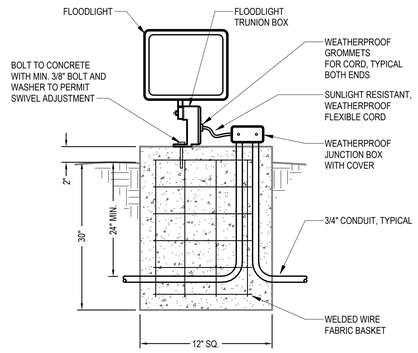
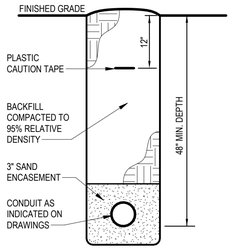
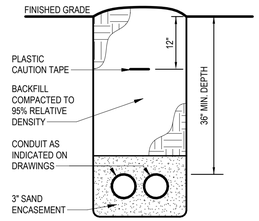


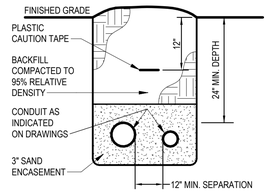

## 3 GROUND LIGHT DETAIL
12" = 1'-0"



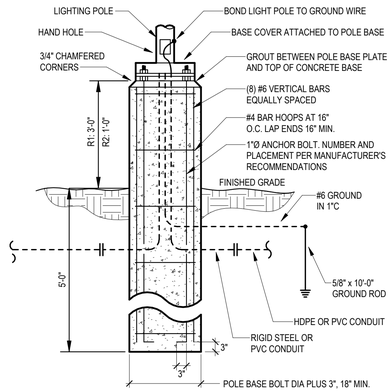

## 4 PRIMARY CONDUIT SECTION
NO SCALE



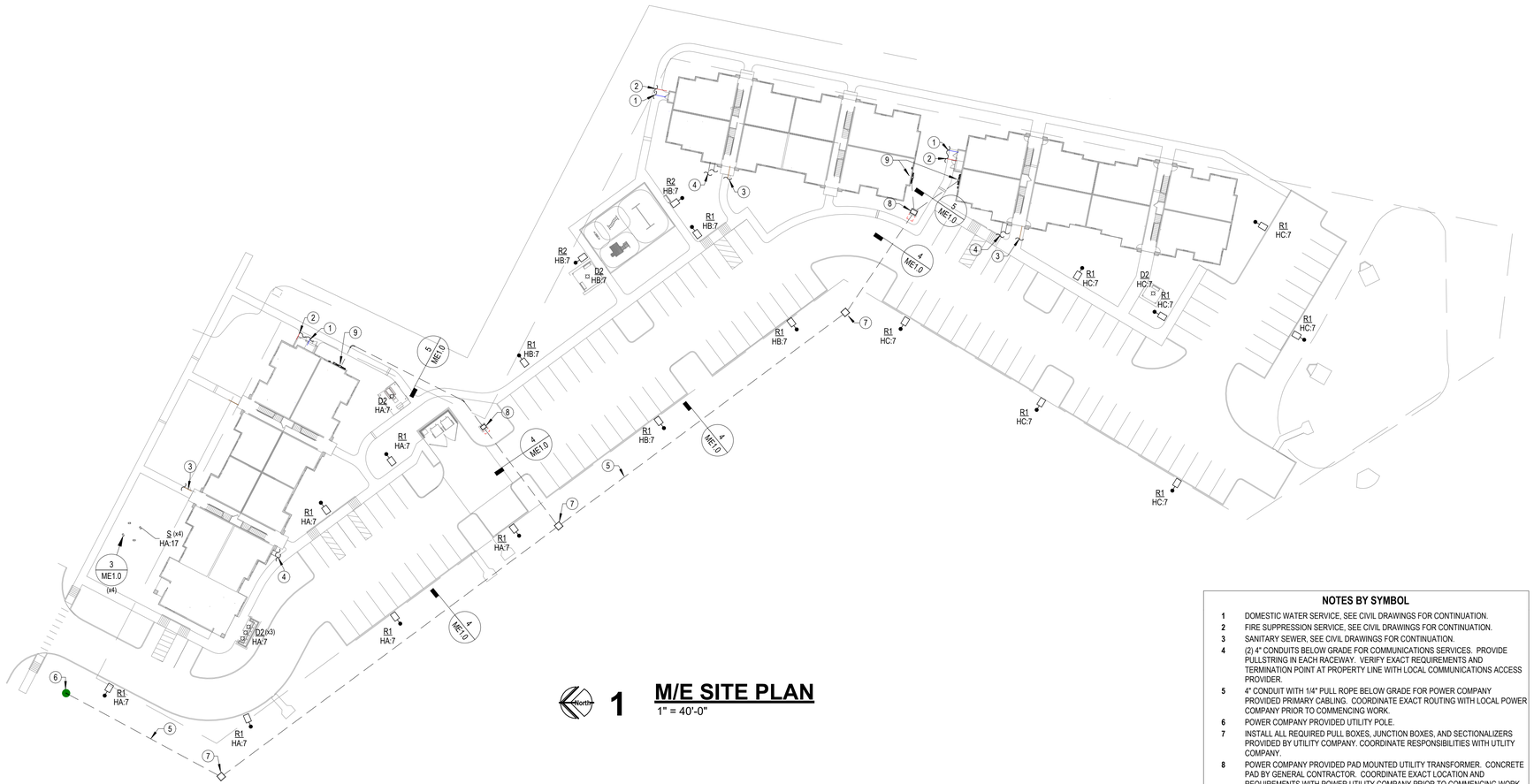

## 5 SERVICE LATERAL CONDUIT SECTION
NO SCALE




## 6 TELECOMM CONDUIT SECTION
NO SCALE




## 2 LIGHT POLE BASE DETAIL
NO SCALE




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

### NOTES BY SYMBOL

| | |
|---|---|
| 1 | DOMESTIC WATER SERVICE, SEE CIVIL DRAWINGS FOR CONTINUATION. |
| 2 | FIRE SUPPRESSION SERVICE, SEE CIVIL DRAWINGS FOR CONTINUATION. |
| 3 | SANITARY SEWER, SEE CIVIL DRAWINGS FOR CONTINUATION. |
| 4 | (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. |
| 5 | 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. |
| 6 | POWER COMPANY PROVIDED UTILITY POLE. |
| 7 | INSTALL ALL REQUIRED PULL BOXES, JUNCTION BOXES, AND SECTIONALIZERS PROVIDED BY UTILITY COMPANY. COORDINATE RESPONSIBILITIES WITH UTLITY COMPANY. |
| 8 | 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. |
| 9 | ELECTRIC SERVICE EQUIPMENT, SEE RISER DIAGRAM ON SHEET E6.2. |

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Project 24072 05/09/2025

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NEW APARTMENT COMPLEX
BROWNSVILLE
TENNESSEE

JOHN FREDERICK LEMLEY
REGISTERED ENGINEER
No. 125203
STATE OF TENNESSEE
1-20-2026

REVISIONS:

| | | |
|---|---|---|
| 1 | 10-29-2025 | ASI #3 |
| 2 | 12-3-2025 | ASI #5 |

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

ME1.0

## Electrical Abbreviations

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

## Electrical Symbol Legend

### Lighting Symbols

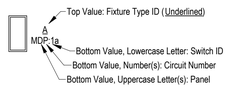
- Lighting Fixtures, Typical, Rectangular (Various Symbols)
- Lighting Fixtures, Typical, Round (Various Symbols)
  Center dot indicates pendant.
  Chevron indicates wall wash.
- Wall-mounted fixtures, Typical (Various Symbols)
- Strip Fixture
- Directional Light, Track Light, Flood Light
- Linear Light, 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
- $2 Two-Pole Switch
- $3 Three-Pole Switch

Switch Modifiers:

| | |
|---|---|
| 3: 3-Way | OS: Occupancy Sensor |
| 4: 4-Way | VS: Vacancy Sensor |
| K: Keyed | CT: Above-Counter |
| D: Dimming | LV: Low-Voltage |
| T: Timer | M: Motor-Rated |

- LC Lighting Contactor
- Lighting Control Panel
- OS Occupancy Sensor
- DL Daylight Harvesting Sensor

### Lighting Tags




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
- Quadruplex Receptacle
- 6-30 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
- Multioutlet Assembly
  Filled squares indicate 120V outlet
  Open squares indicate with USB
- Cord Reel, Device Varies
- Drop Cord, Device Varies
- J Junction Box
- F1 Floor Box, see schedule for type
- Emergency Power Off
- DO Door Opener Push Plate
- M Power Meter
- Safety Switch, Fused
- Safety Switch, Unfused
- Motor Starter
- Combination Starter/Disconnect
- Contactor

### Power Device and Equipment Tags

LP1A:1 Electrical DeviceTags: Uppercase letter(s) indicates Panel ID and circuit number. Lowercase letter indicates designation of controlling switch (where applicable).

XX-1 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.

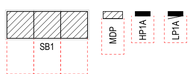
### Wiring

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, installtion, 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. Homeruns 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 circuited to panel designated "A," circuit number 1.

T1 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

- P Manual Pull Station
- Horn, Wall
- F 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 Indicate w/ Test Switch, Ceiling
- Smoke Detector
- Smoke Detector Fire Alarm System
- Heat Detector
- CO Carbon Monoxide Detector
- T Beam Detector T: Transmitter R: Receiver
- CO Combination Detector (Up to Three)
- Duct Smoke Detector
- Smoke Damper
- DH Door Holder
- DCL Door Closer
- Fire Service Phone
- XXX Addressible Module
  AIM: Addressible Input Module
  AOM:Addressible Output Control Module
  AIO: Addressible Input/Output Module
- XXXX Fire Alarm Control Unit
  EVAC: Voice Evacuation Control Panel
  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
- XX Supervisory or Interface Device
  PIV: Post Indicator Valve Supervisory
  PS: Pressure Switch
  R: Non-Addressible Relay
  VS: Valve Supervisory Switch
  WF: Water Flow Switch

### Security Symbols

- Security Camera
  PTZ: Pan/Tilt/Zoom
- CR Card Reader
- CK Card Reader with Keypad
- CC TV Closed Circuit TV Outlet
- DC Door Contact
- ES Electric Strike
- IC Intercom
- ML Magnetic Lock
- RX Request to Exit Button
- REX Request to Exit Sensor
- MD Motion Detector
- XXX Security Control Unit
  SCP: Security Control Panel
  SPS: Security Power Supply Unit

### Phasing

(Typical All Symbols and Equipment)

- Existing to Remain
- Existing to Be Demolished
- New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**Project 24072** **05/09/2025**

### 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 |
| E1.5 | ELECTRICAL PLANS BUILDING C |
| E1.6 | ELECTRICAL PLANS BUILDING C |
| E4.1 | ENLARGED ELECTRICAL PLANS |
| E6.1 | ELECTRICAL SCHEDULES |
| E6.2 | ELECTRICAL RISER DIAGRAMS |
| E6.3 | ELECTRICAL PANEL SCHEDULES |



***GENERAL ELECTRICAL NOTES***

A. COORDINATE INSTALLATION OF ELECTRICAL WORK ABOVE THE CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF PLUMBING AND MECHANICAL 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 CEILINGS IN AREAS WITH ACCESSIBLE TILES. IN AREAS WITH OPEN CEILINGS, 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 A/V 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 SPRINKER 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 (DITEK #DTK-2MHLP48B) FOR EACH MONITORED VALVE. COORDINATE WITH GC AND SITE WORK CONTACTOR FOR ALL VALVES INSTALLED. MONITORING IS NOT REQUIRED FOR VALVES INSTALLED IN ROADWAY BOXES BY THE MUNICIPALITY/PUBLIC UTILITY.


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**THE RESERVES AT COBALT CIRCLE**
**NEW APARTMENT COMPLEX**
**BROWNSVILLE TENNESEE**

JOHN FREDERICK RENZ — REGISTERED ENGINEER — 12-2-2026 — STATE OF TENNESSEE

REVISIONS:
1 12-3-2025 ASI #5

DATE: 05/09/2025
JOB: 24-3446
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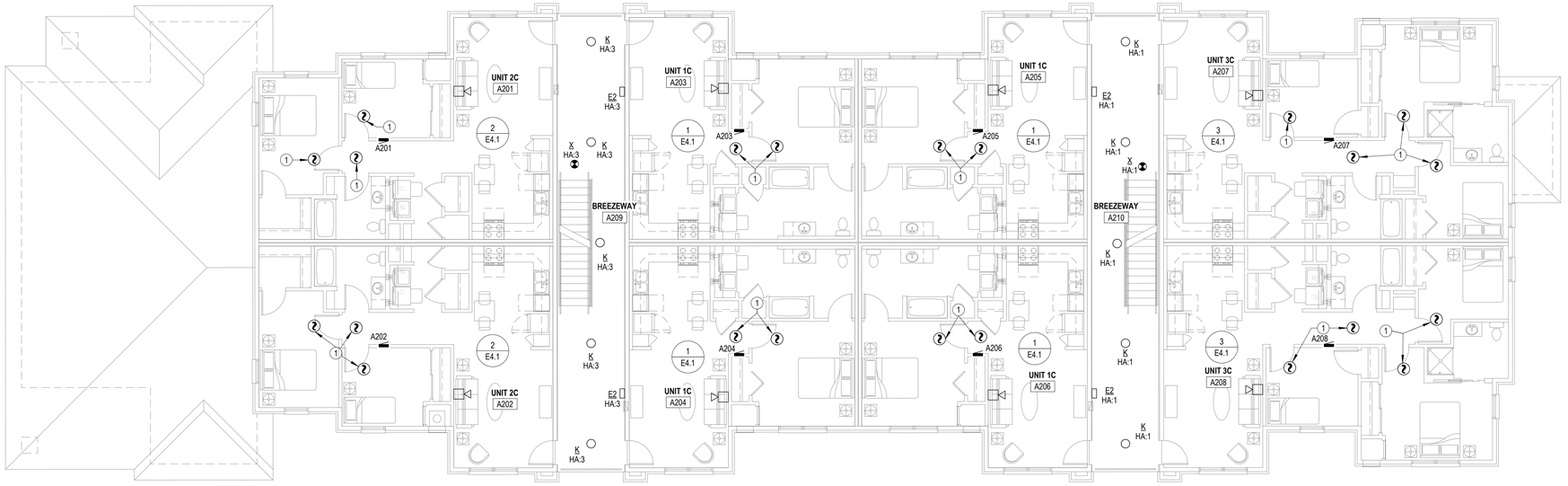
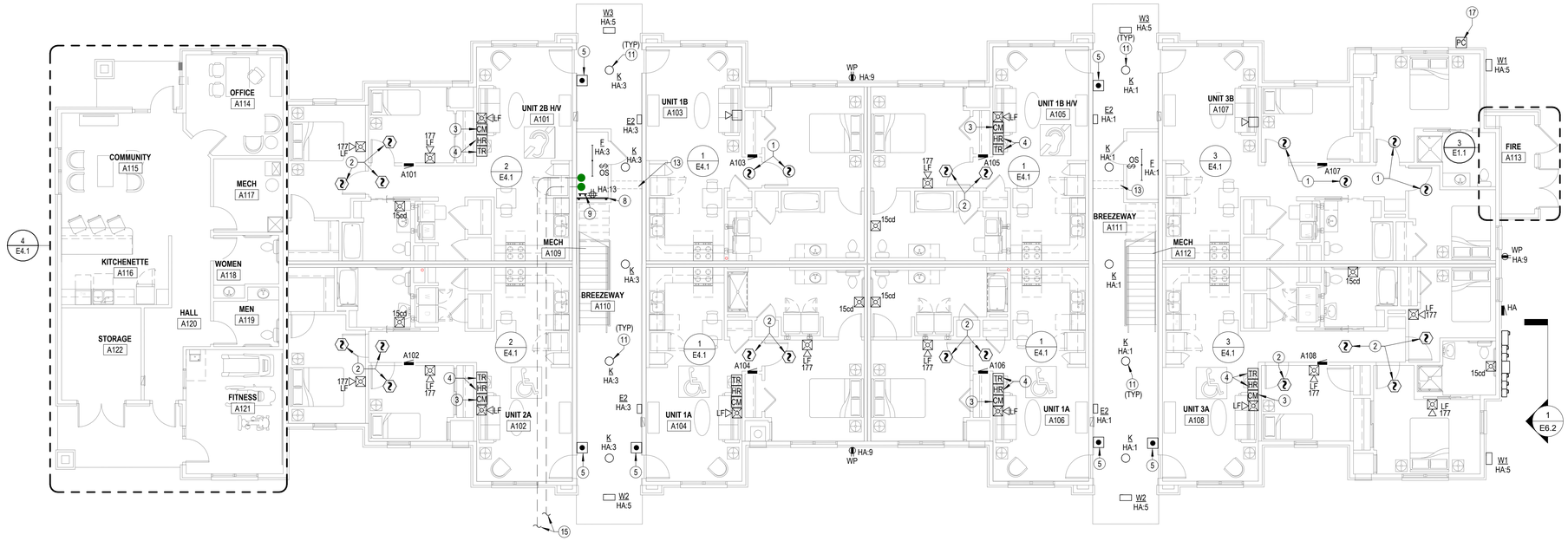
**E0.1**




## 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"

**GENERAL FIRE ALARM NOTES**

1 DB RATING FOR ALL FIRE ALARM HORNS SHALL BE SET 15 DB ABOVE AMBIENT PER CODE REQUIREMENTS.

**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 PHOTELECTRIC 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 #SC701LBL OR EQUAL.

2 FIRE ALARM SMOKE DETECTOR.

3 FIRE ALARM ADDRESSABLE CONTROL MODULE FOR CONTROL OF APARTMENT UNIT'S NOTIFICATION APPLIANCE CIRCUIT. MODULE SHALL BE PROGRAMMED TO ACTIVATE APARTMENT UNIT'S 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 A/V HORN/STROBE DEVICE AND LOW VOLTAGE TRANSFORMER AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED HEARING-IMPAIRED. INSTALL HORN/STROBE APPLIANCE AT 80" 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/GONG. COORDINATE QUANTITIES AND LOCATIONS WITH FIRE SPRINKLER CONTRACTOR.

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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 DACT FOR REMOTE MONITORING.

