switch
S/S	Stop/Start Pushbuttons
STA	Station
STD	Standard
SURF	Surface Mounted
SW	Switch
SWB	Switchboard
SYM	Symmetrical
SYS	System
TEL	Telephone
TERM	Terminal
TL	Twist Lock
TR	Tamper Resistant
T-STAT	Thermostat
TTC	Telephone Terminal Cabinet
TV	Television
TVTC	Television Terminal Cabinet
TYP	Typical
UC	Under Counter
UE	Underground Electrical
UG	Underground
UH	Unit Heater
UT	Underground Telephone
UTIL	Utility
UV	Ultraviolet
V	Volt
VA	Volt-Amperes
VDT	Video Display Terminal
VERT	Vertical
VFD	Variable Frequency Drive
VOL	Volume
W	Watt
WI	With
WG	Wire Guard
WH	Water Heater
W/O	Without
WP	Weatherproof
YFR	Transformer
XFR	Transfer
<	Angle
@	At
Δ	Delta
▲	Feet
*	Inches
#	Number
∅	Phase
C	Center Line
P	Plate

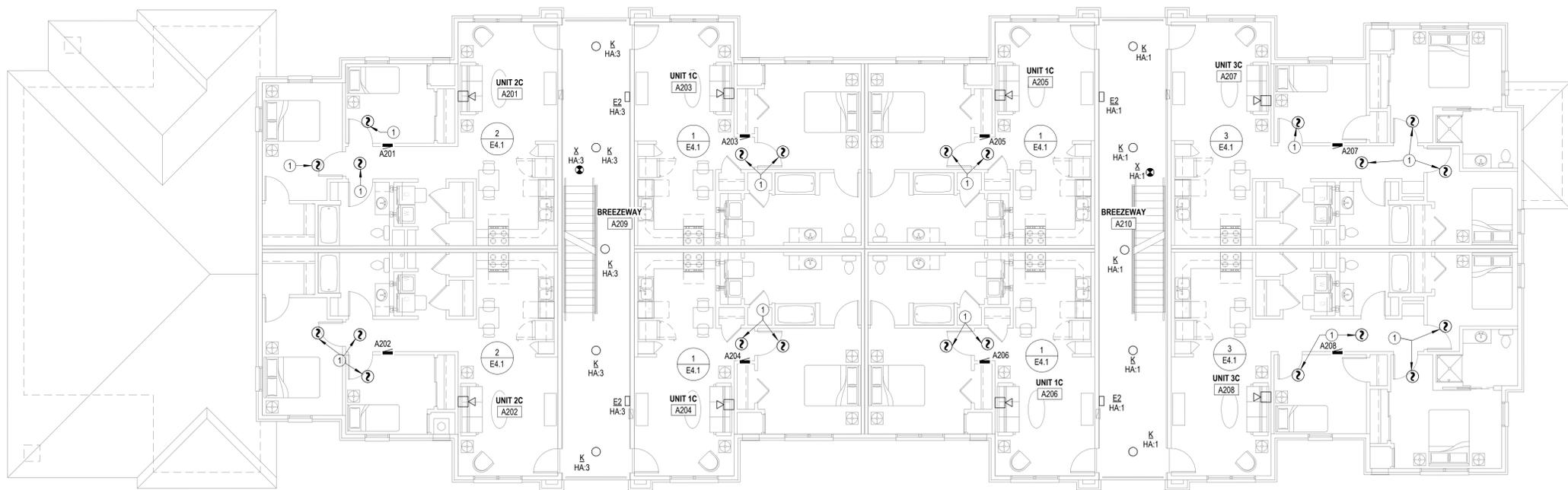
Electrical Symbol Legend	
Lighting Symbols	
	Lighting Fixtures, Typical, Rectangular (Various Symbols)
	Lighting Fixtures, Typical, Round (Various Symbols)
	Wall-mounted fixtures, Typical (Various Symbols)
	Strip Fixture
	Directional Light, Track Light, Flood Light
	Linear Light, Tape Light
	Emergency Lighting Unit, Ceiling-Mounted, Integral Battery
	Emergency Lighting Unit, Ceiling-Mounted, Remote Battery
	Emergency Lighting Unit, Wall-Mounted, Integral Battery
	Emergency Lighting Unit, Wall-Mounted, Remote Battery
	Exit Light, Ceiling-Mounted. Shading and arrows indicate faces and directional chevrons.
	Exit Light, Wall-Mounted. Shading and arrows indicate faces and directional chevrons.
	Exit/ELU Combo
	Pole/Area Lights
	Post-Top Area Light
	Bollard Light
	Hatch indicates light on an emergency or life safety circuit.
	Single-Pole Switch Two-Pole Switch Three-Pole Switch
	Switch Modifiers: 3: 3-Way 4: 4-Way K: Keypad D: Dimming T: Timer OS: Occupancy Sensor VS: Vacancy Sensor CT: Above-Counter L: Low-Voltage M: Motor-Rated
	Lighting Contactor Lighting Control Panel Occupancy Sensor Daylight Harvesting Sensor
Lighting Tags	
	Top Value: Fixture Type ID (Underlined) Bottom Value, Lowercase Letter: Switch ID Bottom Value, Number(s): Circuit Number Bottom Value, Uppercase Letter(s): Panel
	Absence of a switch designation on a lighting fixture indicates fixture is controlled by the only switch in the space. An "x" in place of the switch designation indicates unswitched.
	Switch ID indicated by a lowercase letter. Switch IDs are unique per space. A switch with an ID "a" controls all devices within the space in which it is located tagged with "a". A switch without a tagged ID controls all lighting fixtures within a space. ID tags may be used on control devices other than switches, such as occupancy sensors or contactors.
Miscellaneous	
	Area Not in Contract
	Note by Symbol
	Callout:
	Top Value: Detail Number on Sheet Bottom Value: Sheet Number of Detail
	Room Name and Number
Power Symbols	
	Wall Ceiling Floor
	Simplex Receptacle Duplex Receptacle Quadplex Receptacle Special Receptacle, Type as indicated
	Receptacle Modifiers: ##": Height AFF (to center) CT: Device Mounted Above Counter Top IG: Isolated Ground H: Device Mounted Horizontally WP: Weatherproof In-Use Cover
	Half shading indicates split (typically switched) Outside shading indicates tamperproof device Center shading indicates GFI type Full shading indicates tamperproof GFI type
	Linear Light, Tape Light Filled squares indicate 120V outlet Open squares indicate with USB
	Curt Reel, Device Varies
	Drop Cord, Device Varies
	Junction Box Overhead Floor Box, see schedule for type
	Emergency Power Off
	Door Opener Push Plate
	Power Meter
	Safety Switch, Fused Safety Switch, Unfused
	Motor Starter Combination Starter/Disconnect
	Contactor
Power Device and Equipment Tags	
	Electrical Device Tags: Uppercase letter(s) indicates Panel ID and circuit number. Lowercase letter indicates designation of controlling switch (where applicable). Equipment Tags: Equipment ID is indicated by an underlined tag adjacent to the equipment. See the equipment connection schedule for description, electrical requirements, and panel and circuit number. Symbols/graphic appearance of equipment varies.
	Wiring: Solid, arced lines connecting equipment, devices, or fixtures indicate unswitched power circuiting. Wires are only intended to indicate to what circuit devices are connected. Actual connections, circuit routing, installation, junction boxes, etc. shall be field-determined by the contractor. Dashed, arced lines connecting equipment, devices, or fixtures indicate switched power. Home run to branch circuit panelboard. The equipment name and circuit number(s) are indicated, separated by a hyphen. Home runs are only intended to indicate panel and circuit number. Actual homerun location shall be field-determined by the contractor.
Power Distribution Equipment	
	Hatched fill indicates distribution panel or switchboard. Solid fill indicates branch panel or load center. Dashed box indicates code-required clearance (width and depth). Door indicates front of recessed panel.
	Devices and fixtures are tagged with Panel and circuit number. For example, a device tagged with "A.1" indicates the device is circuted to panel designated "A," circuit number 1.
Transformer Symbols	
	Transformer: Typically transformer names begin with or contain the letter "T". See Single-Line Diagram for description and requirements.
Telecom Symbols	
	Wall Ceiling Floor
	Data Outlet Telephone Outlet Data/Telephone Outlet
	Outlet Modifiers: ##": Height AFF (to center) CT: Mounted Above Counter Top
	Wireless Access Point TV Outlet
Fire Alarm Symbols	
	Manual Pull Station Horn, Wall Horn, Ceiling Strobe, Wall, Candela as indicated Strobe, Ceiling, Candela as indicated Horn/Strobe, Wall, Candela as indicated Horn/Strobe, Ceiling, Candela as indicated Remote Indicator w/ Test Switch, Wall Remote Indicator w/ Test Switch, Ceiling Smoke Detector Duct Smoke Detector Smoke Damper Heat Detector Carbon Monoxide Detector Beam Detector T: Transmitter R: Receiver Combination Detector (Up to Three) Duct Smoke Detector Smoke Damper Door Holder Door Closer Fire Service Phone Addressable Input Module AIM: Addressable Input Module AOM: Addressable Output Control Module AIO: Addressable Input/Output Module Fire Alarm Control Unit FAA: Fire Alarm Annunciator FACP: Fire Alarm Control Panel FATC: Fire Alarm Terminal Cabinet NACP: Notification Appliance Circuit Panel FAMN: Fire Alarm Mass Notification Control Panel Supervisory or Interface Device PIV: Post Indicator Valve Supervisory PS: Pressure Switch R: Non-Addressable Relay VS: Valve Supervisory Switch WF: Water Flow Switch Security Camera PTZ: Pan/Tilt/Zoom Card Reader Card Reader with Keypad Closed Circuit TV Outlet Door Contact Electric Strike Intercom Magnetic Lock Request to Exit Button Request to Exit Sensor Motion Detector Security Control Panel SCP: Security Control Panel SPS: Security Power Supply Unit Existing to Remain To Be Demolished New

GENERAL ELECTRICAL NOTES	
A.	COORDINATE INSTALLATION OF ELECTRICAL WORK ABOVE THE CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF PLUMBING AND MECHANICALS. INSTALLATION. CONDUITS SHALL BE ROUTED THROUGH JOIST WEBS WHERE POSSIBLE.
B.	VERIFY EXACT PLACEMENT OF ALL LUMINAIRES, DEVICES, AND EQUIPMENT SHOWN ON THE ELECTRICAL CONSTRUCTION DOCUMENTS WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS PRIOR TO FINAL PLACEMENT.
C.	ELECTRICAL EQUIPMENT AND DEVICES SHALL BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C CONDUCTOR TERMINATION.
D.	DEFINITION OF TERMS "SHALL": ACTION THAT IS REQUIRED WITHOUT OPTION OR QUALIFICATION. "FURNISH": CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING. "INSTALL": CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND CONSTRUCTION EQUIPMENT NECESSARY TO SET IN PLACE, CONNECT, CALIBRATE AND TEST EQUIPMENT FURNISHED BY HIM OR OTHERS. "PROVIDE": CONTRACTOR SHALL FURNISH AND INSTALL.
MOUNTING HEIGHT REQUIREMENTS: UNLESS SPECIFICALLY INDICATED OTHERWISE, THE FOLLOWING MOUNTING HEIGHTS SHALL APPLY:	
	RECEPTACLES 16" TO BOTTOM TELECOMMUNICATIONS OUTLETS 16" TO BOTTOM LIGHT SWITCHES 48" TO TOP THERMOSTATS 48" TO TOP HUMIDISTATS 48" TO TOP FIRE ALARM PULL STATIONS 48" TO TOP FIRE ALARM NOTIFICATION DEVICES LOWER OF: 88" TO BOTTOM OR TOP AT 6" BELOW CEILING
GENERAL LIGHTING NOTES	
A.	THE CIRCUITING OF ALL LUMINAIRES HAS BEEN SHOWN ON THE PLANS, AND THE CONTRACTOR SHALL FOLLOW THIS CIRCUITING LAYOUT.
B.	CIRCUIT ALL EMERGENCY LIGHTS, NIGHT LIGHTS AND EXIT LIGHTS TO AN UNSWITCHED HOT CONDUCTOR, UPSTREAM OF ALL CONTROLS.
C.	DIRECT CURRENT POWER WIRING FROM EXIT SIGNS TO REMOTE EXTERIOR EMERGENCY LIGHTING HEADS SHALL BE (2) #10 IN 1/2" CONDUIT UNLESS NOTED OTHERWISE.
D.	IN AREAS WHERE CEILING MOUNTED OCCUPANCY SENSORS ARE USED FOR LIGHTING CONTROL IN CONJUNCTION WITH WALL SWITCHES, OCCUPANCY SENSOR/POWER PACK SHALL SWITCH LEG SHALL BE WIRED IN SERIES WITH WALL SWITCHES TO PROVIDE OVERRIDE "OFF" CONTROL FOR LIGHTS.
E.	CONTROL WIRING FOR 0-10 V-dc DIMMING SIGNAL CIRCUITS SHALL BE NEC CLASS 1, ROUTED IN SAME RACEWAY/CABLE WITH LIGHTING CIRCUIT POWER CONDUCTORS. WIRING SHALL CONSIST OF (2) #16 SOLID CU THHN OR TFN CONDUCTORS. CONDUCTOR INSULATION COLOR SHALL BE VIOLET (+ V-dc) AND PINK (- V-dc). WHERE MC-CABLE IS USED FOR FINAL 6" POWER CONNECTION WHIP TO LUMINAIRE, UTILIZE "LUMINARY" TYPE MC-CABLE WITH INTEGRAL CLASS 1 CONTROL WIRING.
GENERAL POWER NOTES	
A.	THE CIRCUITING OF ALL DEVICES HAS BEEN SHOWN ON THE PLANS, AND THE CONTRACTOR SHALL FOLLOW THIS CIRCUITING LAYOUT.
B.	VERIFY EXACT LOCATIONS OF HVAC AND PLUMBING EQUIPMENT WITH THE GENERAL CONTRACTOR AND ASSOCIATED SUBCONTRACTORS. COORDINATE CONDUIT STUB-UP AND POWER CONNECTIONS PRIOR TO COMMENCING ROUGH-IN WORK. ELECTRICAL DEVICES (DISCONNECTS, RECEPTACLES, ETC.) INSTALLED ON EQUIPMENT SHALL BE MOUNTED ON A NON-REMOVABLE PANEL OF THE EQUIPMENT. FIELD COORDINATE EXACT DEVICE MOUNTING LOCATIONS PRIOR TO INSTALLATION.
C.	WALL MOUNTED HVAC CONTROL DEVICES (THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, CO ₂ SENSORS, ETC) SHALL BE PROVIDED BY MECHANICAL CONTRACTOR. UNLESS NOTED OTHERWISE, ELECTRICAL CONTRACTOR SHALL PROVIDE SINGLE GANG WALL BOX WITH 1/2" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS AND PULLSTRING IN RACEWAY. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF DEVICES.
GENERAL TELECOMMUNICATIONS NOTES	
A.	PROVIDE THE FOLLOWING RACEWAY ROUGH-IN FOR TELECOMMUNICATIONS OUTLET TYPES INDICATED: - WALL PHONE OUTLET: 2"x4"x2-1/8" DEEP DEVICE BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. - PHONE/DATA OUTLET: 4-11/16" SQUARE x 3-1/4" DEEP BOX (RACO #260 OR EQUAL) WITH 1-GANG DEVICE RING AND 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. - TV OUTLET: 4-11/16" SQUARE x 3-1/4" DEEP BOX (RACO #260 OR EQUAL) WITH 2-GANG DEVICE RING AND (1) 2" CONDUIT TO ABOVE ACCESSIBLE CEILING
B.	PROVIDE NYLON BUSHINGS FOR ALL CONDUIT ENDS NOT CONNECTED TO A BOX OR FITTING TO PROTECT CABLING FROM DAMAGE.
C.	CONDUITS FROM EACH OUTLET SHALL BE STUBBED 2" ABOVE THE FINISHED CEILING IN AREAS WITH ACCESSIBLE TILES. IN AREAS WITH OPEN CEILING, STUB CONDUIT INTO STRUCTURAL JOIST SPACE.
D.	PROVIDE BLANK STAINLESS STEEL COVER PLATES FOR ALL OUTLETS NOT ACTIVATED BY OWNER.
E.	PROVIDE SUITABLE PULL STRING IN ALL CONDUITS.
F.	ALL TELECOMMUNICATIONS AND AV CABLING, JACKS, CONNECTORS, TERMINATIONS, EQUIPMENT AND TESTING SHALL BE PROVIDED BY OWNER.
GENERAL FIRE ALARM NOTES	
A.	FIRE ALARM CABLING SHALL BE INSTALLED IN CONDUIT WHERE EXPOSED, INACCESSIBLE, AND WHERE SUBJECT TO PHYSICAL DAMAGE.
B.	DUCT TYPE SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY FIRE ALARM CONTRACTOR, INSTALLED IN DUCT BY MECHANICAL CONTRACTOR.
C.	FIRE ALARM SYSTEM HVAC SHUT DOWN RELAYS SHALL BE PROVIDED AND WIRED TO FIRE ALARM CONTROL PANEL BY FIRE ALARM CONTRACTOR. LOCATE RELAYS WITHIN 5' OF HVAC EQUIPMENT AND PROVIDE CONDUIT WITH PULL STRING FROM RELAY TO EQUIPMENT. UNIT SHUT DOWN CONTROL WIRING SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.
D.	AT LOCATION OF SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS, PROVIDE DUCT OR AREA SMOKE DETECTOR (AS SHOWN ON PLANS) WITHIN 5' OF DAMPER AND WIRE TO FIRE ALARM CONTROL PANEL. PROVIDE FIRE ALARM RELAY FOR CONTROL OF 120V POWER TO DAMPER ACTUATOR. DAMPER SHALL CLOSE UPON DETECTION OF SMOKE.
E.	IN ADDITION TO VALVES INSTALLED ON FIRE SPRINKLER SYSTEM RISER, ALL VALVES INSTALLED OUTSIDE THE BUILDING (POST INDICATOR VALVE, TAPPING SLEEVE VALVE, ETC.) SHALL BE SUPERVISED BY THE FIRE ALARM SYSTEM. PROVIDE ADDRESSABLE MONITORING MODULE AND SURGE PROTECTION DEVICE (DTEK #DTEK-2MH-PAB) FOR EACH MONITORED VALVE. COORDINATE WITH GC AND SITE WORK CONTRACTOR FOR ALL VALVES INSTALLED. MONITORING IS NOT REQUIRED FOR VALVES INSTALLED IN ROADWAY BOXES BY THE MUNICIPALITY/PUBLIC UTILITY.

Electrical Sheet List	
E0.1	ELECTRICAL TITLE SHEET
E1.1	ELECTRICAL PLANS BUILDING A
E1.2	ELECTRICAL PLANS BUILDING A
E1.3	ELECTRICAL PLANS BUILDING B
E1.4	ELECTRICAL PLANS BUILDING B
E4.1	ENLARGED ELECTRICAL PLANS
E6.1	ELECTRICAL SCHEDULES
E6.2	ELECTRICAL RISER DIAGRAMS
E6.3	ELECTRICAL PANEL SCHEDULES

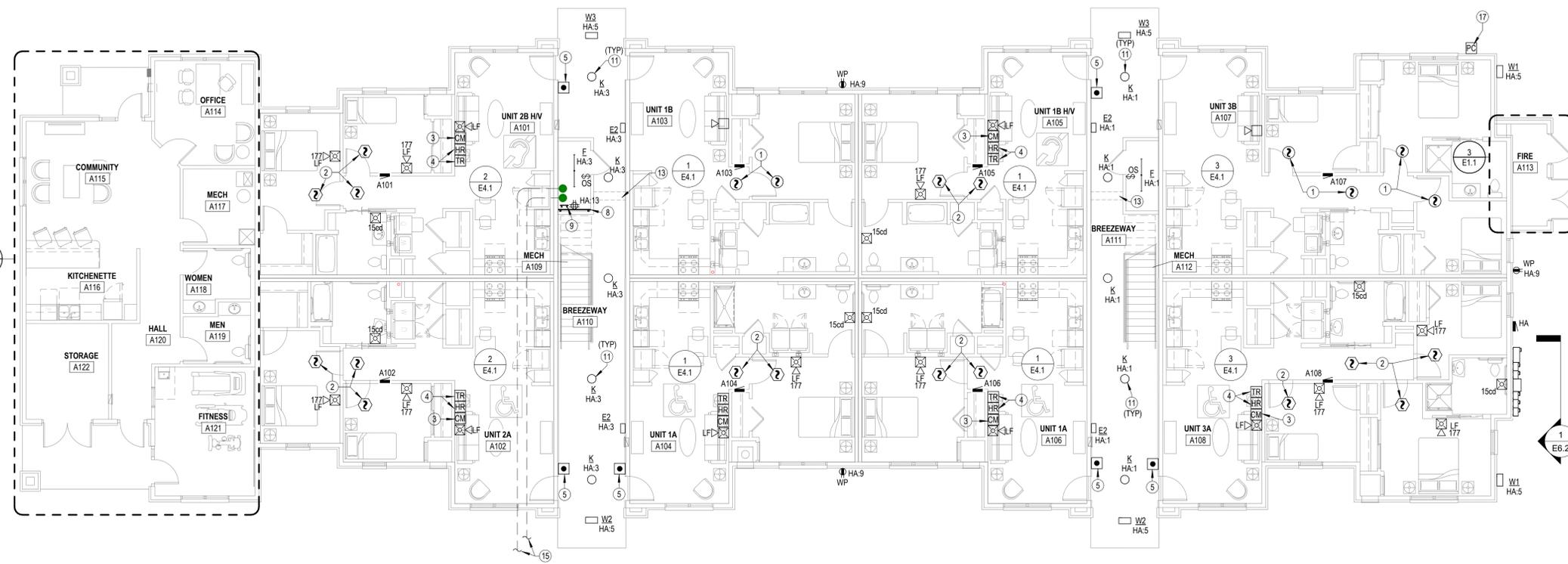


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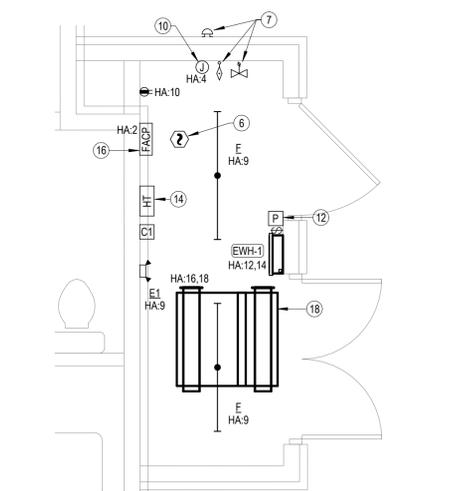


- NOTES BY SYMBOL**
- 1 CEILING MOUNTED SMOKE ALARM IN APARTMENTS TO BE 120VAC WITH 9V BATTERY BACKUP. INTERCONNECTED TO OTHERS IN SAME APARTMENT. DEVICE SHALL HAVE PHOTOELECTRIC TYPE SMOKE DETECTOR WITH SOUNDER HORN HAVING AN 85 db OUTPUT AT 10'. SHALL HAVE A SINGLE BUTTON FOR TEST/SILENCE AND LED INDICATOR LIGHTS, AND SHALL BE UL 217 LISTED, BRK #SC701L.BL OR EQUAL.
 - 2 FIRE ALARM SMOKE DETECTOR.
 - 3 FIRE ALARM ADDRESSABLE CONTROL MODULE FOR CONTROL OF APARTMENT UNITS NOTIFICATION APPLIANCE CIRCUIT. MODULE SHALL BE PROGRAMMED TO ACTIVATE APARTMENT UNITS NOTIFICATION APPLIANCES UPON GENERAL BUILDING FIRE ALARM AND UPON ACTIVATION OF ANY SMOKE DETECTOR OR CO DETECTOR WITHIN APARTMENT UNIT. MOUNT FLUSH IN WALL AT 8'-0" AFF.
 - 4 PROVIDE DOOR ANNUNCIATOR SYSTEM AV HORN/STROBE DEVICE AND LOW VOLTAGE TRANSFORMER AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED HEARING-IMPAIRED. INSTALL HORN/STROBE APPLIANCE AT 8' AFF. INSTALL TRANSFORMER IN DOUBLE GANG JUNCTION BOX ABOVE HORN/STROBE WITH BLANK COVER PLATE AND PROVIDE LOW VOLTAGE CONTROL WIRING. SEE DETAIL #, SHEET E.#. PROVIDE ENGRAVED SIGN AT THE HORN/STROBE DEVICE TO READ "DOOR"
 - 5 PROVIDE PUSH BUTTON AT 48" AFF FOR ANNUNCIATOR SYSTEM AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED FOR HEARING-IMPAIRED. REFER TO ARCH DRAWINGS FOR APPLICABLE ROOMS. SEE DETAIL #, SHEET E.#.
 - 6 PROVIDE SMOKE DETECTOR ABOVE FACP AND CONNECT TO FIRE ALARM SYSTEM.
 - 7 PROVIDE ADDRESSABLE FIRE ALARM RELAYS AND MONITORING MODULES FOR ALL FIRE SPRINKLER FLOW SWITCHES, TAMPER SWITCHES AND BELL/RING. COORDINATE QUANTITIES AND LOCATIONS WITH FIRE SPRINKLER CONTRACTOR.
 - 8 COVER WALL WITH 4"x8"x3/4" ACX FIRE RETARDANT PLYWOOD SHEETS INSTALLED VERTICALLY WITH BOTTOM AT 5" AFF. PLYWOOD SHALL BE PERMANENTLY FASTENED TO THE WALL BY MEANS OF WALL ANCHORS UTILIZING GALVANIZED, ZINC PLATED, OR STAINLESS STEEL HARDWARE WITH A FLAT HEAD. FINISHED INSTALLATION SHALL HAVE FLUSH APPEARANCE WITH COUNTERSUNK SCREW HEADS TO PREVENT SPLITTING OF THE PLYWOOD. DRYWALL SCREWS ARE NOT ACCEPTABLE. PAINT WITH TWO COATS OF LIGHT GRAY FIRE RETARDANT SEALER PRIOR TO INSTALLATION OF ANY EQUIPMENT.
 - 9 TELECOMMUNICATIONS GROUND BAR SHALL BE 13-1/4" W x 2 1/4" x 1/4" THICK ELECTRO-TIN PLATED COPPER BUS BAR, COMPLETE WITH INSULATED STAND-OFFS AND STAINLESS STEEL BRACKETS. ERICO #TGBA14L06PT OR EQUAL. MOUNT AT 18" AFF. ALL CONNECTIONS TO GROUND BAR SHALL BE MADE USING COMPRESSION TYPE LUGS.
 - 10 120V POWER FOR FIRE SPRINKLER SYSTEM FLOW SWITCH(ES) AND BELL. PROVIDE #8 CU BONDING JUMPER FROM CIRCUIT EQUIPMENT GROUNDING CONDUCTOR TO METAL SPRINKLER SYSTEM PIPING AT AN ACCESSIBLE LOCATION PER NEC 250.104(B). COORDINATE WORK WITH FIRE SPRINKLER SYSTEM INSTALLER.
 - 11 CIRCUIT BREEZEWAY LIGHTS FOR CONTINUOUS OPERATION. SEE FLOORS ABOVE FOR CONTINUATION OF BREEZEWAY LIGHTING CIRCUIT.
 - 12 PROVIDE MANUAL PULL STATION AT FACP CLOSET AND CONNECT TO FIRE ALARM SYSTEM.
 - 13 WHERE FIRE PROTECTION PIPING MUST CROSS HALLWAY, ROUTE IN SOFFIT. PROVIDE HEAT TRACE AND INSULATE PIPING IN SOFFIT PER HEAT TRACE MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL REQUIRED HEAT TRACE COMPONENTS AND CONTROLS FOR FREEZE PROTECTION OF PIPING. SEE WATER RISER CLOSET FOR MORE INFORMATION.
 - 14 PROVIDE HEAT TRACE CONTROLLER EQUAL TO CHROMALOX INTELLITRACE ITC-FS DIGITAL HEAT TRACE CONTROLLER WITH (2) CIRCUITS. PROVIDE (2) 20 AMP CIRCUITS. (1) FOR EACH BREEZEWAY. ROUTE CIRCUITS FROM PANEL HA-1 TO HEAT TRACE CONTROLLER. EXTEND LINE VOLTAGE AND LOW VOLTAGE MONITORING CABLING FROM HEAT TRACE CONTROLLER TO EACH FIRE SUPPRESSION BREEZEWAY CROSSING.
 - 15 (2) 2" CONDUITS FOR COMMUNICATIONS SERVICES. SEE SITE PLAN FOR CONTINUATION.
 - 16 PROVIDE (2) CAT 5e UTP, NEC TYPE 'CMP' CABLES (SUPERIOR ESSEX #51-241-48 OR EQUAL) IN 3/4" CONDUIT FROM FACP TO MAIN TELECOM TERMINAL BOARD FOR CONNECTION TO FA SYSTEM DUCT FOR REMOTE MONITORING.
 - 17 PROVIDE PHOTOCELL ON NORTH SIDE OF BUILDING FOR OPERATION OF PARKING LOT LIGHTS AND BUILDING MOUNTED LIGHTS. SEE DETAIL X#6.X FOR MORE INFORMATION.
 - 18 PROVIDE ALTERNATE BID TO CONNECT DOMESTIC WATER BOOSTER PUMP.

2 BUILDING A-SECOND FLOOR-POWER PLAN
 1/8" = 1'-0"



1 BUILDING A-FIRST FLOOR-POWER PLAN
 1/8" = 1'-0"



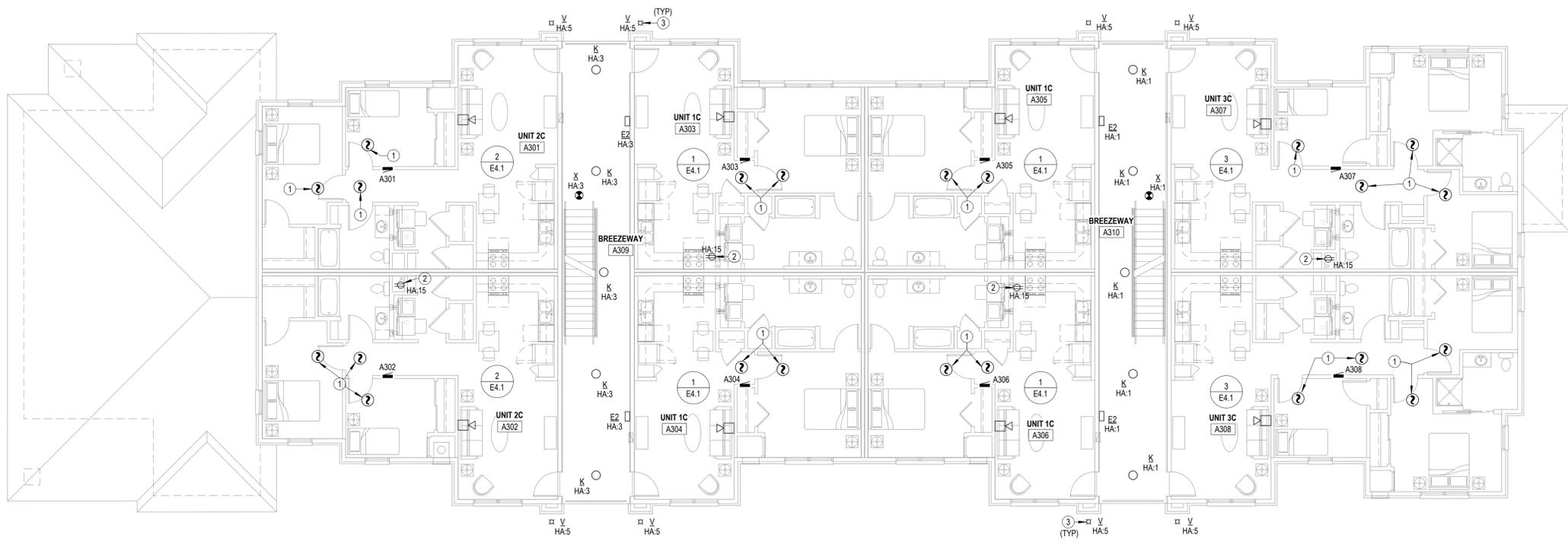
3 BUILDING A-WATER RISER CLOSET
 3/8" = 1'-0"



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- NOTES BY SYMBOL**
- 1 CEILING MOUNTED SMOKE ALARM IN APARTMENTS TO BE 120VAC WITH 9V BATTERY BACKUP, INTERCONNECTED TO OTHERS IN SAME APARTMENT. DEVICE SHALL HAVE PHOTOELECTRIC TYPE SMOKE DETECTOR WITH SOUNDER HORN HAVING AN 85 db OUTPUT AT 10'. SHALL HAVE A SINGLE BUTTON FOR TEST/SILENCE AND LED INDICATOR LIGHTS, AND SHALL BE UL 217 LISTED, BRK #SC701LBI OR EQUAL.
 - 2 PROVIDE RECEPTACLE IN ATTIC NEAR RADON PIPE FOR FUTURE RADON FAN.
 - 3 DOWNLIGHTS TO BE INSTALLED IN SOFFIT ABOVE THIRD FLOOR.