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BROWNSVILLE TENNESEE

JOHN FREDERICK LEWIS
REGISTERED ENGINEER
AGRICULTURAL
No. 121261
STATE OF TENNESSEE
1-20-2026

REVISIONS:

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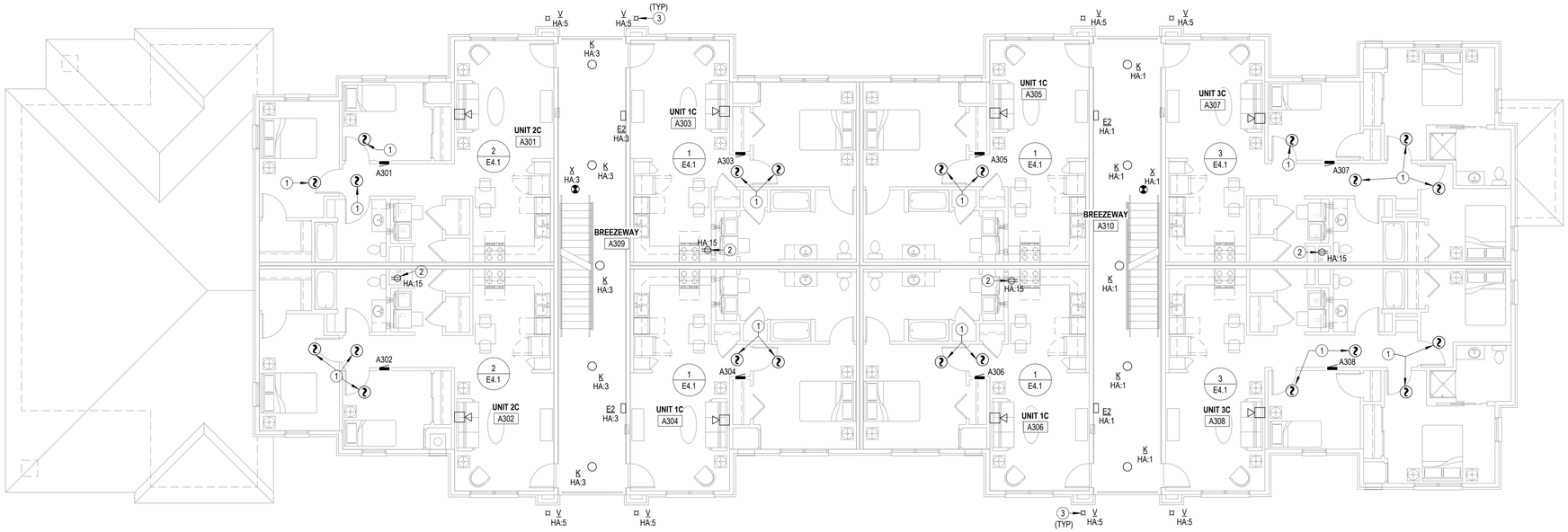


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1/8" = 1'-0"


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BROWNSVILLE TENNESSEE

JOHN FREDERICK LEWIS — REGISTERED ARCHITECT — PENNSYLVANIA — AMERICA — Certificate No. RA015113 — STATE OF TENNESSEE — 1-20-2026

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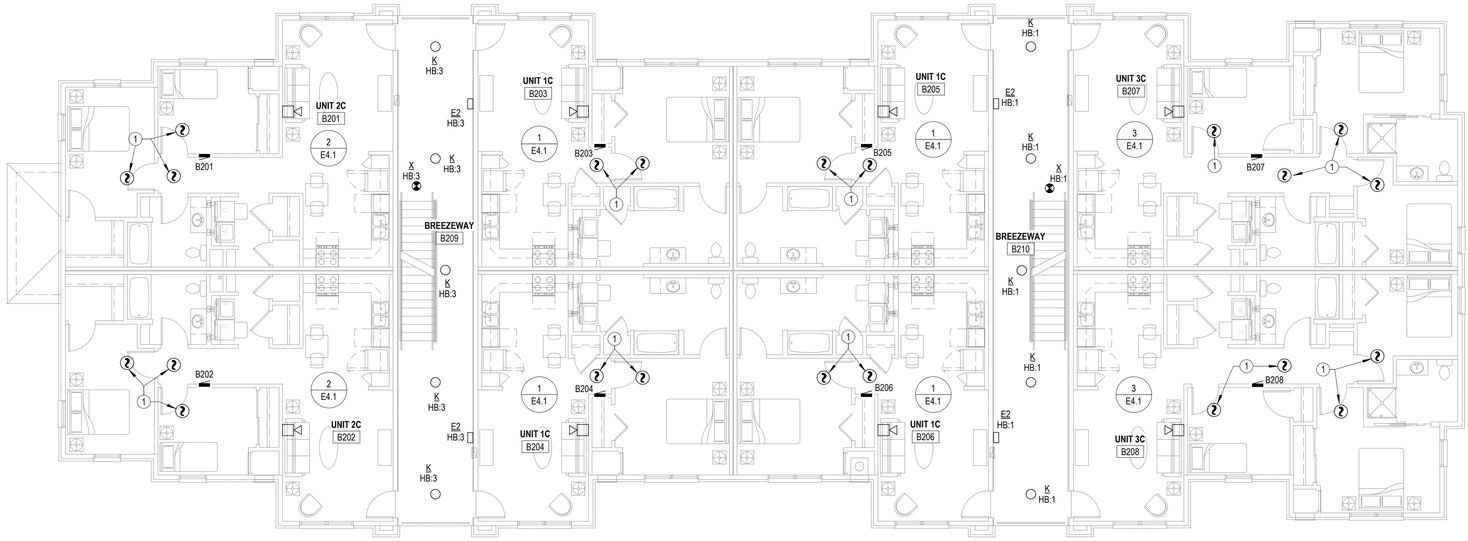


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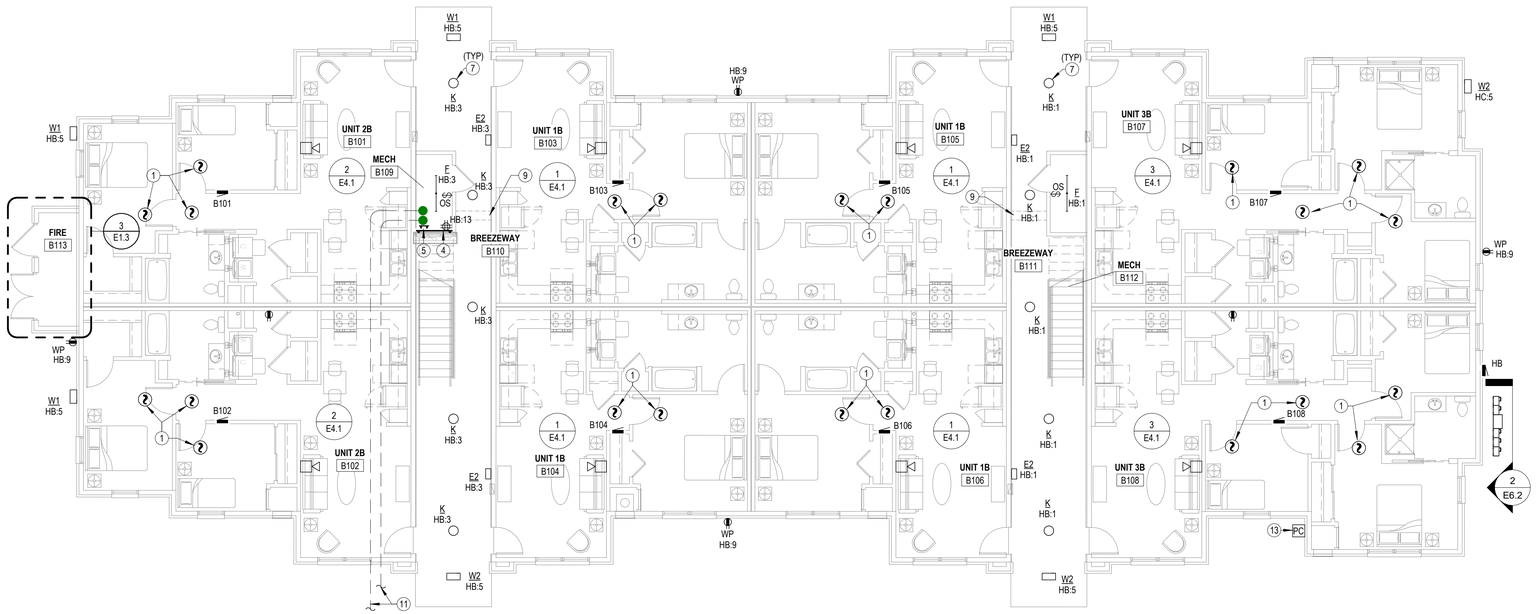


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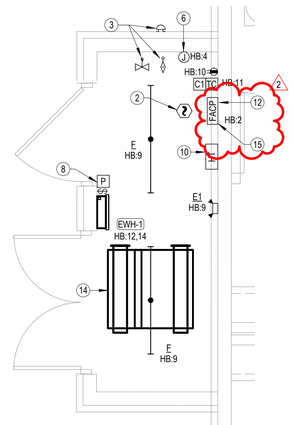


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BUILDING 'C' SIMILAR

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THE RESERVES AT COBALT CIRCLE

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BROWNSVILLE TENNESSEE

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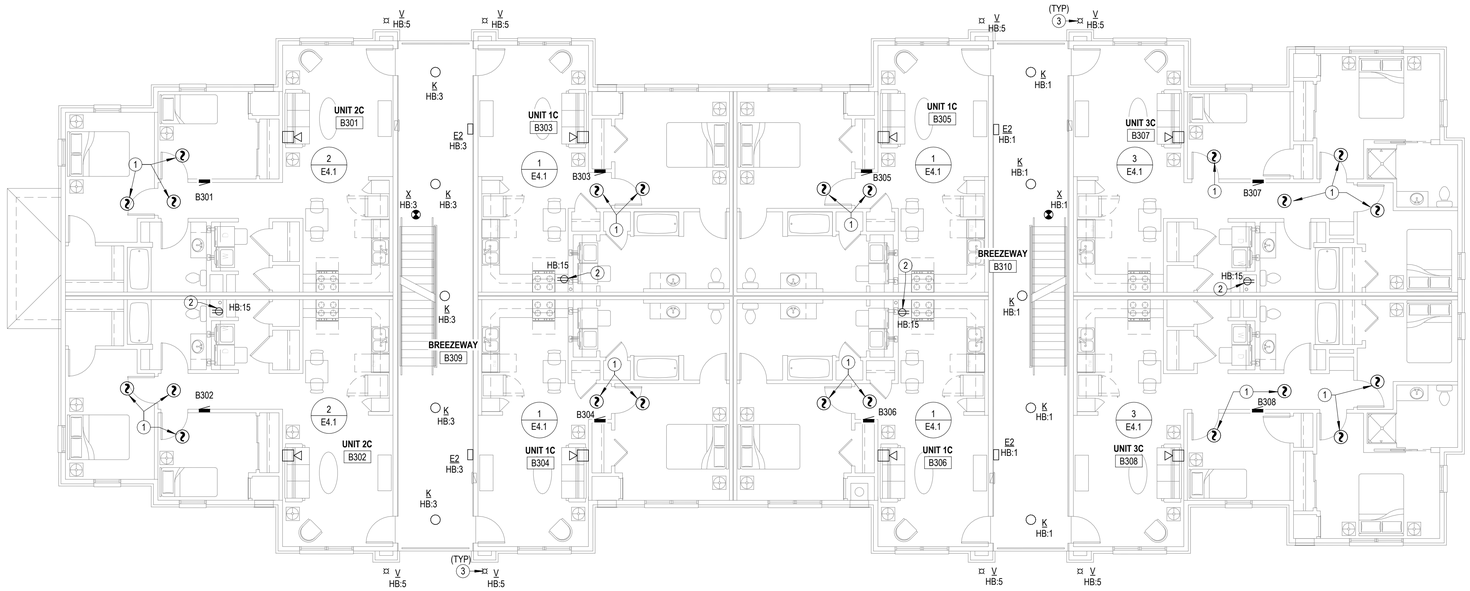


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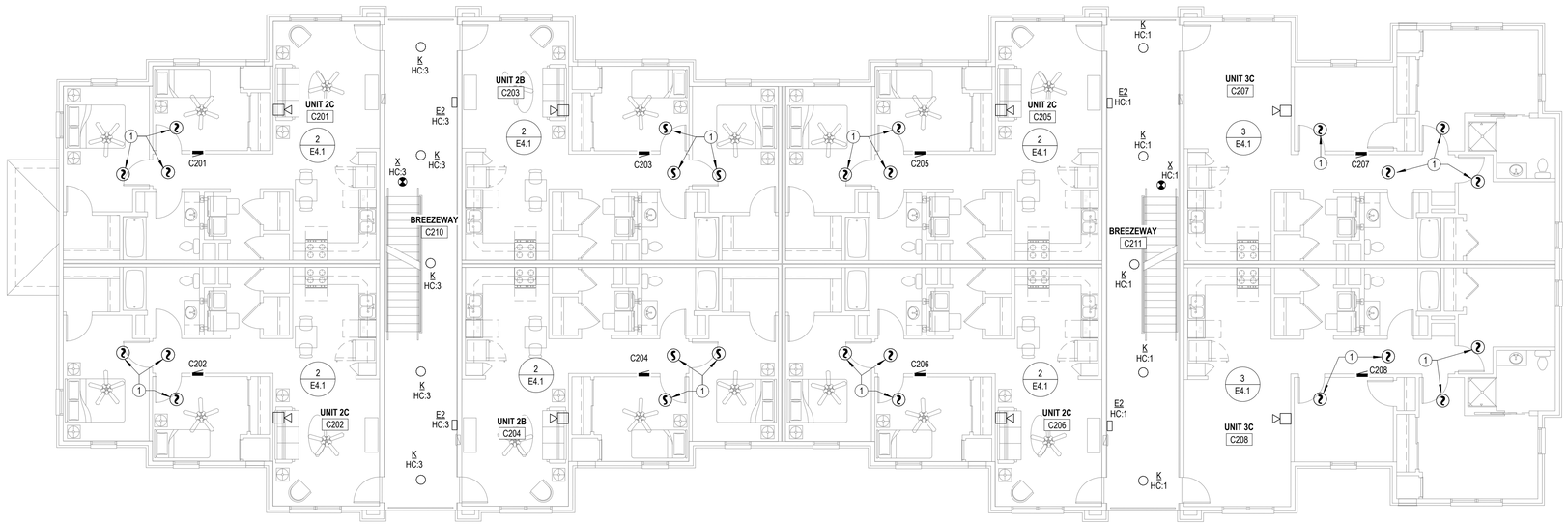


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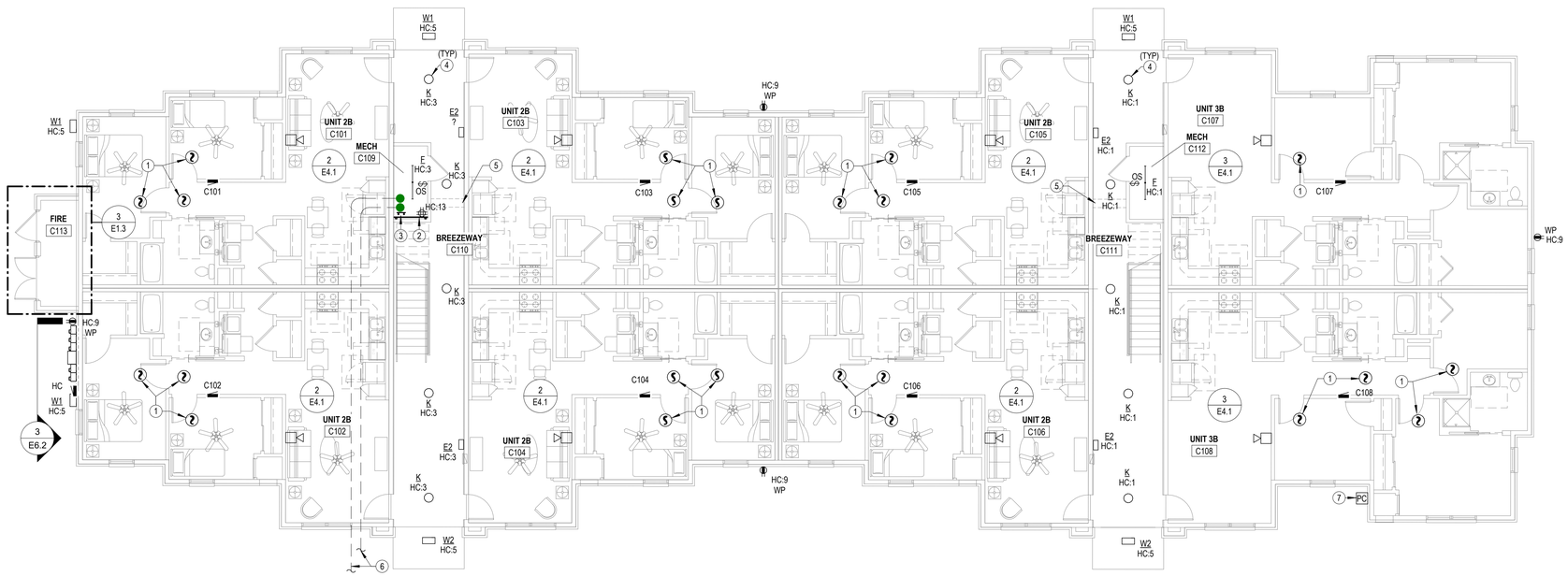