1 BUILDING A-THIRD FLOOR-POWER PLAN
 1/8" = 1'-0"

THE RESERVES AT COBALT CIRCLE

NEW APARTMENT COMPLEX

TENNESSEE

BROWNSVILLE



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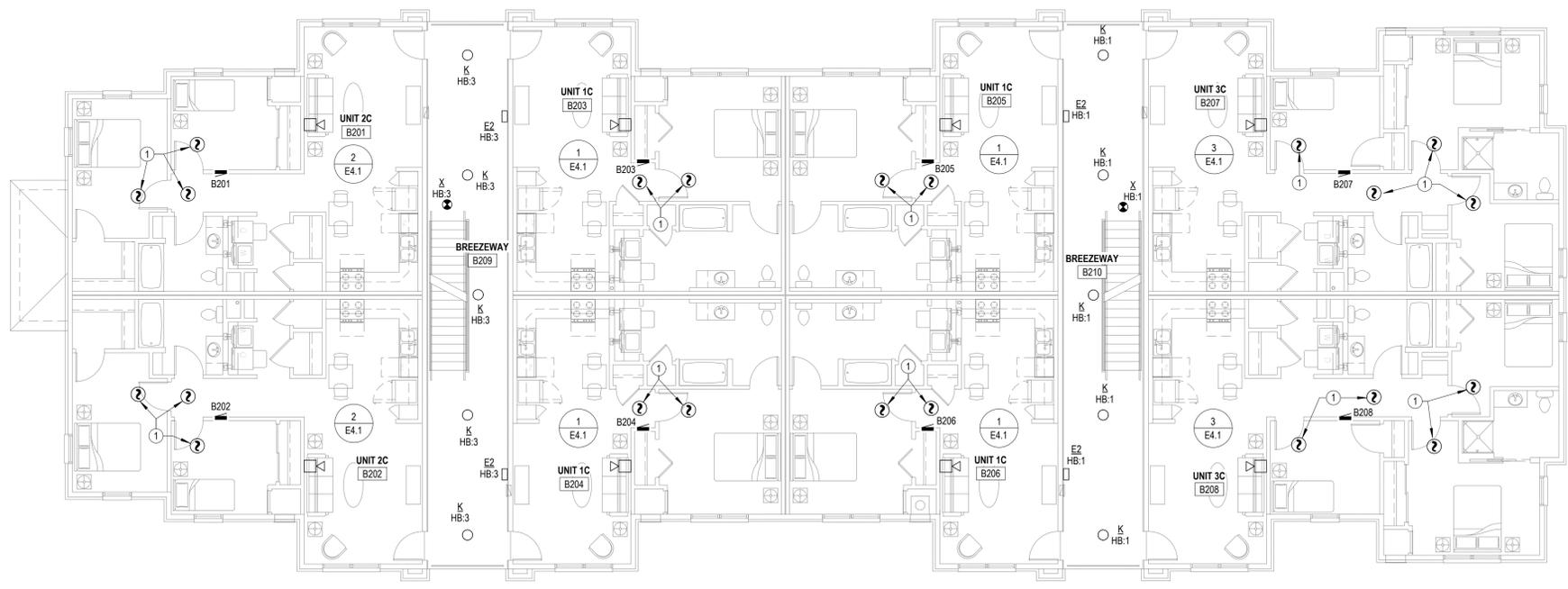
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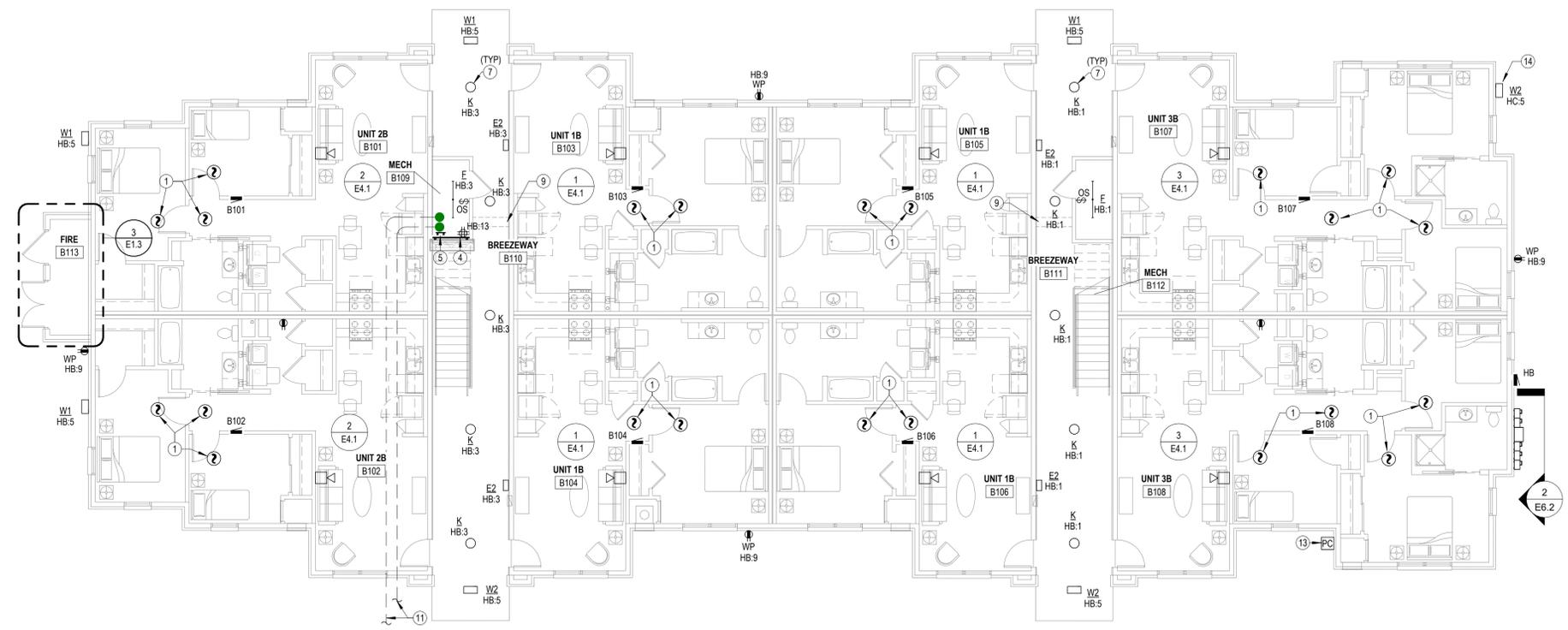
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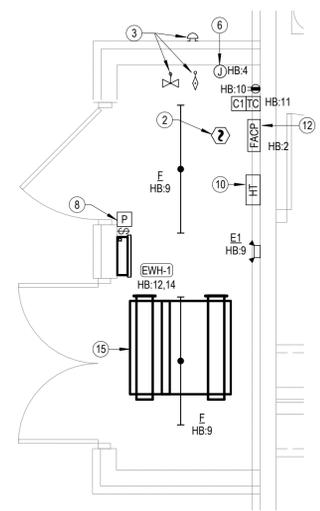
- NOTES BY SYMBOL**
- 1 CEILING MOUNTED SMOKE ALARM IN APARTMENTS TO BE 120VAC WITH 9V BATTERY BACKUP, INTERCONNECTED TO OTHERS IN SAME APARTMENT. DEVICE SHALL HAVE PHOTOELECTRIC TYPE SMOKE DETECTOR WITH SOUNDER HORN HAVING AN 85 db OUTPUT AT 10'. SHALL HAVE A SINGLE BUTTON FOR TEST/SILENCE AND LED INDICATOR LIGHTS, AND SHALL BE UL 217 LISTED, BRK #SC701BL OR EQUAL.
 - 2 PROVIDE SMOKE DETECTOR ABOVE FACP AND CONNECT TO FIRE ALARM SYSTEM.
 - 3 PROVIDE ADDRESSABLE FIRE ALARM RELAYS AND MONITORING MODULES FOR ALL FIRE SPRINKLER FLOW SWITCHES, TAMPER SWITCHES AND BELLRING. COORDINATE QUANTITIES AND LOCATIONS WITH FIRE SPRINKLER CONTRACTOR.
 - 4 COVER WALL WITH 4'x8'x3/4" ACX FIRE RETARDANT PLYWOOD SHEETS INSTALLED VERTICALLY WITH BOTTOM AT 6" AFF. PLYWOOD SHALL BE PERMANENTLY FASTENED TO THE WALL BY MEANS OF WALL ANCHORS UTILIZING GALVANIZED, ZINC PLATED, OR STAINLESS STEEL HARDWARE WITH A FLAT HEAD. FINISHED INSTALLATION SHALL HAVE FLUSH APPEARANCE WITH COUNTERSUNK SCREW HEADS TO PREVENT SPLITTING OF THE PLYWOOD. DRYWALL SCREWS ARE NOT ACCEPTABLE. PAINT WITH TWO COATS OF LIGHT GRAY FIRE RETARDANT SEALER PRIOR TO INSTALLATION OF ANY EQUIPMENT.
 - 5 TELECOMMUNICATIONS GROUND BAR SHALL BE 13-1/4"W x 2"H x 1/4" THICK ELECTRO-TIN PLATED COPPER BUS BAR, COMPLETE WITH INSULATED STAND-OFFS AND STAINLESS STEEL BRACKETS, ERICO #TGBA140PT OR EQUAL. MOUNT AT 18" AFF. ALL CONNECTIONS TO GROUND BAR SHALL BE MADE USING COMPRESSION TYPE LUGS.
 - 6 120V POWER FOR FIRE SPRINKLER SYSTEM FLOW SWITCH(ES) AND BELL PROVIDE #8 CU BONDING JUMPER FROM CIRCUIT SWITCH(ES) GROUNDING CONDUCTOR TO METAL SPRINKLER SYSTEM PIPING AT AN ACCESSIBLE LOCATION PER NEC 250.104(B). COORDINATE WORK WITH FIRE SPRINKLER SYSTEM INSTALLER.
 - 7 CIRCUIT BREEZEWAY LIGHTS FOR CONTINUOUS OPERATION. SEE FLOORS ABOVE FOR CONTINUATION OF BREEZEWAY LIGHTING CIRCUIT.
 - 8 PROVIDE MANUAL PULL STATION AT FACP CLOSET AND CONNECT TO FIRE ALARM SYSTEM.
 - 9 WHERE FIRE PROTECTION PIPING MUST CROSS HALLWAY, ROUTE IN SOFFIT. PROVIDE HEAT TRACE AND INSULATE PIPING IN SOFFIT PER HEAT TRACE MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL REQUIRED HEAT TRACE COMPONENTS AND CONTROLS FOR FREEZE PROTECTION OF PIPING. SEE WATER RISER CLOSET FOR MORE INFORMATION.
 - 10 PROVIDE HEAT TRACE CONTROLLER EQUAL TO CHROMALOX INTELLITRACE ITC-FS DIGITAL HEAT TRACE CONTROLLER WITH (2) CIRCUITS. PROVIDE (2) 20 AMP CIRCUITS, (1) FOR EACH BREEZEWAY. ROUTE CIRCUITS FROM PANEL 'HA' TO HEAT TRACE CONTROLLER. EXTEND LINE VOLTAGE AND LOW VOLTAGE MONITORING CABLING FROM HEAT TRACE CONTROLLER TO EACH FIRE SUPPRESSION BREEZEWAY CROSSING.
 - 11 (2) 2" CONDUITS FOR COMMUNICATIONS SERVICES. SEE SITE PLAN FOR CONTINUATION.
 - 12 PROVIDE (2) CAT 5e UTP, NEC TYPE 'CMP' CABLES (SUPERIOR ESSEX #51-241-48 OR EQUAL) IN 3/4" CONDUIT FROM FACP TO MAIN TELECOM TERMINAL BOARD FOR CONNECTION TO FA SYSTEM DUCT FOR REMOTE MONITORING.
 - 13 PROVIDE PHOTOCELL ON NORTH SIDE OF BUILDING FOR OPERATION OF PARKING LOT LIGHTS AND BUILDING MOUNTED LIGHTS. SEE DETAIL X-E6.X FOR MORE INFORMATION.
 - 14 WALLPACK ONLY LOCATED ON BUILDING 'C'.
 - 15 PROVIDE ALTERNATE BID TO CONNECT DOMESTIC WATER BOOSTER PUMP.



2 BUILDING B-SECOND FLOOR-POWER PLAN
 1/8" = 1'-0"
 BUILDING 'C' SIMILAR

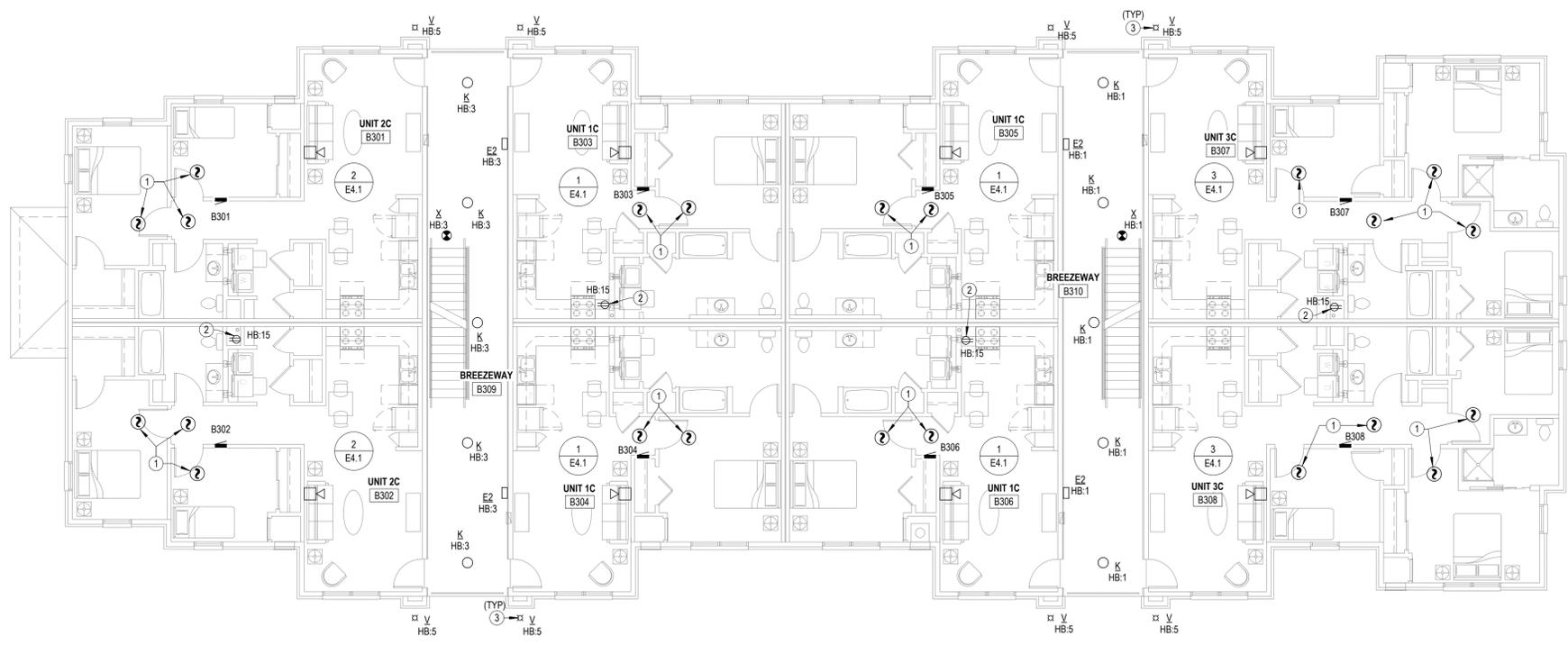


1 BUILDING B-FIRST FLOOR-POWER PLAN
 1/8" = 1'-0"
 BUILDING 'C' SIMILAR



3 BUILDING B-WATER RISER CLOSET
 3/8" = 1'-0"
 BUILDING 'C' SIMILAR

- NOTES BY SYMBOL**
- 1 CEILING MOUNTED SMOKE ALARM IN APARTMENTS TO BE 120VAC WITH 9V BATTERY BACKUP, INTERCONNECTED TO OTHERS IN SAME APARTMENT. DEVICE SHALL HAVE PHOTOELECTRIC TYPE SMOKE DETECTOR WITH SOUNDER HORN HAVING AN 85 db OUTPUT AT 10'. SHALL HAVE A SINGLE BUTTON FOR TEST/SILENCE AND LED INDICATOR LIGHTS, AND SHALL BE UL 217 LISTED, BRK #SC701LBI OR EQUAL.
 - 2 PROVIDE RECEPTACLE IN ATTIC NEAR RADON PIPE FOR FUTURE RADON FAN.
 - 3 DOWNLIGHTS TO BE INSTALLED IN SOFFIT ABOVE THIRD FLOOR.



1 BUILDING B-THIRD FLOOR-POWER PLAN
 1/8" = 1'-0"
 BUILDING 'C' SIMILAR

THE RESERVES AT COBALT CIRCLE

NEW APARTMENT COMPLEX

TENNESSEE

BROWNVILLE



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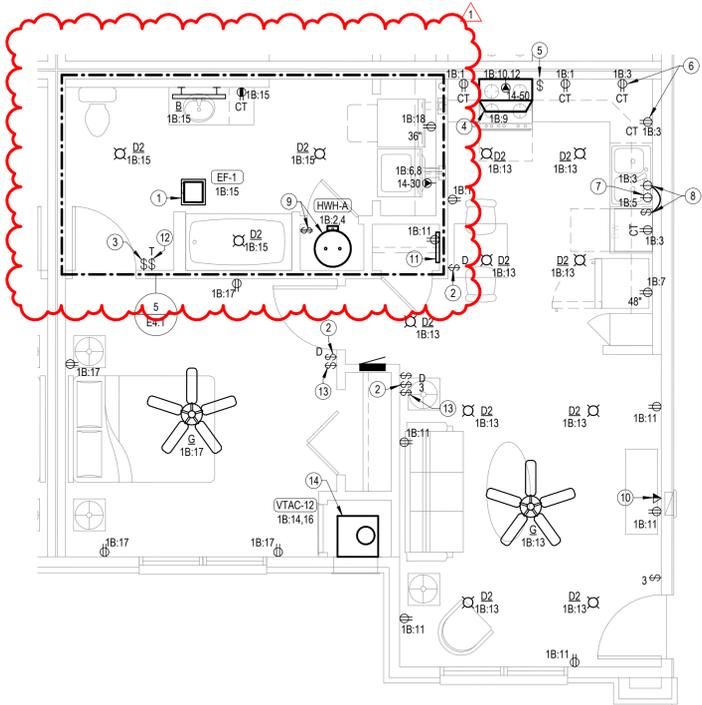
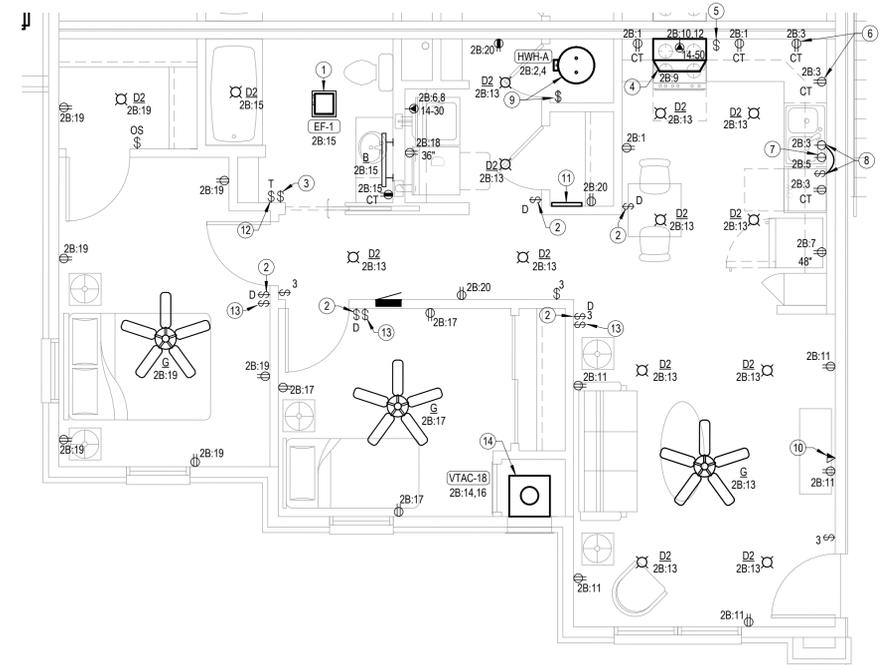
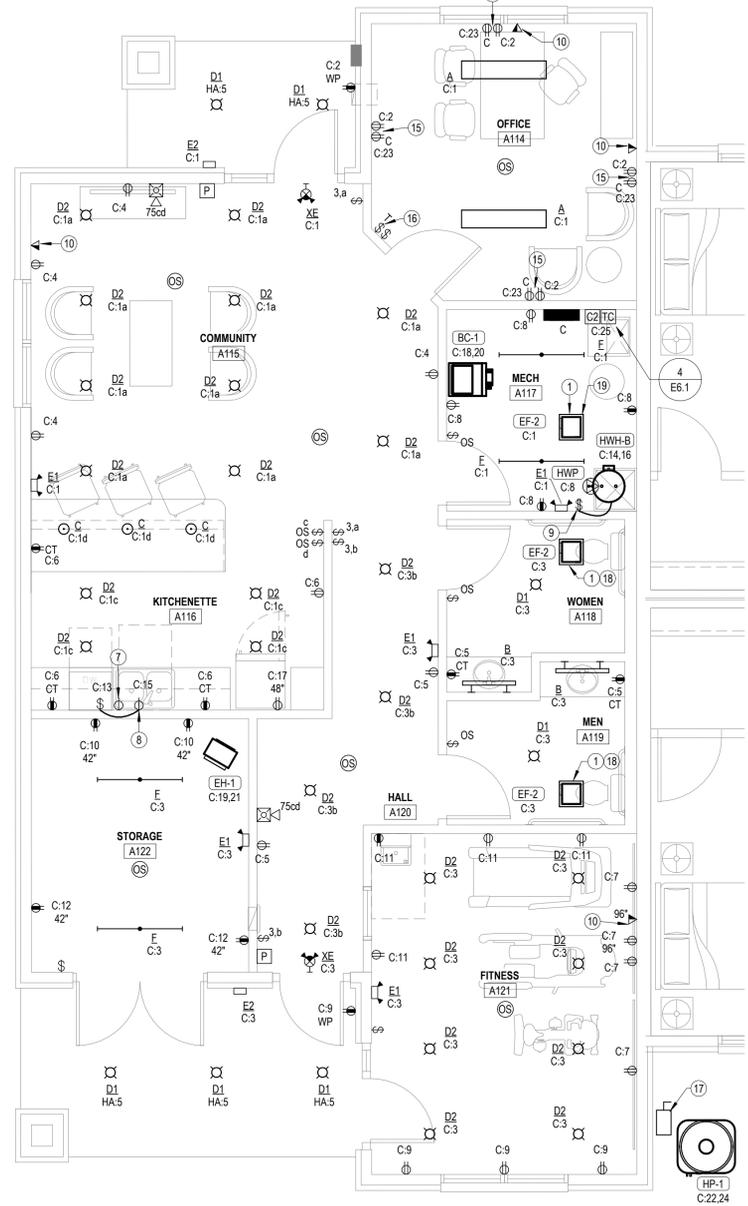
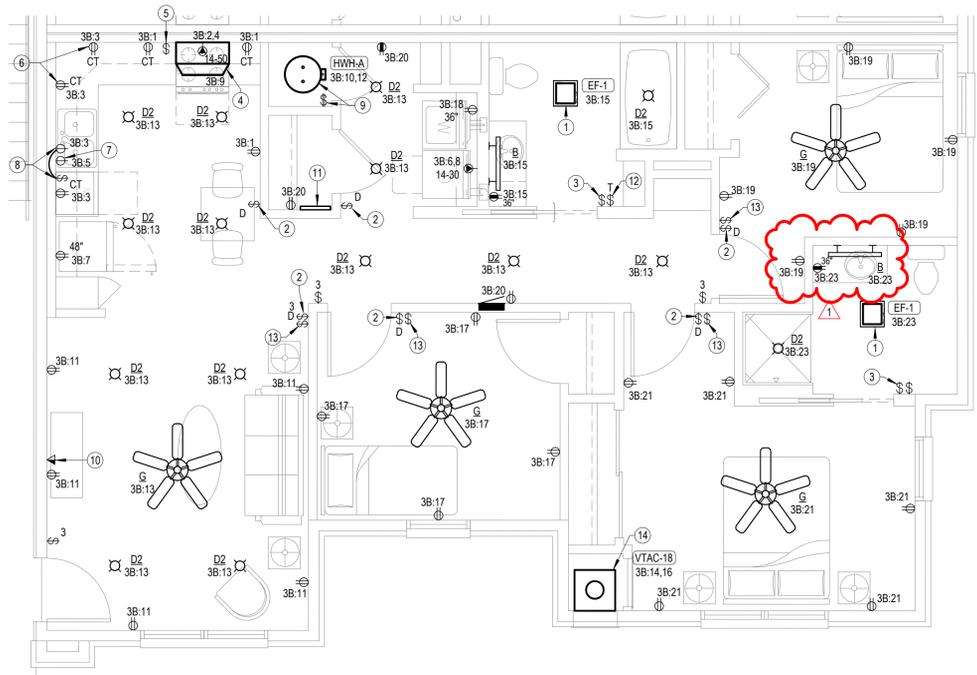
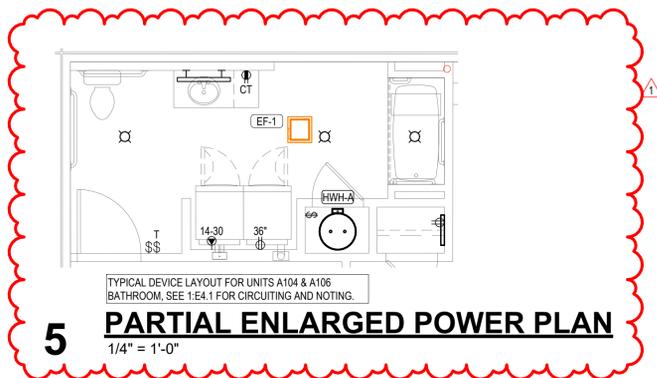


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- NOTES BY SYMBOL**
- CONNECT EXHAUST FANLIGHT PROVIDED BY MECHANICAL CONTRACTOR.
 - PROVIDE PRESET SLIDE DIMMER COMPATIBLE WITH ASSOCIATED LIGHT FIXTURES.
 - SWITCH CLOSEST TO DOOR SHALL CONTROL ALL LIGHTS IN BATHROOM, AND THE OTHER SWITCH SHALL CONTROL THE EXHAUST FAN.
 - PROVIDE 120V CONNECTION TO MICROWAVE/RANGE HOOD. STANDARD AND ADAPTABLE UNITS WILL HAVE MICROWAVE ABOVE RANGE. ACCESSIBLE UNITS WILL HAVE RANGE HOOD. COORDINATE EXACT ELECTRICAL ROUGH-IN REQUIREMENTS WITH EQUIPMENT PROVIDED. IF EQUIPMENT IS CORD AND PLUG, PROVIDE RECEPTACLE INSIDE CABINET ABOVE RANGE.
 - PROVIDE SWITCH IN ACCESSIBLE UNITS FOR CONTROL OF RANGE HOOD.
 - IN ACCESSIBLE UNITS, INSTALL COUNTERTOP RECEPTACLES A MINIMUM 36" AWAY FROM CORNER PER FAIR HOUSING ACT DESIGN MANUAL, CHAPTER 5 'SIDE REACH OVER AN OBSTRUCTION' REQUIREMENTS. WHERE AN OBSTRUCTION PREVENTS 36" DISTANCE REQUIREMENT, INSTALL RECEPTACLE AS FAR FROM CORNER AS POSSIBLE. PROVIDE ADDITIONAL OUTLETS WITHIN 36" OF CORNER TO ENSURE COMPLIANCE WITH NEC SPACING REQUIREMENTS.
 - PROVIDE RECEPTACLE BELOW COUNTER FOR CORD AND PLUG CONNECTION OF DISHWASHER. PROVIDE CORD AND GROUNDING PLUG AS REQUIRED.
 - SWITCHED RECEPTACLE BELOW COUNTER FOR GARBAGE DISPOSAL. COORDINATE EXACT LOCATION OF SWITCH WITH ARCHITECT.
 - PROVIDE 30A/2P SNAP SWITCH AND CONNECT WATER HEATER. INSTALL SWITCH ADJACENT TO WATER HEATER.
 - COORDINATE FINAL LOCATIONS OF ALL CATV AND PHONE OUTLETS WITH OWNER.
 - TELECOM DISTRIBUTION DEVICE APPROXIMATELY 4'-0" AFF. COORDINATE EXACT REQUIREMENTS WITH UTILITY PROVIDER SELECTED BY OWNER.
 - PROVIDE TIMER SWITCH EQUAL TO AIR CYCLER 'SMART EXHAUST' FOR CONTROL OF EXHAUST FAN. SET SWITCH PER MANUFACTURER'S INSTRUCTIONS TO OPERATE FAN AS INDICATED BELOW:
 1 BEDROOM: 17 MINUTES PER HOUR
 2 BEDROOM: 24 MINUTES PER HOUR
 3 BEDROOM: 31 MINUTES PER HOUR
 - SWITCH CEILING FAN SEPARATELY FROM LIGHTS.
 - MAKE FINAL CONNECTION TO VERTICAL PACKAGED UNIT. EQUIPMENT TO BE PROVIDED WITH INTEGRAL DISCONNECT SWITCH. SEE EQUIPMENT SCHEDULE FOR MORE INFORMATION. COORDINATE REQUIREMENTS WITH M.C.
 - ONE RECEPTACLE SHALL BE CONNECTED TO CIRCUIT C-2 (UNCONTROLLED) AND THE OTHER RECEPTACLES SHALL BE CONNECTED TO CIRCUIT C-23 (CONTROLLED). CONTROLLED RECEPTACLES SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
 - 2-HOUR DIAL TIMER OVERRIDE SWITCH FOR SWITCHED RECEPTACLES. SEE X.E6.1.
 - PROVIDE 30A/2P/240V DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND CONNECT HEAT PUMP. ROUTE IMC CONDUIT FROM DISCONNECT, SUPPORTED ABOVE GRADE, TO HEAT PUMP. TRANSITION TO FLEXIBLE LIQUID TIGHT METAL CONDUIT AT HEAT PUMP.
 - SWITCH EXHAUST FAN WITH ROOM LIGHTS.
 - CIRCUIT EXHAUST FAN FOR CONTINUOUS OPERATION.