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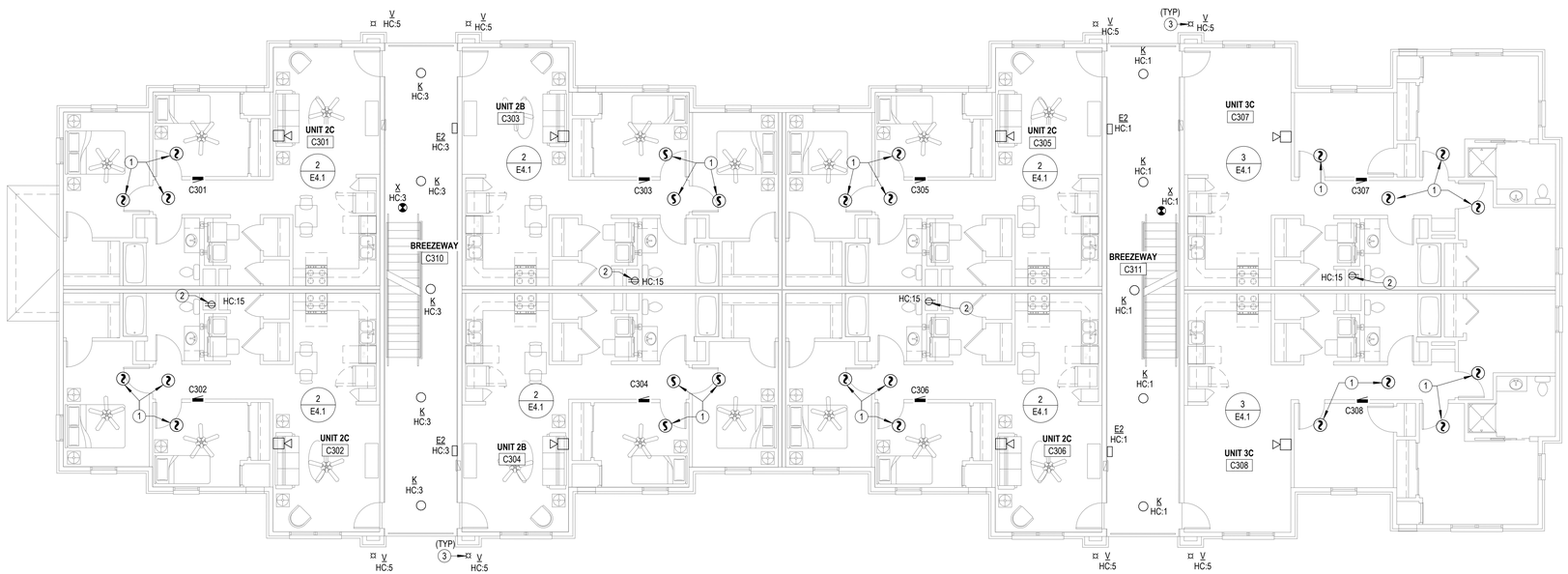


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THE RESERVES AT COBALT CIRCLE

NEW APARTMENT COMPLEX

BROWNSVILLE TENNESSEE

JOHN FREDERICK LEITZ — REGISTERED ARCHITECT — No. 12125 — STATE OF TENNESSEE

1-20-2026

REVISIONS:

| | | |
|---|---|---|
| 1 | 12-3-2025 | ASI #5 |
| 2 | 01-20-2026 | ASI #8 |

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

E1.6

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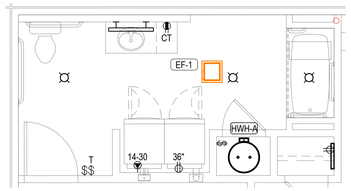
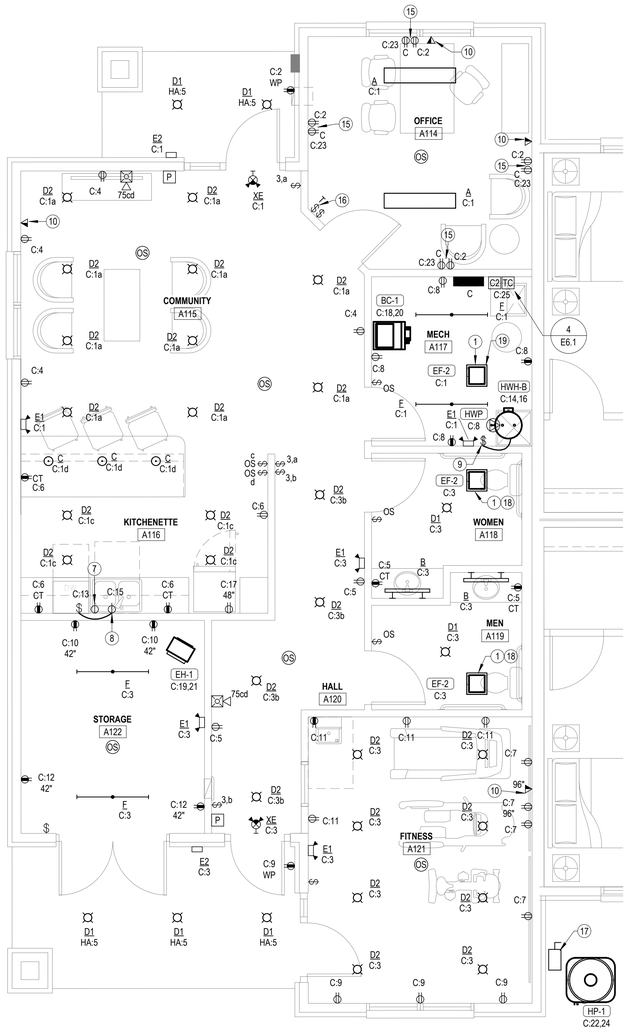
Project 24072 — 05/09/2025

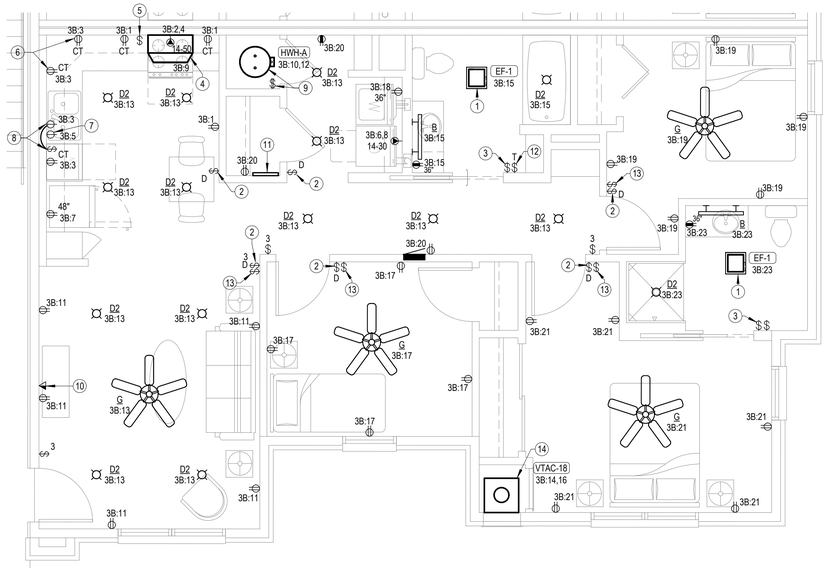



TYPICAL DEVICE LAYOUT FOR UNITS A104 & A106
BATHROOM, SEE 1:E4.1 FOR CIRCUITING AND NOTING.

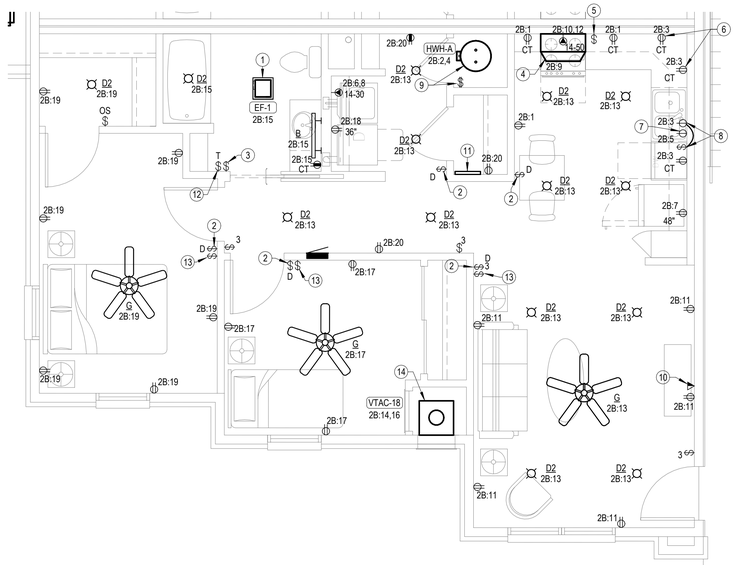
## 5 PARTIAL ENLARGED POWER PLAN
1/4" = 1'-0"



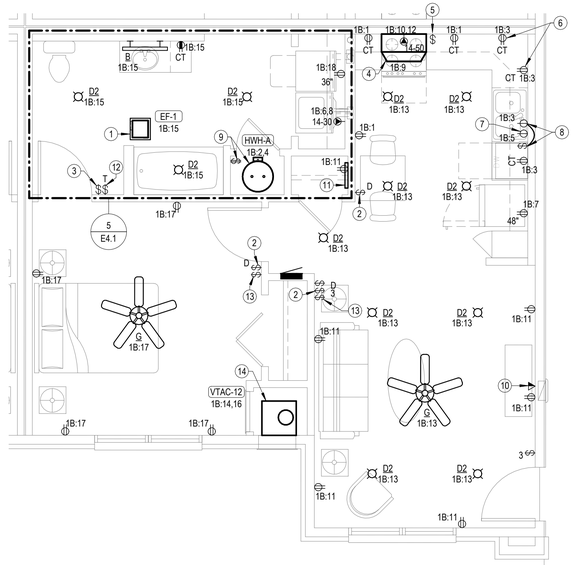

## 4 CLUBHOUSE ENLARGED POWER PLAN
1/4" = 1'-0"




## 3 3 BEDROOM 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"

### NOTES BY SYMBOL

1. CONNECT EXHAUST FAN/LIGHT PROVIDED BY MECHANCIAL CONTRACTOR.
2. PROVIDE PRESET SLIDE DIMMER COMPATIBLE WITH ASSOCIATED LIGHT FIXTURES.
3. SWITCH CLOSEST TO DOOR SHALL CONTROL ALL LIGHTS IN BATHROOM, AND THE OTHER SWITCH SHALL CONTROL THE EXHAUST FAN.
4. 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
5. PROVIDE SWITCH IN ACCESSIBLE UNITS FOR CONTROL OF RANGE HOOD.
6. 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.
7. PROVIDE RECEPTACLE BELOW COUNTER FOR CORD AND PLUG CONNECTION OF DISHWASHER. PROVIDE CORD AND GROUNDING PLUG AS REQUIRED.
8. SWITCHED RECEPTACLE BELOW COUNTER FOR GARBAGE DISPOSAL. COORDINATE EXACT LOCATION OF SWITCH WITH ARCHITECT.
9. PROVIDE 30A/2P SNAP SWITCH AND CONNECT WATER HEATER. INSTALL SWITCH ADJACENT TO WATER HEATER.
10. COORDINATE FINAL LOCATIONS OF ALL CATV AND PHONE OUTLETS WITH OWNER.
11. TELECOM DISTRIBUTION DEVICE APPROXIMATELY 4'-0" AFF. COORDINATE EXACT REQUIREMENTS WITH UTILITY PROVIDER SELECTED BY OWNER.
12. 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
13. SWITCH CEILING FAN SEPARATELY FROM LIGHTS.
14. 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.
15. 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).
16. 2-HOUR DIAL TIMER OVERRIDE SWITCH FOR SWITCHED RECEPTACLES. SEE X.E6.1.
17. 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.
18. SWITCH EXHAUST FAN WITH ROOM LIGHTS.
19. CIRCUIT EXHAUST FAN FOR CONTINUOUS OPERATION.

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1 10-30-2025 ASI #4

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Project 24072

05/09/2025

## LIGHT FIXTURE SCHEDULE

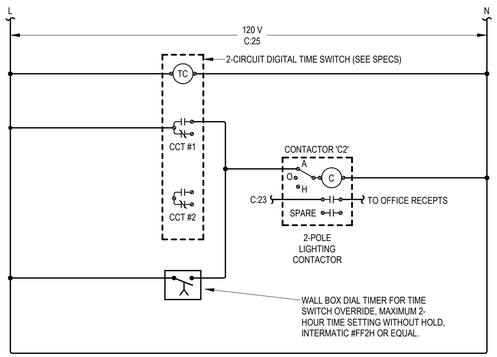
| MARK | MANUFACTURER | MODEL NUMBER | WATTAGE | LUMEN OUTPUT | DRIVER | MOUNTING | FINISH | DESCRIPTION | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| A | LITHONIA | FML4W ALO6 SEF 840 MVOLT | 49 W | 5874 lm | TRIAC DIMMING | SURFACE | WHITE | 1X4 SURFACE, LED WRAP | -- |
| B | MAXIM LIGHTING | 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" DIAMETER CEILING FAN WITH LED LIGHT KIT | -- |
| K | LITHONIA | OLCFM15-DDB | 17 W | 1077 lm | STANDARD | CEILING SURFACE | BRONZE | 12" LED BREEZWAY 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 SHEILD | 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 SHEILD | 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 | ICO 40/05/AR/LSS10D | 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 | LHQM 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

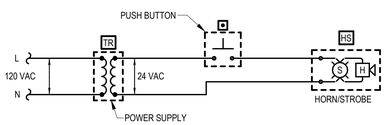
NOTES:

1. PROVIDE FIXTURE WITH EMERGENCY BATTERY INTEGRAL CHARGER WITH SELF-DIAGNOSTIC/SELF-TESTING ELECTRONICS.
2. FIXTURE SHALL BE CAPABLE OF WALL OR CEILING MOUNT APPLICATIONS AND SHALL HAVE BREAK-OUT DIRECTIONAL CHEVRONS.
3. FIXTURE SHALL BE CAPABLE OF OPERATION IN TEMPERATURES RANGING FROM -4F THROUGH 104F.
4. U.L. LISTED FOR 'WET LOCATION'.
5. U.L LISTED FOR 'DAMP LOCATION'.
6. PROVIDE FIXTURE/POLE ASSEMBLY WITH 20' ROUND STRAIGHT STEEL POLE, BLACK TO MATCH FIXTURE.
7. PROVIDE FIXTURE/POLE ASSEMBLY WITH 20' ROUND STRAIGHT STEEL POLE, BLACK TO MATCH FIXTURE.
8. FIXTURE/POLE ASSEMBLY SHALL BE RATED FOR 100 MPH WIND LOADS. PROVIDE WITH VIBRATION DAMPER PER MANUFACTURER'S RECOMMENDATIONS.
9. 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.




## 4 CLUBHOUSE CONTROLLED RECEPTACLE DIAGRAM

NO SCALE

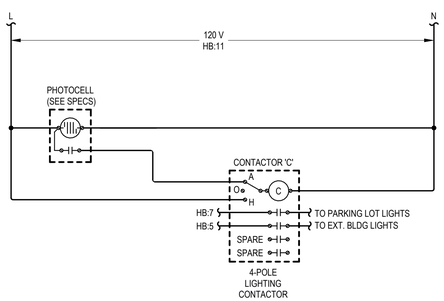



DOOR ALARM BUZZER SYSTEM NOTES

1. 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.
2. HORN/STROBE SHALL OPERATE AT 24VAC, HAVE A CLEAR LENS WITH 50cd STROBE AND HORN WITH 82dB AT 10', UL 1638 LISTED, EDWARDS #6536-G5. FLUSH MOUNT IN WALL AT 6'-8" AFF.
3. 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.
4. 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.
5. LOW VOLTAGE CLASS 2 CABLING SHALL BE MINIMUM 18 AWG UNSHIELDED.

## 3 APARTMENT DOORBELL WIRING SCHEMATIC

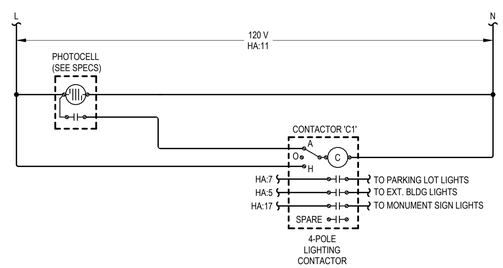
NO SCALE




BUILDING 'C' SIMILAR

## 2 LIGHTING CONTROL DIAGRAM - BUILDING B

NO SCALE




## 1 LIGHTING CONTROL DIAGRAM - BUILDING A

NO SCALE

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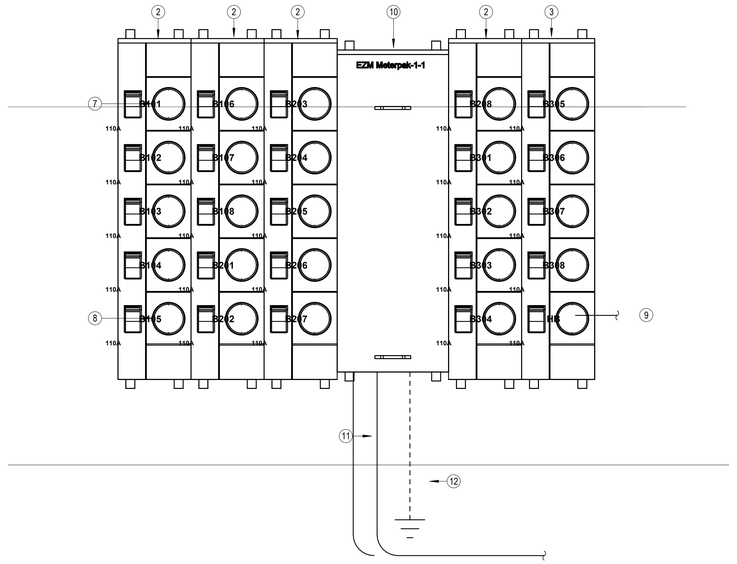
| BUILDING 'C' FEEDER SCHEDULE | | |
|---|---|---|
| PANEL NAME | FEEDER SIZE (COPPER) | FEEDER SIZE (ALUMINUM) |
| C101 | 1-1/4"C 2#1 #1N #6G | 1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G |
| C102 | 1-1/4"C 2#1 #1N #6G | 1-1/4"C 2-1/0 AL 1/0 AL N #3 AL G |
| C103 | 1-1/4"C 2#1 #1N #6G | 1-1/4"C 2-1/0 AL 1/0 AL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