4 CLUBHOUSE ENLARGED POWER PLAN
 1/4" = 1'-0"

2 2 BEDROOM ENLARGED POWER PLAN
 1/4" = 1'-0"

1 1 BEDROOM ENLARGED POWER PLAN
 1/4" = 1'-0"

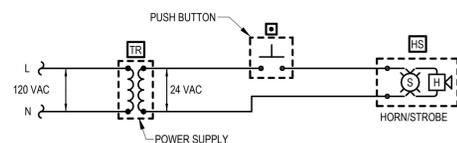
MARK	MANUFACTURER	MODEL NUMBER	WATTAGE	LUMEN OUTPUT	DRIVER	MOUNTING	FINISH	DESCRIPTION	NOTES
A	LITHONIA	FML4W ALO6 SEF 840 MVOLT	49 W	5874 lm	TRIAC DIMMING	SURFACE	WHITE	1X4 SURFACE, LED WRAP	--
B	MAXIM LIGHTING	52004	20 W	1500 lm	LED DRIVER, ELV DIMMABLE, 2%	SURFACE WALL HORIZONTAL	SELECTED BY ARCHITECT	30" LED VANITY LIGHT	--
C	TBD	SELECTED BY OWNER			0-10V DIMMING TO 10%	CEILING SURFACE	TBD	PENDANT SELECTED BY OWNER AND PROVIDED BY ELECTRICAL CONTRACTOR	--
D1	HALO	SMD6R6930WH	10 W	600 lm	0-10V DIMMING TO 10%	CEILING SURFACE	WHITE	6" DIA ROUND SURFACE MOUNT DOWNLIGHT	9
D2	HALO	SMD6R12930WH	16 W	1271 lm	0-10V DIMMING TO 10%	CEILING SURFACE	WHITE	6" DIA ROUND SURFACE MOUNT DOWNLIGHT	--
E1	LITHONIA	EU2-LED-M12			--	SURFACE WALL	WHITE	TWO HEAD EMERGENCY LIGHT	1
E2	LITHONIA	AFF OEL DWHGXD UVOLT LTP SDRT WT			--	SURFACE WALL	WHITE	EXTERIOR RATED TWO HEAD EMERGENCY LIGHT	1,3,5
F	DAY-BRITE CFI	FSS440L840-UNV-DIM	30 W	4077 lm	0-10V DIMMING TO 10%	SUSPENDED	WHITE	4' STANDARD STRIP WITH CURVED FROSTED ACRYLIC LENS	--
G	SEAGULL	15030EN-829	20 W		STANDARD	CEILING SURFACE	BRONZE	52" STANDARD CEILING FAN WITH LED LIGHT KIT	--
K	LITHONIA	OLCFM15-DOB	17 W	1077 lm	STANDARD	CEILING SURFACE	BRONZE	12" LED BREEZEWAY DOWNLIGHT	3,5
R1	LITHONIA	DSX2 LED P1 30K T3M MVOLT HS	33 W	4791 lm	STANDARD	POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH IES TYPE III DISTRIBUTION AND HOUSE SIDE SHIELD	1,8
R2	LITHONIA	DSX2 LED P2 30K T4M MVOLT HS	45 W	6272 lm	STANDARD	POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH IES TYPE IV DISTRIBUTION AND HOUSE SIDE SHIELD	2,8
S	ACCLAIM	DFB-111-AKEU	50 W	2455 lm	STANDARD	GRADE	BLACK	IP-66 RATED, GRADE MOUNTED LED FLOOD LIGHT	4
V	GOTHAM	IC0 4005/ARLSS10D	7 W	500 lm	STANDARD	SURFACE	WHITE	4" DIAMETER LED WALL WASH DOWNLIGHT WITH 10° BEAM ANGLE	5
W1	LITHONIA	MRW LED P1 40K SR2 MVOLT	20 W	2251 lm	STANDARD	WALL	BLACK	EXTERIOR LED WALL PACK WITH IES TYPE II DISTRIBUTION	3,4
W2	LITHONIA	MRW LED P1 40K SR4 MVOLT	20 W	2189 lm	STANDARD	WALL	BLACK	EXTERIOR LED WALL PACK WITH IES TYPE IV DISTRIBUTION	3,4
W3	LITHONIA	MRW LED P4 40K SR4 MVOLT	61 W	6388 lm	STANDARD	WALL	BLACK	EXTERIOR LED WALL PACK WITH IES TYPE IV DISTRIBUTION	3,4
X	LITHONIA	WLTE W 2 R EL SD			--	CEILING	WHITE	2 FACED EXTERIOR RATED EXIT LIGHT	1,2
XE	LITHONIA	LHOM LED R HO	4 W	1045 lm	--	WALL		EXIT/ELU COMBO, RED LETTERING	1,2

GENERAL:

- ALL LED'S SHALL BE 4000K CORRELATED COLOR TEMPERATURE, MINIMUM 80 CRI
- ALL LED FIXTURES SHALL ADHERE TO LM79 AND LM80 STANDARDS
- ALL APARTMENT LIGHT FIXTURES SHALL BE ENERGY STAR CERTIFIED

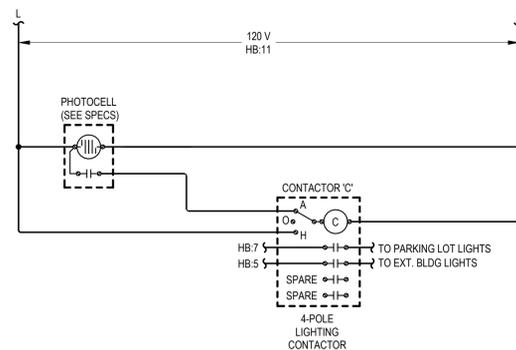
NOTES:

- PROVIDE FIXTURE WITH EMERGENCY BATTERY INTEGRAL CHARGER WITH SELF-DIAGNOSTIC/SELF-TESTING ELECTRONICS.
- FIXTURE SHALL BE CAPABLE OF WALL OR CEILING MOUNT APPLICATIONS AND SHALL HAVE BREAK-OUT DIRECTIONAL CHEVRONS.
- FIXTURE SHALL BE CAPABLE OF OPERATION IN TEMPERATURES RANGING FROM -4F THROUGH 104F.
- U.L. LISTED FOR 'WET LOCATION'.
- U.L. LISTED FOR 'DAMP LOCATION'.
- PROVIDE FIXTURE/POLE ASSEMBLY WITH 20' ROUND STRAIGHT STEEL POLE, BLACK TO MATCH FIXTURE.
- PROVIDE FIXTURE/POLE ASSEMBLY WITH 20' ROUND STRAIGHT STEEL POLE, BLACK TO MATCH FIXTURE.
- FIXTURE/POLE ASSEMBLY SHALL BE RATED FOR 100 MPH WIND LOADS. PROVIDE WITH VIBRATION DAMPER PER MANUFACTURER'S RECOMMENDATIONS.
- WHERE INSTALLED OUTSIDE OR IN BATHROOMS FIXTURE SHALL BE 'DAMP LOCATION' U.L. LISTED, WHERE ABOVE SHOWERS OR BATHTUBS FIXTURE SHALL BE 'WET LOCATION' U.L. LISTED.

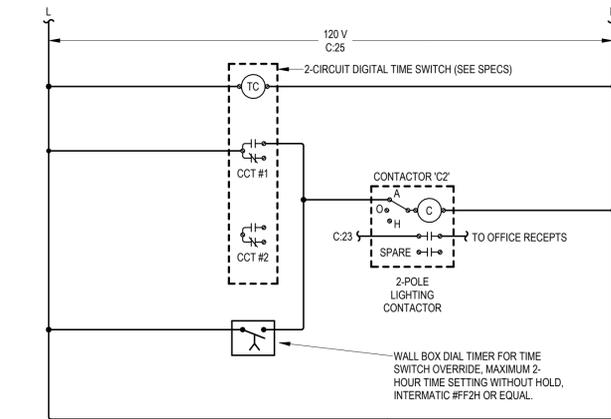


- DOOR ALARM BUZZER SYSTEM NOTES**
- PROVIDE DOOR ANNUNCIATOR SYSTEM COMPLETE WITH PUSH BUTTON, HORN/STROBE(S), POWER SUPPLIES AND ALL WIRING REQUIRED. HORN/STROBE SHALL ACTIVATE WHEN PUSH BUTTON IS DEPRESSED.
 - HORN/STROBE SHALL OPERATE AT 24VAC, HAVE A CLEAR LENS WITH 50cd STROBE AND HORN WITH 82dB AT 10', UL 1638 LISTED, EDWARDS #6536-GS. FLUSH MOUNT IN WALL AT 6'-8" AFF.
 - PUSH BUTTON SHALL BE WHITE WITH CHROME RIM, NON-ILLUMINATED, WITH N.O. MOMENTARY CONTACTS, RATED FOR 0.67 AMPS AT 24VAC, EDWARDS # 620. PROVIDE WITH STAINLESS STEEL COVER PLATE, EDWARDS #147-10. MOUNT AT 48" AFF.
 - POWER SUPPLY SHALL BE A LOW VOLTAGE CLASS 2 TRANSFORMER WITH 120VAC PRIMARY AND 24VAC SECONDARY, 20VA, EDWARDS #598. FLUSH MOUNT IN 2-GANG WALL BOX WITH BLANK COVER PLATE, DIRECTLY ABOVE HORN/STROBE.
 - LOW VOLTAGE CLASS 2 CABLING SHALL BE MINIMUM 18 AWG UNSHIELDED.

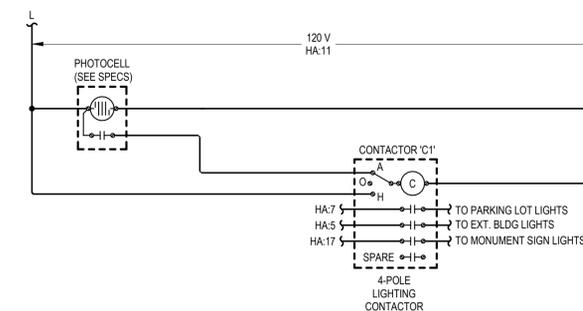
3 APARTMENT DOORBELL WIRING SCHEMATIC
 12" = 1'-0"



2 LIGHTING CONTROL DIAGRAM - BUILDING B
 NO SCALE
 BUILDING 'C' SIMILAR



4 CLUBHOUSE CONTROLLED RECEPTACLE DIAGRAM
 NO SCALE



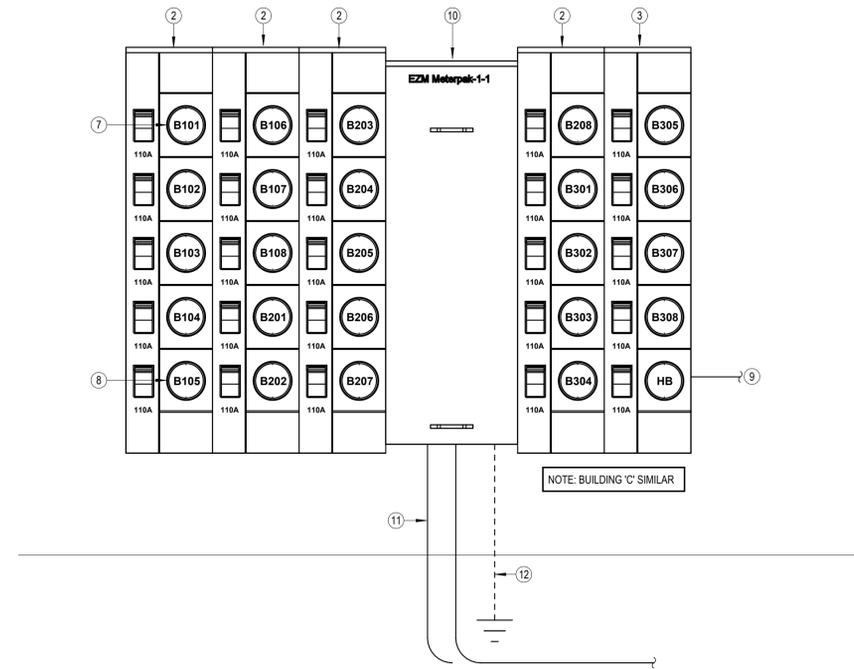
1 LIGHTING CONTROL DIAGRAM - BUILDING A
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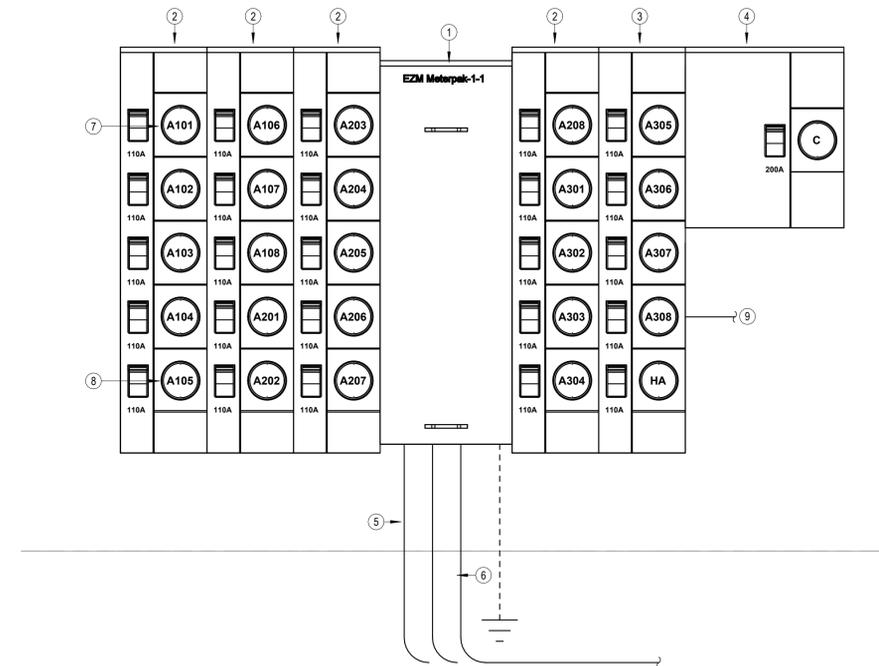
BUILDING 'B' FEEDER SCHEDULE		
PANEL NAME	FEEDER SIZE (COPPER)	FEEDER SIZE (ALUMINUM)
B101	2" 2-3/0 3/ON #3G	2" 2-4/0 AL 4/0 AL N 1/0 AL G
B102	1-1/2" 2-1/0 2/ON #4G	2" 2-4/0 AL 4/0 AL N 1/0 AL G
B103	1-1/2" 2-1/0 1/ON #6G	2" 2-3/0 AL 3/0 AL N #1 AL G
B104	1-1/2" 2-1/0 1/ON #6G	1-1/2" 2-2/0 AL 2/0 AL N #2 AL G
B105	1-1/2" 2-1/0 1/ON #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
B106	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
B107	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
B108	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
B201	2" 2-3/0 3/ON #3G	2" 2-250kcmil AL 250kcmil AL N 2/0 AL G
B202	1-1/2" 2-2/0 2/ON #4G	2" 2-4/0 AL 4/0 AL N 1/0 AL G
B203	1-1/2" 2-1/0 1/ON #6G	2" 2-3/0 AL 3/0 AL N #1 AL G
B204	1-1/2" 2-1/0 1/ON #6G	1-1/2" 2-2/0 AL 2/0 AL N #2 AL G
B205	1-1/2" 2-1/0 1/ON #6G	1-1/2" 2-2/0 AL 2/0 AL N #2 AL G
B206	1-1/2" 2-1/0 1/ON #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
B207	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
B208	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
B301	2" 2-3/0 3/ON #3G	2" 2-250kcmil AL 250kcmil AL N 2/0 AL G
B302	2" 2-3/0 3/ON #3G	2" 2-250kcmil AL 250kcmil AL N 2/0 AL G
B303	1-1/2" 2-1/0 1/ON #6G	2" 2-3/0 AL 3/0 AL N #1 AL G
B304	1-1/2" 2-1/0 1/ON #6G	2" 2-3/0 AL 3/0 AL N #1 AL G
B305	1-1/2" 2-1/0 1/ON #6G	1-1/2" 2-2/0 AL 2/0 AL N #2 AL G
B306	1-1/2" 2-1/0 1/ON #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
B307	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
B308	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
HB	1-1/4" 2#1 #1N #8G	1-1/4" 2-1/0 AL 1/0 AL N #6 AL G

BUILDING 'C' FEEDER SCHEDULE		
PANEL NAME	FEEDER SIZE (COPPER)	FEEDER SIZE (ALUMINUM)
C101	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
C102	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
C103	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
C104	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
C105	1-1/2" 2-1/0 1/ON #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
C106	1-1/2" 2-1/0 1/ON #6G	1-1/2" 2-2/0 AL 2/0 AL N #2 AL G
C107	1-1/2" 2-1/0 1/ON #6G	2" 2-4/0 AL 4/0 AL N 1/0 AL G
C108	1-1/2" 2-2/0 2/ON #4G	2" 2-4/0 AL 4/0 AL N 1/0 AL G
C201	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
C202	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
C203	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
C204	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
C205	1-1/2" 2-1/0 1/ON #6G	1-1/2" 2-2/0 AL 2/0 AL N #2 AL G
C206	1-1/2" 2-1/0 1/ON #6G	1-1/2" 2-2/0 AL 2/0 AL N #2 AL G
C207	1-1/2" 2-2/0 2/ON #4G	2" 2-4/0 AL 4/0 AL N 1/0 AL G
C208	1-1/2" 2-2/0 2/ON #4G	2" 2-4/0 AL 4/0 AL N 1/0 AL G
C301	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
C302	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
C303	1-1/2" 2-1/0 1/ON #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
C304	1-1/2" 2-1/0 1/ON #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
C305	1-1/2" 2-1/0 1/ON #6G	1-1/2" 2-2/0 AL 2/0 AL N #2 AL G
C306	1-1/2" 2-1/0 1/ON #6G	2" 2-3/0 AL 3/0 AL N #1 AL G
C307	1-1/2" 2-2/0 2/ON #4G	2" 2-4/0 AL 4/0 AL N 1/0 AL G
C308	2" 2-3/0 3/ON #3G	2" 2-250kcmil AL 250kcmil AL N 2/0 AL G
HC	1-1/4" 2#1 #1N #8G	1-1/4" 2-1/0 AL 1/0 AL N #6 AL G



2 BUILDINGS B & C-ELECTRICAL RISER DIAGRAM
 1" = 1'-0"

BUILDING 'A' FEEDER SCHEDULE		
PANEL NAME	FEEDER SIZE (COPPER)	FEEDER SIZE (ALUMINUM)
A101	2" 2-3/0 3/ON #3G	2" 2-250kcmil AL 250kcmil AL N 2/0 AL G
A102	2" 2-3/0 3/ON #3G	2" 2-250kcmil AL 250kcmil AL N 2/0 AL G
A103	1-1/2" 2-1/0 1/ON #6G	2" 2-3/0 AL 3/0 AL N #1 AL G
A104	1-1/2" 2-1/0 1/ON #6G	2" 2-3/0 AL 3/0 AL N #1 AL G
A105	1-1/2" 2-1/0 1/ON #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
A106	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
A107	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
A108	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
A201	2" 2-3/0 3/ON #3G	2" 2-250kcmil AL 250kcmil AL N 2/0 AL G
A202	2" 2-3/0 3/ON #3G	2" 2-250kcmil AL 250kcmil AL N 2/0 AL G
A203	1-1/2" 2-1/0 1/ON #6G	2" 2-3/0 AL 3/0 AL N #1 AL G
A204	1-1/2" 2-1/0 1/ON #6G	2" 2-3/0 AL 3/0 AL N #1 AL G
A205	1-1/2" 2-1/0 1/ON #6G	1-1/2" 2-2/0 AL 2/0 AL N #2 AL G
A206	1-1/2" 2-1/0 1/ON #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
A207	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
A208	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
A301	2" 2-3/0 3/ON #3G	2-1/2" 2-300kcmil AL 300kcmil AL N 3/0 AL G
A302	2" 2-3/0 3/ON #3G	2" 2-250kcmil AL 250kcmil AL N 2/0 AL G
A303	1-1/2" 2-1/0 1/ON #6G	2" 2-4/0 AL 4/0 AL N 1/0 AL G
A304	1-1/2" 2-1/0 1/ON #6G	2" 2-3/0 AL 3/0 AL N #1 AL G
A305	1-1/2" 2-1/0 1/ON #6G	1-1/2" 2-2/0 AL 2/0 AL N #2 AL G
A306	1-1/2" 2-1/0 1/ON #6G	1-1/2" 2-2/0 AL 2/0 AL N #2 AL G
A307	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
A308	1-1/4" 2#1 #1N #6G	1-1/4" 2-1/0 AL 1/0 AL N #3 AL G
HA	1-1/4" 2#1 #1N #8G	1-1/4" 2-1/0 AL 1/0 AL N #6 AL G
C	2" 2-4/0 4/ON #4G	2-1/2" 2-350kcmil AL 350kcmil AL N #2 AL G



1 BUILDING A-ELECTRICAL RISER DIAGRAM
 1" = 1'-0"

- NOTES BY SYMBOL**
- METER CENTER MAIN, 3-PH IN, 3-PH OUT, 208/120V-3PH, 4 WIRE WITH 1000A/3P MAIN BREAKER, 42 KVAIC RATED, SERVICE ENTRANCE RATED WITH INTEGRAL SURGE PROTECTION DEVICE, SQUARE D 'EZ' METER-PAK #EZM31000CB.
 - 5-SOCKET BRANCH UNITS, 3-PH IN, 1-PH OUT, WITH (5) 110A BRANCH BREAKERS. METER SOCKETS SHALL BE RING TYPE, 5-JAW WITHOUT BYPASS, SQUARE D 'EZ' METER-PAK #EZM315125. PROVIDE PERMANENT LABEL ON EACH METER SOCKET BREAKER INDICATING THE APARTMENT OR HOUSE PANEL BEING SERVED.
 - 5-SOCKET BRANCH UNITS, 3-PH IN, 1-PH OUT, WITH (4) 110A BRANCH BREAKERS AND (1) 100A BRANCH BREAKER. METER SOCKETS SHALL BE RING TYPE, 5-JAW WITHOUT BYPASS, SQUARE D 'EZ' METER-PAK #EZM315125. PROVIDE PERMANENT LABEL ON EACH METER SOCKET BREAKER INDICATING THE APARTMENT OR HOUSE PANEL BEING SERVED.
 - 1-SOCKET BRANCH UNITS, 3-PH IN, 1-PH OUT, WITH (1) 200A BRANCH BREAKER. METER SOCKETS SHALL BE RING TYPE, WITH TEST BLOCK BYPASS SQUARE D 'EZ' METER-PAK #EZMT311225. PROVIDE PERMANENT LABEL ON METER SOCKET BREAKER TO READ 'CLUBHOUSE'.
 - (3) PARALLEL 4" CONDUITS EACH WITH (4) #400 KCMIL COPPER FROM TRANSFORMER TO METER CENTER AT BUILDING 'A'.
 - #30 CU GROUNDING ELECTRODE CONDUCTOR TO CONCRETE ENCASED ELECTRODE, UNDERGROUND METAL WATER PIPE, AND DRIVEN GROUND ROD. BOND ALL ITEMS IN ACCORDANCE WITH NEC ARTICLE 250.
 - MAXIMUM HEIGHT TO CENTERLINE OF TOP METER SOCKET SHALL BE 5'-6" AFG.
 - MINIMUM HEIGHT TO BOTTOM OF METER SOCKET ASSEMBLY SHALL BE 18" AFG.
 - SEE FEEDER SCHEDULE, THIS SHEET FOR SIZES TO APARTMENT UNIT LOAD CENTERS.
 - METER CENTER MAIN, 3-PH IN, 3-PH OUT, 208/120V-3PH, 4 WIRE WITH 800A/3P MAIN BREAKER, 65 KVAIC RATED, SERVICE ENTRANCE RATED WITH INTEGRAL SURGE PROTECTION DEVICE, SQUARE D 'EZ' METER-PAK #EZM3800CB.
 - (2) PARALLEL 4" CONDUITS EACH WITH (4) #500 KCMIL COPPER FROM TRANSFORMER TO METER CENTER AT BUILDING 'B'. NOTE: BUILDING 'C' METER CENTER AND FEEDERS ARE SIMILAR. SEE ME1.0 FOR MORE INFORMATION.
 - #20 CU GROUNDING ELECTRODE CONDUCTOR TO CONCRETE ENCASED ELECTRODE, UNDERGROUND METAL WATER PIPE, AND DRIVEN GROUND ROD. BOND ALL ITEMS IN ACCORDANCE WITH NEC ARTICLE 250.

- NOTES:**
- Meter center main circuit breaker shall be fully rated for kVAIC rating listed in notes above. Feeder breakers may be series rated with main breaker.
 - All conductor sizes are based on copper, U.N.O.
 - Entire installation shall comply with NEC.
 - Coordinate all responsibilities and requirements with power utility company and pay associated fees.
- Contact information:
 Brownsville Energy Authority
 Russ Stoots
 General Manager
 rstoots@buduill.com
- Coordinate final location of meter assemblies with utility company. Provide shop drawings of proposed equipment whether as specified or substituted to utility company for approval.
 - All meter center components shall be NEMA 3R.
 - All dimensions based on Square D equipment. It is the contractor's responsibility to verify the dimensions of substitute equipment.
 - For each meter, provide a permanent brass, copper or aluminum tag identifying the apartment served. Tags shall be securely fastened to the meter base and be stamped with 1/8" letters, minimum.



REVISIONS:

DATE:	05/09/2025
JOB:	24-3446
SHEET NO.:	

Designation: 1B
 Installed Location: Bus Amps: 150
 Voltage: 120/208 1PH 3W-1Ph-3W MCB Amps: MLO
 Mounting: Flush Features & Modifications: -
 Enclosure: NEMA 1 SCCR/AIC: 22.0 kA
 Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt	
1B-1	Kitchen Receptacles	1/2"C,1#12,#12N,#12G	20	AG	5 A	0 A	9 A	0	30	1/2"C,2#10,#10G	Electric Water Heating	1B-2
1B-3	Kitchen Receptacles	1/2"C,1#12,#12N,#12G	20	AG	4 A	41 A	2 A	41 A	30	1/2"C,2#10,#10N,#10G	Clothes Dryer	1B-6
1B-5	Dishwasher	1/2"C,1#12,#12N,#12G	20	AG	4 A	41 A	2 A	41 A	30	1/2"C,2#10,#10N,#10G	Clothes Dryer	1B-6
1B-7	Refrigerator	1/2"C,1#12,#12N,#12G	20	AG	2 A	41 A	2 A	41 A	30	1/2"C,2#10,#10N,#10G	Clothes Dryer	1B-6
1B-9	Hood/Microwave	1/2"C,1#12,#12N,#12G	20	AG	2 A	41 A	2 A	41 A	50	3/4"C,2#6,#6N,#10G	Range	1B-10
1B-11	Living Room Receptacles	1/2"C,1#12,#12N,#12G	20	A	2 A	0 A	9 A	41 A	30	1/2"C,2#10,#10G	Electric Water Heating	1B-12
1B-13	Kitchen/Living/Hall Lighting	1/2"C,1#12,#12N,#12G	20	A	2 A	0 A	3 A	0 A	20	1/2"C,2#12,#12G	VTAC-12	1B-14
1B-15	Bathroom	1/2"C,1#12,#12N,#12G	20	A	6 A	2 A	AG	20	1/2"C,2#10,#10G	Clothes Washer Receptacle	1B-18	
1B-17	Bedroom	1/2"C,1#12,#12N,#12G	20	A	6 A	2 A	AG	20	1/2"C,2#10,#10G	Clothes Washer Receptacle	1B-18	
1B-19	Spare	--	20	0 A	--	--	--	--	--	--	Surge Protection	1B-22
1B-21	Spare	--	20	0 A	--	--	--	--	--	--	Surge Protection	1B-22
1B-23	Spare	--	20	0 A	--	--	--	--	--	--	Surge Protection	1B-24

Designation: HA
 Installed Location: Bus Amps: 100
 Voltage: 120/208 1PH 3W-1Ph-3W MCB Amps: MLO
 Mounting: Surface Features & Modifications: -
 Enclosure: NEMA 1 SCCR/AIC: 22.0 kA
 Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
HA-1	East Breezeway Lights	1/2"C,1#12,#12N,#12G	20		310...	360...		20	1/2"C,1#12,#12N,#12G	FACP	HA-2
HA-3	West Breezeway Lights	1/2"C,1#12,#12N,#12G	20		310...	360...		20	1/2"C,1#12,#12N,#12G	Fire Sprinkler Flow Switches	HA-4
HA-5	Exterior Lighting	3/4"C,1#10,#10N,#10G	20		340...	360...		20	1/2"C,1#12,#12N,#12G	Heat Trace Circuit #1	HA-6
HA-7	Parking Lot Pole Mounted Lights	3/4"C,1#10,#10N,#10G	20		291...	0 VA		20	1/2"C,1#12,#12N,#12G	Heat Trace Circuit #2	HA-8
HA-9	Exterior Receptacles/ Fire A113 Lighting	1/2"C,1#12,#12N,#12G	20		607...	180...		20	1/2"C,1#12,#12N,#12G	Fire Sprinkler Air Compressor	HA-10
HA-11	Timedock	1/2"C,1#12,#12N,#12G	20		360...	150...		20	1/2"C,2#12,#12G	Electric Wall Heater 'EWH-1'	HA-12
HA-13	Telecomm	1/2"C,1#12,#12N,#12G	20		360...	150...		20	1/2"C,2#12,#12G	Electric Wall Heater 'EWH-1'	HA-14
HA-15	Future Radon Fans	1/2"C,1#12,#12N,#12G	20		222...	211...		30	1/2"C,2#10,#10G	Domestic Water Booster Pump	HA-16
HA-17	Monument Sign Lights	3/4"C,1#10,#10N,#10G	20		0 VA	--		--	--	Space	HA-20
HA-19	Spare	--	20	0 VA	--	0 VA	--	--	--	Space	HA-20
HA-21	Spare	--	20	0 VA	--	0 VA	--	--	--	Surge Protection	HA-22
HA-23	Spare	--	20	0 VA	--	0 VA	--	--	--	Surge Protection	HA-24

Connected Load: 6352 VA 5654 VA
 Connected Amps: 60 A 54 A

Designation: 2B
 Installed Location: Bus Amps: 150
 Voltage: 120/208 1PH 3W-1Ph-3W MCB Amps: MLO
 Mounting: Flush Features & Modifications: -
 Enclosure: NEMA 1 SCCR/AIC: 22.0 kA
 Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt	
2B-1	Kitchen Receptacles	1/2"C,1#12,#12N,#12G	20	AG	5 A	0 A	9 A	0	30	1/2"C,2#10,#10G	Electric Water Heating	2B-2
2B-3	Kitchen Receptacles	1/2"C,1#12,#12N,#12G	20	AG	4 A	41 A	2 A	41 A	30	1/2"C,2#10,#10N,#10G	Clothes Dryer	2B-6
2B-5	Dishwasher	1/2"C,1#12,#12N,#12G	20	AG	4 A	41 A	2 A	41 A	30	1/2"C,2#10,#10N,#10G	Clothes Dryer	2B-6
2B-7	Refrigerator	1/2"C,1#12,#12N,#12G	20	AG	2 A	41 A	2 A	41 A	30	1/2"C,2#10,#10N,#10G	Clothes Dryer	2B-6
2B-9	Hood/Microwave	1/2"C,1#12,#12N,#12G	20	AG	2 A	41 A	2 A	41 A	50	3/4"C,2#6,#6N,#10G	Range	2B-10
2B-11	Living Room Receptacles	1/2"C,1#12,#12N,#12G	20	A	2 A	0 A	9 A	41 A	30	1/2"C,2#10,#10G	Electric Water Heating	2B-12
2B-13	Kitchen/Living/Hall Lighting	1/2"C,1#12,#12N,#12G	20	A	2 A	8 A	2 A	8 A	30	1/2"C,2#10,#10G	VTAC-18	2B-14
2B-15	Bathroom	1/2"C,1#12,#12N,#12G	20	A	6 A	2 A	AG	20	1/2"C,2#10,#10G	Clothes Washer Receptacle	2B-18	
2B-17	Bedroom 1	1/2"C,1#12,#12N,#12G	20	A	5 A	2 A	AG	20	1/2"C,2#10,#10G	Clothes Washer Receptacle	2B-18	
2B-19	Bedroom 2	1/2"C,1#12,#12N,#12G	20	A	9 A	5 A	AG	20	1/2"C,1#12,#12N,#12G	Laundry/Hall Receptacles	2B-20	
2B-21	Spare	--	20	0 A	--	--	--	--	--	--	Surge Protection	2B-22
2B-23	Spare	--	20	0 A	--	--	--	--	--	--	Surge Protection	2B-24