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

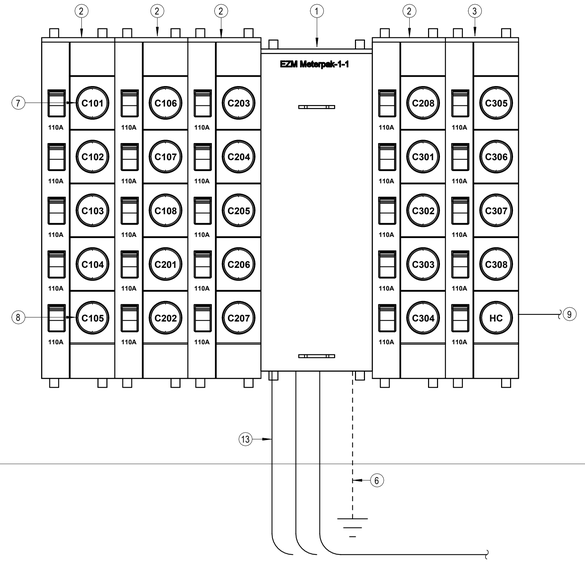



## 2 BUILDING B-ELECTRICAL RISER DIAGRAM
1" = 1'-0"

### NOTES BY SYMBOL

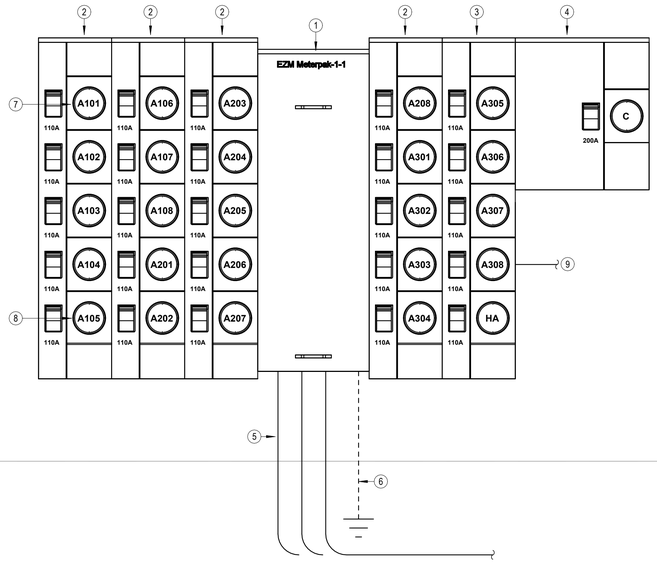
1. METER CENTER MAIN, 3-PH IN, 3-PH OUT, 208/120V-3PH, 4 WIRE WITH 1000A/3P MAIN BREAKER. 42 KAIC RATED. SERVICE ENTRANCE RATED WITH INTEGRAL SURGE PROTECTION DEVICE. SQUARE D 'EZ METER-PAK' #EZM31000CB.
2. 5-SOCKET BRANCH UNITS, 3-PH IN; 1-PH OUT, WITH (5) 110A BRANCH BREAKERS. METER SOCKETS SHALL BE 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.
3. 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.
4. 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'.
5. (3) PARALLEL 4" CONDUITS EACH WITH (4) #400 KCMIL COPPER FROM TRANSFORMER TO METER CENTER AT BUILDING 'A'.
6. #3/0 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.
7. MAXIMUM HEIGHT TO CENTERLINE OF TOP METER SOCKET SHALL BE 5'-6" AFG.
8. MINIMUM HEIGHT TO BOTTOM OF METER SOCKET ASSEMBLY SHALL BE 18" AFG.
9. SEE FEEDER SCHEDULE, THIS SHEET FOR SIZES TO APARTMENT UNIT LOAD CENTERS.
10. METER CENTER MAIN, 3-PH IN; 3-PH OUT, 208/120V-3PH, 4 WIRE WITH 800A/3P MAIN BREAKER, 65 KAIC RATED, SERVICE ENTRANCE RATED WITH INTEGRAL SURGE PROTECTION DEVICE. SQUARE D 'EZ METER-PAK' #EZM3800CB.
11. (2) PARALLEL 4" CONDUITS EACH WITH (4) #500 KCMIL COPPER FROM TRANSFORMER TO METER CENTER AT BUILDING 'B'. SEE ME1.0 FOR MORE INFORMATION.
12. #2/0 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.
13. (3) PARALLEL 4" CONDUITS EACH WITH (4) #400 KCMIL COPPER FROM TRANSFORMER TO METER CENTER AT BUILDING 'C'.

NOTES:
- Meter Center main circuit breaker shall be fully rated for kAIC 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@budutil.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.




## 3 BUILDING C-ELECTRICAL RISER DIAGRAM
1" = 1'-0"

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




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

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785.827.0386 jgr@jgrarchitects.com

THE RESERVES AT COBALT CIRCLE
NEW APARTMENT COMPLEX
BROWNSVILLE TENNESEE

REVISIONS:
1 12-3-2025 ASI #5

DATE: 05/09/2025
JOB: 24-3446
SHEET NO.:
E6.2

## GENERAL PANEL SCHEDULE NOTES

1 FIRE ALARM CONTROL PANEL CIRCUIT BREAKER SHALL HAVE RED MARKING AND BE PERMANENTLY IDENTIFIED PER NFPA 72, 10.6.5.2.2, 10.6.5.2.3, 10.6.5.2.5.


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**Project 24072** **05/09/2025**

## Designation: 1B

**Installed Location:**
**Voltage:** 120/208 1PH 3W-1Ph-3W
**Mounting:** Flush
**Enclosure:** NEMA 1

**Bus Amps:** 150
**MCB Amps:** MLO
**Features & Modifications:** -

**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 | | | | 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 | | | 9 A | 0 A | | | | | 1B:4 |
| 1B:5 | Dishwasher | 1/2"C,1#12,#12N,#12G | 20 | AG | 4 A | 41 A | | | G | 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 | | | | | 1B:8 |
| 1B:9 | Hood/Microwave | 1/2"C,1#12,#12N,#12G | 20 | AG | 2 A | 41 A | | | G | 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 | | | 9 A | 41 A | | | | | 1B:12 |
| 1B:13 | Kitchen/Living/Hall Lighting | 1/2"C,1#12,#12N,#12G | 20 | A | 2 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 | | | | 3 A | 0 A | | | | | 1B:16 |
| 1B:17 | Bedroom | 1/2"C,1#12,#12N,#12G | 20 | A | 6 A | 2 A | | | AG | 20 | 1/2"C,1#12,#12N,#12G | Clothes Washer Receptacle | 1B:18 |
| 1B:19 | Spare | -- | 20 | | | | 0 A | 0 A | | 20 | -- | Spare | 1B:20 |
| 1B:21 | Spare | -- | 20 | | 0 A | -- | | | | -- | -- | Surge Protection | 1B:22 |
| 1B:23 | Spare | -- | 20 | | | | 0 A | -- | | -- | -- | Surge Protection | 1B:24 |

## Designation: 2B

**Installed Location:**
**Voltage:** 120/208 1PH 3W-1Ph-3W
**Mounting:** Flush
**Enclosure:** NEMA 1

**Bus Amps:** 150
**MCB Amps:** MLO
**Features & Modifications:** -

**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 | | | | 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 | | | 9 A | 0 A | | | | | 2B:4 |
| 2B:5 | Dishwasher | 1/2"C,1#12,#12N,#12G | 20 | AG | 4 A | 41 A | | | G | 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 | | | | | 2B:8 |
| 2B:9 | Hood/Microwave | 1/2"C,1#12,#12N,#12G | 20 | AG | 2 A | 41 A | | | G | 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 | | | 8 A | 41 A | | | | | 2B:12 |
| 2B:13 | Kitchen/Living/Hall Lighting | 1/2"C,1#12,#12N,#12G | 20 | 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 | | | | 2 A | 8 A | | | | | 2B:16 |
| 2B:17 | Bedroom 1 | 1/2"C,1#12,#12N,#12G | 20 | A | 5 A | 2 A | | | AG | 20 | 1/2"C,1#12,#12N,#12G | Clothes Washer Receptacle | 2B:18 |
| 2B:19 | Bedroom 2 | 1/2"C,1#12,#12N,#12G | 20 | A | | | 9 A | 5 A | | 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: 3B

**Installed Location:**
**Voltage:** 120/208 1PH 3W-1Ph-3W
**Mounting:** Flush
**Enclosure:** NEMA 1

**Bus Amps:** 150
**MCB Amps:** MLO
**Features & Modifications:** -

**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 | | | G | 50 | 3/4"C,2#6,#6N,#10G | Range | 3B:2 |
| 3B:3 | Kitchen Receptacles | 1/2"C,1#12,#12N,#12G | 20 | AG | | | 9 A | 41 A | | | | | 3B:4 |
| 3B:5 | Dishwasher | 1/2"C,1#12,#12N,#12G | 20 | AG | 4 A | 41 A | | | G | 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 | | | | | 3B:8 |
| 3B:9 | Hood/Microwave | 1/2"C,1#12,#12N,#12G | 20 | AG | 2 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 | | | 8 A | 0 A | | | | | 3B:12 |
| 3B:13 | Kitchen/Living/Hall Lighting | 1/2"C,1#12,#12N,#12G | 20 | 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 | | | | 2 A | 8 A | | | | | 3B:16 |
| 3B:17 | Bedroom 2 | 1/2"C,1#12,#12N,#12G | 20 | A | 6 A | 2 A | | | AG | 20 | 1/2"C,1#12,#12N,#12G | Clothes Washer Receptacle | 3B:18 |
| 3B:19 | Bedroom 3 | 1/2"C,1#12,#12N,#12G | 20 | A | | | 8 A | 5 A | 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 | | | | 2 A | -- | | -- | -- | Surge Protection | 3B:24 |

## Designation: HC

**Installed Location:**
**Voltage:** 120/208 1PH 3W-1Ph-3W
**Mounting:** Surface
**Enclosure:** NEMA 1

**Bus Amps:** 100
**MCB Amps:** MLO
**Features & Modifications:** -

**SCCR/AIC:** 42.0 kA
**Mains FN/Note:** -

| Ckt | Description | Circuitry | Trip (A) | FN | A | | B | | FN | Trip (A) | Circuitry | Description | Ckt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HC:1 | East Breezeway Lights | 1/2"C,1#12,#12N,#12G | 20 | | 3 A | 3 A | | | L | 20 | 1/2"C,1#12,#12N,#12G | FIRE ALARM CIRCUIT | HC:2 |
| HC:3 | West Breezeway Lights | 1/2"C,1#12,#12N,#12G | 20 | | | | 3 A | 3 A | | 20 | 1/2"C,1#12,#12N,#12G | Fire Sprinkler Flow Switches | HC:4 |
| HC:5 | Exterior Lighitng | 1/2"C,1#12,#12N,#12G | 20 | | 2 A | 3 A | | | | 20 | 1/2"C,1#12,#12N,#12G | Heat Trace Circuit #1 | HC:6 |
| HC:7 | Parking Lot Pole Mounted Lights | 3/4"C,1#10,#10N,#10G | 20 | | | | 2 A | 0 A | | 20 | 1/2"C,1#12,#12N,#12G | Heat Trace Circuit #2 | HC:8 |
| HC:9 | Exterior Receptacles/ Fire B113 Lighting | 1/2"C,1#12,#12N,#12G | 20 | | 7 A | 2 A | | | | 20 | 1/2"C,1#12,#12N,#12G | Fire Sprinkler Air Compressor | HC:10 |
| HC:11 | Timeclock | 1/2"C,1#12,#12N,#12G | 20 | | | | 3 A | 14 A | | 20 | 3/4"C,2#8,#8G | Electric Wall Heater 'EWH-1' | HC:12 |
| HC:13 | Telecomm | 1/2"C,1#12,#12N,#12G | 20 | | 3 A | 14 A | | | | | | | HC:14 |
| HC:15 | Future Radon Fans | 1/2"C,1#12,#12N,#12G | 20 | | | | 6 A | 20 A | | 20 | 3/4"C,2#8,#8G | Domestic Water Booster Pump | HC:16 |
| HC:17 | Spare | -- | 20 | | 0 A | 20 A | | | | | | | HC:18 |
| HC:19 | Spare | -- | 20 | | | | 0 A | -- | | -- | -- | Space | HC:20 |
| HC:21 | Spare | -- | 20 | | 0 A | -- | | | | -- | -- | Surge Protection | HC:22 |
| HC:23 | Spare | -- | 20 | | | | 0 A | -- | | -- | -- | Surge Protection | HC:24 |

## Designation: HA

**Installed Location:**
**Voltage:** 120/208 1PH 3W-1Ph-3W
**Mounting:** Surface
**Enclosure:** NEMA 1

**Bus Amps:** 100
**MCB Amps:** MLO
**Features & Modifications:** -

**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... | | | L | 20 | 1/2"C,1#12,#12N,#12G | FIRE ALARM CIRCUIT | 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 Lighitng | 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 | Timeclock | 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... | | | | | | | HA:14 |
| HA:15 | Future Radon Fans | 1/2"C,1#12,#12N,#12G | 20 | | | | 720... | 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 | | 222... | 211... | | | | | | | HA:18 |
| HA:19 | Spare | -- | 20 | | | | 0 VA | -- | | -- | -- | Space | HA:20 |
| HA:21 | Spare | -- | 20 | | 0 VA | -- | | | | -- | -- | Surge Protection | HA:22 |
| HA:23 | Spare | -- | 20 | | | | 0 VA | -- | | -- | -- | Surge Protection | HA:24 |
| | | | | | Connected Load: | | 6352 VA | | | | | | |
| | | | | | Connected Amps: | | 60 A | | | | | | |

## Designation: HB

**Installed Location:**
**Voltage:** 120/208 1PH 3W-1Ph-3W
**Mounting:** Surface
**Enclosure:** NEMA 1

**Bus Amps:** 100
**MCB Amps:** MLO
**Features & Modifications:** -

**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... | | | L | 20 | 1/2"C,1#12,#12N,#12G | FIRE ALARM CIRCUIT | 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 Lighitng | 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 B113 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 | Timeclock | 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... | | | | | | | HB:14 |
| HB:15 | Future Radon Fans | 1/2"C,1#12,#12N,#12G | 20 | | | | 720... | 211... | | 30 | 3/4"C,2#8,#8G | Domestic Water Booster Pump | HB:16 |
| HB:17 | Spare | -- | 20 | | 0 VA | 211... | | | | | | | HB:18 |
| HB:19 | Spare | -- | 20 | | | | 0 VA | -- | | -- | -- | Space | HB:20 |
| HB:21 | Spare | -- | 20 | | 0 VA | -- | | | | -- | -- | Surge Protection | HB:22 |
| HB:23 | Spare | -- | 20 | | | | 0 VA | -- | | -- | -- | Surge Protection | HB:24 |
| | | | | | Connected Load: | | 6163 VA | | | | | | |
| | | | | | Connected Amps: | | 59 A | | | | | | |

## Designation: C

**Installed Location:** A117 MECH
**Voltage:** 120/208 1PH 3W-1Ph-3W
**Mounting:** Surface
**Enclosure:** NEMA 1

**Bus Amps:** 200
**MCB Amps:** MLO
**Features & Modifications:** Provide Integral Surge Protection

**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... | | | | | 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... | | | | | C:20 |
| C:21 | | | | | 183... | 156... | | | | 20 | 1/2"C,2#12,#12G | Heat Pump 'HP-1' | C:22 |
| C:23 | Receptacle - Office A114 (Controlled) | 1/2"C,1#12,#12N,#12G | 20 | | | | 720... | 156... | | | | | C:24 |
| C:25 | Other | 1/2"C,1#12,#12N,#12G | 20 | | 360... | -- | | | | -- | -- | Space | C:26 |
| C:27 | Spare | -- | 20 | | | | 0 VA | -- | | -- | -- | Space | C:28 |
| C:29 | Spare | -- | 20 | | 0 VA | -- | | | | -- | -- | Space | C:30 |
| C:31 | Spare | -- | 20 | | | | 0 VA | -- | | -- | -- | Space | C:32 |
| C:33 | Space | -- | -- | | -- | -- | | | | -- | -- | Space | C:34 |
| C:35 | Space | -- | -- | | | | -- | -- | | -- | -- | Space | C:36 |
| C:37 | Space | -- | -- | | -- | -- | | | | -- | -- | Space | C:38 |
| C:39 | Space | -- | -- | | | | -- | -- | | -- | -- | Space | C:40 |
| C:41 | Space | -- | -- | | -- | -- | | | | -- | -- | Space | C:42 |
| | | | | | Connected Load: | | 12865 VA | | 13117 VA | | | | |
| | | | | | Connected Amps: | | 124 A | | 126 A | | | | |

### Breaker Function Schedule

| | |
|---|---|
| A | Arc-Fault Interrupter (AFCI) Protection |
| AG | Combination Arc-Fault Interrupter (AFCI) Protection and Ground-Fault Circuit Interrupter (GFCI) Protection (5 mA) |
| G | Ground-Fault Circuit Interrupter (GFCI) Protection (5 mA) |
| L | Lockable breaker |


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THE RESERVES AT COBALT CIRCLE
NEW APARTMENT COMPLEX
BROWNSVILLE TENNESEE

JOHN DEMARK GILLAM — 1-28-2026 — STATE OF TENNESSEE

REVISIONS:

| | | |
|---|---|---|
| 1 | 10-14-2025 | ASI #2 |
| 2 | 12-3-2025 | ASI #5 |
| 3 | 01-20-2026 | ASI #8 |
| 4 | 1-28-2026 | ASI #9 |

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

**E6.3**

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**Project 24072** **05/09/2025**

## General Plan Symbols

- Plan Revision Number
- Detail Number on Sheet / Sheet Number Where Detail is Placed
- Keynote Symbol
- Continuation Symbol
- Point Where New Connects To Existing
- Room Name / Number
- Area Being Demolished
- Area Not In Contract
- Electrical Equipment. Do not route HVAC installation above or below equipment. Maintain working clearance as indicated by dashed line.

## Abbreviations

| | | | |
|---|---|---|---|
| Ø | ROUND | LVR | LOUVER |
| ABV | ABOVE | LWT | LEAVING WATER TEMPERATURE |
| AC | AIR CONDITIONING | M/A | 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 | NOISE CRITERIA |
| CAP | CAPACITY | NC | NORMALLY CLOSED |
| CB | CATCH BASIN | NIC | NOT IN CONTRACT |
| CFM | CUBIC FEET PER MINUTE | NO | NUMBER |
| CLG | CEILING | NO | NORMALLY OPEN |
| CO | CLEAN OUT | NTS | NOT TO SCALE |
| CW | COLD WATER | O | OXYGEN |
| D | DEGREE | O/A | OUTSIDE AIR |
| DB | DRY BULB | ORD | OVERFLOW ROOF DRAIN |
| DIA | DIAMETER | PD | PRESSURE DROP |
| DN | DOWN | PIV | POST INDICATOR VALVE |
| DW | DISTILLED WATER | PLBG | PLUMBING |
| EA | EACH | PRESS | PRESSURE |
| EAT | ENTERING AIR TEMPERATURE | PRV | PRESSURE REDUCING VALVE |
| ELEC | ELECTRICAL | PSI | POUNDS PER SQUARE INCH |
| EQUIP | EQUIPMENT | PSIG | POUNDS PER SQUARE INCH GAUGE |
| EWC | ELECTRIC WATER COOLER | PWR | POWER |
| EWT | ENTERING WATER TEMPERATURE | R | DUCT RISER |
| E/A | EXHAUST AIR | R/A | RETURN AIR |
| EXIST | EXISTING | RCP | RADIANT CEILING PANEL |
| F | DEGREES FAHRENHEIT | RD | ROOF DRAIN |
| FCO | FLOOR CLEAN OUT | REC | RECESSED |
| FD | FLOOR DRAIN | RED | REDUCER |
| FDC | FIRE DEPARTMENT CONNECTION | RH | RELATIVE HUMIDITY |
| FL | FLOOR | RL/A | RELIEF AIR |
| FO | FUEL OIL | RM | ROOM |
| FOV | FUEL OIL VENT | RPM | REVOLUTIONS PER MINUTE |
| FOR | FUEL OIL RETURN | RW | RAIN WATER |
| FOS | FUEL OIL SUPPLY | SF | SQUARE FOOT |
| FPM | FEET PER MINUTE | S/A | SUPPLY AIR |
| FS | FLOOR SINK | SAN | SANITARY |
| FT | FOOT/FEET | SF | SQUARE FOOT |
| FTR | FIN TUBE RADIATION | SD | SMOKE DAMPER |
| GAL | GALLON | SM | SURFACE MOUNT |
| GF | GAS-FIRED | SP | STANDPIPE |
| GC | GENERAL CONTRACTOR | SP | STATIC PRESSURE |
| GPM | GALLONS PER MINUTE | STM | STEAM |
| GW | GREASE WASTE | T | THERMOSTAT |
| HB | HOSE BIB | TD | TEMPERATURE DROP |
| HP | HORSE POWER | TDR | TRENCH DRAIN |
| 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 |
| LB/HR | 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 | PRV | POWER ROOF VENTILATOR |
| DBP | DOMESTIC WATER BOOSTER PUMP | RE | RETURN/EXHAUST FAN |
| DC | DUCT MOUNTED COIL | RTU | ROOFTOP UNIT |
| DCP | DOMESTIC WATER CIRCULATING PUMP | SP | SUMP PUMP |
| EF | EXHAUST FAN | UH | UNIT HEATER |
| EDC | ELECTRIC DUCT COIL | 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.

## HVAC Symbols

- 24"/12" — Sq. Duct Size (Width/Height)
- 24"x12"FO — Oval Duct Size (Width x Height)
- 18"Ø — Round Duct Size (Diameter)
- (E) — Existing Duct To Remain
- Duct To Be Demolished
- S/A — Supply Air
- V/A — Ventilation Air
- O/A — Outdoor Air
- R/A — Return Air
- T/A — Transfer Air
- E/A — General Exhaust Air
- KED — Kitchen Exhaust Duct
- FLUE — Flue Gas Vent
- C/A — 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

**Grille, Register, Diffusers**

Square Ceiling Diffuser — CD- 500 / 10"Ø/24x24 — Type (See Schedule), Airflow, Neck Size / Module Size

Round Ceiling Diffuser — CD11 100 / 10"Ø TYP. X 4 — Type (See Schedule), Airflow, Neck Size, Type Count for Space

Sidewall Supply Grille — SG5 300 / 18"x6" AFF.0" — Type (See Schedule), Airflow, Nominal Duct Size, Mounting Elevation (Centerline)

Linear Diffuser — SD- 200 / 8"Ø/2s/4'-0"L — Type (See Schedule), Airflow, Neck Size/ Slot(s)/ Active Length

Sidewall Return Grille — RG6 200 / 12"x6" AFF.0" — Type (See Schedule), Airflow, Nominal Duct Size, Mounting Elevation (Centerline)

Ceiling Return — CR2 200 / 8"Ø/24x24 — Type (See Schedule), Airflow, Neck Size / Module Size

**Mechanical Equipment**

- RTU-1 — Unit Identity
- EAHU-2 — Existing to Remain Equipment
- RAHU-3 — Existing Relocated Equipment
- Equipment By Others (Refer To Other Disciplines)

**Mechanical Control Devices**

- (T) Thermostat
- (H) Humidistat
- (TS) Temperature Sensor
- (HS) Humidity Sensor
- CO2 Carbon Dioxide Detector
- HZG Hazardous Gas Detector

**Damper Types**

- (B) Manual Damper
- (M) Motorized Damper
- (BD) Backdraft Damper
- (S) Smoke Damper
- Fire Damper
- (C/S) Comb. Fire/ Smoke Damper

## 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 |
| M1.5 | HVAC PLANS BUILDING C |
| M1.6 | HVAC PLANS BUILDING C |
| M4.1 | ENLARGED HVAC PLANS |
| M4.2 | ENLARGED HVAC PLANS |
| M6.1 | MECHANICAL SCHEDULES |


***GENERAL HVAC NOTES***

A. CONTRACTOR SHALL LOCATE THERMOSTATS AND HUMIDISTATS AT 4'-0" AFF UNLESS NOTED OTHERWISE. MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF 8" FROM LIGHT SWITCHES.
B. 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 CEILINGS, CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH MINIMUM 1/2" FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET.
C. ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.
D. COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH LIGHTING.
E. PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED.
F. 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.
G. 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.
H. 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.
I. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
J. 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.
K. 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.
L. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE U.L. LISTED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES.
M. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
N. 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.
O. TRANSITION FROM PIPING AND DUCTWORK SIZES SHOWN TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
P. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
Q. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
R. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
S. 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.
T. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
U. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

***GENERAL MECHANICAL DEMOLITION NOTES***

A. 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.
B. WHERE PIPING TAKEN OUT OF SERVICE IS LOCATED BELOW SLAB AND IS UNABLE TO BE REMOVED, CAP BELOW SLAB.
C. ALL DUCTWORK TAKEN OUT OF SERVICE SHALL BE REMOVED.
D. COORDINATE CUTTING, PATCHING OF EXISTING WALLS, CEILINGS, ROOF AND FLOORS AFFECTED BY MECHANICAL DEMOLITION WITH G.C.
E. ALL EQUIPMENT TAKEN OUT OF SERVICE SHALL BE REMOVED. EQUIPMENT SHALL BE DELIVERED TO OWNER OR DISPOSED OF AS DIRECTED BY OWNER.
F. 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.
G. SERVICES TO ITEMS NOT REMOVED AS PART OF THIS WORK SHALL BE RESTORED UPON COMPLETION OF THIS WORK TO FULLY OPERATIONAL CONDITION.
H. NOT ALL ITEMS REQUIRED TO BE DEMOLISHED MAY BE INDICATED ON DRAWINGS. ALL DEMOLITION OF AFFECTED SPACE SHALL BE PERFORMED AS IF INDICATED.
I. FIELD VERIFY EXACT LOCATION OF ALL EXISTING MECHANICAL INSTALLATION INDICATED ON DRAWINGS.
J. 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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**THE RESERVES AT COBALT CIRCLE**
**NEW APARTMENT COMPLEX**
**BROWNSVILLE TENNESSEE**

REVISIONS:
1 10-14-2025 ASI #2

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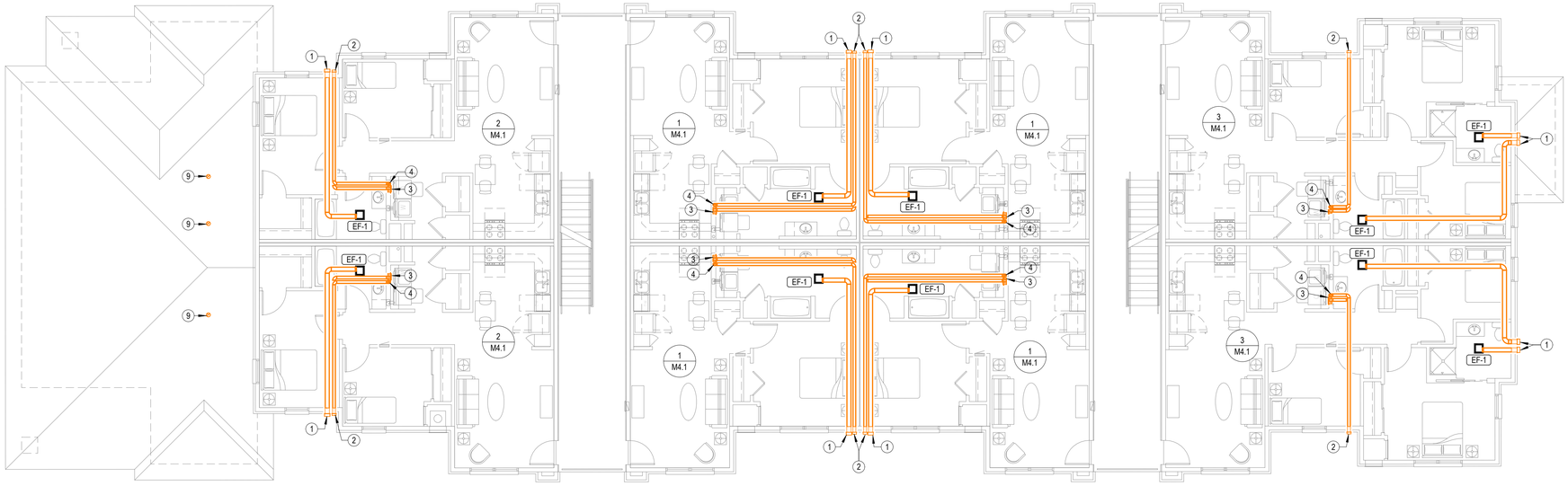
Project 24072 — 05/09/2025



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

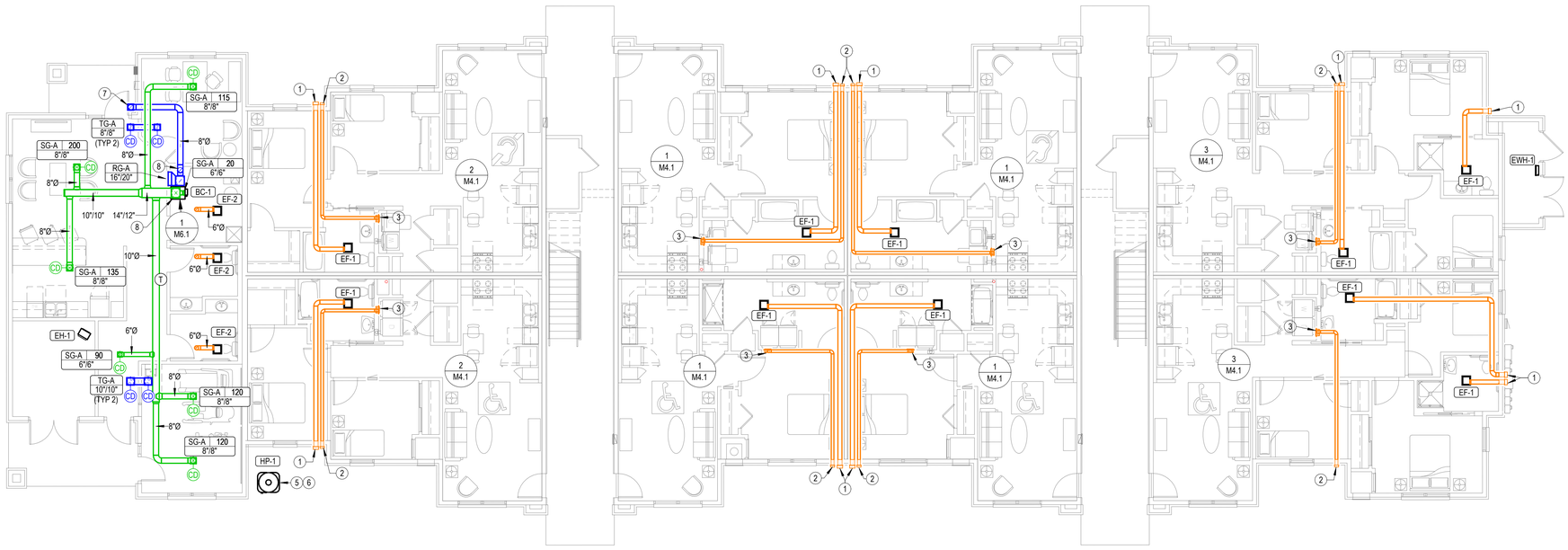
### GENERAL MECHANICAL NOTES

1. PROVIDE SHOP DRAWINGS SHOWING EXACT ROUTING OF REFRIGERANT PIPING FOR REVIEW BY ARCHITECT AND ENGINEER.
2. INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH ALL PROVISIONS OF ASHRAE 15 INCLUDING LASTEST ADDENDA.
3. PROTECT PIPING PER ASHRAE 15 SECTION 9.12.
4. PRESSURE TEST PIPING PER ASHRAE 15 SECTION 9.13.
5. DUCTWORK CONSTRUCTION SHALL COMPLY WITH 2021 IECC.

### NOTES BY SYMBOL

1. ROUTE 6"Ø EXHAUST DUCT TO MANUFACTURER'S WALL CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN, COORDINATE FINAL LOCATION WITH ARCHITECT.
2. 4" DRYER DUCT. SEE ENLARGED PLANS FOR MORE INFORMATION. COORDINATE FINAL LOCATION OF WALL CAP WITH ARCHITECT.
3. 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: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.
4. DRYER EXHAUST DUCT ROUTED FROM THIRD FLOOR ROUTED AS HIGH AS POSSIBLE BELOW THIRD FLOOR TO MANUFACTURES WALL CAP.
5. ROUTE REFRIGERANT PIPING FROM HEAT PUMP TO BLOWER COIL. PENETRATE WALL 18" AFG AND ROUTE PIPING CONCEALED IN WALLS AND ABOVE CEILINGS. UTILIZE PIPE PENETRATION ASSEMBLY EQUAL TO AIREX TITAN OUTLET.
6. MOUNT HEAT PUMP ON 3-1/2" CONCRETE PAD. COORDINATE EXACT LOCATION WITH OWNER.
7. PROVIDE 8"x8" ALUMINUM OUTDOOR AIR GRILLE EQUAL TO TITUS MODEL 301. PROVIDE WITH BIRD SCREEN AND TRANSISTION TO 8" DIA. DUCT.
8. PROVIDE CEILING RADIATION DAMPER AT DUCT PENETRATION OF RATED CEILING ASSEMBLY.
9. PROVIDE ROOF JACK FOR EXHAUST TERMINATION.




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

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THE RESERVES AT COBALT CIRCLE
NEW APARTMENT COMPLEX
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JOHN FREDERICK LEWIS — REGISTERED ARCHITECT — Corporate No. 12103 — STATE OF TENNESSEE — 1-20-2026

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**Project 24072** **05/09/2025**

**NOTES BY SYMBOL**

1. 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: 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 2.M1.1 FOR CONTINUATION
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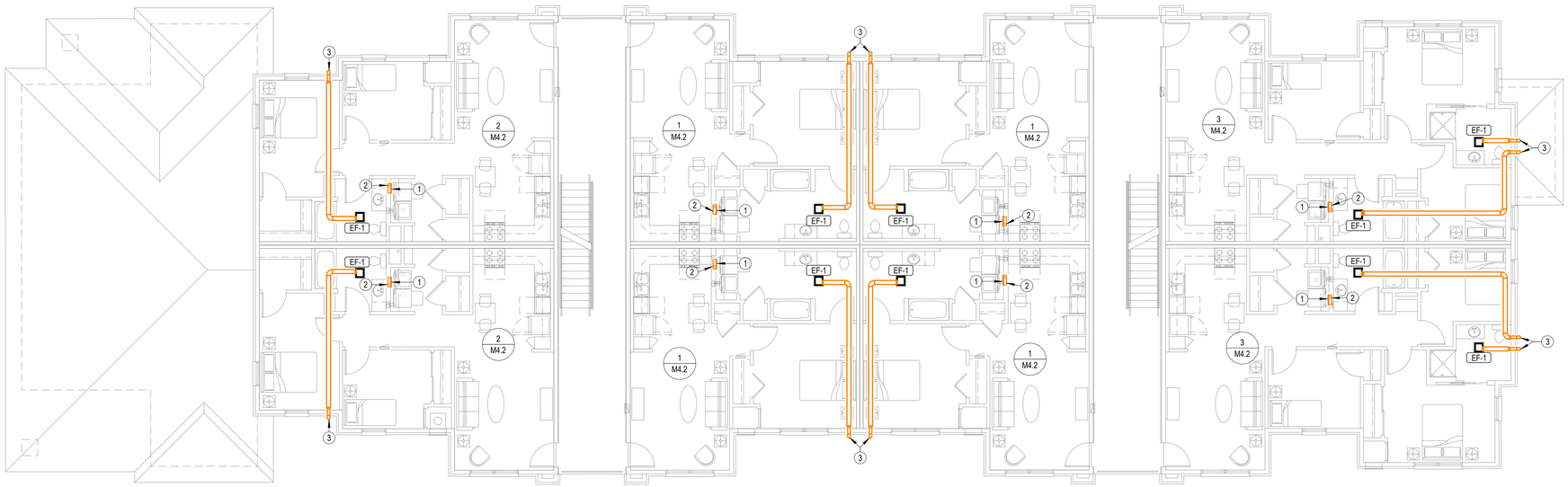


## 1 BUILDING A-THIRD FLOOR-HVAC PLAN
1/8" = 1'-0"

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**THE RESERVES AT COBALT CIRCLE**
**NEW APARTMENT COMPLEX**
**BROWNSVILLE**
**TENNESSEE**

JOHN FREDERICK LEWIS — REGISTERED ENGINEER — STATE OF TENNESSEE — Clements No. 121203 — 5-20-2026

REVISIONS:

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

**M1.2**

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Project 24072 05/09/2025

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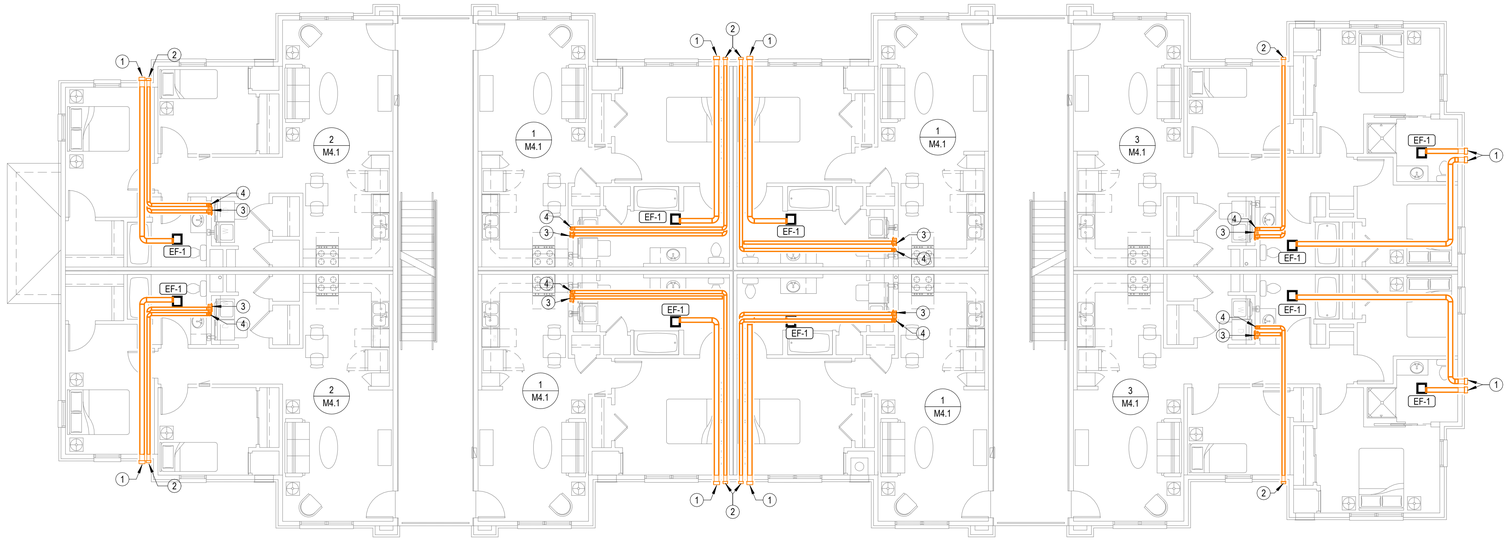


## 2 BUILDING B-SECOND FLOOR-HVAC PLAN

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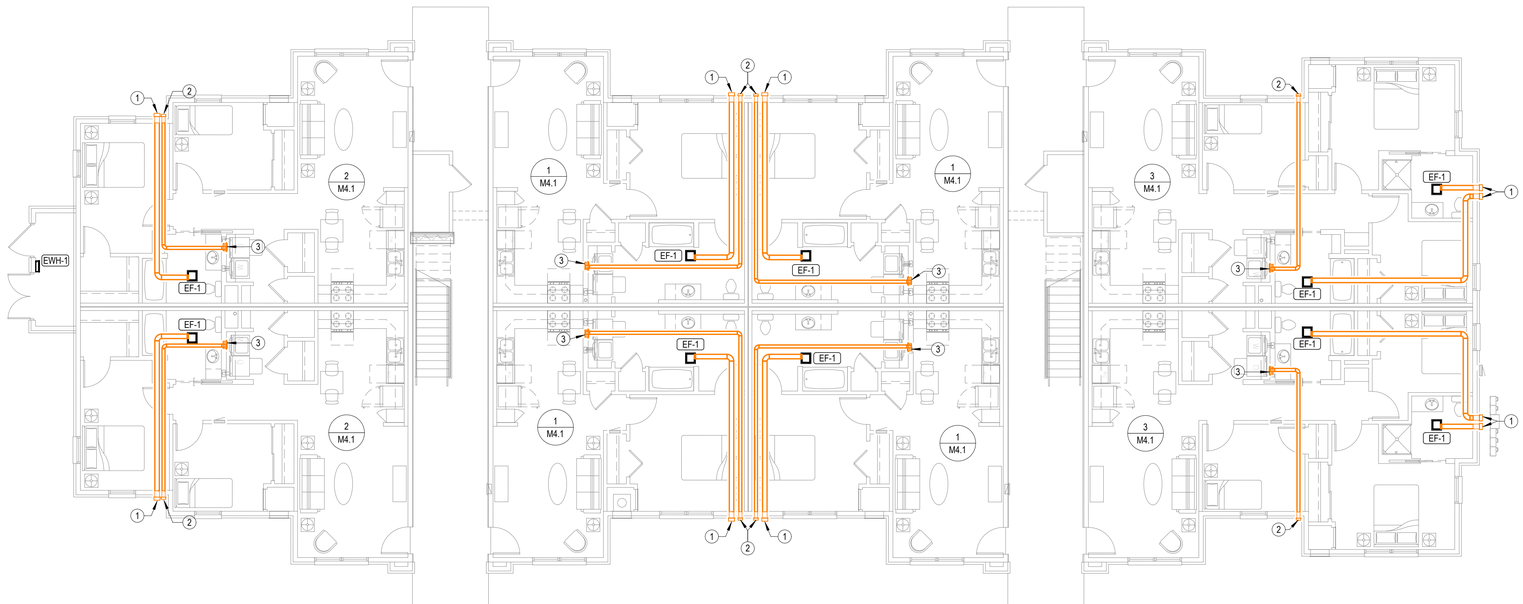


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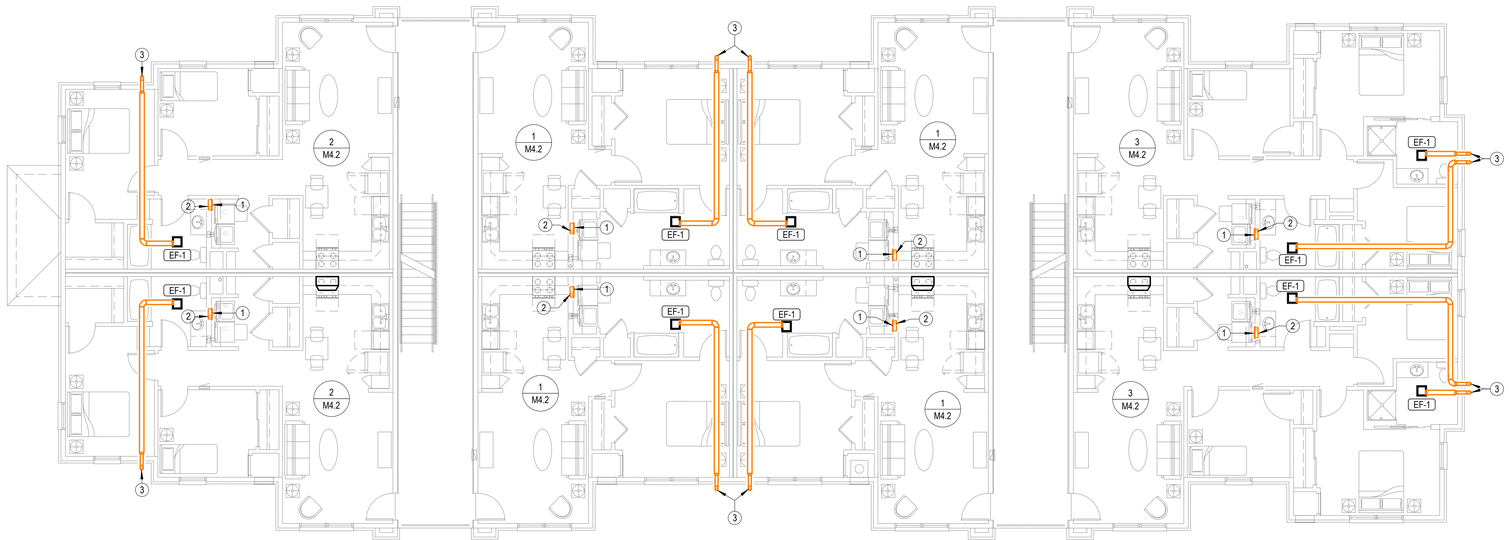


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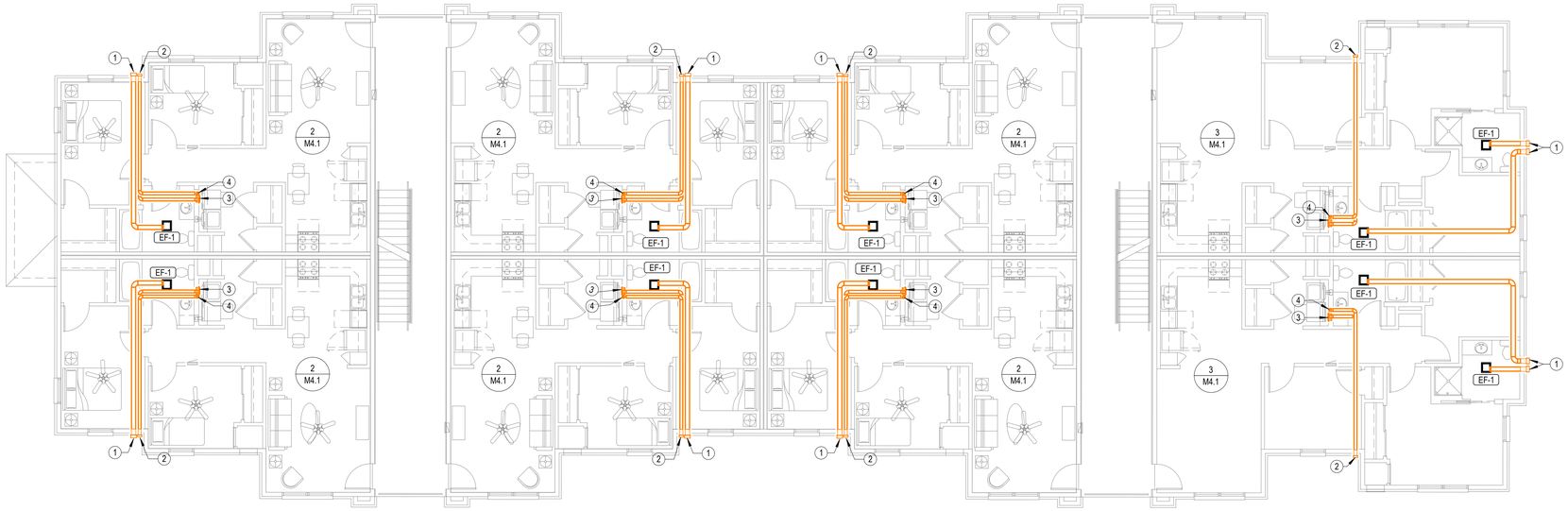


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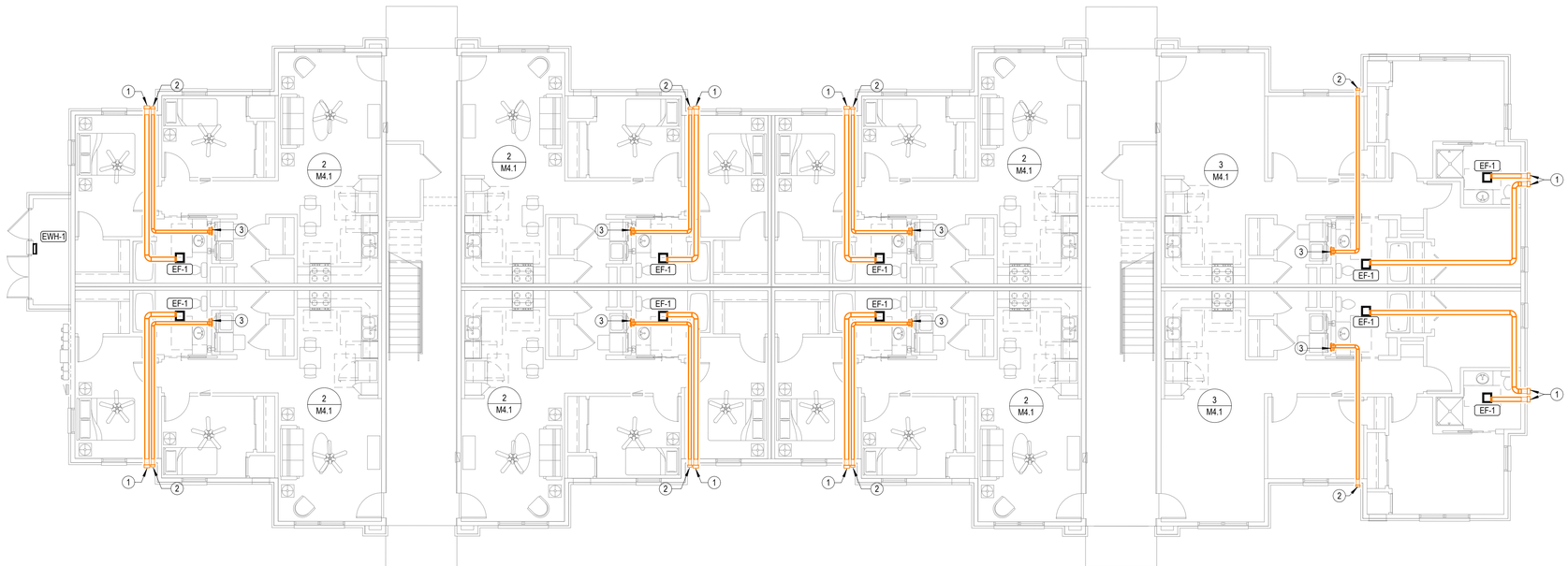


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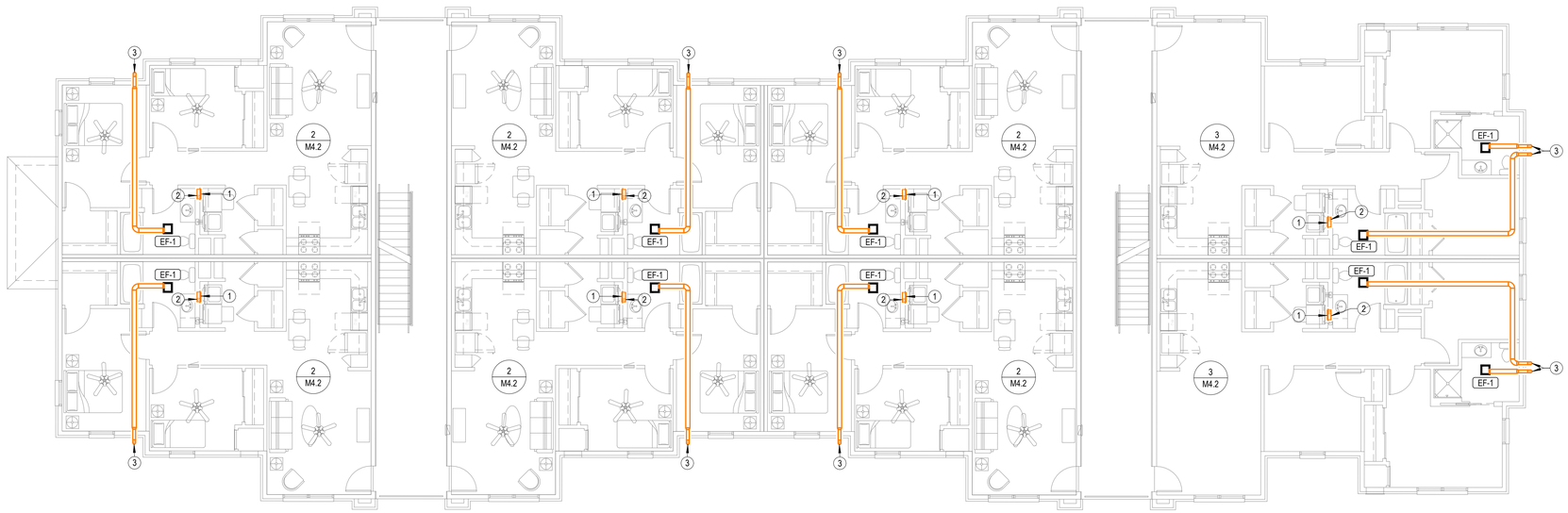


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JOHN FREDERICK LEWIS — REGISTERED ENGINEER — MECHANICAL — No. 121203 — STATE OF TENNESSEE — 12-3-2026

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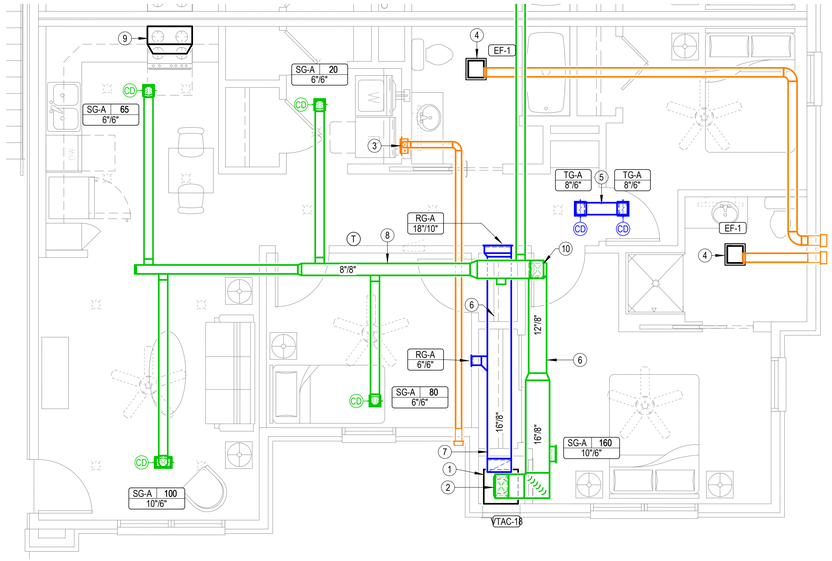
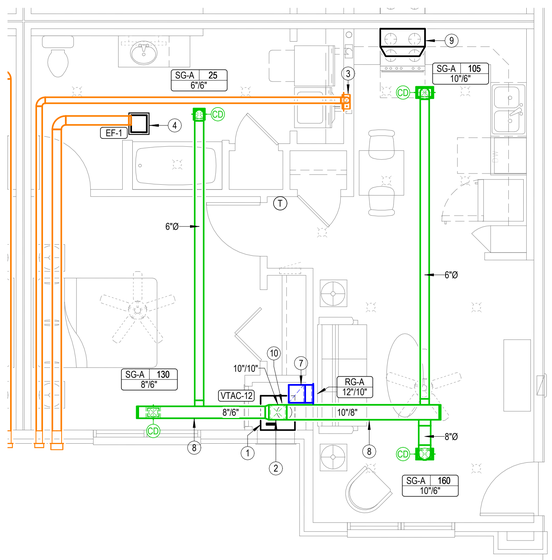
| 5 | LINED TRANSFER DUCT. |
| 6 | ROUTE DUCTWORK IN SOFFIT. COORDINATE EXACT LOCATION WITH G.C. AND ARCHITECT. |
| 7 | LINED RETURN DUCT TERMINATED WITH ELBOW DOWN IN VTAC CLOSET. |
| 8 | SUPPLY DUCT ROUTED HIGH BETWEEN JOISTS. |
| 9 | RECIRCULATING RANGE HOOD BY OTHERS. |
| 10 | ROUTE DUCTWORK UP INTO 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"