Designation: HB
 Installed Location: Bus Amps: 100
 Voltage: 120/208 1PH 3W-1Ph-3W MCB Amps: MLO
 Mounting: Surface Features & Modifications: -
 Enclosure: NEMA 1 SCCR/AIC: 42.0 kA
 Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
HB-1	East Breezeway Lights	1/2"C,1#12,#12N,#12G	20		310...	360...		20	1/2"C,1#12,#12N,#12G	FACP	HB-2
HB-3	West Breezeway Lights	1/2"C,1#12,#12N,#12G	20		310...	360...		20	1/2"C,1#12,#12N,#12G	Fire Sprinkler Flow Switches	HB-4
HB-5	Exterior Lighting	1/2"C,1#12,#12N,#12G	20		193...	360...		20	1/2"C,1#12,#12N,#12G	Heat Trace Circuit #1	HB-6
HB-7	Parking Lot Pole Mounted Lights	3/4"C,1#10,#10N,#10G	20		264...	0 VA		20	1/2"C,1#12,#12N,#12G	Heat Trace Circuit #2	HB-8
HB-9	Exterior Receptacles/ Fire A113 Lighting	1/2"C,1#12,#12N,#12G	20		787...	180...		20	1/2"C,1#12,#12N,#12G	Fire Sprinkler Air Compressor	HB-10
HB-11	Timedock	1/2"C,1#12,#12N,#12G	20		360...	150...		20	3/4"C,2#8,#8G	Electric Wall Heater 'EWH-1'	HB-12
HB-13	Telecomm	1/2"C,1#12,#12N,#12G	20		360...	150...		20	3/4"C,2#8,#8G	Electric Wall Heater 'EWH-1'	HB-14
HB-15	Future Radon Fans	1/2"C,1#12,#12N,#12G	20		222...	211...		30	3/4"C,2#8,#8G	Domestic Water Booster Pump	HB-16
HB-17	Spare	--	20	0 VA	211...	0 VA	--	--	--	Space	HB-18
HB-19	Spare	--	20	0 VA	--	0 VA	--	--	--	Space	HB-20
HB-21	Spare	--	20	0 VA	--	0 VA	--	--	--	Surge Protection	HB-22
HB-23	Spare	--	20	0 VA	--	0 VA	--	--	--	Surge Protection	HB-24

Connected Load: 6163 VA 5628 VA
 Connected Amps: 59 A 54 A

Designation: 3B
 Installed Location: Bus Amps: 150
 Voltage: 120/208 1PH 3W-1Ph-3W MCB Amps: MLO
 Mounting: Flush Features & Modifications: -
 Enclosure: NEMA 1 SCCR/AIC: 22.0 kA
 Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt	
3B-1	Kitchen Receptacles	1/2"C,1#12,#12N,#12G	20	AG	5 A	41 A	9 A	41 A	50	3/4"C,2#6,#6N,#10G	Range	3B-2
3B-3	Kitchen Receptacles	1/2"C,1#12,#12N,#12G	20	AG	4 A	41 A	9 A	41 A	30	1/2"C,2#10,#10N,#10G	Clothes Dryer	3B-6
3B-5	Dishwasher	1/2"C,1#12,#12N,#12G	20	AG	4 A	41 A	9 A	41 A	30	1/2"C,2#10,#10N,#10G	Clothes Dryer	3B-6
3B-7	Refrigerator	1/2"C,1#12,#12N,#12G	20	AG	2 A	41 A	9 A	41 A	30	1/2"C,2#10,#10N,#10G	Clothes Dryer	3B-6
3B-9	Hood/Microwave	1/2"C,1#12,#12N,#12G	20	AG	2 A	0 A	8 A	0 A	30	1/2"C,2#10,#10G	Electric Water Heating	3B-10
3B-11	Living Room Receptacles	1/2"C,1#12,#12N,#12G	20	A	2 A	0 A	8 A	0 A	30	1/2"C,2#10,#10G	Electric Water Heating	3B-12
3B-13	Kitchen/Living/Hall Lighting	1/2"C,1#12,#12N,#12G	20	A	2 A	8 A	2 A	8 A	30	1/2"C,2#10,#10G	VTAC-18	3B-14
3B-15	Hall Bathroom	1/2"C,1#12,#12N,#12G	20	A	6 A	2 A	AG	20	1/2"C,2#10,#10G	Clothes Washer Receptacle	3B-18	
3B-17	Bedroom 2	1/2"C,1#12,#12N,#12G	20	A	6 A	2 A	AG	20	1/2"C,2#10,#10G	Clothes Washer Receptacle	3B-18	
3B-19	Bedroom 3	1/2"C,1#12,#12N,#12G	20	A	8 A	--	8 A	5 A	20	1/2"C,1#12,#12N,#12G	Laundry/Hall Receptacles	3B-20
3B-21	Master Bedroom	1/2"C,1#12,#12N,#12G	20	A	8 A	--	--	--	--	--	Surge Protection	3B-22
3B-23	Master Bathroom	1/2"C,1#12,#12N,#12G	20	A	2 A	--	--	--	--	--	Surge Protection	3B-24

Designation: C
 Installed Location: Bus Amps: 200
 Voltage: 120/208 1PH 3W-1Ph-3W MCB Amps: MLO
 Mounting: Surface Features & Modifications: Provide Integral Surge Protection
 Enclosure: NEMA 1 SCCR/AIC: 10.0 kA
 Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
C-1	Lighting - Office, Community, Kitchenette, Mech	1/2"C,1#12,#12N,#12G	20		460...	900...		20	1/2"C,1#12,#12N,#12G	Receptacle - Office A114	C-2
C-3	Lighting - Rest Rooms, Hall, Fitness, Storage	1/2"C,1#12,#12N,#12G	20		413...	720...		20	1/2"C,1#12,#12N,#12G	Receptacle - Community Room A115	C-4
C-5	Receptacle - Hall A120	1/2"C,1#12,#12N,#12G	20		720...	720...		20	1/2"C,1#12,#12N,#12G	Receptacle - Kitchenette A116	C-6
C-7	Receptacle - Fitness A121	1/2"C,1#12,#12N,#12G	20		720...	839...		20	1/2"C,1#12,#12N,#12G	Receptacle - Mech A117	C-8
C-9	Receptacle - Fitness A121	1/2"C,1#12,#12N,#12G	20		720...	360...		20	1/2"C,1#12,#12N,#12G	Receptacle - Storage A122	C-10
C-11	Receptacle - Fitness A121	1/2"C,1#12,#12N,#12G	20		720...	360...		20	1/2"C,1#12,#12N,#12G	Receptacle - Storage A122	C-12
C-13	Receptacle - Dishwasher	1/2"C,1#12,#12N,#12G	20		500...	234...		30	1/2"C,2#10,#10G	Hot Water Heater 'HWH-B'	C-14
C-15	Receptacle - Disposal	1/2"C,1#12,#12N,#12G	20		680...	234...		30	1/2"C,2#10,#10G	Hot Water Heater 'HWH-B'	C-16
C-17	Receptacle - Refrigerator	1/2"C,1#12,#12N,#12G	20		180...	221...		30	1/2"C,2#10,#10G	Blower Coil 'BC-1'	C-18
C-19	Heater 'EH-1'	1/2"C,2#10,#10G	30		183...	221...		30	1/2"C,2#10,#10G	Blower Coil 'BC-1'	C-20
C-21	Receptacle - Office A114 (Controlled)	1/2"C,1#12,#12N,#12G	20		183...	156...		20	1/2"C,2#12,#12G	Heat Pump 'HP-1'	C-22
C-23	Other	1/2"C,1#12,#12N,#12G	20		360...	--		--	--	Space	C-24
C-25	Spare	--	20	0 VA	--	0 VA	--	--	--	Space	C-28
C-27	Spare	--	20	0 VA	--	0 VA	--	--	--	Space	C-30
C-29	Spare	--	20	0 VA	--	0 VA	--	--	--	Space	C-32
C-31	Spare	--	20	0 VA	--	0 VA	--	--	--	Space	C-34
C-33	Spare	--	20	0 VA	--	0 VA	--	--	--	Space	C-36
C-35	Spare	--	20	0 VA	--	0 VA	--	--	--	Space	C-38
C-37	Spare	--	20	0 VA	--	0 VA	--	--	--	Space	C-40
C-39	Spare	--	20	0 VA	--	0 VA	--	--	--	Space	C-42
C-41	Spare	--	20	0 VA							



REVISIONS:

1 10-14-2025 ASI #2

DATE: 05/09/2025

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SHEET NO.:

General Plan Symbols		HVAC Symbols	
	Plan Revision Number		Sq. Duct Size (Width/Height)
	Detail Number on Sheet		Oval Duct Size (Width x Height)
	Sheet Number Where Detail is Placed		Round Duct Size (Diameter)
	Keynote Symbol		Existing Duct To Remain
	Continuation Symbol		Duct To Be Demolished
	Point Where New Connects To Existing		Supply Air
	Room Name / Number		Ventilation Air
	Area Being Demolished		Outdoor Air
	Area Not In Contract		Return Air
	Electrical Equipment. Do not route HVAC installation above or below equipment. Maintain working clearance as indicated by dashed line.		Transfer Air
			General Exhaust Air
			Kitchen Exhaust Duct
			Flue Gas Vent
			Combustion Air
			Rect. Supply Duct Rise / Drop
			Round Supply Duct Rise / Drop
			Rect. Return Duct Rise / Drop
			Round Return Duct Rise / Drop
			Rect. Exhaust Duct Rise / Drop
			Round Exhaust Duct Rise / Drop
Abbreviations		Grille, Register, Diffusers	
Ø	ROUND	CD	Square Ceiling Diffuser
ABV	ABOVE	CD11	Round Ceiling Diffuser
AC	AIR CONDITIONING	SG5	SideWall Supply Grille
AD	AREA DRAIN	SD	Linear Diffuser
ADD	ADDENDUM	SR	SideWall Return Grille
AF	ABOVE FINISHED FLOOR	CR2	Ceiling Return Diffuser
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY		
ALT	ALTERNATE		
AP	ACCESS PANEL		
ARCH	ARCHITECT/ARCHITECTURAL		
BFF	BELOW FINISHED FLOOR		
BLW	BELOW		
BTU	BRITISH THERMAL UNITS		
BTUH	BRITISH THERMAL UNITS PER HOUR		
CAP	CAPACITY		
CB	CATCH BASIN		
CFM	CUBIC FEET PER MINUTE		
CLG	CEILING		
CO	CLEAN OUT		
CW	COLD WATER		
D	DEGREE		
DB	DRY BULB		
DIA	DIAMETER		
DN	DOWN		
DW	DISTILLED WATER		
EA	EACH		
EAT	ENTERING AIR TEMPERATURE		
ELEC	ELECTRICAL EQUIPMENT		
EWIC	ELECTRIC WATER COOLER		
EWT	ENTERING WATER TEMPERATURE		
E/A	EXHAUST AIR		
EXIST	EXISTING		
F	DEGREES FAHRENHEIT		
FCO	FLOOR CLEAN OUT		
FD	FLOOR DRAIN		
FDC	FIRE DEPARTMENT CONNECTION		
FL	FLOOR		
FO	FUEL OIL		
FOV	FUEL OIL VENT		
FOR	FUEL OIL RETURN		
FOS	FUEL OIL SUPPLY		
FPM	FEET PER MINUTE		
FS	FLOOR SINK		
FT	FOOT/FEET		
FTR	FIN TUBE RADIATION		
GAL	GALLON		
GF	GAS-FIRED		
GC	GENERAL CONTRACTOR		
GPM	GALLONS PER MINUTE		
GW	GREASE WASTE		
HB	HORSE BIB		
HP	HORSE POWER		
HTG	HEATING		
HTR	HEATER		
HW	HOT WATER		
HYD	HYDRANT		
ID	INDIRECT		
IN	INCH		
INV	INVERT		
LB	POUND		
LBHR	POUNDS PER HOUR		
LAT	LEAVING AIR TEMPERATURE		
LP	LOW PRESSURE		
LPG	LIQUEFIED PETROLEUM GAS		
LVR	LOUVER		
LWT	LEAVING WATER TEMPERATURE		
M/A	MIXED AIR		
MAX	MAXIMUM		
MBH	ONE THOUSAND BTU PER HOUR		
MCF	ONE THOUSAND CUBIC FEET		
MD	MOTORIZED DAMPER		
MECH	MECHANICAL		
MFR	MANUFACTURER		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MTR	MOTOR		
MUA	MAKE-UP AIR		
NC	NOISE CRITERIA		
NC	NORMALLY CLOSED		
NIC	NOT IN CONTRACT		
NO	NUMBER		
NO	NORMALLY OPEN		
NTS	NOT TO SCALE		
O	OXYGEN		
O/A	OUTSIDE AIR		
ORD	OVERFLOW ROOF DRAIN		
PD	PRESSURE DROP		
PVI	POST INDICATOR VALVE		
PLBG	PLUMBING PRESSURE		
PRV	PRESSURE REDUCING VALVE		
PSI	POUNDS PER SQUARE INCH		
PSIG	POUNDS PER SQUARE INCH GAUGE		
PWR	POWER		
R	DUCT RISER		
R/A	RETURN AIR		
RCP	RADIANT CEILING PANEL		
RD	ROOF DRAIN		
REC	RECESSED		
RED	REDUCER		
RH	RELATIVE HUMIDITY		
R/LA	RELIEF AIR		
RM	ROOM		
RPM	REVOLUTIONS PER MINUTE		
RW	RAIN WATER		
SF	SQUARE FOOT		
S/A	SUPPLY AIR		
SAN	SANITARY		
SF	SQUARE FOOT		
SD	SMOKE DAMPER		
SM	SURFACE MOUNT		
SP	STANDPIPE		
SP	STATIC PRESSURE		
STM	STEAM		
T	THERMOSTAT		
TD	TEMPERATURE DROP		
TDR	TRENCH DRAIN		
TEMP	TEMPERATURE		
TYP	TYPICAL		
UG	UNDERGROUND		
VAC	VACUUM		
V	VENT		
VAV	VARIABLE AIR VOLUME		
VTR	VENTILATION		
VTR	VENT THROUGH ROOF		
W	WASTE		
WB	WET BULB		
WCO	WALL CLEAN OUT		
WH	WALL HYDRANT		
ET	EXPANSION TANK		
EWH	ELECTRIC WATER HEATER		
FCU	FAN COIL UNIT		
FP	FIRE PUMP		
GI	GREASE INTERCEPTOR		
GRV	GRAVITY ROOF VENTILATOR		
HWP	HEATING WATER PUMP		
HRU	HEAT RECOVERY UNIT		
PRV	POWER ROOF VENTILATOR		
RE	RETURN EXHAUST FAN		
RTU	ROOFTOP UNIT		
SP	SUMP PUMP		
UH	UNIT HEATER		
WH	WATER HEATER		
Equipment Abbreviations		Mechanical Control Devices	
AC	AIR CONDITIONING UNIT	⊖	Thermostat
ACCU	AIR COOLING CONDENSING UNIT	⊕	Humidistat
AHU	AIR HANDLING UNIT	TS	Temperature Sensor
AS	AIR SEPARATOR	HS	Humidity Sensor
B	BOILER	CO2	Carbon Dioxide Detector
CH	CHILLER	H2G	Hazardous Gas Detector
CT	COOLING TOWER		
CJH	CABINET UNIT HEATER		
CHWP	CHILLED WATER PUMP		
DBP	DOMESTIC WATER BOOSTER PUMP		
DC	DUCT MOUNTED COIL		
DCP	DOMESTIC WATER CIRCULATING PUMP		
EF	EXHAUST FAN		
EDC	ELECTRIC DUCT COIL		
Damper Types			
⊖	Manual Damper		
⊖M	Motorized Damper		
⊖B	Backdraft Damper		
⊖S	Smoke Damper		
⊖F	Fire Damper		
⊖CF	Comb. Final Smoke Damper		
NOTE: ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.			

HVAC SHEET INDEX	
M0.1	HVAC TITLE SHEET
M1.1	HVAC PLANS BUILDING A
M1.2	HVAC PLANS BUILDING A
M1.3	HVAC PLANS BUILDING B
M1.4	HVAC PLANS BUILDING B
M4.1	ENLARGED HVAC PLANS
M4.2	ENLARGED HVAC PLANS
M6.1	MECHANICAL SCHEDULES

GENERAL HVAC NOTES

- CONTRACTOR SHALL LOCATE THERMOSTATS AND HUMIDISTATS AT 4'-0" AFF UNLESS NOTED OTHERWISE. MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF 8" FROM LIGHT SWITCHES.
- CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER. WHERE INSTALLED ABOVE CEILING, CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH MINIMUM 1/2" FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET.
- ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.
- COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH LIGHTING. PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED.
- HVAC EQUIPMENT SHALL NOT BE UTILIZED UNTIL ALL DUCT PRODUCING CONSTRUCTION ACTIVITY HAS BEEN COMPLETED. CONTRACTOR SHALL BE REQUIRED TO OBTAIN APPROVAL FROM OWNER PRIOR TO EQUIPMENT STARTUP, AND TO REPLACE FILTERS ON HVAC EQUIPMENT UPON FINAL COMPLETION.
- LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
- FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
- LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOFS WITHOUT A 42" HIGH PARAPET OR GUARD RAIL. WHERE PROVIDING 10'-0" SEPARATION FROM ROOF EDGE IS NOT POSSIBLE, PROVIDE PERMANENT FALL ARREST ANCHORS COMPLIANT WITH ANSI/ASSP Z359.1. COORDINATE WITH GENERAL CONTRACTOR.
- LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT OUTSIDE OF THE NEC REQUIRED CLEAR SPACE ABOVE AND AROUND ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR.
- PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE U.L. LISTED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES.
- PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE. VISUAL INSPECTION OR HAND OPERATION, WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
- TRANSITION FROM PIPING AND DUCTWORK SIZES SHOWN TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
- INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILING.
- PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT AND MATERIALS. SUBSTITUTE EQUIPMENT INSTALLED WITHOUT PRIOR APPROVAL SHALL BE SUBJECT TO REPLACEMENT AT CONTRACTOR'S EXPENSE. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
- PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

GENERAL MECHANICAL DEMOLITION NOTES

- ALL PIPING TAKEN OUT OF SERVICE SHALL BE REMOVED. WHERE PIPING TO BE REMOVED IS CONNECTED TO EXISTING PIPING TO REMAIN, PIPING SHALL BE REMOVED BACK TO MAIN AND CAPPED, UNLESS INDICATED OTHERWISE. CONTRACTOR SHALL DISPOSE OF PIPING OR DELIVER TO OWNER, AS DIRECTED BY OWNER.
- WHERE PIPING TAKEN OUT OF SERVICE IS LOCATED BELOW SLAB AND IS UNABLE TO BE REMOVED, CAP BELOW SLAB.
- ALL DUCTWORK TAKEN OUT OF SERVICE SHALL BE REMOVED.
- COORDINATE CUTTING PATCHINGS OF EXISTING WALLS, CEILING, ROOF AND FLOORS AFFECTED BY MECHANICAL DEMOLITION WITH G.C.
- ALL EQUIPMENT TAKEN OUT OF SERVICE SHALL BE REMOVED. EQUIPMENT SHALL BE DELIVERED TO OWNER OR DISPOSED OF AS DIRECTED BY OWNER.
- REMOVE ALL MECHANICAL INSTALLATION FROM PROJECT AREA, UNLESS REQUIRED FOR NEW WORK OR EXISTING INSTALLATION NOT AFFECTED BY REMODEL. COORDINATE WITH OWNER AND G.C.
- SERVICES TO ITEMS NOT REMOVED AS PART OF THIS WORK SHALL BE RESTORED UPON COMPLETION OF THIS WORK TO FULLY OPERATIONAL CONDITION.
- NOT ALL ITEMS REQUIRED TO BE DEMOLISHED MAY BE INDICATED ON DRAWINGS. ALL DEMOLITION OF AFFECTED SPACE SHALL BE PERFORMED AS IF INDICATED.
- FIELD VERIFY EXACT LOCATION OF ALL EXISTING MECHANICAL INSTALLATION INDICATED ON DRAWINGS.
- ALL ITEMS TO BE RE-USED OR RELOCATED SHALL BE CLEANED, REPAIRED, AND RESTORED TO LIKE NEW CONDITION PRIOR TO RE-USE.



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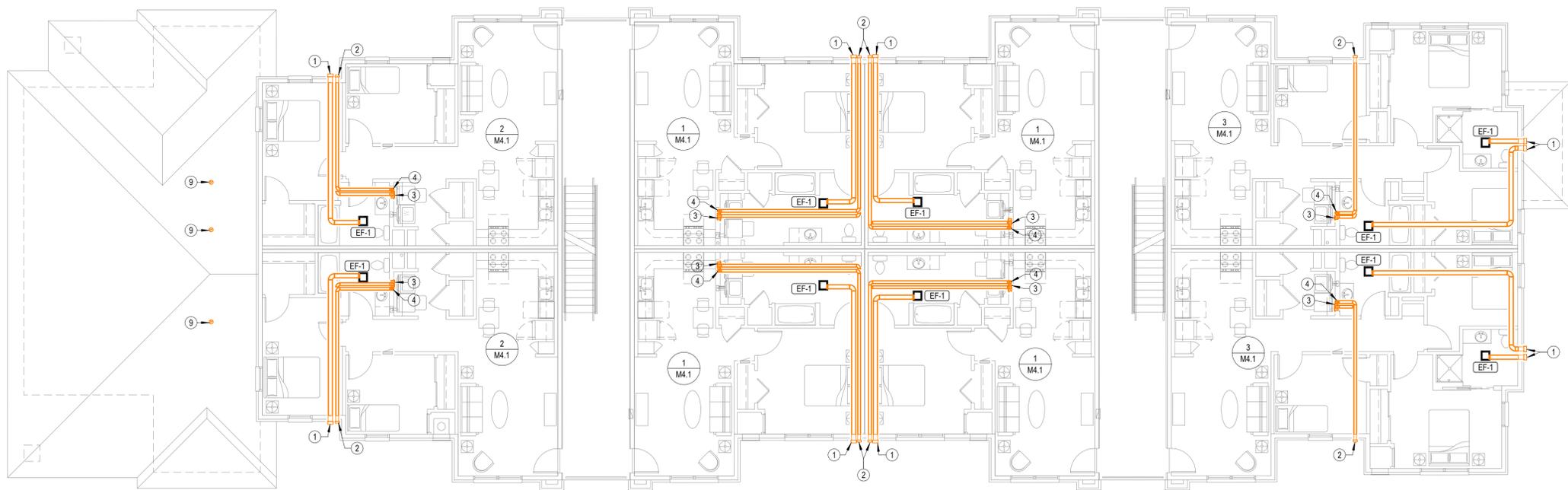
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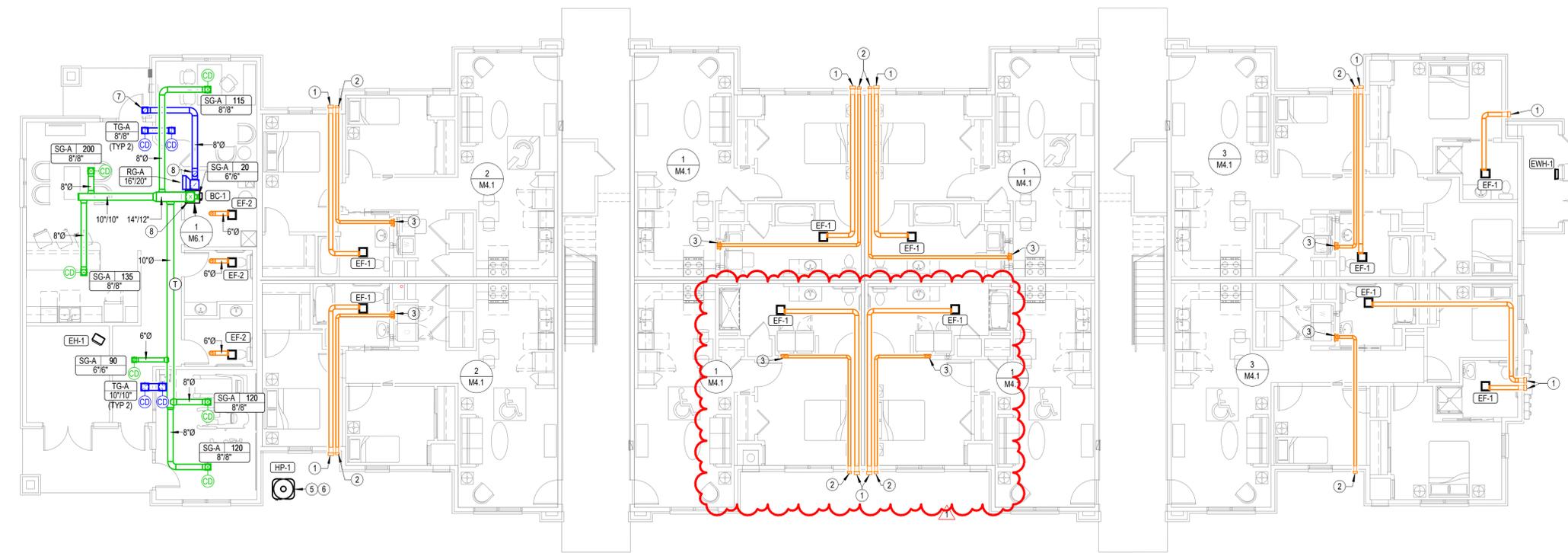
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- NOTES BY SYMBOL**
- ROUTE 6"Ø EXHAUST DUCT TO MANUFACTURER'S WALL CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN. COORDINATE FINAL LOCATION WITH ARCHITECT.
 - 4" DRYER DUCT. SEE ENLARGED PLANS FOR MORE INFORMATION. COORDINATE FINAL LOCATION OF WALL CAP WITH ARCHITECT.
 - PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. AND ROUTE 4"Ø DRYER EXHAUST DUCT TO WALL CAP WITH BACKDRAFT DAMPER. SEE OVERALL MECHANICAL PLANS FOR UNIT SPECIFIC ROUTING. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH=35'. UTILIZE LONG RADIUS SMOOTH ELBOWS WHERE REQUIRED. MAXIMUM EQUIVALENT DUCT LENGTH MAY BE INCREASED WHERE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS ALLOW, AND DOCUMENTATION IS PROVIDED TO CODE OFFICIAL PRIOR TO CONCEALMENT INSPECTION. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504.
 - NOTE: ANNUAL SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.
 - DRYER EXHAUST DUCT ROUTED FROM THIRD FLOOR ROUTED AS HIGH AS POSSIBLE BELOW THIRD FLOOR TO MANUFACTURER'S WALL CAP.
 - ROUTE REFRIGERANT PIPING FROM HEAT PUMP TO BLOWER COIL. PENETRATE WALL 18" AFS AND ROUTE PIPING CONCEALED IN WALLS AND ABOVE CEILINGS. UTILIZE PIPE PENETRATION ASSEMBLY EQUAL TO AIREX TITAN OUTLET.
 - MOUNT HEAT PUMP ON 3-1/2" CONCRETE PAD. COORDINATE EXACT LOCATION WITH OWNER.
 - PROVIDE 8"x8" ALUMINUM OUTDOOR AIR GRILLE EQUAL TO TITUS MODEL 301. PROVIDE WITH BIRD SCREEN AND TRANSITION TO 8" DIA. DUCT.
 - PROVIDE CEILING RADIATION DAMPER AT DUCT PENETRATION OF RATED CEILING ASSEMBLY.
 - PROVIDE ROOF JACK FOR EXHAUST TERMINATION.



2 BUILDING A-SECOND FLOOR-HVAC PLAN
 1/8" = 1'-0"

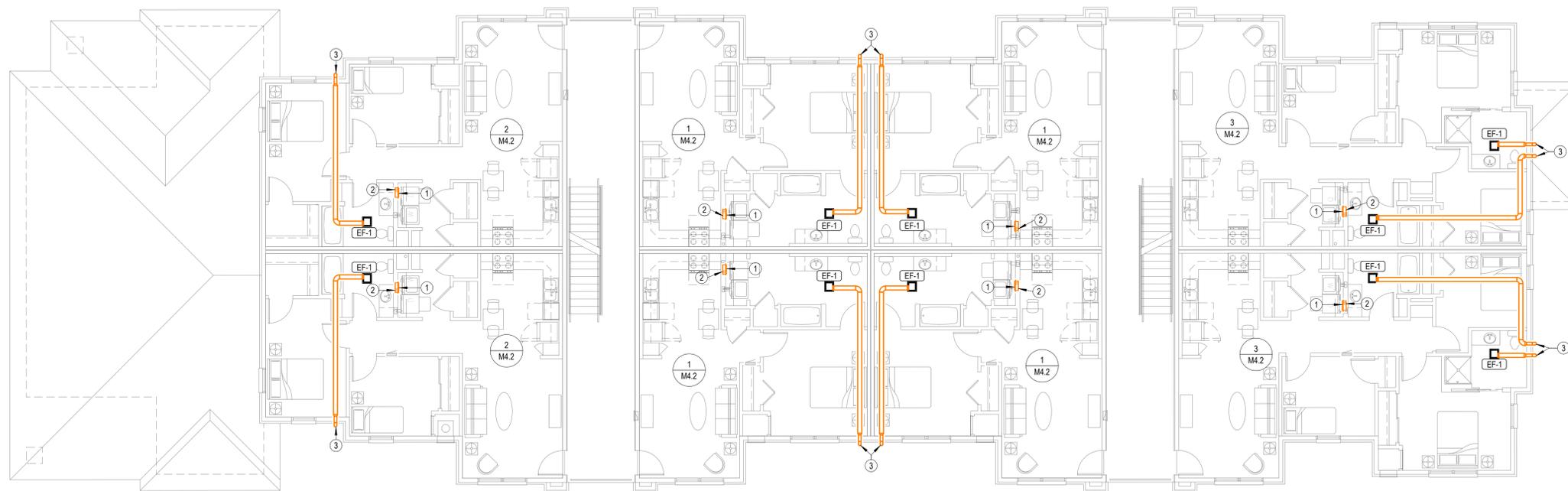


1 BUILDING A-FIRST FLOOR-HVAC PLAN
 1/8" = 1'-0"

NOTES BY SYMBOL

- 1 PROVIDE UL LISTED DRYER BOX EQUAL TO IN-Q-VATE TECHNOLOGIES IN WALL. INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. AND ROUTE 4"Ø DRYER EXHAUST DUCT TO WALL CAP WITH BACKDRAFT DAMPER. SEE OVERALL MECHANICAL PLANS FOR UNIT SPECIFIC ROUTING. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. UTILIZE LONG RADIUS SMOOTH ELBOWS WHERE REQUIRED. MAXIMUM EQUIVALENT DUCT LENGTH MAY BE INCREASED WHERE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS ALLOW, AND DOCUMENTATION IS PROVIDED TO CODE OFFICIAL PRIOR TO CONCEALMENT INSPECTION. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504.

NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.
- 2 ROUTE DRYER EXHAUST DUCT DOWN TO FLOOR BELOW. SEE 2M1.1 FOR CONTINUATION
- 3 ROUTE 6"Ø EXHAUST DUCT TO 4"Ø MANUFACTURER'S SOFFIT VENT. TRANSITION TO 4"Ø DUCT AS CLOSE TO SOFFIT VENT AS POSSIBLE. COORDINATE FINAL LOCATION WITH ARCHITECT.