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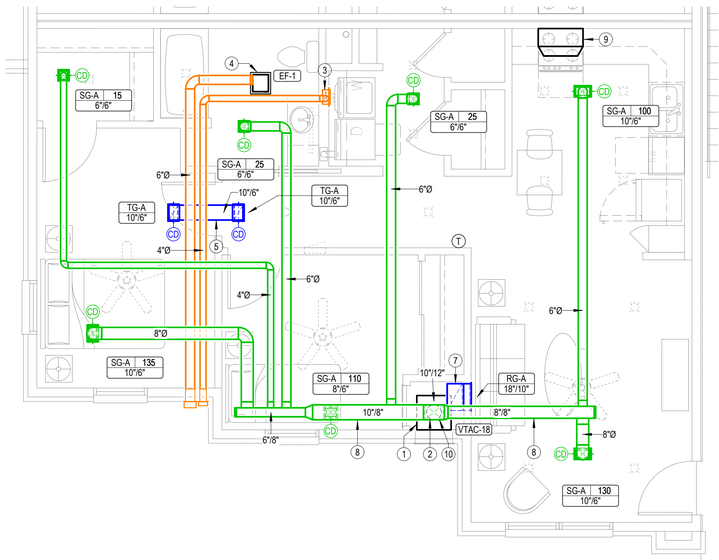


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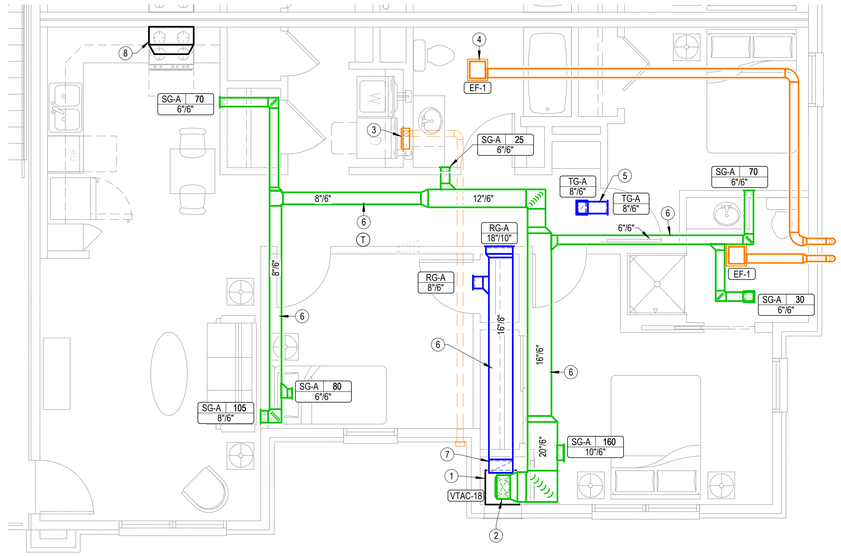


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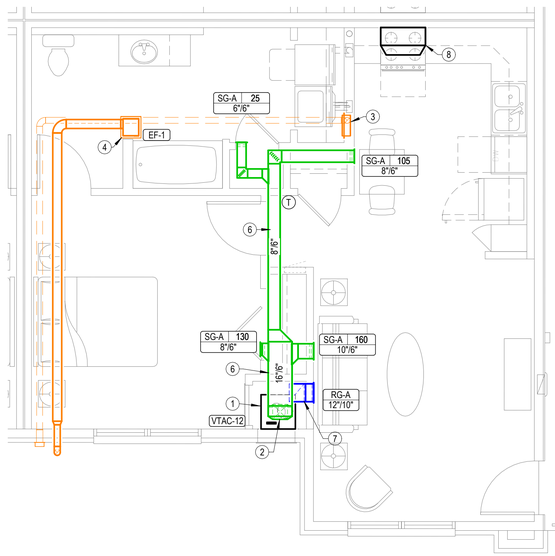


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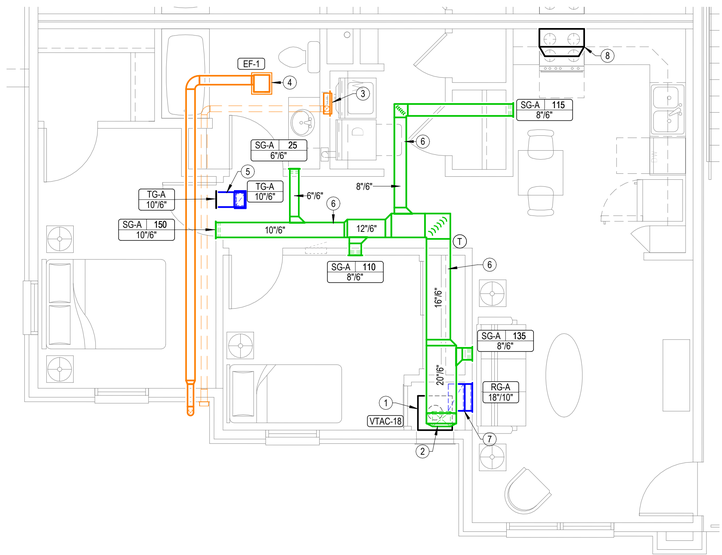


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# THE RESERVES AT COBALT CIRCLE
## NEW APARTMENT COMPLEX
## BROWNSVILLE TENNESEE

## VERTICAL PACKAGED TERMINAL AIR CONDITIONER SCHEDULE

| MARK | MANUFACTURER | MODEL NUMBER | COOLING | | | | | | HEATING | | | AIRFLOW | ESP | FAN SPEED | ELECTRICAL | | | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OA DB | ENT DB | ENT WB | SENSIBLE COOLING | TOTAL COOLING | SEER2 | TOTAL HEATING | HSPF2 | ELECTRIC HEAT OUTPUT | | | | MCA | MOCP | VOLTAGE | PHASE | |
| 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.
9. Provide with R-32 refrigerant.

## Heat Pump Schedule

| 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.

## Exhaust Fan Schedule

| Mark | Manufacturer | Model | CFM | ESP | Power | Electrical | | Notes |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Voltage | Phase | |
| 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.

## Blower Coil Schedule

| 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. Electrical heater shall not operate simultaneously with heat pump. Electric heater shall be used as back-up heat only.

## Electric Wall Heater Schedule

| 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.

## Grilles, Registers & Diffusers Schedule

| ID Type | Manufacturer | Model | Application | | | | Mounting | Include Damper | Product Specification |
|---|---|---|---|---|---|---|---|---|---|
| | | | Supply | Return | Exhaust | 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.

## Electric Unit Heater Schedule

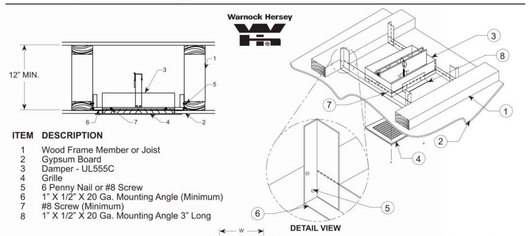
| Mark | Manufacturer | Model | Mounting | Watts | Voltage | Phase | Description | Notes |
|---|---|---|---|---|---|---|---|---|
| EH-1 | Berko | RUX300812 | Unit | 3.0 kW | 208 V | 1 | Explosion proof heater | 1,2,3,4 |

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.

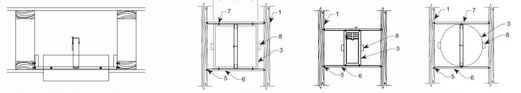
**METAL-FAB INC.**

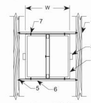
**INSTALLATION INSTRUCTION SUPPLEMENT**
**MODELS MRCD MSCD & MCCD**
**GYPSUM BOARD/WOOD TRUSS INSTALLATION**

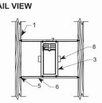
Warnock Hersey

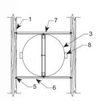


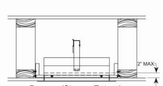

| ITEM | DESCRIPTION |
|---|---|
| 1 | Wood Frame Member or Joist |
| 2 | Gypsum Board |
| 3 | Damper - UL555C |
| 4 | Grille |
| 5 | 6 Penny Nail or #8 Screw |
| 6 | 1" X 1/2" X 20 Ga. Mounting Angle (Minimum) |
| 7 | #8 Screw (Minimum) |
| 8 | 1" X 1/2" X 20 Ga. Mounting Angle 3" Long |

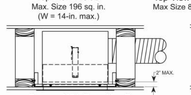

Damper With Extention Sleeve

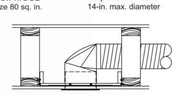

Top View MSCD
Max. Size 196 sq. in.
(W = 14-in. max.)


Top View MCCD
Max Size 80 sq. in.


Top View MRCD
14-in. max. diameter


Damper/Sleeve Extention
Allows Clearance Fit For Register


Damper With Transition Box
(L521, L546, P522 Assembly)


Damper With Transition Boot

**NOTE:** 30 gauge steel or thicker recommended for Transition Box or Boot.

**INSTALLATION:**

A. Measure spacing between framing members and cut the mounting angle (two required) to that length plus 6 inches. Cut the 1 inch side of each mounting angle approximately 3 inches from each end of the mounting angle and bend angle up 90° at both ends as shown in detailed view above. Attach angles to wood frame with minimum of two each #6 penny nails or #8 screws.

B. Attach the ceiling damper (or metal surrounds such as sleeve, transition box or boot) to the mounting angles using screws or rivets. A minimum of 2 fasteners per mounting angle is required for rectangular dampers. A minimum of one fastener is required for round dampers.

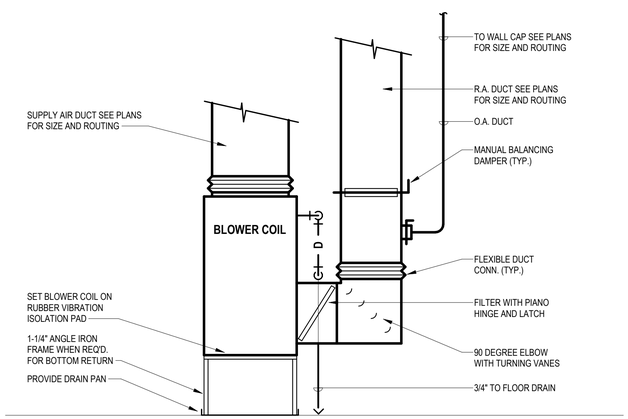
C. On the sides adjacent to the retaining angles, a 3-inch long mounting angle is required. A minimum of two fasteners is required to attach the mounting angles to damper. Bottom leg of mounting angle should rest on the ceiling material.

⚠1 **IMPORTANT: FASTENERS USED TO ATTACH MOUNTING ANGLES TO DAMPER SHALL NOT INTERFERE WITH DAMPER BLADE MOTION.**

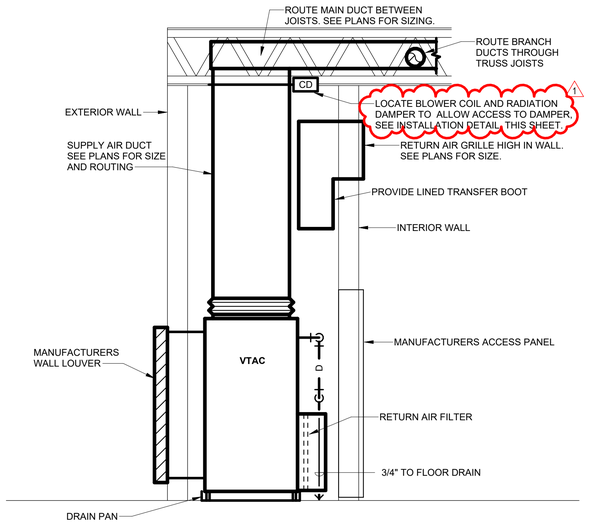
D. If damper has an adjustable volume control, the 2 fuse links (shipped loose with damper) must be installed on damper for proper operation.

E. Cycle damper after installation is completed.

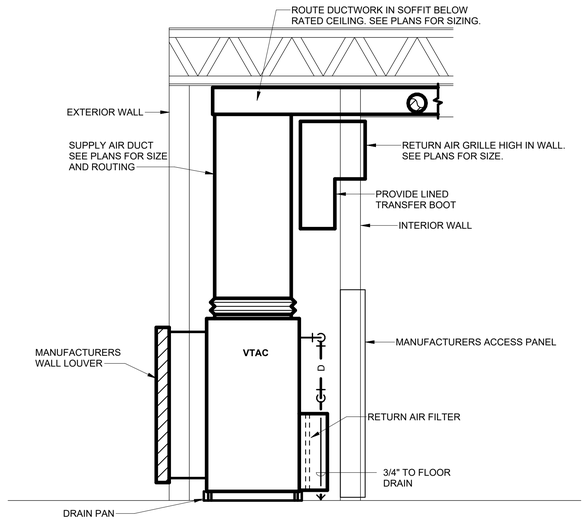





**1 BLOWER COIL DETAIL**
NO SCALE




**2 VTAC COIL DETAIL**
NO SCALE




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

REVISIONS:
1 01-20-2026 ASI #8

DATE: 05/09/2025
JOB: 24-3446
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**M6.1**

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Project 24072 05/09/2025

## General Plan Symbols

Plan Revision Number

Detail Number on Sheet
Sheet Number Where Detail is Placed

Keynote Symbol

Continuation Symbol

Point Where New Connects To Existing

Room Name / Number

Area Being Demolished

Area Not In Contract

Electrical Equipment
Do not route HVAC installation above or below equipment.
Maintain working clearance as indicated by dashed line.

## Abbreviations

| | | | |
|---|---|---|---|
| Ø | ROUND | LVR | LOUVER |
| ABV | ABOVE | LWT | LEAVING WATER TEMPERATURE |
| AC | AIR CONDITIONING | M/A | 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 | NOISE CRITERIA |
| CAP | CAPACITY | NC | NORMALLY CLOSED |
| CB | CATCH BASIN | NIC | NOT IN CONTRACT |
| CFM | CUBIC FEET PER MINUTE | NO | NUMBER |
| CLG | CEILING | NO | NORMALLY OPEN |
| CO | CLEAN OUT | NTS | NOT TO SCALE |
| CW | COLD WATER | O | OXYGEN |
| D | DEGREE | O/A | OUTSIDE AIR |
| DB | DRY BULB | ORD | OVERFLOW ROOF DRAIN |
| DIA | DIAMETER | PD | PRESSURE DROP |
| DN | DOWN | PIV | POST INDICATOR VALVE |
| DW | DISTILLED WATER | PLBG | PLUMBING |
| EA | EACH | PRESS | PRESSURE |
| EAT | ENTERING AIR TEMPERATURE | PRV | PRESSURE REDUCING VALVE |
| ELEC | ELECTRICAL | PSI | POUNDS PER SQUARE INCH |
| EQUIP | EQUIPMENT | PSIG | POUNDS PER SQUARE INCH GAUGE |
| EWC | ELECTRIC WATER COOLER | PWR | POWER |
| EWT | ENTERING WATER TEMPERATURE | R | DUCT RISER |
| E/A | EXHAUST AIR | R/A | RETURN AIR |
| EXIST | EXISTING | RCP | RADIANT CEILING PANEL |
| F | DEGREES FAHRENHEIT | RD | ROOF DRAIN |
| FCO | FLOOR CLEAN OUT | REC | RECESSED |
| FD | FLOOR DRAIN | RED | REDUCER |
| FDC | FIRE DEPARTMENT CONNECTION | RH | RELATIVE HUMIDITY |
| FL | FLOOR | RL/A | RELIEF AIR |
| FO | FUEL OIL | RM | ROOM |
| FOV | FUEL OIL VENT | RPM | REVOLUTIONS PER MINUTE |
| FOR | FUEL OIL RETURN | RW | RAIN WATER |
| FOS | FUEL OIL SUPPLY | SF | SQUARE FOOT |
| FPM | FEET PER MINUTE | S/A | SUPPLY AIR |
| FS | FLOOR SINK | SAN | SANITARY |
| FT | FOOT/FEET | SF | SQUARE FOOT |
| FTR | FIN TUBE RADIATION | SD | SMOKE DAMPER |
| GAL | GALLON | SM | SURFACE MOUNT |
| GF | GAS-FIRED | SP | STANDPIPE |
| GC | GENERAL CONTRACTOR | SP | STATIC PRESSURE |
| GPM | GALLONS PER MINUTE | STM | STEAM |
| GW | GREASE WASTE | T | THERMOSTAT |
| HB | HOSE BIB | TD | TEMPERATURE DROP |
| HP | HORSE POWER | TDR | TRENCH DRAIN |
| 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 |
| LB/HR | 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 | PRV | POWER ROOF VENTILATOR |
| DBP | DOMESTIC WATER BOOSTER PUMP | RE | RETURN/EXHAUST FAN |
| DC | DUCT MOUNTED COIL | RTU | ROOFTOP UNIT |
| DCP | DOMESTIC WATER CIRCULATING PUMP | SP | SUMP PUMP |
| EF | EXHAUST FAN | UH | UNIT HEATER |
| EDC | ELECTRIC DUCT COIL | 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.