1 BUILDING A-THIRD FLOOR-HVAC PLAN
 1/8" = 1'-0"

THE RESERVES AT COBALT CIRCLE

NEW APARTMENT COMPLEX

BROWNSVILLE

TENNESSEE



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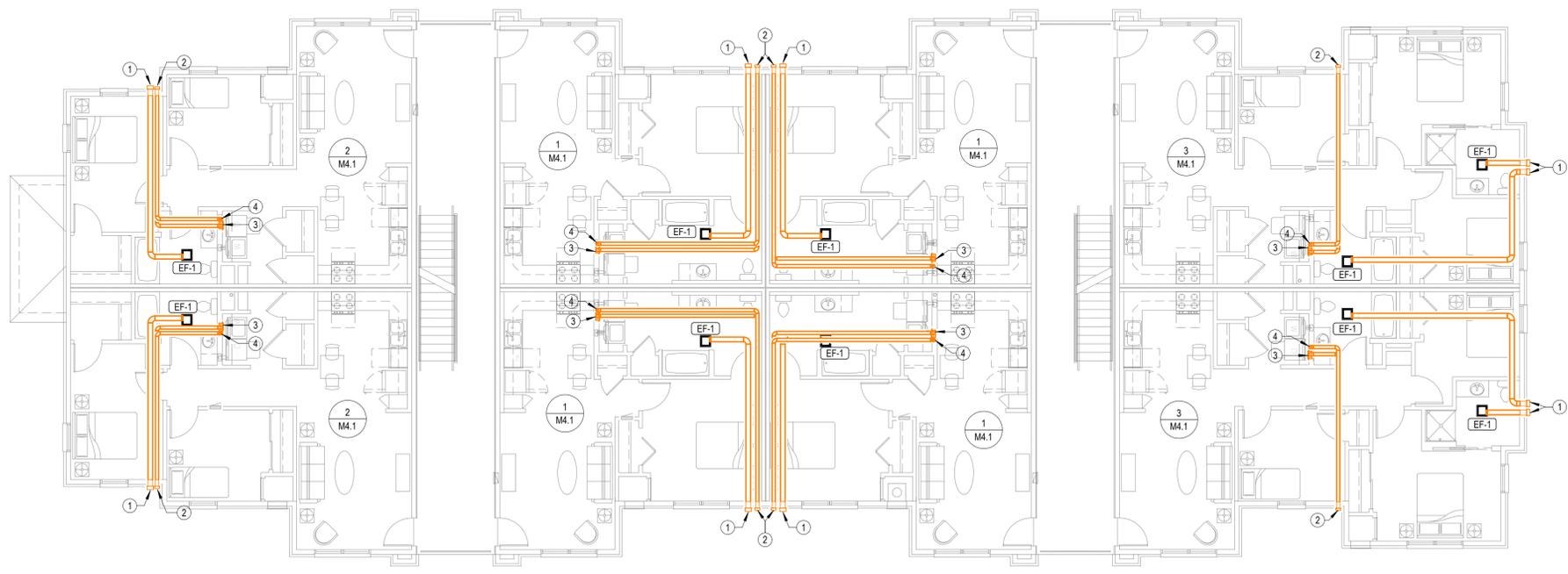


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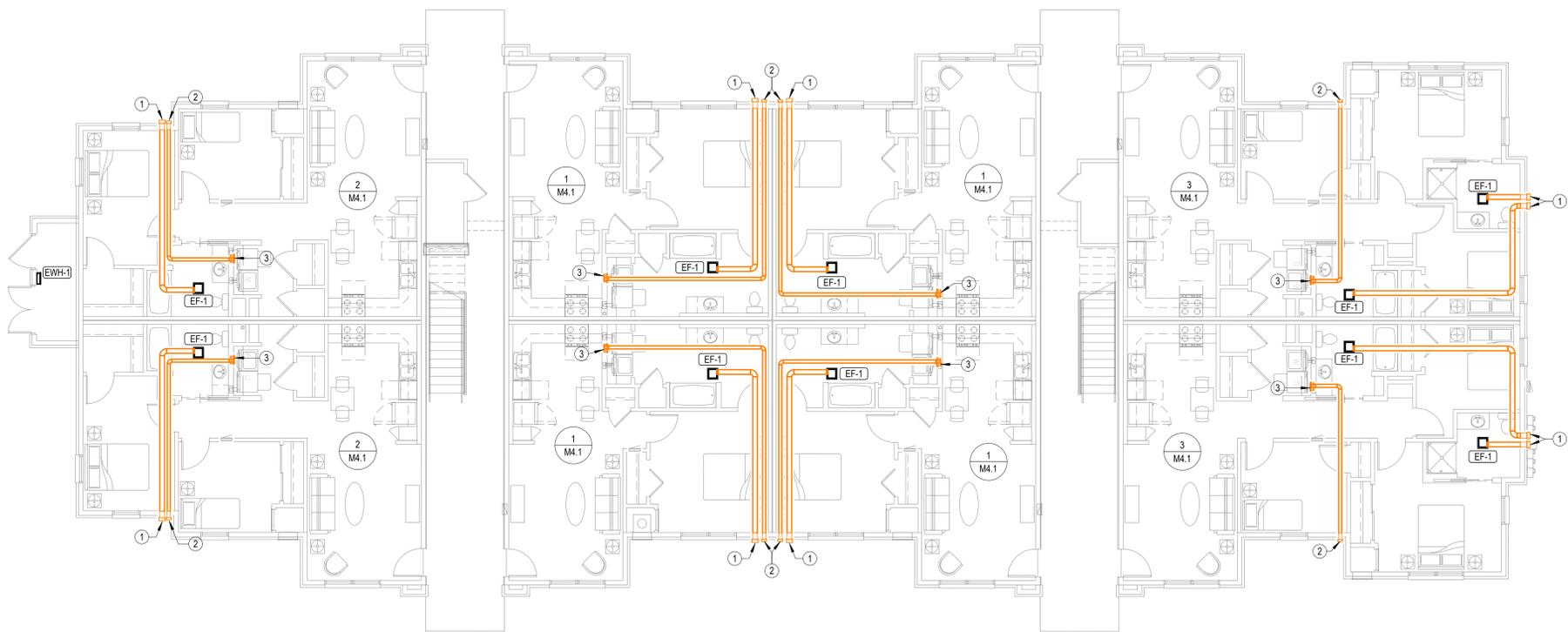
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NOTES BY SYMBOL

- ROUTE 6"Ø EXHAUST DUCT TO MANUFACTURER'S WALL CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN. COORDINATE FINAL LOCATION WITH ARCHITECT.
- 4" DRYER DUCT. SEE ENLARGED PLANS FOR MORE INFORMATION. COORDINATE FINAL LOCATION OF WALL CAP WITH ARCHITECT.
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- NOTE: ANNUAL SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.
- DRYER EXHAUST DUCT ROUTED FROM THIRD FLOOR ROUTED AS HIGH AS POSSIBLE BELOW THIRD FLOOR TO MANUFACTURER'S WALL CAP.



2 BUILDING B-SECOND FLOOR-HVAC PLAN
 1/8" = 1'-0"
 BUILDING 'C' SIMILAR

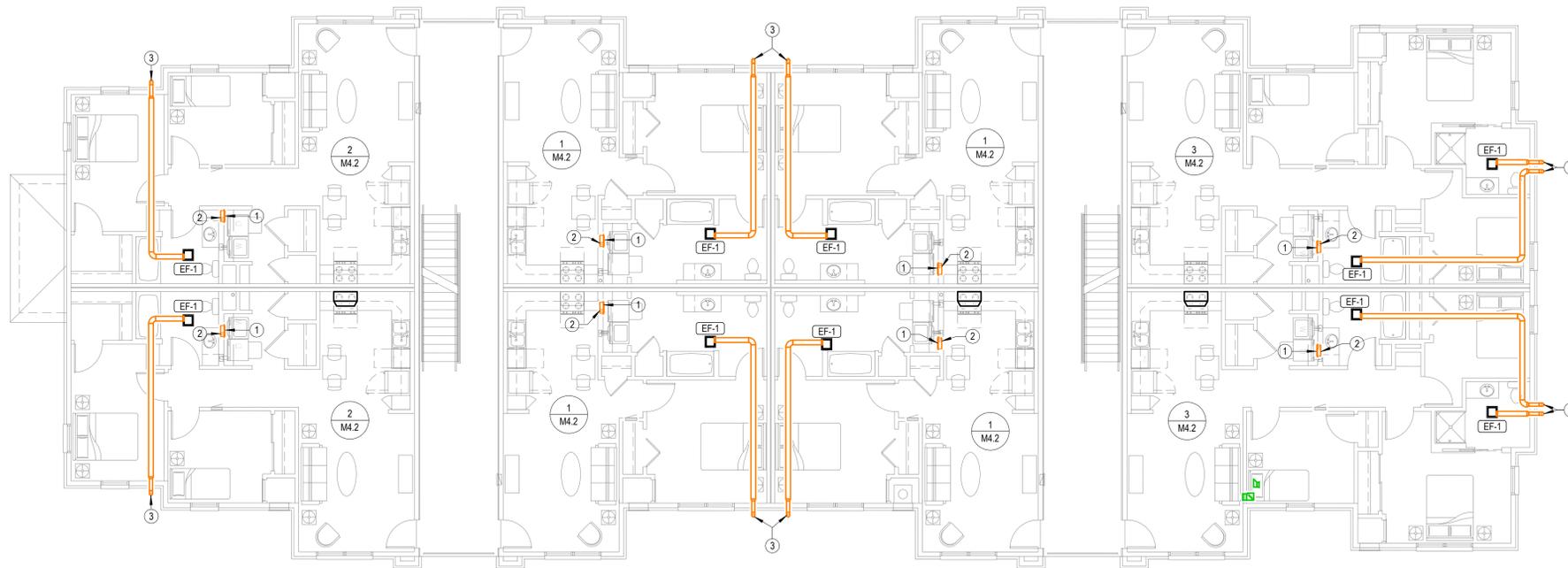


1 BUILDING B-FIRST FLOOR-HVAC PLAN
 1/8" = 1'-0"
 BUILDING 'C' SIMILAR

NOTES BY SYMBOL

- 1 PROVIDE UL LISTED DRYER BOX EQUAL TO IN-Q-VATE TECHNOLOGIES IN WALL. INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. AND ROUTE 4"Ø DRYER EXHAUST DUCT TO WALL CAP WITH BACKDRAFT DAMPER. SEE OVERALL MECHANICAL PLANS FOR UNIT SPECIFIC ROUTING. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. UTILIZE LONG RADIUS SMOOTH ELBOWS WHERE REQUIRED. MAXIMUM EQUIVALENT DUCT LENGTH MAY BE INCREASED WHERE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS ALLOW, AND DOCUMENTATION IS PROVIDED TO CODE OFFICIAL PRIOR TO CONCEALMENT INSPECTION. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504.

NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.
- 2 ROUTE DRYER EXHAUST DUCT DOWN TO FLOOR BELOW. SEE 2M1.3 FOR CONTINUATION
- 3 ROUTE 6"Ø EXHAUST DUCT TO 4"Ø MANUFACTURER'S SOFFIT VENT. TRANSITION TO 4"Ø DUCT AS CLOSE TO SOFFIT VENT AS POSSIBLE. COORDINATE FINAL LOCATION WITH ARCHITECT.



1 BUILDING B-THIRD FLOOR-HVAC PLAN
 1/8" = 1'-0" BUILDING 'C' SIMILAR



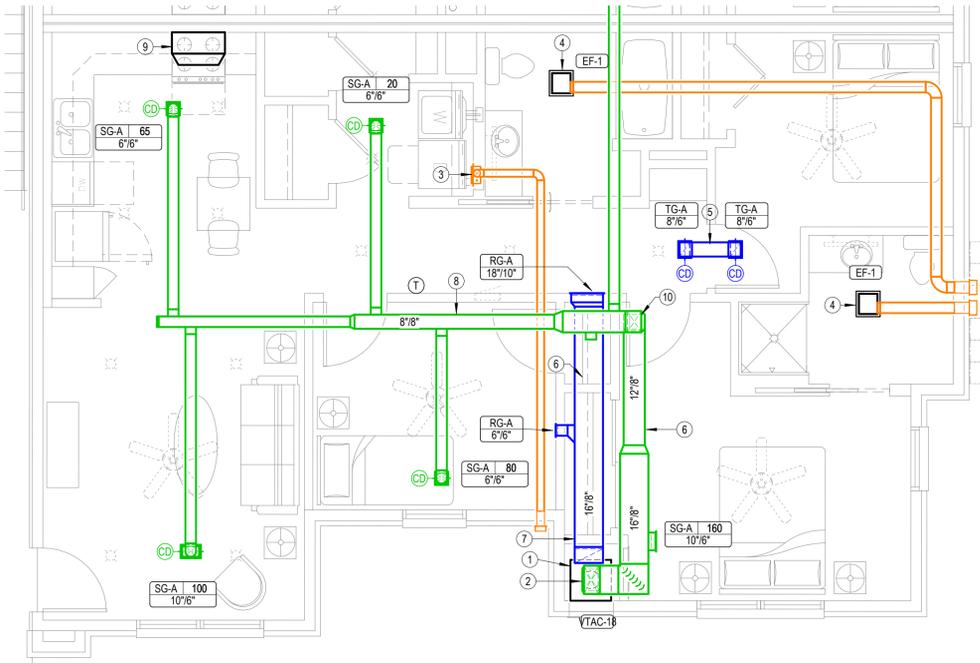
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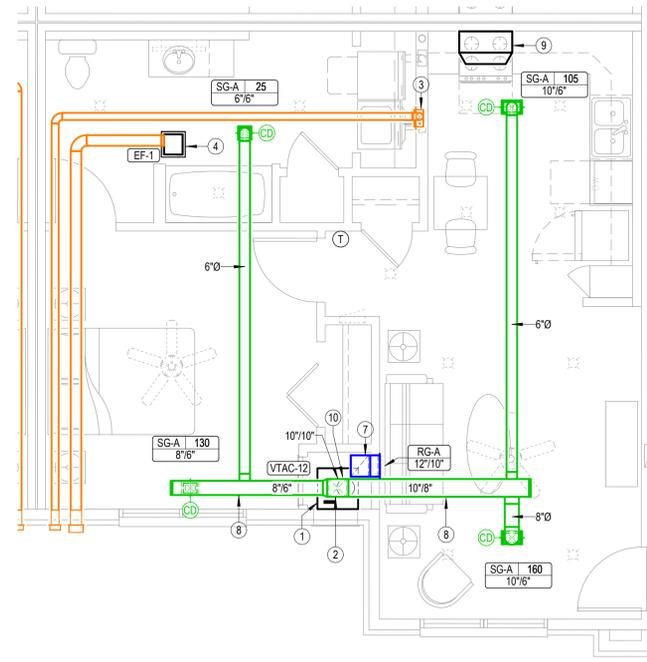
THE RESERVES AT COBALT CIRCLE
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 TENNESSEE

M1.4

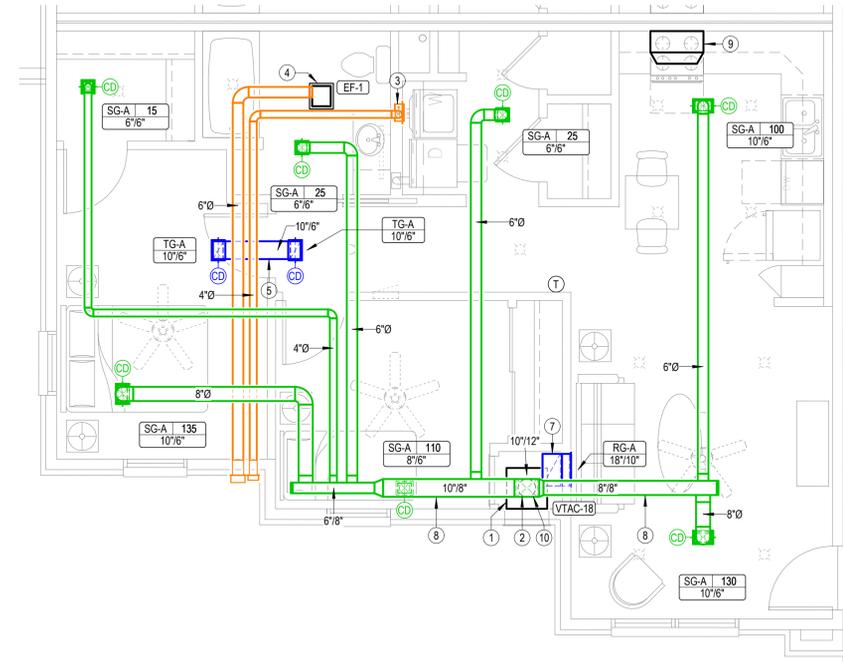
- NOTES BY SYMBOL**
- 1 PROVIDE AUXILIARY DRAIN PAN BELOW VTAC, AND PIPE OVERFLOW DRAIN TO FLOOR DRAIN.
 - 2 TRANSITION FROM CONNECTION AT VTAC TO SUPPLY DUCT.
 - 3 SEE M1.1, M1.2, M1.3, AND M1.4 FOR DRYER EXHAUST DUCT ROUTING.
 - 4 SEE M1.1, M1.2, M1.3, AND M1.4 FOR BATHROOM EXHAUST DUCT ROUTING.
 - 5 LINED TRANSFER DUCT.
 - 6 ROUTE DUCTWORK IN SOFFIT. COORDINATE EXACT LOCATION WITH G.C. AND ARCHITECT.
 - 7 LINED RETURN DUCT TERMINATED WITH ELBOW DOWN IN VTAC CLOSET.
 - 8 SUPPLY DUCT ROUTED HIGH BETWEEN JOISTS.
 - 9 RECIRCULATING RANGE HOOD BY OTHERS.
 - 10 ROUTE DUCTWORK UP INTO JOIST SPACE. PROVIDE CEILING RADIATION DAMPER AT PENETRATION OF RATED CEILING ASSEMBLY.



3 FIRST AND SECOND FLOOR 3 BEDROOM ENLARGED HVAC PLAN
 1/4" = 1'-0"



1 FIRST AND SECOND FLOOR 1 BEDROOM ENLARGED HVAC PLAN
 1/4" = 1'-0"



2 FIRST AND SECOND FLOOR 2 BEDROOM ENLARGED HVAC PLAN
 1/4" = 1'-0"

THE RESERVES AT COBALT CIRCLE

NEW APARTMENT COMPLEX

TENNESSEE

BROWNSVILLE

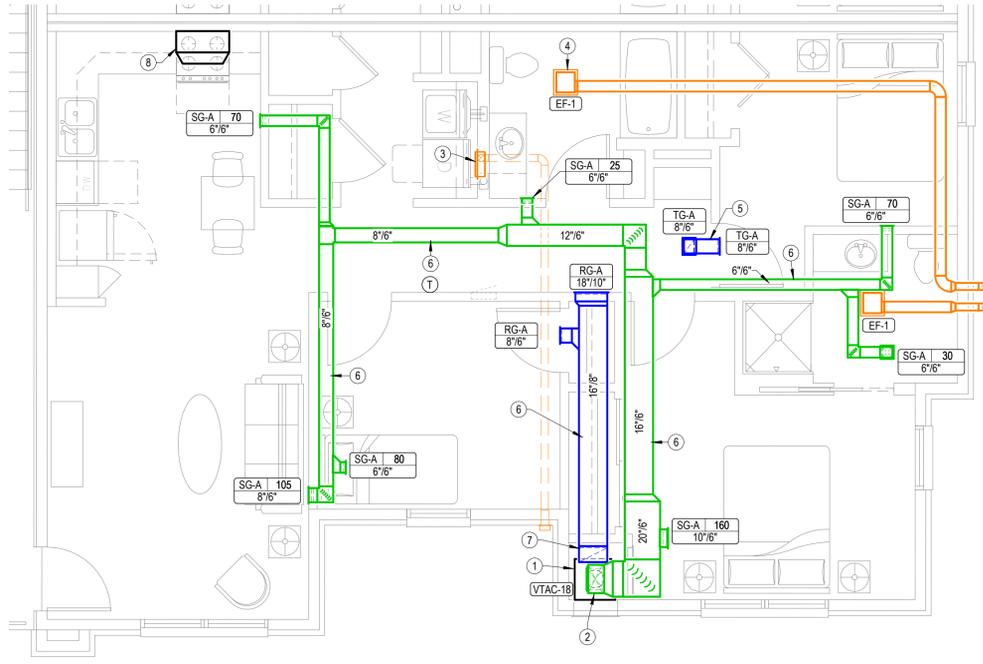


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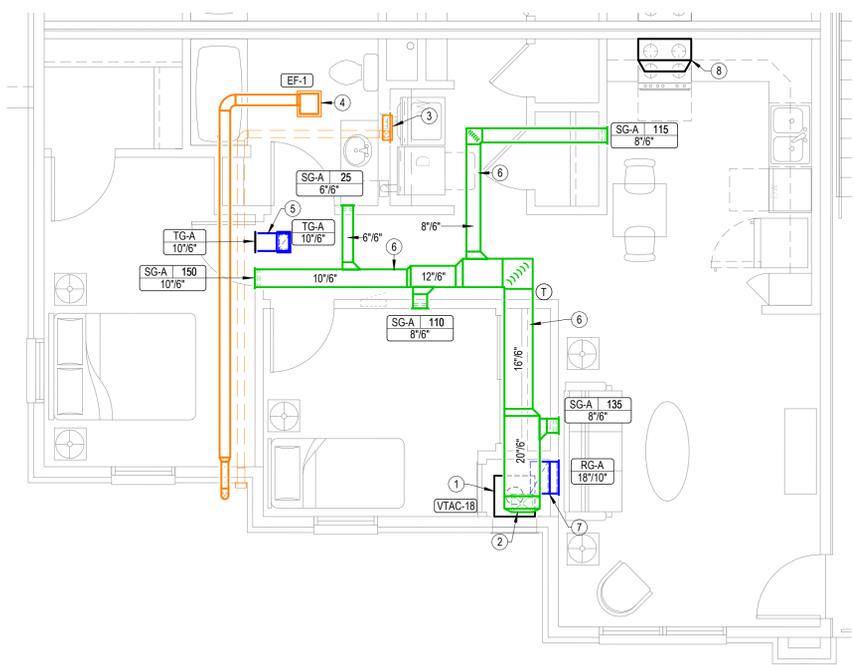
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M4.1

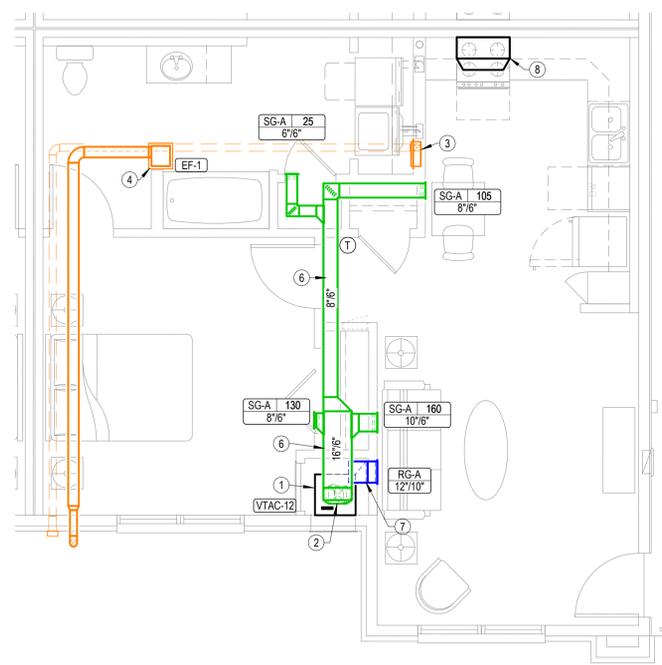
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 - 8 RECIRCULATING RANGE HOOD BY OTHERS.



3 THIRD FLOOR 3 BEDROOM ENLARGED HVAC PLAN
 1/4" = 1'-0"



2 THIRD FLOOR 2 BEDROOM ENLARGED HVAC PLAN
 1/4" = 1'-0"



1 THIRD FLOOR 1 BEDROOM ENLARGED HVAC PLAN
 1/4" = 1'-0"

THE RESERVES AT COBALT CIRCLE
 NEW APARTMENT COMPLEX
 TENNESSEE
 BROWNVILLE



REVISIONS:

DATE: 05/09/2025
 JOB: 24-3446
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ID Type	Manufacturer	Model	Application			Mounting	Include Damper	Product Specification
			Supply	Return	Transfer			
RG-A	Titus	355RL	■			Surface Mount	No	Steel louvered return grille
SG-A	Titus	300R	■			Surface Mount	Yes	Steel double deflection supply grille with front blades parallel to long dimension
TG-A	Titus	355RL			■	Surface Mount	No	Steel louvered return grille

NOTES:
 • Maximum noise criteria shall be 25.
 • Runouts to diffusers shall be same size as neck, U.N.O.
 • Paint objects visible through grilles with flat black paint.
 • Provide mounting frame as required for ceiling type. Coordinate with Architect.
 • Verify finish with Architect.
 • Provide devices with radiation dampers as required in rated ceilings. Coordinate with Architect.

MARK	MANUFACTURER	MODEL NUMBER	COOLING					HEATING			ELECTRICAL				NOTES			
			OA DB	ENT DB	ENT WB	SENSIBLE COOLING	TOTAL COOLING	SEER2	TOTAL HEATING	HSPF2	ELECTRIC HEAT OUTPUT	AIRFLOW	ESP	FAN SPEED		MCA	MOCP	VOLTAGE
VTAC-12	Friedrich	VHA12 - 34RTQ	95 °F	75 °F	63 °F	6,797 Btu/h	9,850 Btu/h	14.3	10,400 Btu/h	7.5	2.7 kW	420 CFM	0.30 in-wg	HIGH	19 A	20 A	208 V	1
VTAC-18	Friedrich	VHA18 - 50RTQ	95 °F	75 °F	63 °F	12,248 Btu/h	16,330 Btu/h	14.3	16,000 Btu/h	7.5	4.1 kW	560 CFM	0.30 in-wg	HIGH	28 A	30 A	208 V	1

NOTES:
 1. Provide with access panel.
 2. Provide with accessory drain pan.
 3. Provide with wall plenum and accessory architectural louver in color as selected by architect.
 4. Provide with wired programmable thermostat.
 5. Coordinate mounting height of unit and exterior louver with G.C.
 6. Permanently seal fresh air opening in VTAC unit. Outside air is provided to space via bathroom exhaust fan.
 7. Provide filter bracket at unit with minimum MERV 6 filter.
 8. Provide with integral disconnect switch.

Mark	Manufacturer	Model	CFM	ESP	Power	Electrical Voltage	Phase	Notes
EF-1	Panasonic	FV-0511VQ1	80 CFM	0.25 in-wg	11 W	120 V	1	1,2,3,4,5,6
EF-2	Panasonic	FV-0511VQ1	50 CFM	0.25 in-wg	7 W	120 V	1	1,2,3,4,5,6

NOTES:
 1. Fixture shall be Energy Star listed.
 2. Fixture shall operate at < 1 SONE.
 3. Provide with EC motor with integral disconnect.
 4. Provide manufacturer's wall cap or roof jack, see plans.
 5. Provide integral backdraft damper.
 6. Provide with manufacturer's ceiling radiation damper. Omit radiation dampers where rated ceilings are not present, coordinate with Architect.

Type ID	Manufacturer	Model	Nominal Capacity	Cooling Capacity			Heating Capacity			Electrical							
				EDB	EDB	EWB	Net Sensible Capacity	Rated Cooling Capacity	SEER2 Rating	OA EDB	EDB	Rated Heating Capacity	HSPF2 Rating	Phase	MCA	MOCP	Voltage
HP-1	Trane	4TWR4024	2.0 ton	105 °F	80 °F	67 °F	17,200 Btu/h	22,200 Btu/h	14.3	47 °F	70 °F	22,500 Btu/h	7.5	1	15 A	25 A	208 V

NOTES:
 1. Refrigerant lines shall be field fabricated. Coordinate line sizing requirements with equipment manufacturer for length.
 2. Provide 7-day programmable thermostat.
 3. Provide with R454B refrigerant.
 4. Provide 2 sets of MERV-7 filters.

Mark	Manufacturer	Model	Mounting	Watts	Voltage	Phase	Description	Notes
EWH-1	Trane	UHWA	Wall	3.0 kW	208 V	1	Architectural fan forced wall heater	1,2,3

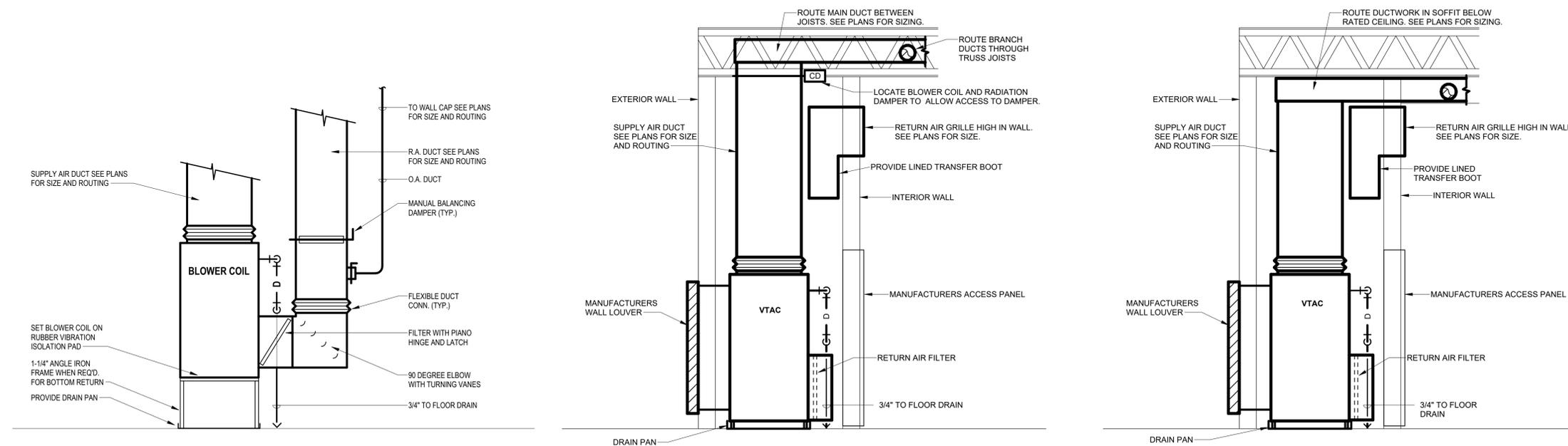
NOTES:
 1. Provide with high temperature thermal cutout and fan delay.
 2. Provide with integral thermostat and unit mounted disconnect switch.
 3. Provide with manufacturer's surface mounting adapter sleeve.

Mark	Manufacturer	Model	Fan			Heating	Electrical		MCA	MOCP
			Airflow	ESP	Speed		Voltage	Phase		
BC-1	Trane	TEM4A0B31	800 CFM	0.50 in-wg	Medium	5.8 kW	208 V	1	38 A	40 A

NOTES:
 1. Single point connection required, coordinate the exact electrical requirements of equipment provided with E.C.
 2. Electric heater shall not operate simultaneously with heat pump. Electric heater shall be used as back-up heat only.

Mark	Manufacturer	Model	Mounting	Watts	Voltage	Phase	Description	Notes
EH-1	Berko	RUX300812	Unit	3.0 kW	208 V	1	Explosion proof heater	1,2,3,4

NOTES:
 1. Provide with 24V thermostat.
 2. Provide with mounting bracket as required.
 3. Provide with integral disconnect switch.
 4. Mount as high as possible, per manufacturers recommendations.



1 **BLOWER COIL DETAIL**
NO SCALE

2 **VTAC COIL DETAIL**
NO SCALE

3 **VTAC COIL DETAIL 3RD FLOOR**
NO SCALE



REVISIONS:

DATE: 05/09/2025

JOB: 24-3446

SHEET NO.:



REVISIONS:
 1 10-14-2025 ASI #2
 DATE: 05/09/2025
 JOB: 24-3446
 SHEET NO.:

General Plan Symbols		Plumbing Symbols	
	Plan Revision Number		Nominal Pipe Size
	Detail Number on Sheet		Above Ground Piping
	Sheet Number Where Detail is Placed		Below Ground Piping
	Keynote Symbol		Pipe Slope (When Applicable)
	Continuation Symbol		Existing Pipe To Remain
	Point Where New Connects To Existing		Pipe To Be Demolished
	Room Name / Number		Domestic Cold Water
	Area Being Demolished		Non-Portable Water
	Area Not In Contract		Soft Cold Water
	Electrical Equipment. Do not route HVAC installation above or below equipment. Maintain working clearance as indicated by dashed line.		Filtered Cold Water
			Reverse Osmosis Water
			Domestic Hot Water
			Domestic Hot Water 140°
			Hot Water Recirculation
			Hot Water Recirculation 140°
			Sanitary Drain
			Sanitary Vent
			Radon Mitigation
			Sanitary Wet Vent
			Combination DWV
			Condensate Drain
			Indirect Drain
			Grease Waste
			Grease Vent
			Pump Discharge
			Storm Drain
			Storm Overflow
			Compressed Air
			Natural Gas
			Liquid Propane
			Pipe Rise / Drop
			4" FOO
			2" CHECK
			2" BALANCE
			2" CIRC
			2" GATE
			2" S/O
			2" STRAIN
			1" GAS-CTRL
			1" PLUG
			1" GAS COCK
			1" REG
			1" TVV
			IMV.XTIP
			IMVEM
			2" PRV
			2 1/2" METER
			Double Check Valve
			Reduced Pressure Zone
			Floor Drain
			2" F.D.A.
			2 DFU
			Floor Drain w/ Deep Seal Trap
			Floor Drain w/ Trap Primer
			Floor Drain w/ Integral Cleanout
			Area Drain (No Trap)
			Deck Drain
			Hub Drain (Funnel Type)
			Floor Sink
			Roof Drain
			6" SD-1
			2000 SF
			Combination Drain
			Rainfall Surface Area
			Plumbing Fixture Notes
			Equipment Abbreviations

Plumbing Sheet Index

P0.1	PLUMBING TITLE SHEET
P1.1	WASTE AND VENT BUILDING A
P1.2	WASTE AND VENT BUILDING A
P1.3	WASTE AND VENT BUILDING B
P1.4	WASTE AND VENT BUILDING B
P1.5	DOMESTIC WATER
P4.1	ENLARGED FLOOR PLANS
P4.2	ENLARGED FLOOR PLANS
P6.1	PLUMBING SCHEDULES
P9.1	PLUMBING 3D RISERS
P9.2	PLUMBING 3D RISERS
P9.3	PLUMBING 3D RISERS

- GENERAL PLUMBING NOTES**
- FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
 - PITCH UNDERFLOOR SANITARY WASTE PIPING OVER 2" AT 18" PER FOOT, 2" AND SMALLER AT 14" PER FOOT.
 - FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
 - ROUTE DOMESTIC WATER, AND SANITARY SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
 - WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.
 - LOCATIONS OF PIPING AND EQUIPMENT AS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
 - FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL (OR UNIFORM, DEPENDING ON JURISDICTION) PLUMBING CODE AND INTERNATIONAL MECHANICAL CODE.
 - LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
 - LOCATE PIPING AND EQUIPMENT OUTSIDE OF THE NEC REQUIRED CLEAR SPACE ABOVE AND AROUND ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR.
 - PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE U/L LISTED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES.
 - PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
 - MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
 - TRANSITION FROM PIPING SIZES SHOWN TO PROPERLY CONNECT TO EQUIPMENT.
 - PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
 - INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
 - INSTALL EXPOSED PIPING AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
 - PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL PLUMBING EQUIPMENT AND MATERIALS. SUBSTITUTE EQUIPMENT AND MATERIALS INSTALLED WITHOUT PRIOR APPROVAL SHALL BE SUBJECT TO REPLACEMENT AT CONTRACTOR'S EXPENSE.
 - CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
 - PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

- GENERAL PLUMBING DEMOLITION NOTES**
- ALL PIPING TAKEN OUT OF SERVICE SHALL BE REMOVED. WHERE PIPING TO BE REMOVED IS CONNECTED TO EXISTING PIPING TO REMAIN, PIPING SHALL BE REMOVED BACK TO MAIN AND CAPPED, UNLESS INDICATED OTHERWISE. CONTRACTOR SHALL DISPOSE OF PIPING OR DELIVER TO OWNER, AS DIRECTED BY OWNER.
 - WHERE PIPING TAKEN OUT OF SERVICE IS LOCATED BELOW SLAB AND IS UNABLE TO BE REMOVED, CAP BELOW SLAB.
 - COORDINATE CUTTING, PATCHING OF EXISTING WALLS, CEILINGS, ROOF AND FLOORS AFFECTED BY MECHANICAL DEMOLITION WITH G.C.
 - ALL EQUIPMENT TAKEN OUT OF SERVICE SHALL BE REMOVED. EQUIPMENT SHALL BE DELIVERED TO OWNER OR DISPOSED OF AS DIRECTED BY OWNER.
 - REMOVE ALL PLUMBING INSTALLATION FROM PROJECT AREA, UNLESS REQUIRED FOR NEW WORK OR EXISTING INSTALLATION NOT AFFECTED BY REMODEL. COORDINATE WITH OWNER AND G.C.
 - SERVICES TO ITEMS NOT REMOVED AS PART OF THIS WORK SHALL BE RESTORED UPON COMPLETION OF THIS WORK TO FULLY OPERATIONAL CONDITION.
 - NOT ALL ITEMS REQUIRED TO BE DEMOLISHED MAY BE INDICATED ON DRAWINGS. ALL DEMOLITION OF AFFECTED SPACE SHALL BE PERFORMED AS IF INDICATED.
 - FIELD VERIFY EXACT LOCATION OF ALL EXISTING PLUMBING INSTALLATION INDICATED ON DRAWINGS.
 - ALL ITEMS TO BE RE-USED OR RELOCATED SHALL BE CLEANED, REPAIRED, AND RESTORED TO LIKE NEW CONDITION PRIOR TO RE-USE.

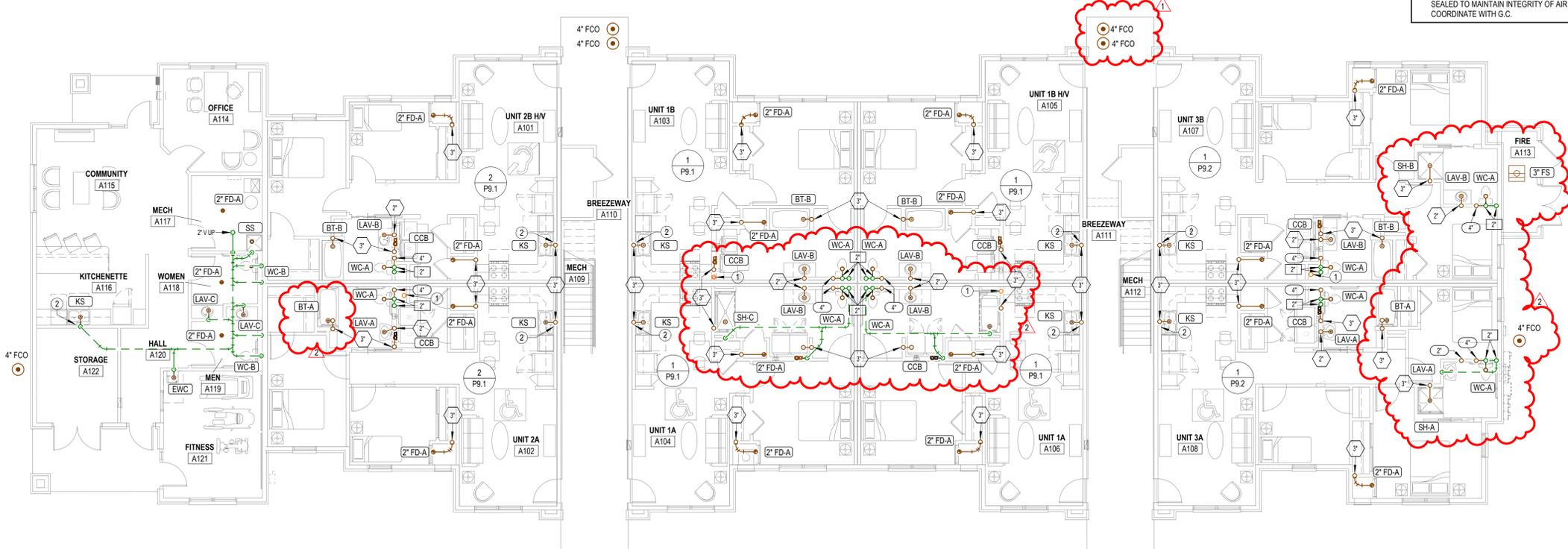
Abbreviations

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MIA	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NORMALLY CLOSED
CAP	CAPACITY	NO	NORMALLY OPEN
CB	CATCH BASIN	NTS	NOT TO SCALE
CLG	CEILING	O	OXYGEN
CO	CLEAN OUT	O/A	OUTSIDE AIR
CW	COLD WATER	ORD	OVERFLOW ROOF DRAIN
D	DEGREE	PD	PRESSURE DROP
DB	DRY BULB	PIV	POST INDICATOR VALVE
DIA	DIAMETER	PLBG	PLUMBING
DN	DOWN	PRV	PRESSURE REDUCING VALVE
DW	DISTILLED WATER	PSI	POUNDS PER SQUARE INCH
EA	EACH	PSIG	POUNDS PER SQUARE INCH GAUGE
EAT	ENTERING AIR TEMPERATURE	PWR	POWER
ELEC	ELECTRICAL	R	DUCT RISER
EQUIP	EQUIPMENT	R/A	RETURN AIR
EWC	ELECTRIC WATER COOLER	RCP	RADIANT CEILING PANEL
EWT	ENTERING WATER TEMPERATURE	RD	ROOF DRAIN
EJA	EXHAUST AIR	REC	RECESSED
EXIST	EXISTING	RED	REDUCER
F	DEGREES FAHRENHEIT	RH	RELATIVE HUMIDITY
FCO	FLOOR CLEAN OUT	RLA	RELIEF AIR
FD	FLOOR DRAIN	RM	ROOM
FDC	FIRE DEPARTMENT CONNECTION	RPM	REVOLUTIONS PER MINUTE
FL	FLOOR	RW	RAIN WATER
FO	FUEL OIL	SF	SQUARE FOOT
FOV	FUEL OIL VENT	S/A	SUPPLY AIR
FOR	FUEL OIL RETURN	SAN	SANITARY
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FS	FLOOR SINK	SM	SMOKE DAMPER
FT	FOOT/FEET	SM	SURFACE MOUNT
FR	FIN TUBE RADIATION	SP	STANDPIPE
GAL	GALLON	SP	STATIC PRESSURE
GF	GAS-FIRED	STM	STEAM
GC	GENERAL CONTRACTOR	T	THERMOSTAT
GPM	GALLONS PER MINUTE	TD	TEMPERATURE DROP
GW	GREASE WASTE	TD	TEMPERATURE DROP
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TD	TEMPERATURE DROP
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LBHR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

Equipment Abbreviations

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	HRV	HEATING RECOVERY UNIT
DBP	DOMESTIC WATER BOOSTER PUMP	PRV	POWER ROOF VENTILATOR
DC	DUCT MOUNTED COIL	RE	RETURN EXHAUST FAN
DGP	DOMESTIC WATER CIRCULATING PUMP	RTU	ROOFTOP UNIT
EF	EXHAUST FAN	SP	SUMP PUMP
EDC	ELECTRIC DUCT COIL	UH	UNIT HEATER
		WH	WATER HEATER

NOTE
 ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.



W&V PLAN GENERAL NOTES

- SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO.
- SEE WASTE AND VENT ISOMETRICS ON SHEET P9.1 - P9.3 FOR ADDITIONAL INFO.
- PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER. COORDINATE WITH G.C.

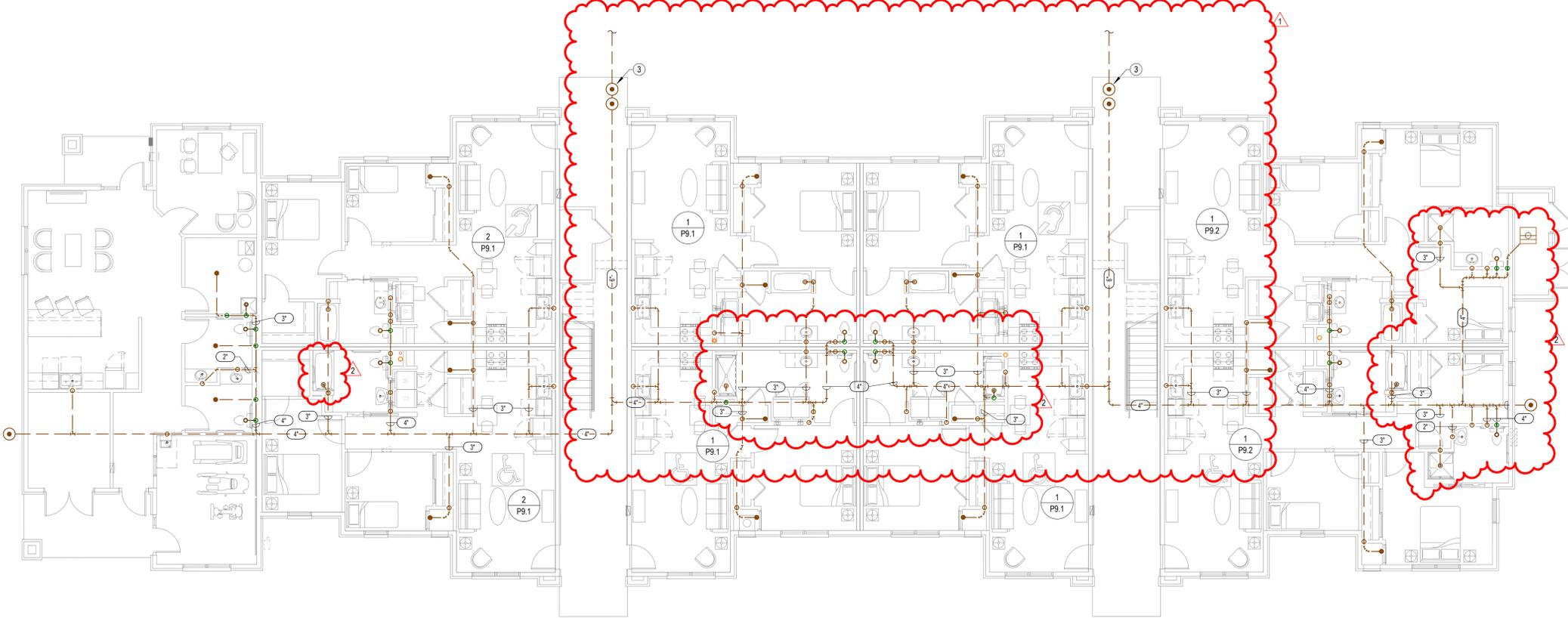
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Project 24072 05/09/2025

PLUMBING SIZING SYMBOLS

⊘	DRAIN (X = SIZE)
⊚	VENT (X = SIZE)
⊗	WASTE STACK VENT (X = SIZE)

- NOTES BY SYMBOL**
- 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
 - PROVIDE INDIRECT CONNECTION AT GARBAGE DISPOSER AND CONNECT DISHWASHER. ROUTE DRAIN FROM DISHWASHER AT BACK OF CABINETRY. COORDINATE EXACT ROUTING WITH G.C.
 - SEE ME1.0 FOR CONTINUATION.

2 BUILDING A-FIRST FLOOR-WASTE AND VENT PLAN
 1/8" = 1'-0"



1 BUILDING A-UNDERFLOOR-WASTE AND VENT PLAN
 1/8" = 1'-0"

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TENNESSEE
BROWNVILLE
THE RESERVES AT COBALT CIRCLE
NEW APARTMENT COMPLEX



REVISIONS:

1	10-29-2025	ASI #3
2	10-30-2025	ASI #4

DATE: 05/09/2025
 JOB: 24-3446
 SHEET NO.:

P1.1

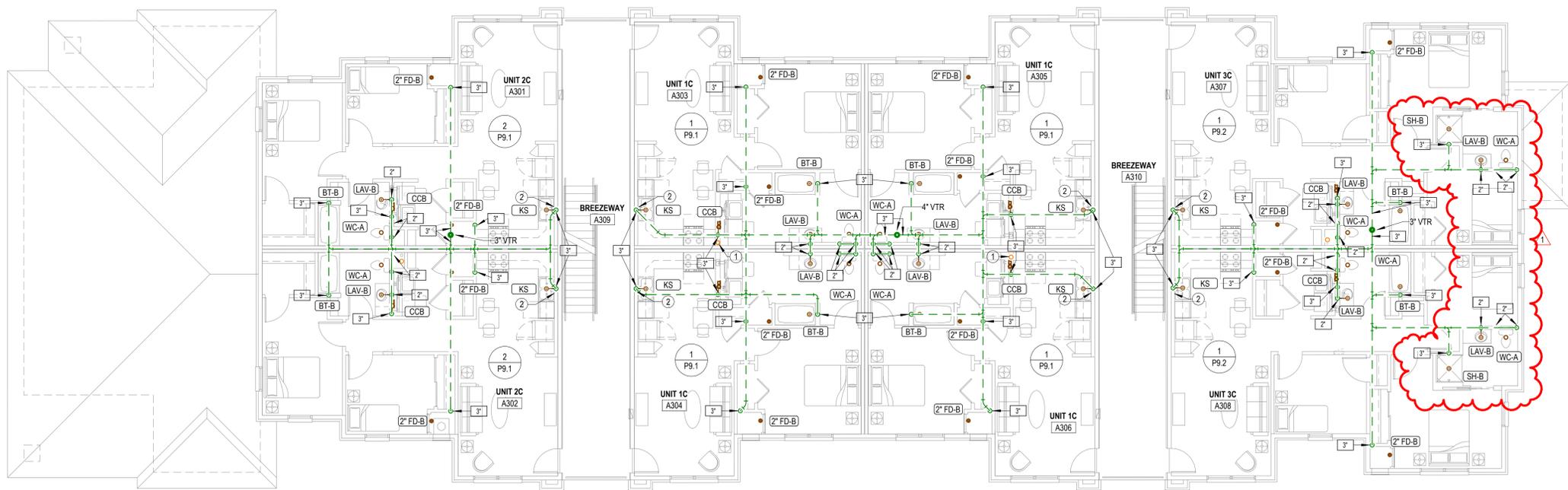
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PLUMBING SIZING SYMBOLS

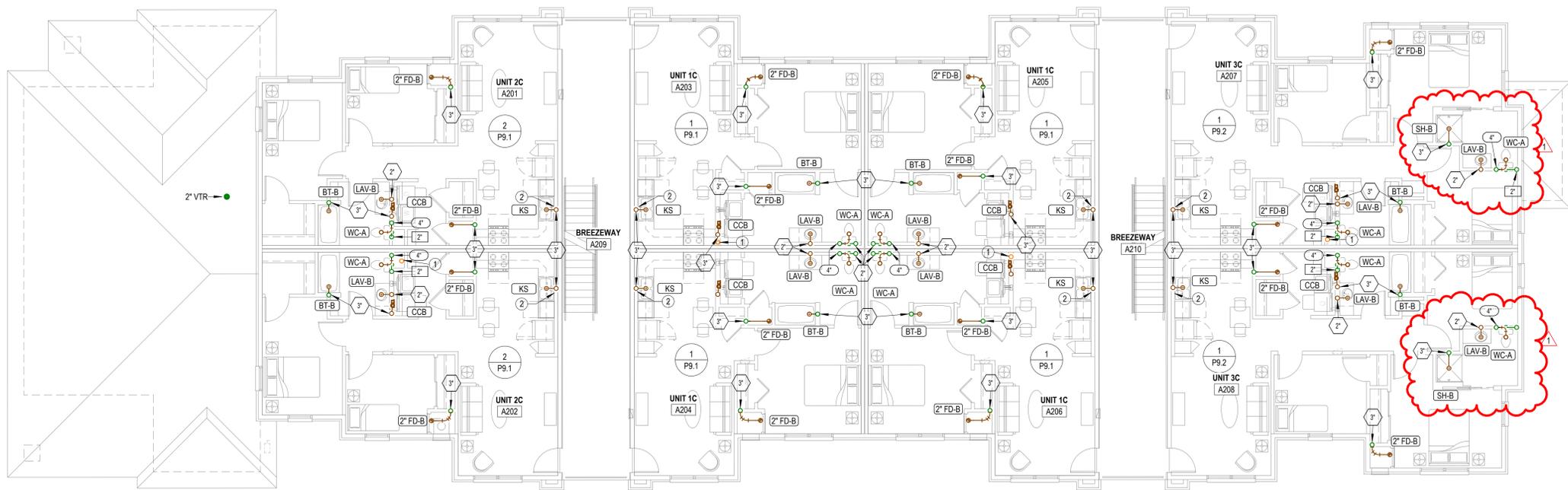
⊗	DRAIN (X = SIZE)
⊗	VENT (X = SIZE)
⊗	WASTE STACK VENT (X = SIZE)

- NOTES BY SYMBOL**
- 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
 - PROVIDE INDIRECT CONNECTION AT GARBAGE DISPOSER AND CONNECT DISHWASHER. ROUTE DRAIN FROM DISHWASHER AT BACK OF CABINETRY. COORDINATE EXACT ROUTING WITH G.C.

- W&V PLAN GENERAL NOTES**
- SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO.
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 - ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER. COORDINATE WITH G.C.



2 BUILDING A-THIRD FLOOR-WASTE AND VENT PLAN
 1/8" = 1'-0"



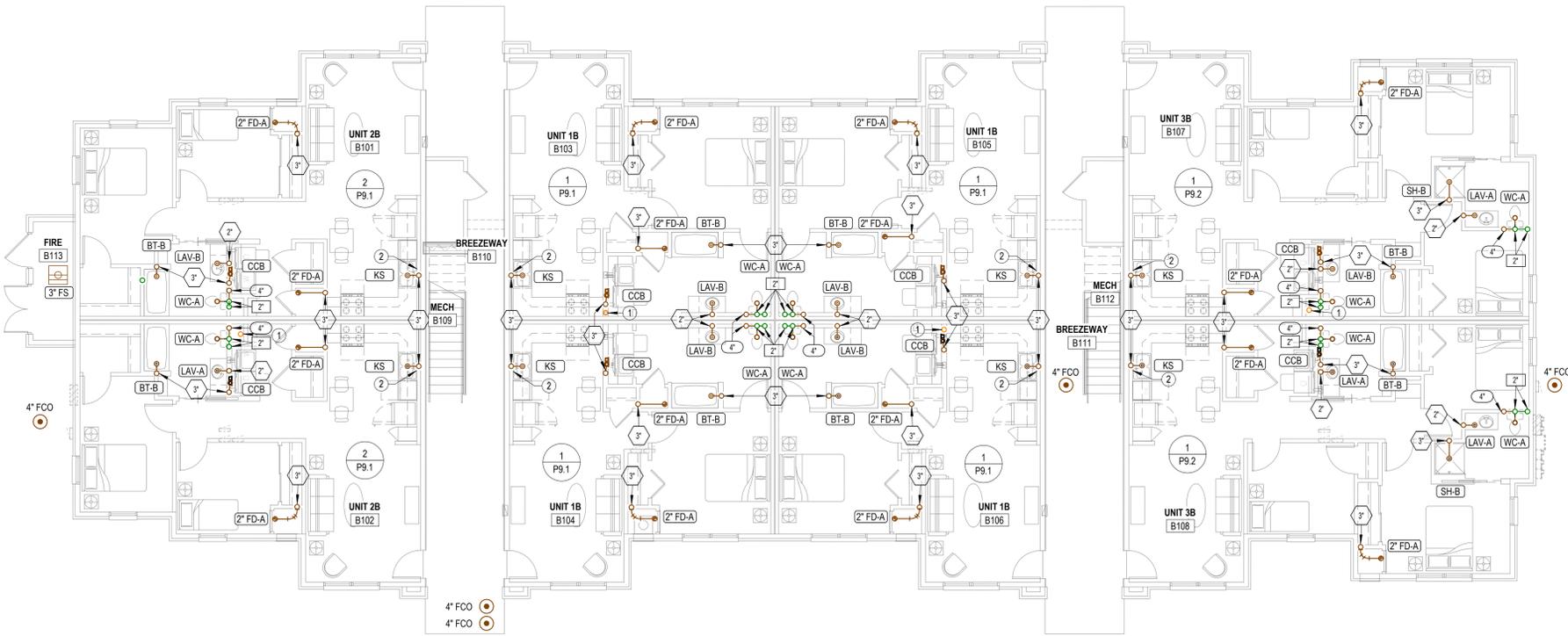
1 BUILDING A-SECOND FLOOR-WASTE AND VENT PLAN
 1/8" = 1'-0"



REVISIONS:

1	10-30-2025	ASI #4
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DATE: 05/09/2025
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W&V PLAN GENERAL NOTES

- SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO.
- SEE WASTE AND VENT ISOMETRICS ON SHEET P9.1 - P9.3 FOR ADDITIONAL INFO.
- PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER. COORDINATE WITH G.C.

LST Consulting Engineers, PA
 MANHATTAN 4809 Vue Du Lac Place, Suite 201
 WICHITA 125 S. Washington, Suite 150
 Manhattan, KS 66503 Wichita, KS 67202
 785.587.8042 316.285.0696
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Project 24072 05/09/2025

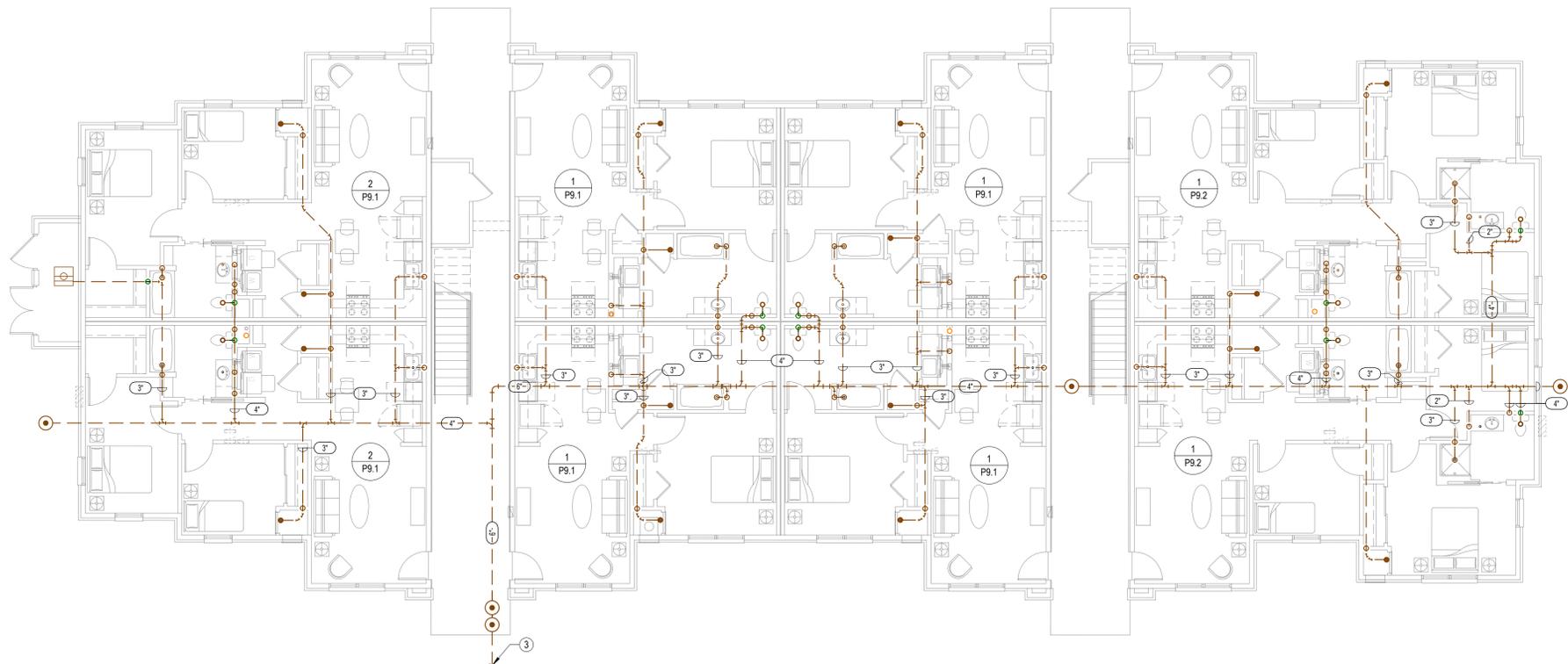
PLUMBING SIZING SYMBOLS

3"	DRAIN (X = SIZE)
4"	VENT (X = SIZE)
6"	WASTE STACK VENT (X = SIZE)

NOTES BY SYMBOL

- 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
- PROVIDE INDIRECT CONNECTION AT GARBAGE DISPOSER AND CONNECT DISHWASHER. ROUTE DRAIN FROM DISHWASHER AT BACK OF CABINETY. COORDINATE EXACT ROUTING WITH G.C.
- SEE ME1.0 FOR CONTINUATION.

2 BUILDING B-FIRST FLOOR-WASTE AND VENT PLAN
 1/8" = 1'-0" BUILDING 'C' SIMILAR



1 BUILDING B-UNDERFLOOR-WASTE AND VENT PLAN
 1/8" = 1'-0" BUILDING 'C' SIMILAR

JGR JonesGillamRenz
 1881 Main Street, Suite 301
 Salina, KS 67401
 785.827.0386
 jgr@jgarchitects.com

THE RESERVES AT COBALT CIRCLE
NEW APARTMENT COMPLEX
TENNESSEE
BROWNVILLE



REVISIONS:

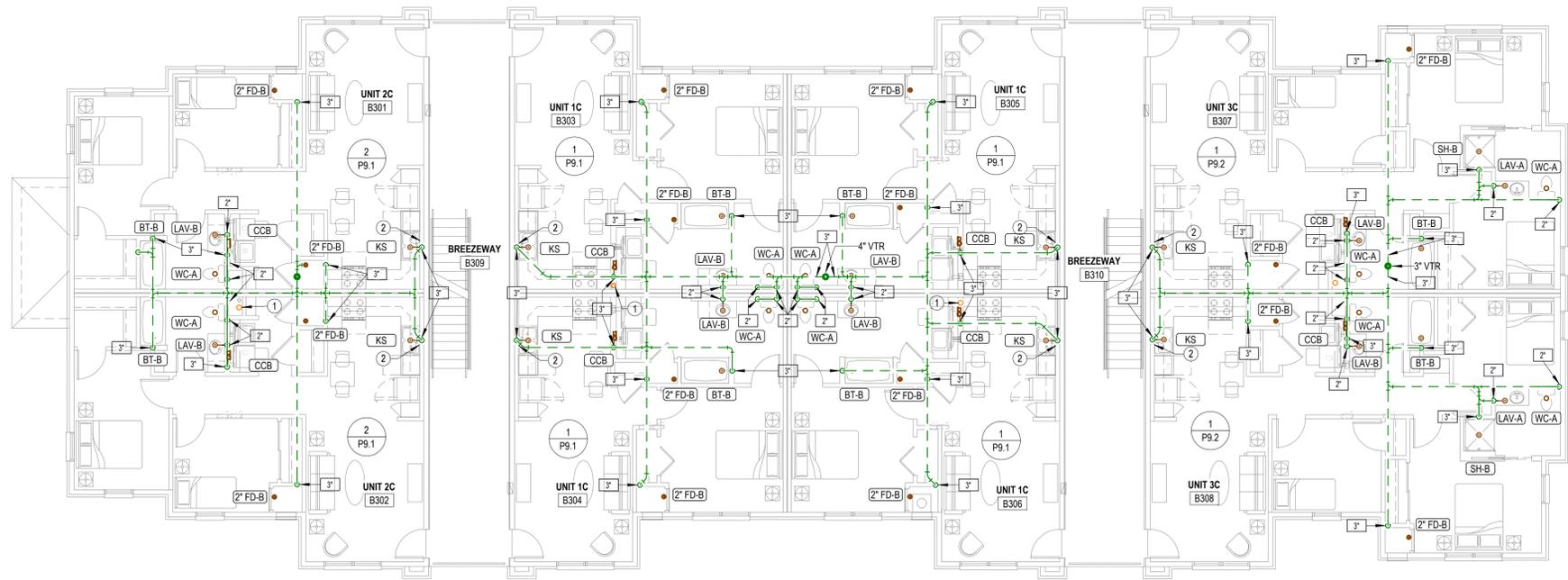
 DATE: 05/09/2025
 JOB: 24-3446
 SHEET NO.:

PLUMBING SIZING SYMBOLS

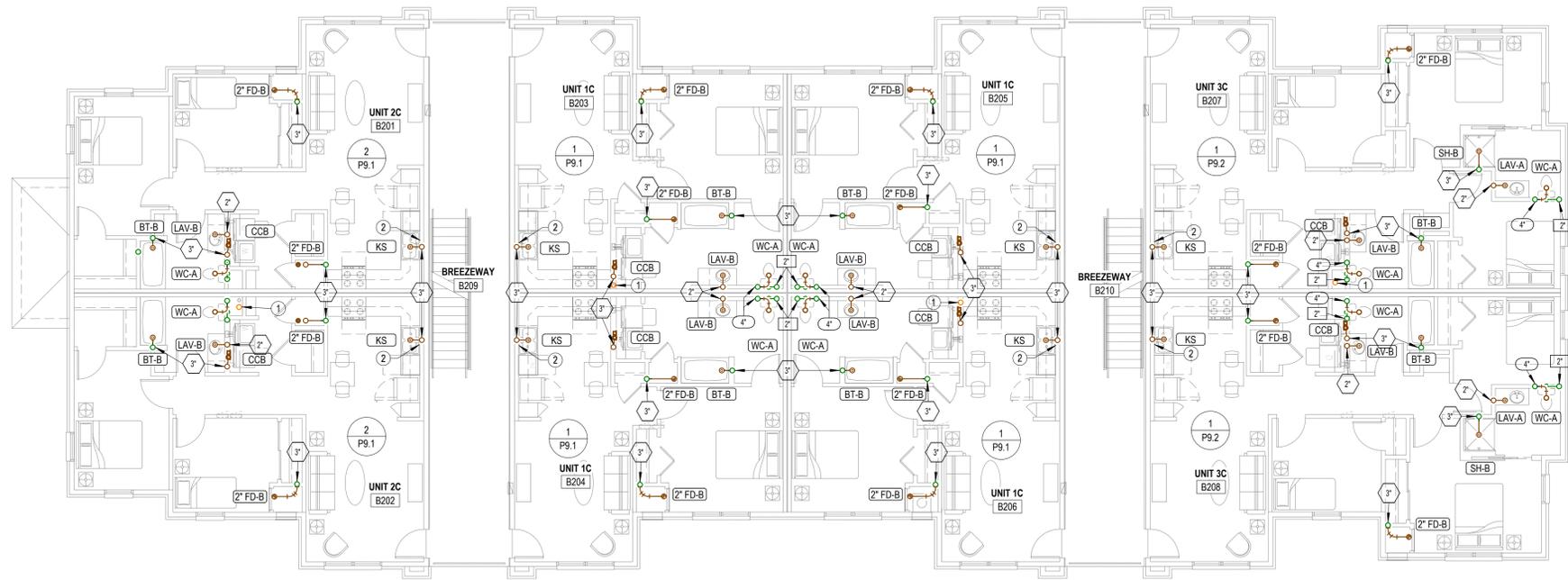
⊗ ^x	DRAIN (X = SIZE)
⊗ ^x	VENT (X = SIZE)
⊗ ^x	WASTE STACK VENT (X = SIZE)

- NOTES BY SYMBOL**
- 1 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
 - 2 PROVIDE INDIRECT CONNECTION AT GARBAGE DISPOSER AND CONNECT DISHWASHER. ROUTE DRAIN FROM DISHWASHER AT BACK OF CABINETRY. COORDINATE EXACT ROUTING WITH G.C.

- W&V PLAN GENERAL NOTES**
1. SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO.
 2. SEE WASTE AND VENT ISOMETRICS ON SHEET P9.1 - P9.3 FOR ADDITIONAL INFO.
 3. PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 4. ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER. COORDINATE WITH G.C.



2 BUILDING B-THIRD FLOOR-WASTE AND VENT PLAN
 1/8" = 1'-0" BUILDING 'C' SIMILAR



1 BUILDING B-SECOND FLOOR-WASTE AND VENT PLAN
 1/8" = 1'-0" BUILDING 'C' SIMILAR



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REVISIONS:

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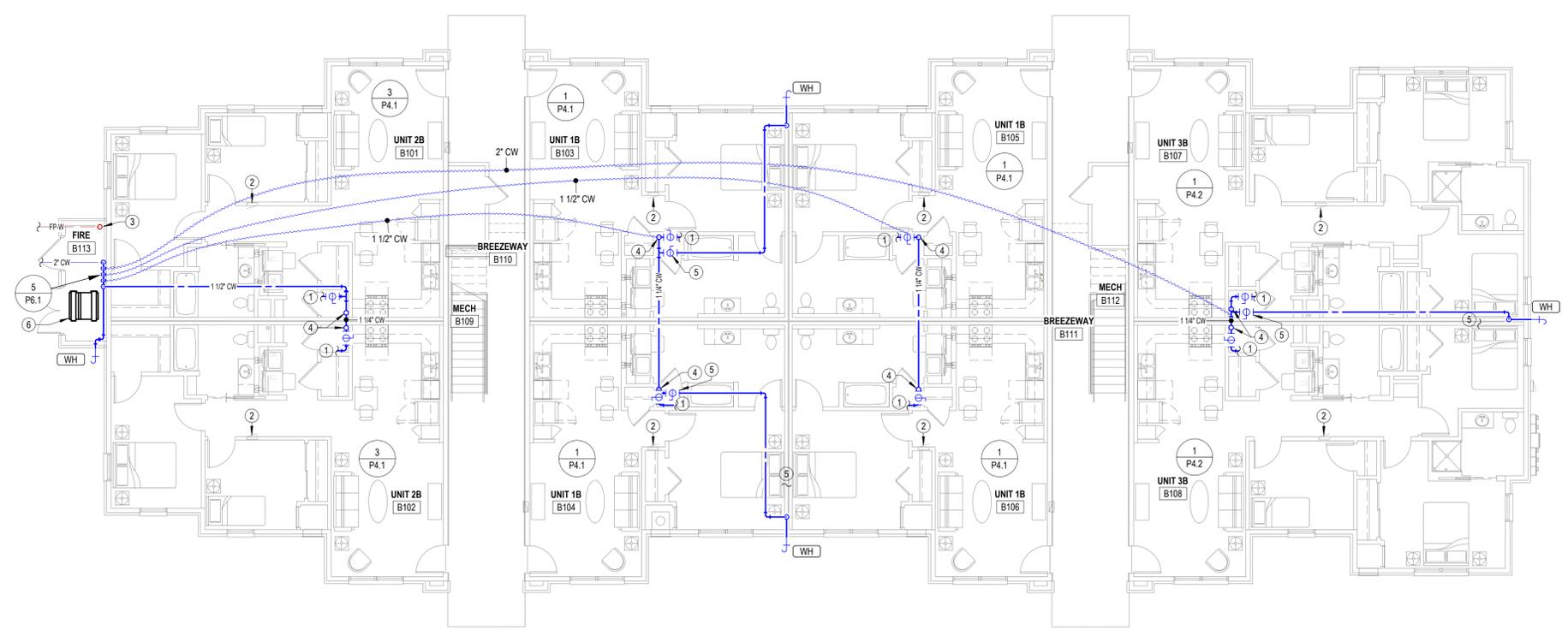
COPPER PIPE SIZE INDICATED	ALTERNATE MATERIAL SIZE	
	Cross-linked polyethylene (PEX)	Polypropylene
1/2"	1/2"	1/2"
3/4"	3/4"	3/4"
1"	1-1/4"	1-1/4"
1-1/4"	1-1/2"	1-1/2"
1-1/2"	2"	2"
2"	2-1/2"	2-1/2"
2-1/2"	3"	3"
3"	3-1/2"	3-1/2"

Note: Pipe sizes indicated on drawings are for Type L copper pipe. If alternate materials are used, sizes shall be as indicated above. Where no pipe size is shown, use of indicated material in design pipe size is prohibited. Do not use materials other than those listed.

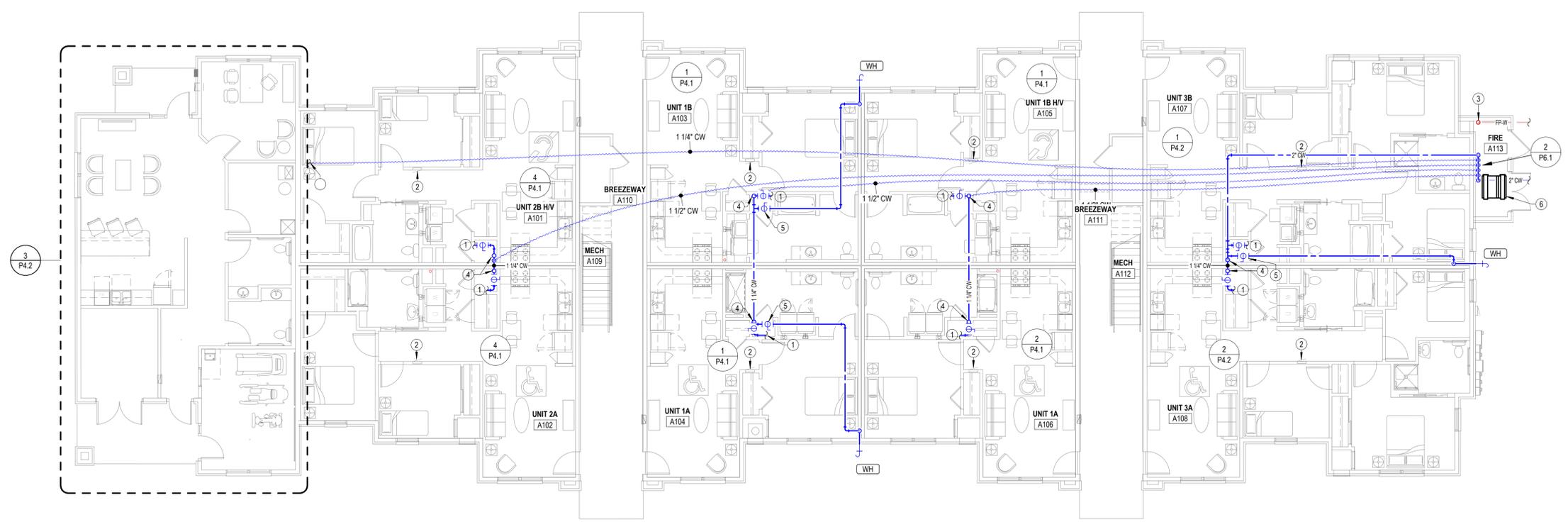
PIPING FOR DWELLING UNITS ON 3RD FLOOR SHALL BE ROUTED BELOW THE FLOOR. DO NOT ROUTE DOMESTIC WATER PIPING IN THE ATTIC.

NOTES BY SYMBOL

- SEE ENLARGED DOMESTIC WATER PLANS FOR CONTINUATION.
- ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN.
- FIRE PROTECTION SERVICE ENTRANCE. INSTALL IN ACCORDANCE WITH NFPA 13. COORDINATE LOCATION OF ALL VALVES AND APPURTENANCES WITH AHJ. SEE 1.P6.1 FOR MORE INFORMATION.
- SEE DOMESTIC PLUMBING RISERS ON P9 SHEETS FOR CONTINUATION.
- CONNECT WALL HYDRANT WITH 3/4" CW BRANCH TO DOMESTIC WATER PIPING AHEAD OF TENANT SHUT-OFF VALVE. PROVIDE SHUT-OFF VALVE ACCESSIBLE IN MECHANICAL CLOSET. REFERENCE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT AND COORDINATE WITH G.C.
- PROVIDE ALTERNATE BID TO PROVIDE AND INSTALL DOMESTIC WATER BOOSTER SYSTEM EQUAL TO QUANTUM FLO PRODIGY DUPLEX CAPABLE OF DELIVERING 70 GPM AT 41 PSI WITH AN INLET PRESSURE OF 16 PSI.



2 BUILDING B-FIRST FLOOR-DOMESTIC WATER PLAN
 1/8" = 1'-0"



1 BUILDING A-FIRST FLOOR-DOMESTIC WATER PLAN
 1/8" = 1'-0"

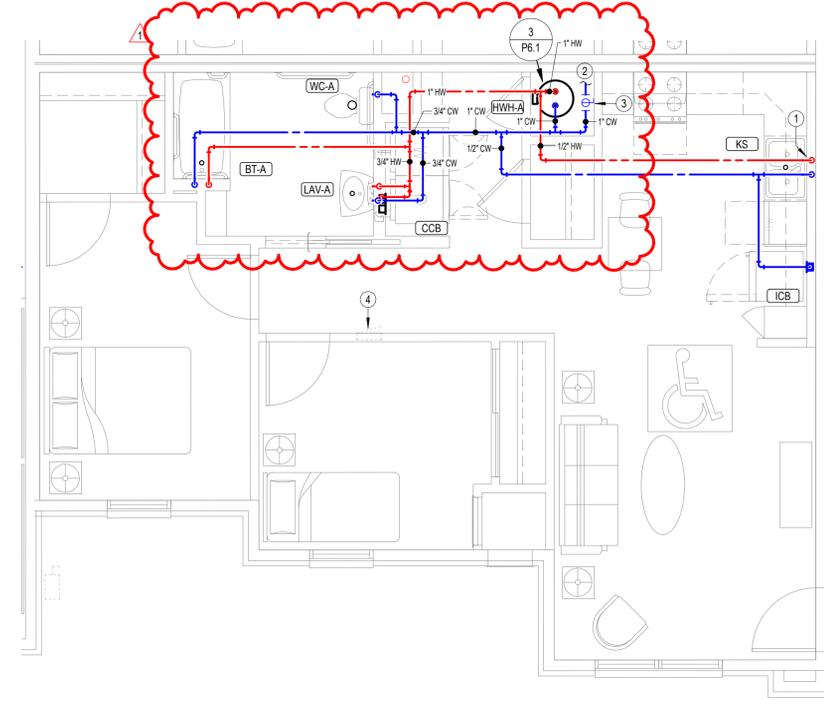
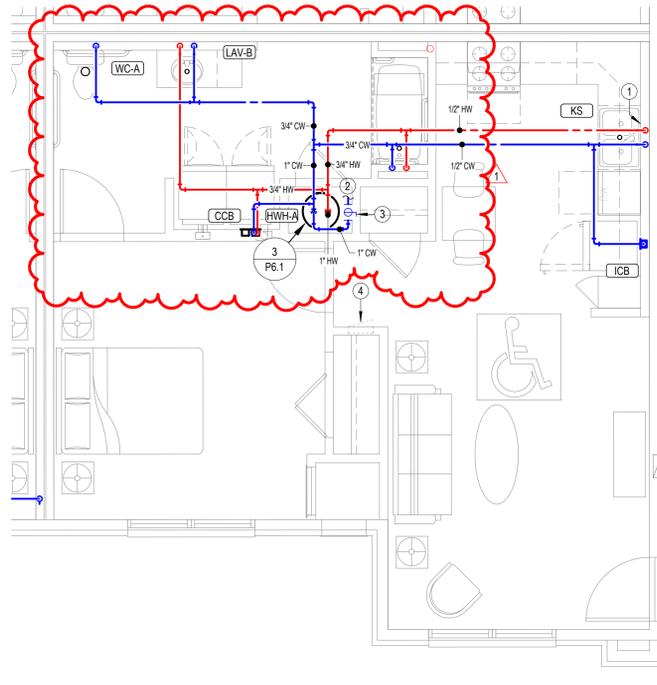
COPPER PIPE SIZE INDICATED	ALTERNATE MATERIAL SIZE	
	Cross-linked polyethylene (PEX)	Polypropylene
1/2"	1/2"	1/2"
3/4"	3/4"	3/4"
1"	1-1/4"	1-1/4"
1-1/4"	1-1/2"	1-1/2"
1-1/2"	2"	2"
2"	2-1/2"	2-1/2"
2-1/2"	3"	3"
3"	3-1/2"	3-1/2"

Note: Pipe sizes indicated on drawings are for Type L copper pipe. If alternate materials are used, sizes shall be as indicated above. Where no pipe size is shown, use of indicated material in design pipe size is prohibited. Do not use materials other than those listed.

PIPING FOR DWELLING UNITS ON 3RD FLOOR SHALL BE ROUTED BELOW THE FLOOR. DO NOT ROUTE DOMESTIC WATER PIPING IN THE ATTIC.

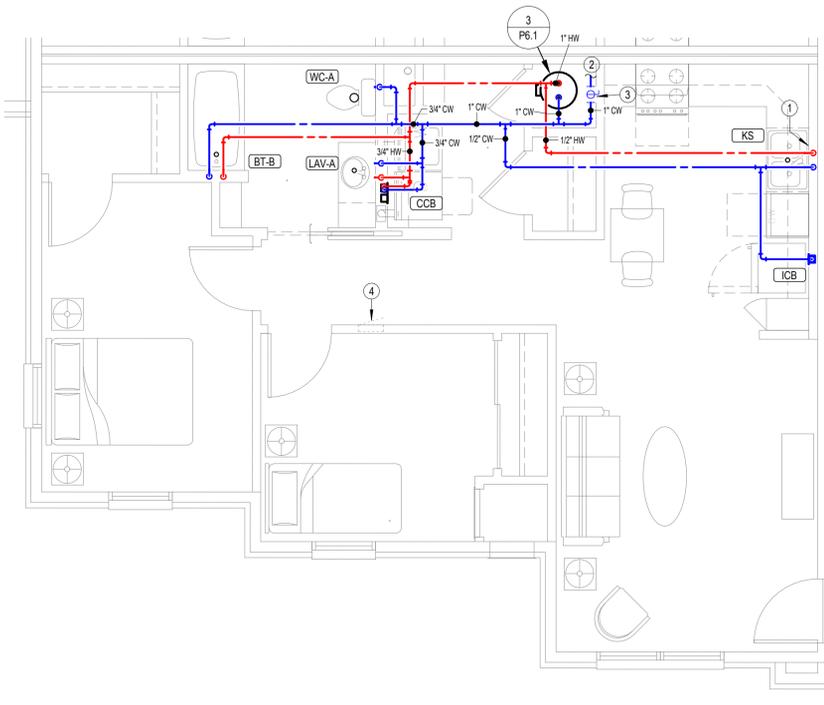
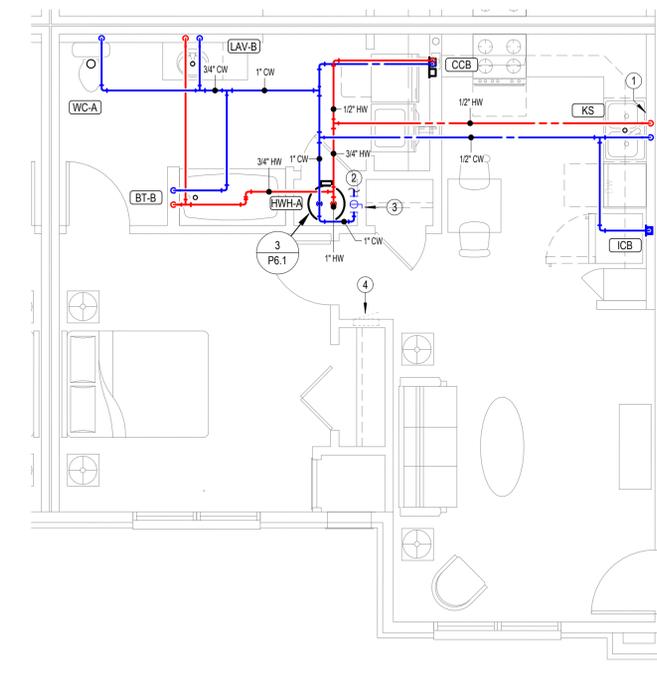
NOTES BY SYMBOL

- 1 PROVIDE 1/2" VALVED BRANCH BELOW SINK AND CONNECT DISHWASHER. ROUTE PIPING ALONG BACK OF CABINETRY, COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED.
- 2 SEE OVERALL DOMESTIC WATER PLANS FOR CONTINUATION.
- 3 PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE. SEE DOMESTIC RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
- 4 ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN.



2 1 BEDROOM ACCESSIBLE ENLARGED DOMESTIC WATER PLAN
 1/4" = 1'-0"

4 2 BEDROOM ACCESSIBLE ENLARGED DOMESTIC WATER PLAN
 1/4" = 1'-0"



1 1 BEDROOM ENLARGED DOMESTIC WATER PLAN
 1/4" = 1'-0"

3 2 BEDROOM ENLARGED DOMESTIC WATER PLAN
 1/4" = 1'-0"

THE RESERVES AT COBALT CIRCLE

NEW APARTMENT COMPLEX

TENNESSEE

BROWNSVILLE



REVISIONS:

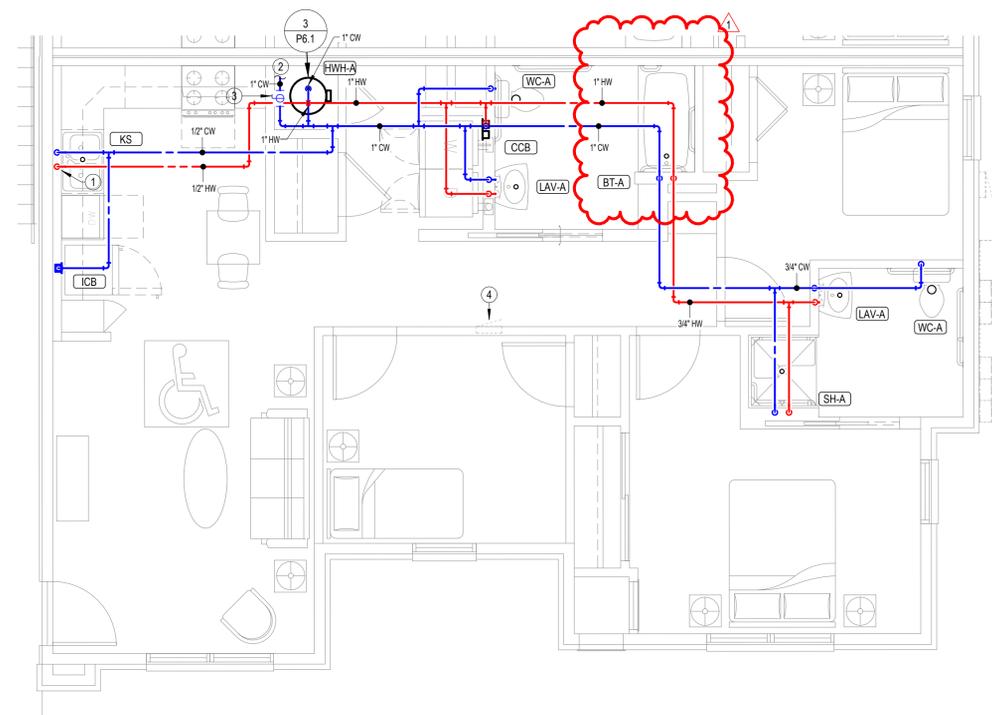
1	10-30-2025	ASI #4
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DATE: 05/09/2025
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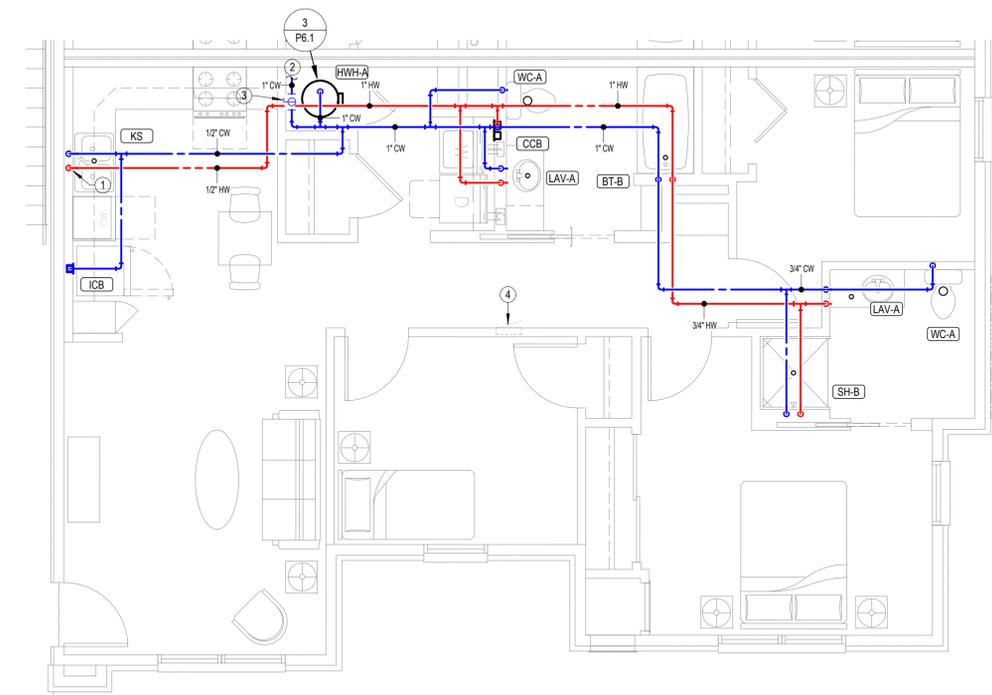
COPPER PIPE SIZE INDICATED	ALTERNATE MATERIAL SIZE	
	Cross-linked polyethylene (PEX)	Polypropylene
1/2"	1/2"	1/2"
3/4"	3/4"	3/4"
1"	1-1/4"	1-1/4"
1-1/4"	1-1/2"	1-1/2"
1-1/2"	2"	2"
2"	2-1/2"	2-1/2"
2-1/2"	3"	3"
3"	3-1/2"	3-1/2"

Note: Pipe sizes indicated on drawings are for Type L copper pipe. If alternate materials are used, sizes shall be as indicated above. Where no pipe size is shown, use of indicated material in design pipe size is prohibited. Do not use materials other than those listed.

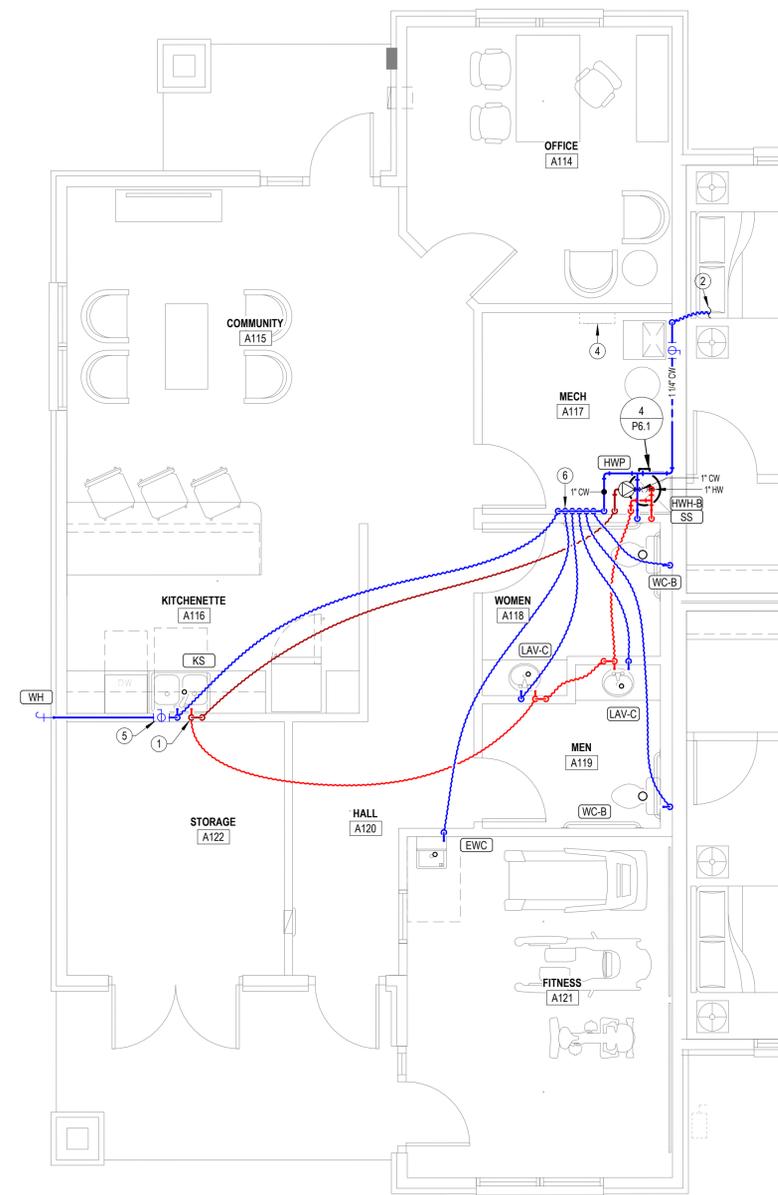
- PIPING FOR DWELLING UNITS ON 3RD FLOOR SHALL BE ROUTED BELOW THE FLOOR. DO NOT ROUTE DOMESTIC WATER PIPING IN THE ATTIC.
- NOTES BY SYMBOL**
- 1 PROVIDE 1/2" VALVED BRANCH BELOW SINK AND CONNECT DISHWASHER. ROUTE PIPING ALONG BACK OF CABINETRY, COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED.
 - 2 SEE OVERALL DOMESTIC WATER PLANS FOR CONTINUATION.
 - 3 PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE. SEE DOMESTIC RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
 - 4 ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN.
 - 5 PROVIDE SHUT-OFF VALVE FOR WALL HYDRANT IN ACCESSIBLE LOCATION BELOW SINK.
 - 6 PROVIDE ALTERNATE BID TO PROVIDE AND INSTALL DOMESTIC WATER BOOSTER SYSTEM EQUAL TO QUANTUM FLO PRODIGY DUPLEX CAPABLE OF DELIVERING 70 GPM AT 41 PSI WITH AN INLET PRESSURE OF 16 PSI.



2 3 BEDROOM ACCESSIBLE ENLARGED DOMESTIC WATER PLAN
 1/4" = 1'-0"



1 3 BEDROOM ENLARGED DOMESTIC WATER PLAN
 1/4" = 1'-0"



3 CLUBHOUSE ENLARGED DOMESTIC WATER PLAN
 1/4" = 1'-0"

THE RESERVES AT COBALT CIRCLE

NEW APARTMENT COMPLEX

TENNESSEE

BROWNSVILLE



REVISIONS:
 1 10-30-2025 ASI #4
 DATE: 05/09/2025
 JOB: 24-3446
 SHEET NO.:

Mark	Manufacturer	Model	Product Specification	Schedule Notes
HWH-A	AO Smith	EETU-40	40 Gallon electric water heater, 0.93 UEF, 4500 watts, 208V heating element, 21 GPH recovery @ 90°F temp rise. Supplied with temperature and pressure relief valve and brass drain valve. Water heater shall have temperature controls set to limit supply temperature to 120°F or less.	
HWH-B	AO Smith	EJCS-20	20 Gallon electric water heater, 2500 watts, 120V heating element, 11 GPH recovery @ 90°F temp rise. Supplied with temperature and pressure relief valve and brass drain valve. Water heater shall have temperature controls set to limit supply temperature to 120°F or less.	1
HWP	Bell & Gossett	NBF-33	Circulation pump, bronze body, 10 gpm @ 10' head, 120 VAC. Provide clamp-on aquastat for pump control.	2

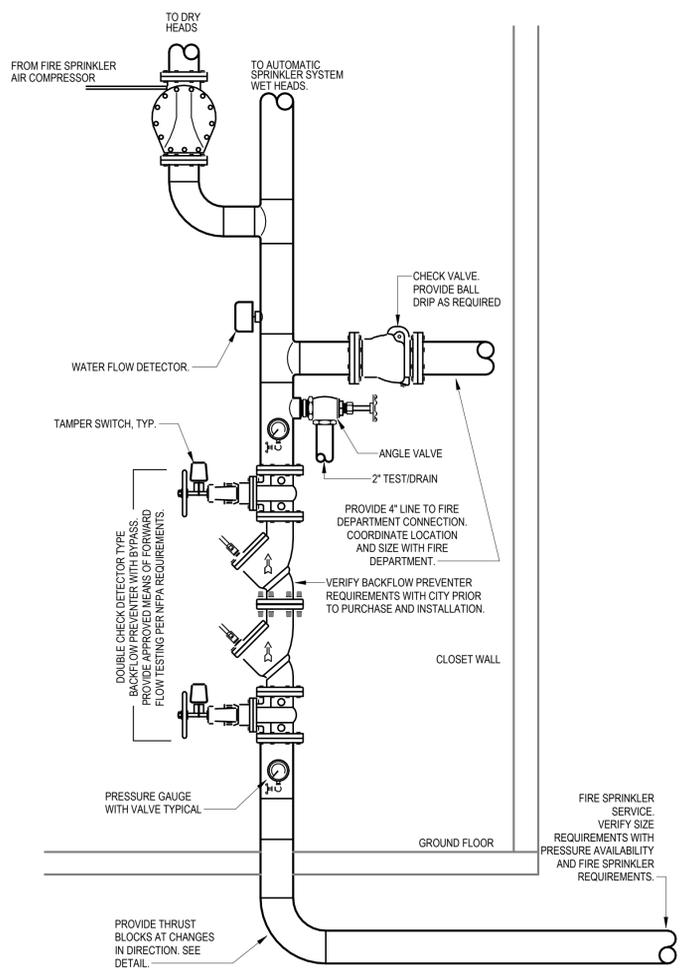
GENERAL:
 • PROVIDE FIXTURES WITH ALL TRIM NECESSARY FOR COMPLETE INSTALLATION.

NOTES:
 1. PROVIDE WALL HUNG PLATFORM FOR WATER HEATER EQUAL TO HOLDRITE #60SHP-W. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT.
 2. PUMP SHALL HAVE CONTROLS TO PREVENT STARTUP WITHIN 5 MINUTES FROM THE END OF PREVIOUS HEATING CYCLE. HOT WATER RECIRCULATION SYSTEM SHALL MEET ALL REQUIREMENTS OF 2021 IECC.

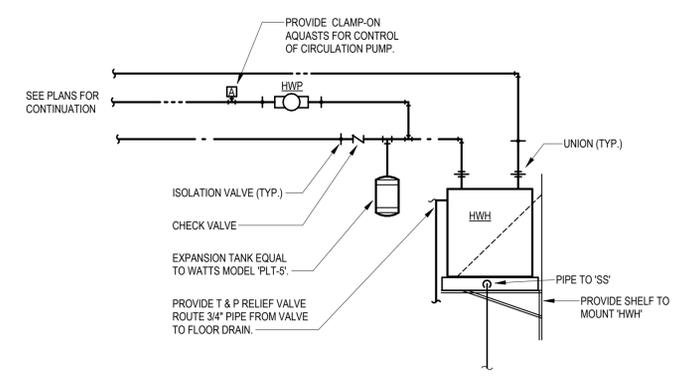
MARK	MANUFACTURER	MODEL	PRODUCT DESCRIPTION	TRIM	ROUGH-IN SIZES			COLD	HOT	ADA COMPLIANT	NOTES
					DRAIN	VENT	WATER				
BT-A	AQUARIUS	S 6000 TS OT	Reinforced fiberglass tub/shower, 60"W x 33"D x 82"H, with integral soap/toiletry shelves, and grab bars, fold up seat at end of tub, and right or left hand rough-in as required, white finish.	Delta Model R10000-UNWS/T13H252 single handle pressure-balancing valve with metal tub filler with pull diverter, 1.5 GPM handshower with double check valves, flexible hose, 24" stainless steel slide bar and pop-up drain with overflow.	2"	1 1/2"	1/2"	Yes	Yes	Yes	1
BT-B	AQUARIUS	G 6063 TS	Reinforced fiberglass tub/shower, 60"W x 35-3/4" x 76-1/2"H, with integral soap/toiletry shelves, right or left hand rough-in as required, white finish.	Delta Model R10000-UNWS/T13H232 single handle pressure-balancing valve with metal tub filler with pull diverter, 1.5 GPM push-clean showerhead and pop-up drain with overflow.	2"	1 1/2"	1/2"	Yes	Yes	No	
CCB	SIOUX CHIEF	696-2313	Washing machine box with 2" PVC/ABS drain coupling and knockout test cap. Two, 1/4" turn adaptor ball valves, and sweat connection.		2"	1 1/2"	1/2"	Yes	Yes		
EWC	ELKAY	EMABFLDDWSLK	Dual height, self-contained water cooler with stainless steel basin, front and side push bar actuator, lead-free, 120V. Provide with EZH2O bottle filling station, and model 98313C accessory apron.		2"	1 1/2"	1/2"	Yes	No	Yes	1
FD-A	SIOUX CHIEF	833	Adjustable floor drain with nickel bronze strainer. Provide Proset Trappguard protection device.		2"	2"					
FD-B	SIOUX CHIEF	822	Adjustable floor drain with deck flange and nickel bronze strainer. Provide Proset Trappguard protection device.		2"	2"					
FS	SIOUX CHIEF	861	12" Square, 8" deep, PVC floor sink with PVC strainer. Provide Proset Trappguard protection device.		3"	2"					
ICB	SIOUX CHIEF	696-G1010	Ice maker connection box with 1/4" turn ball valve, and 1/2" sweat copper connection.		0"	0"	1/2"	Yes	No		
KS	JUST	DLADA2233A-J	Two compartment 20 GA stainless steel sink, self rimming, 14"x10"x8"D inside, fully undercoated, faucet holes as required. Single handle kitchen sink faucet with hose spray, and basket strainer. IN-SINKERATOR "Badger 5" garbage disposal, 1/2hp 120V cord and plug connected.	Kohler / K10412	2"	1 1/2"	1/2"	Yes	Yes	Yes	2,4
LAV-A	AMERICAN STANDARD	0355.012	20"W x 17" Wall hung, vitreous china lavatory. Single handled 0.5 GPM faucet. Provide with pop-drain, and front overflow drain.	Delta / Z2C151	2"	1 1/2"	1/2"	Yes	Yes	Yes	1,2,3
LAV-B	AMERICAN STANDARD	0476.028	20"x17" Self-Rimming lavatory. Faucet holes on 4" centers. Single handled 0.5 GPM faucet. Provide with pop-drain, and front overflow drain.	Delta / Z2C151	2"	1 1/2"	1/2"	Yes	Yes	Yes	1,2,3
LAV-C	AMERICAN STANDARD	0476.028	20"x17" Self-Rimming lavatory. Faucet holes on 4" centers. Single handled 0.5 GPM faucet. Provide with grid drain, front overflow drain.	Delta / Z2C151	2"	1 1/2"	1/2"	Yes	Yes	Yes	1,2,3
SH-A	AQUA BATH CO.	C4136BF-OF-FUS 34"	Center drain option, reinforced fiberglass ADA base model shower, 36"Wx36"Dx80"H with integral soap/toiletry shelves in accordance with ADA requirements, fold-up seat, right or left hand rough-in as required, white finish, provide with collapsible dam.	Delta Model R10000-UNWS/T13H152 single handle pressure-balancing valve, 1.5 GPM handshower with double check valves, flexible hose, 24" stainless steel slide bar.	2"	1 1/2"	1/2"	Yes	Yes	Yes	1
SH-B	AQUATIC	13636FHARRF	Cast acrylic shower, 36" square inside, rear molded soap shelf, provide with FHA backing.	Delta Model R10000-UNWS/T13H132 single handle pressure-balancing valve, 1.5 GPM push-clean showerhead.	2"	1 1/2"	1/2"	Yes	Yes	No	
SH-C	AQUARIUS	G-6233-BF-75	Reinforced fiberglass ADA roll-in shower, 60"W x 33"D x 73-3/4"H, with integral soap/toiletry shelves and grab bars in accordance with ADA requirements, fold-up seat, collapsible water dam, white finish.	Delta Model R10700-UNWS/T13H333 single handle pressure-balancing valve, 1.5 GPM handshower with double check valves, flexible hose, 24" stainless steel slide bar and 1.5 GPM push clean showerhead, arm and diverter valve.	2"	1 1/2"	1/2"	Yes	Yes	Yes	1
SS	FIAT	MSB-2424	One piece molded stone mop basin, 24" square, stainless steel integral drain body with caulk connection, stainless steel wall guards. Faucet with hose thread outlet, vacuum breaker, pail hook wall brace, and metal lever handles.	Chicago Faucets / 897-CP	3"	1 1/2"	3/4"	Yes	Yes	No	
WC-A	KOHLER	5296	Two piece, 12" rough-in, elongated 16-1/2" high bowl, siphon jet flushing action, actuator located on open side of room. Elongated closed front seat and cover. Provide with 1/4" brass ball valve at wall connection.	Kohler / K-5588	4"	2"	1/2"	Yes	No	Yes	1
WC-B	KOHLER	5296	Two piece, 12" rough-in, elongated 16-1/2" high bowl, siphon jet flushing action, actuator located on open side of room. Elongated open front seat. Provide with 1/4" brass ball valve at wall connection.	Kohler / K-5588	4"	2"	1/2"	Yes	No	Yes	1
WH	WOODFORD	B67	Automatic draining freezeless wall hydrant with ASSE 1052 double check backflow preventer, loose tee key handle, with recessed box with door. Provide with chrome plated exterior finish.				3/4"	Yes	No	No	

GENERAL:
 • PROVIDE FIXTURES WITH ALL TRIM NECESSARY FOR COMPLETE INSTALLATION.
 • ALL BT-B AND SH-B ON FIRST FLOOR TO HAVE BLOCKING FOR FUTURE GRAB BARS. REFERENCE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

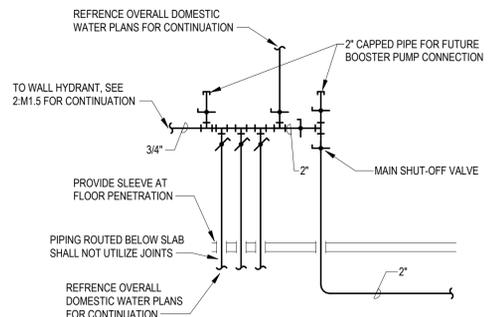
NOTES:
 1. IN AREAS OPEN TO PUBLIC, FIXTURE AND INSTALLATION TO MEET REQUIREMENTS OF AMERICANS WITH DISABILITIES ACT. IN APARTMENTS, FIXTURE AND INSTALLATION TO MEET REQUIREMENTS OF THE FAIRHOUSING ACT.
 2. PROVIDE DEARBORN SUPPLIES WITH STOPS AND ESCUTCHEON PLATE, 1-1/4" CAST BRASS P-TRAP.
 3. INSULATE WATER AND WASTE PIPING BELOW FIXTURE. UTILIZE INSULATION KIT EQUIVALENT TO LAVGUARD BY TRUEBRO. PROVIDE PLUMBEREX MODEL #3071WD-N WASTE DISPOSAL COVER.
 4. TRIM SHALL BE PROVIDED WITH POLISHED CHROME FINISH.



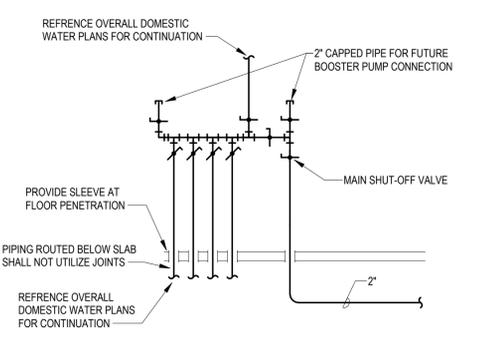
1 FIRE PROTECTION RISER DIAGRAM
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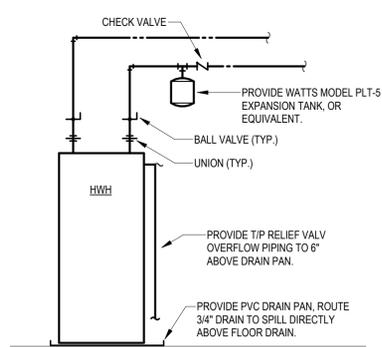
4 WATER HEATER ON SHELF PIPING DIAGRAM
 NO SCALE



5 BUILDING B - DOMESTIC WATER RISER DIAGRAM
 NO SCALE



2 BUILDING A - DOMESTIC WATER RISER DIAGRAM
 NO SCALE



3 APARTMENT WATER HEATER DIAGRAM
 NO SCALE



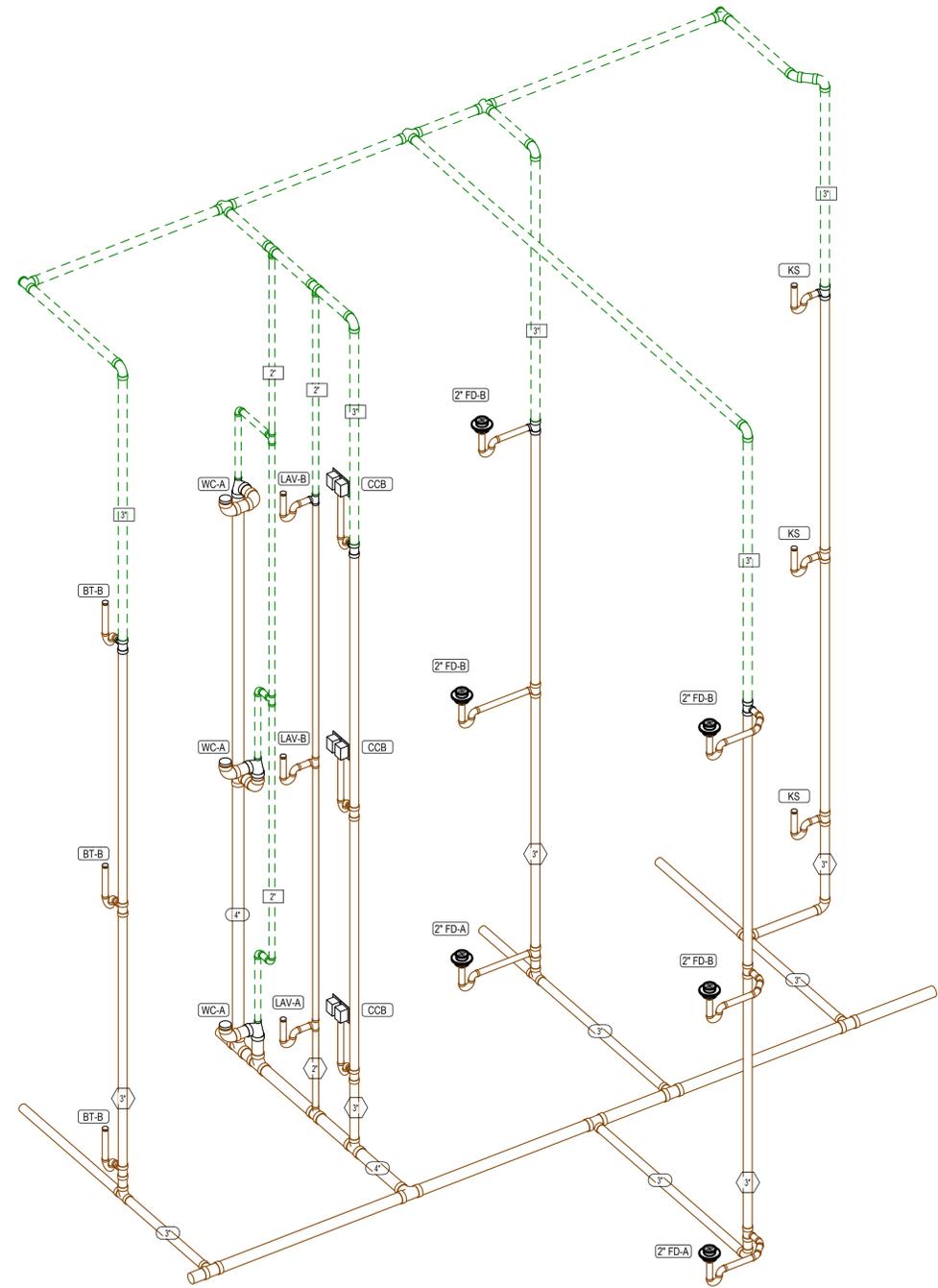
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NO.	DATE	DESCRIPTION

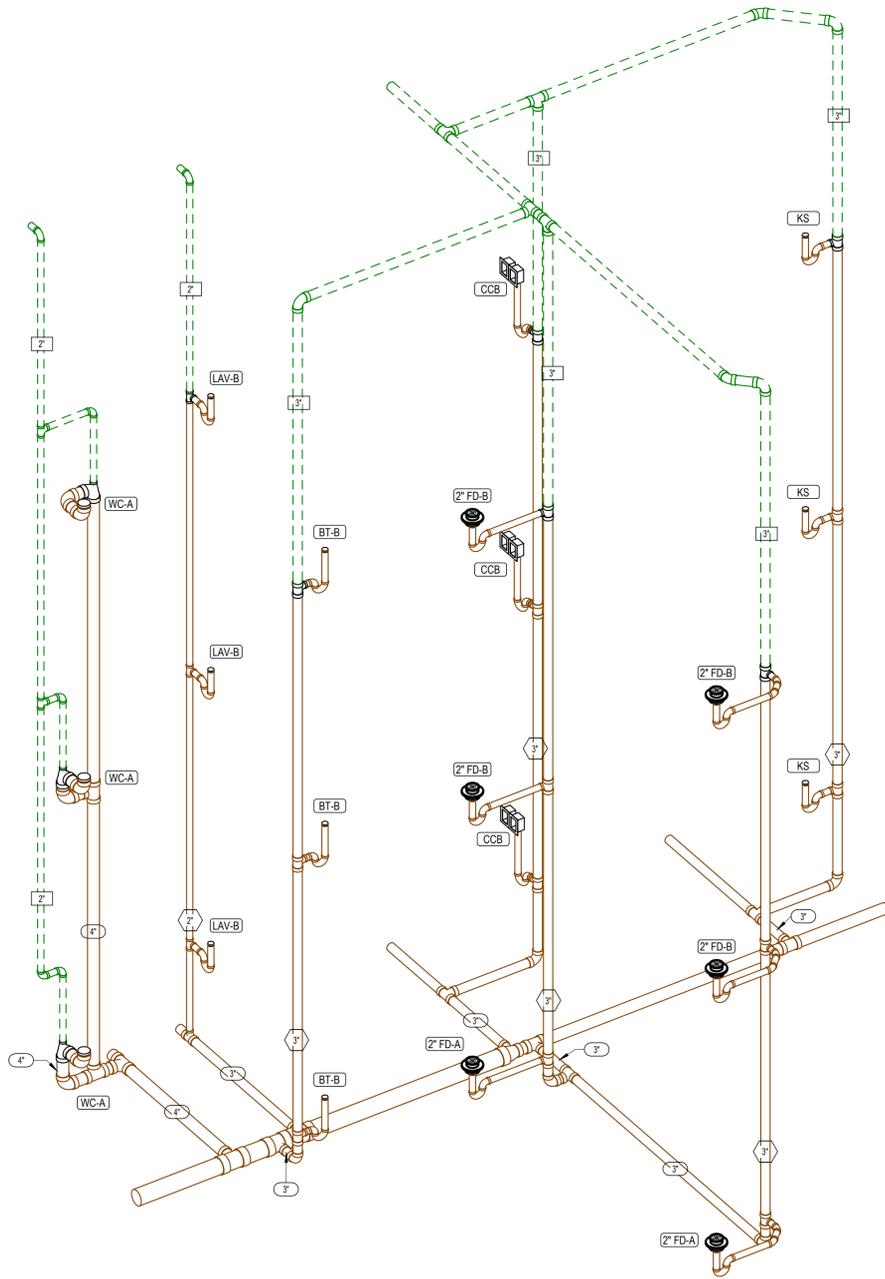
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 JOB: 24-3446
 SHEET NO.:

PLUMBING SIZING SYMBOLS

⊗	DRAIN (X = SIZE)
⊙	VENT (X = SIZE)
⊗	WASTE STACK VENT (X = SIZE)



2 TYPICAL 2 BEDROOM WASTE AND VENT RISER



1 TYPICAL 1 BEDROOM WASTE AND VENT RISER

THE RESERVES AT COBALT CIRCLE

NEW APARTMENT COMPLEX

TENNESSEE

BROWNSVILLE



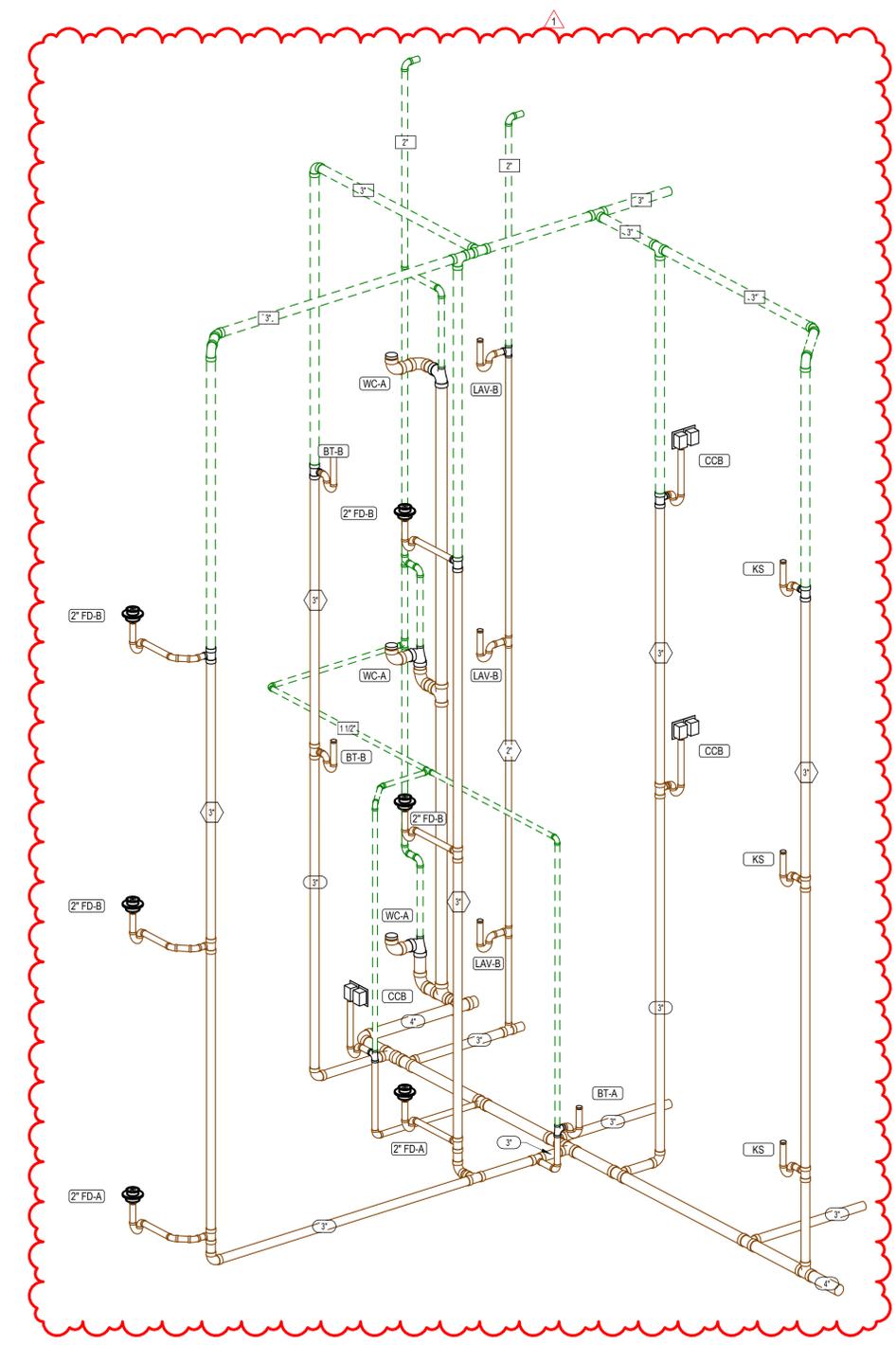
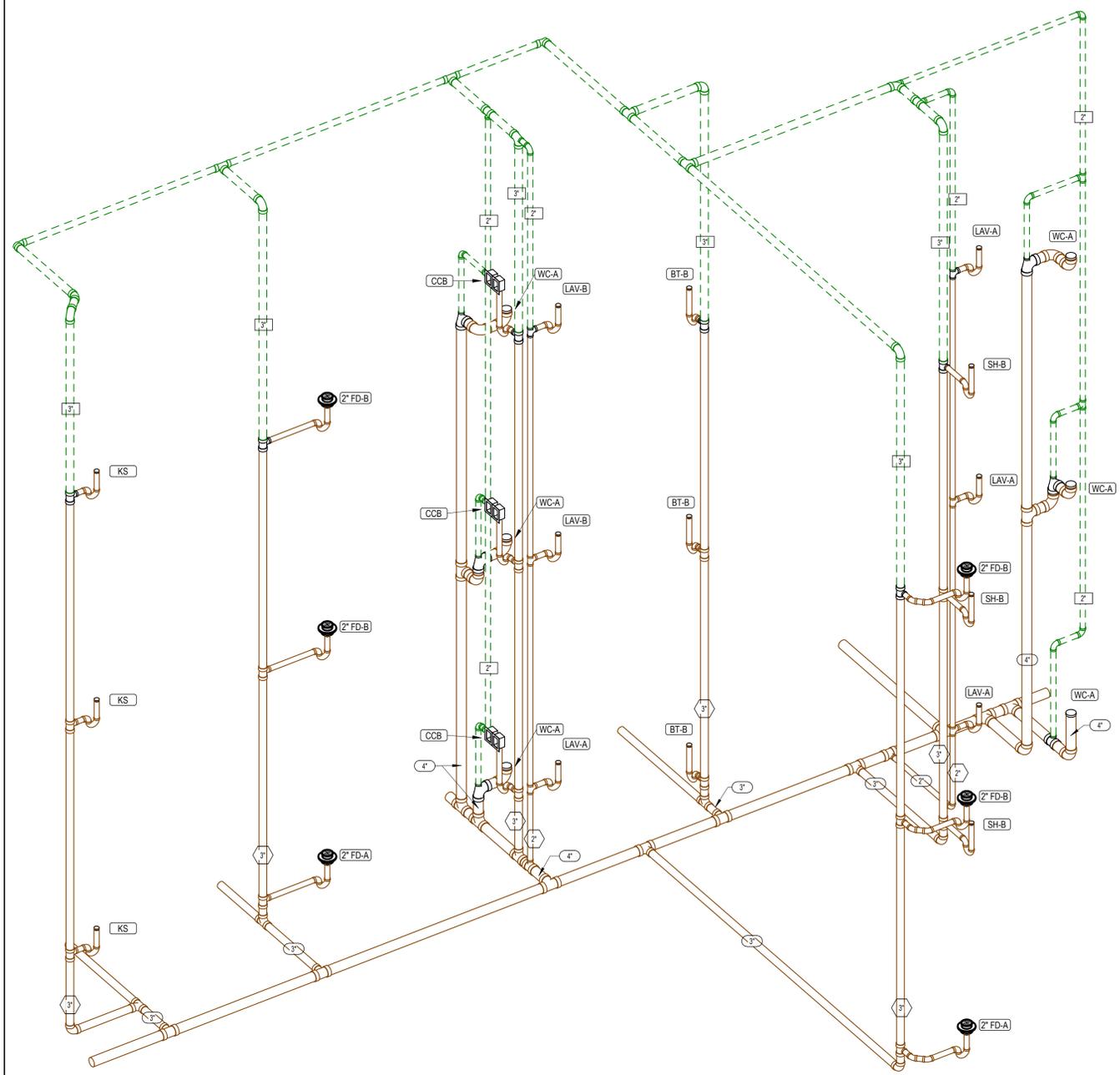
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PLUMBING SIZING SYMBOLS	
(X")	DRAIN (X = SIZE)
(X")	VENT (X = SIZE)
(X")	WASTE STACK VENT (X = SIZE)



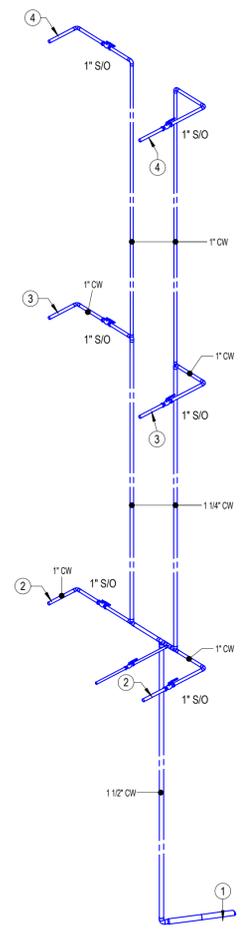
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1	10-30-2025 ASI #4
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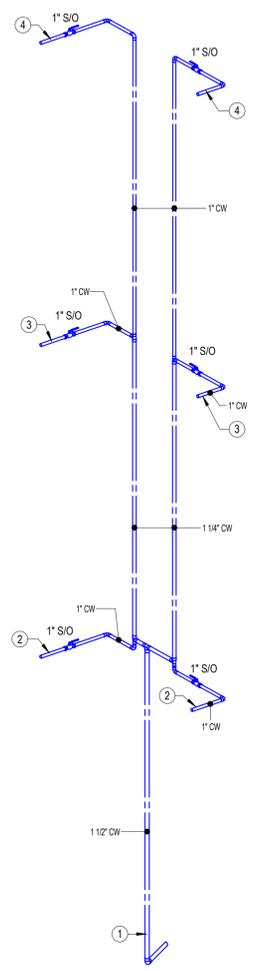
1 TYPICAL 3 BEDROOM WASTE AND VENT RISER

2 TYPICAL 1 BEDROOM ACCESSIBLE WASTE AND VENT RISER

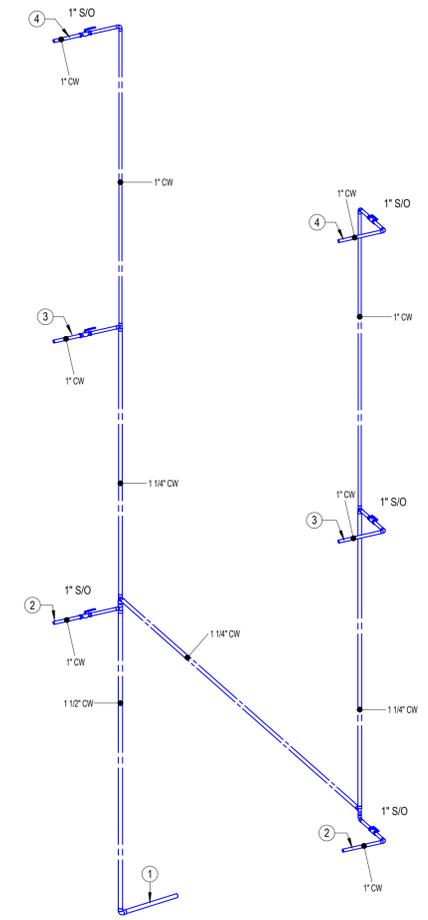
NOTES BY SYMBOL	
1	SEE OVERALL PLANS FOR SIZE AND ROUTING OF PLUMBING MAINS.
2	DOMESTIC SERVICE TO 1ST FLOOR DWELLING UNIT. SEE P4.1 FOR CONTINUATION.
3	DOMESTIC SERVICE TO 2ND FLOOR DWELLING UNIT. SEE P4.1 FOR CONTINUATION.
4	DOMESTIC SERVICE TO 3RD FLOOR DWELLING UNIT. SEE P4.1 FOR CONTINUATION.



3 TYPICAL 3 BEDROOM DOMESTIC WATER SERVICE RISER



2 TYPICAL 2 BEDROOM DOMESTIC WATER SERVICE RISER



1 TYPICAL 1 BEDROOM DOMESTIC WATER SERVICE RISER

THE RESERVES AT COBALT CIRCLE
 NEW APARTMENT COMPLEX
 BROWNsville
 TENNESSEE



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