## Plumbing Symbols

- Nominal Pipe Size
- Above Ground Piping
- Below Ground Piping
- 1/8" / 12" SLOPE — Pipe Slope (When Applicable)
- (E) — Existing Pipe To Remain
- Pipe To Be Demolished
- CW — Domestic Cold-Water
- NPW — Non-Potable Water
- S-CW — Soft Cold-Water
- F-CW — Filtered Cold-Water
- RO — Reverse Osmosis Water
- HW — Domestic Hot-Water
- HW 140° — Domestic Hot-Water 140°
- HW-R — Hot-Water Recirculation
- HW-R 140° — Hot-Water Recirculation 140°
- SS — Sanitary Drain
- V — Sanitary Vent
- RD — Radon Mitigation
- WV — Sanitary Wet Vent
- CWV — Combination DWV
- CD — Condensate Drain
- ID — Indirect Drain
- GW — Grease Waste
- GV — Grease Vent
- PD — Pump Discharge
- SD — Storm Drain
- OSD — Storm Overflow
- CA — Compressed Air
- G — Natural Gas
- LP — Liquid Propane
- Pipe Rise / Drop

**Pipe Accessory Notes**

- 4" FCO — Cleanout
- 2" CHECK — Check Valve
- 2" BALANCE — Balancing Valve
- 2" CIRC — Circuit Setter
- 2" GATE — Gate Valve
- 2" S/O — Ball Valve
- 2" STRAIN — Fluid Strainer
- S — 1" GAS-CNTRL — Emergency Gas Shutoff
- 1" PLUG — Plug Valve
- 1" GAS COCK — Gas Shutoff Cock
- 1" REG — Gas Regulator
- T/P — 1" T/V — Thermostatic Valve
- T/P — TMV-XT/P — Mixing Valve
- EM — TMVEM — Emergency Mixer
- 2" PRV — Pressure Reducing Valve
- W — 2 1/2" METER — Water Meter
- Double Check Valve
- Reduced Pressure Zone

**Plumbing Fixture Notes**

- Floor Drain — Design Size
- 2" FD-A — Identity Type
- 2 DFU — Drainage Fixture Units
- Floor Drain w/ Deep Seal Trap
- Floor Drain w/ Trap Primer "P" Indicates Primer Connection
- 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 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 | WASTE AND VENT BUILDING C |
| P1.6 | WASTE AND VENT BUILDING C |
| P1.7 | DOMESTIC WATER - BUILDING A AND B |
| P1.8 | DOMESTIC WATER - BUILDING C |
| 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***

A. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
B. PITCH UNDERFLOOR SANITARY WASTE PIPING OVER 2" AT 1/8" PER FOOT, 2" AND SMALLER AT 1/4" PER FOOT.
C. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
D. ROUTE DOMESTIC WATER, AND SANITARY SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
E. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.
F. 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.
G. 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.
H. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
I. 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.
J. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE U.L. LISTED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES.
K. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
L. 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.
M. TRANSITION FROM PIPING SIZES SHOWN TO PROPERLY CONNECT TO EQUIPMENT.
N. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
O. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
P. INSTALL EXPOSED PIPING AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
Q. 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.
R. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
S. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

***GENERAL PLUMBING DEMOLITION NOTES***

A. 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.
B. WHERE PIPING TAKEN OUT OF SERVICE IS LOCATED BELOW SLAB AND IS UNABLE TO BE REMOVED, CAP BELOW SLAB.
C. COORDINATE CUTTING, PATCHING OF EXISTING WALLS, CEILINGS, ROOF AND FLOORS AFFECTED BY MECHANICAL DEMOLITION WITH G.C.
D. ALL EQUIPMENT TAKEN OUT OF SERVICE SHALL BE REMOVED. EQUIPMENT SHALL BE DELIVERED TO OWNER OR DISPOSED OF AS DIRECTED BY OWNER.
E. 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.
F. SERVICES TO ITEMS NOT REMOVED AS PART OF THIS WORK SHALL BE RESTORED UPON COMPLETION OF THIS WORK TO FULLY OPERATIONAL CONDITION.
G. NOT ALL ITEMS REQUIRED TO BE DEMOLISHED MAY BE INDICATED ON DRAWINGS. ALL DEMOLITION OF AFFECTED SPACE SHALL BE PERFORMED AS IF INDICATED.
H. FIELD VERIFY EXACT LOCATION OF ALL EXISTING PLUMBING INSTALLATION INDICATED ON DRAWINGS.
I. 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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THE RESERVES AT COBALT CIRCLE
NEW APARTMENT COMPLEX
BROWNSVILLE
TENNESEE


REVISIONS:

| | | |
|---|---|---|
| 1 | 10-14-2025 | ASI #2 |
| 2 | 12-3-2025 | ASI #5 |

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

P0.1

**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.


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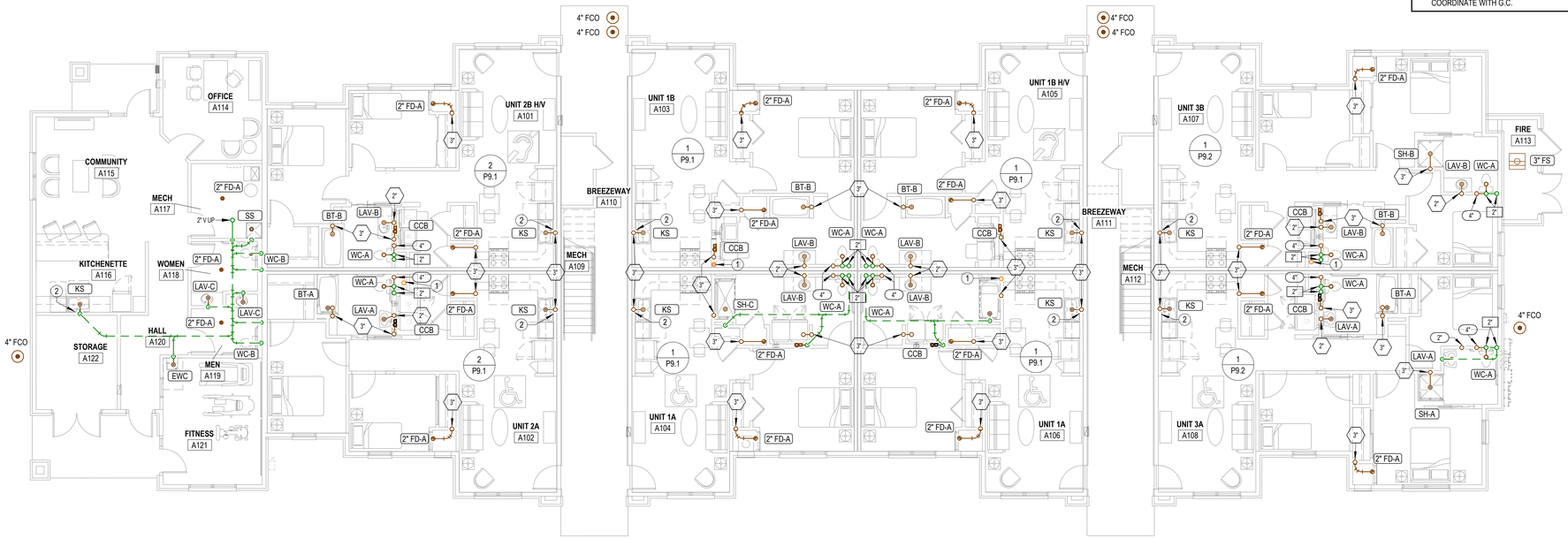
**Project 24072** **05/09/2025**

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

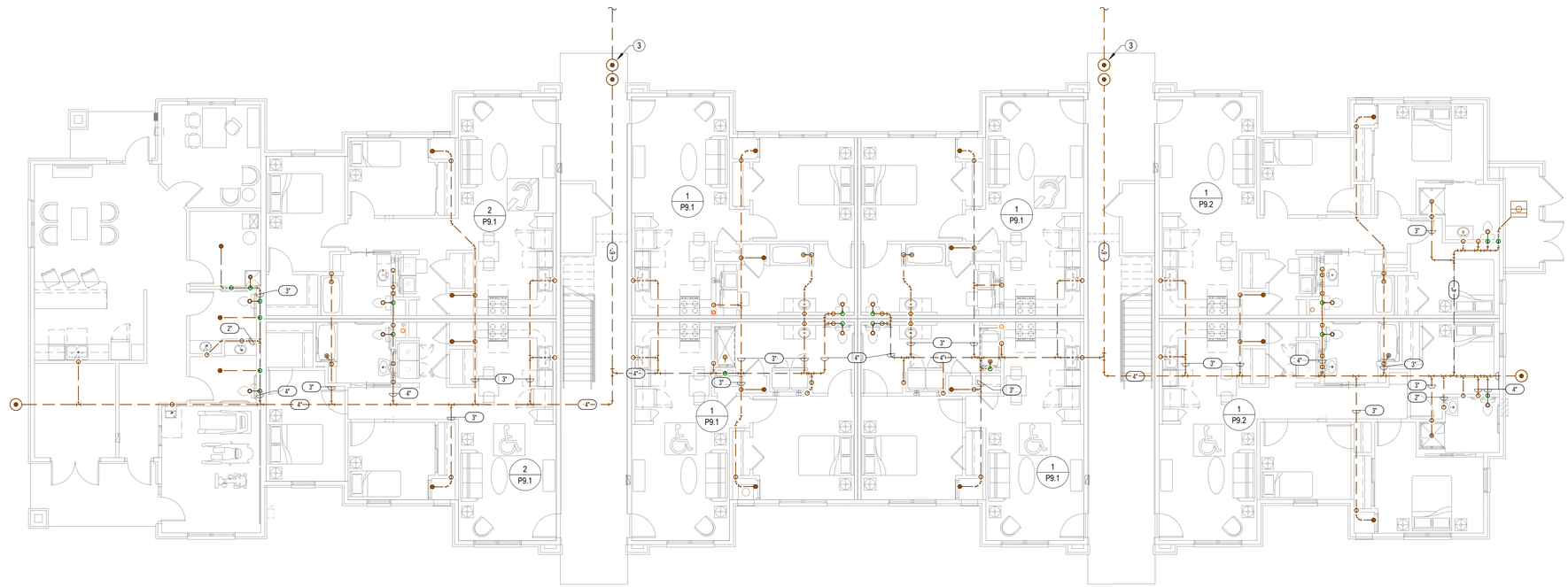
**NOTES BY SYMBOL**

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.
3. 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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**THE RESERVES AT COBALT CIRCLE**

**NEW APARTMENT COMPLEX**

**BROWNSVILLE TENNESSEE**

JOHN FREDERICK LEWIS — REGISTERED ARCHITECT — STATE OF TENNESSEE — Number 12103 — 10-30-2026

| REVISIONS: | | |
|---|---|---|
| 1 | 10-29-2025 | ASI #3 |
| 2 | 10-30-2025 | ASI #4 |

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

**P1.1**

**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.


**LST Consulting Engineers, PA**

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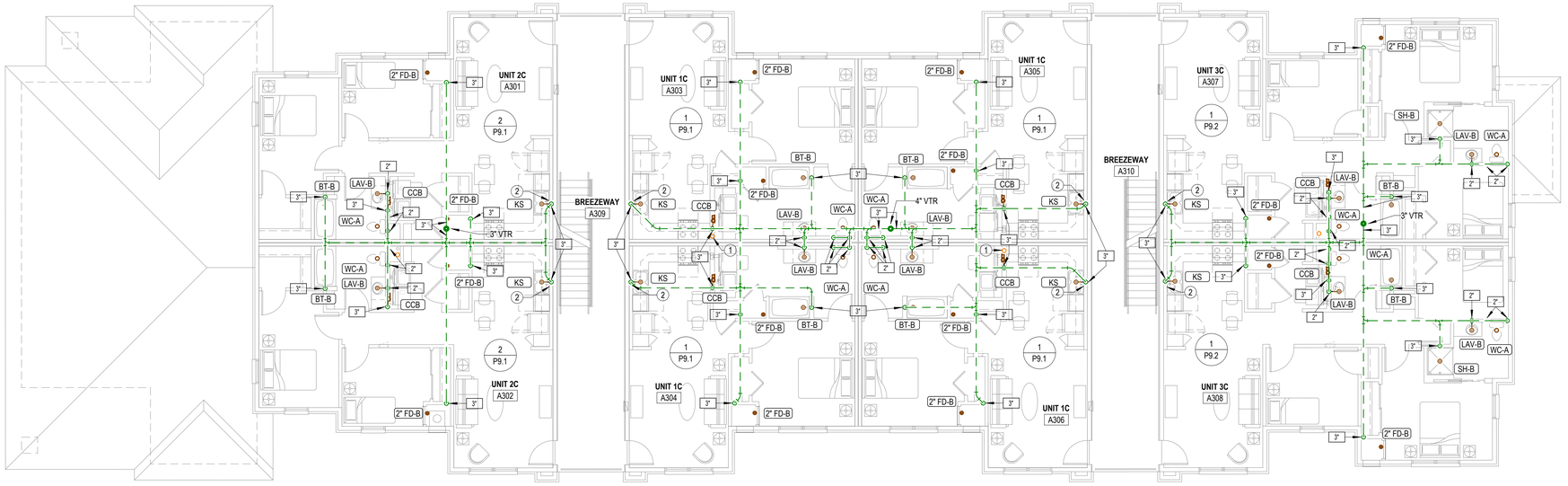
**Project 24072** **05/09/2025**

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

**NOTES BY SYMBOL**

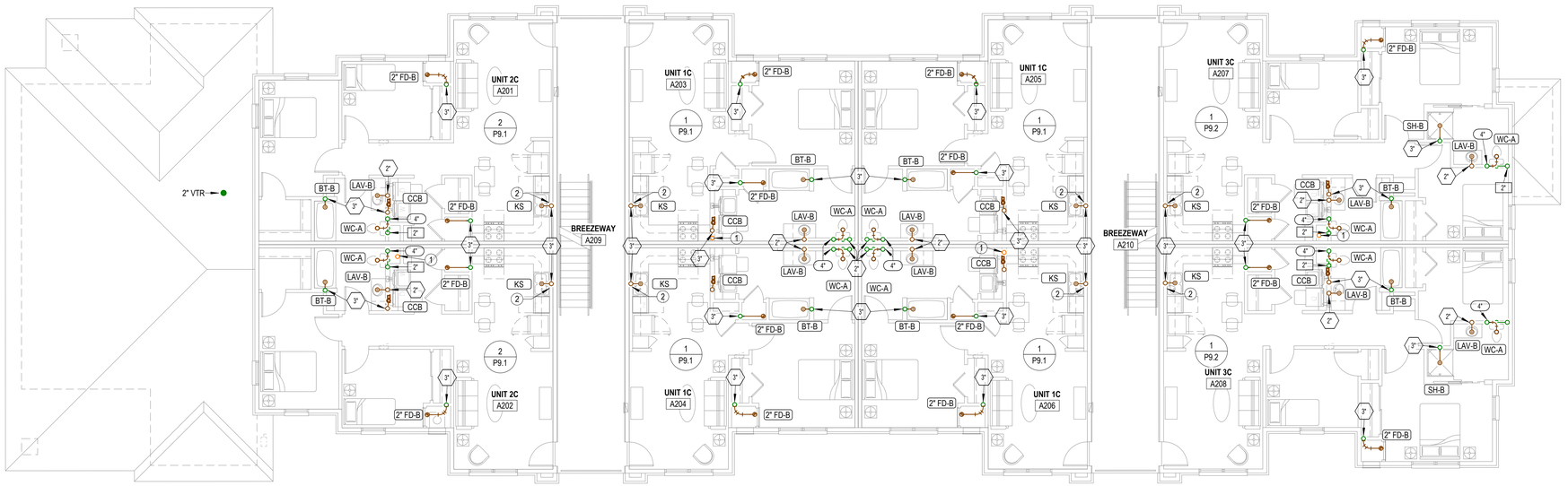
1 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.

2 PROVIDE INDIRECT CONNECTION AT GARBAGE DISPOSER AND CONNECT DISHWASHER. ROUTE DRAIN FROM DISHWASHER AT BACK OF CABINETRY. COORDINATE EXACT ROUTING WITH G.C.




## 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"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THE RESERVES AT COBALT CIRCLE

NEW APARTMENT COMPLEX

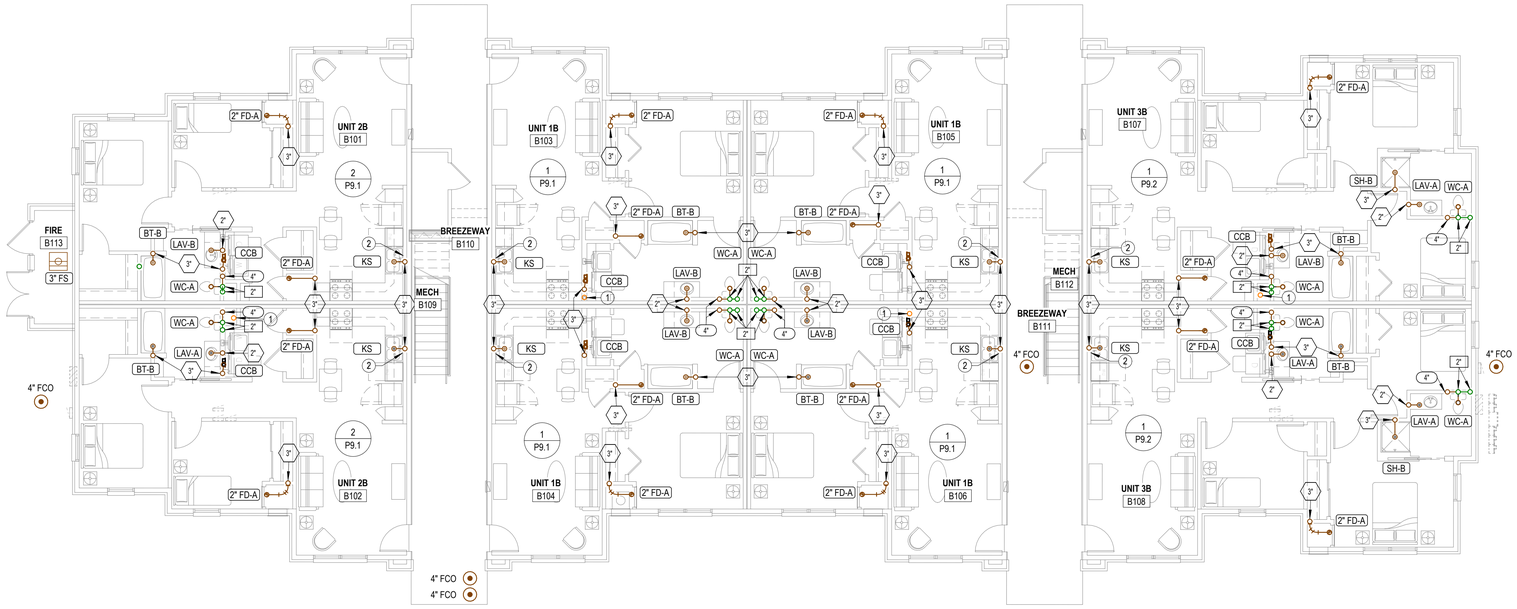
BROWNSVILLE TENNESSEE

JOHN FREDERICK LEWIS — REGISTERED ARCHITECT — STATE OF TENNESSEE — No. 12101 — 5-20-2026

| REVISIONS: | | |
|---|---|---|
| 1 | 10-30-2025 | ASI #4 |

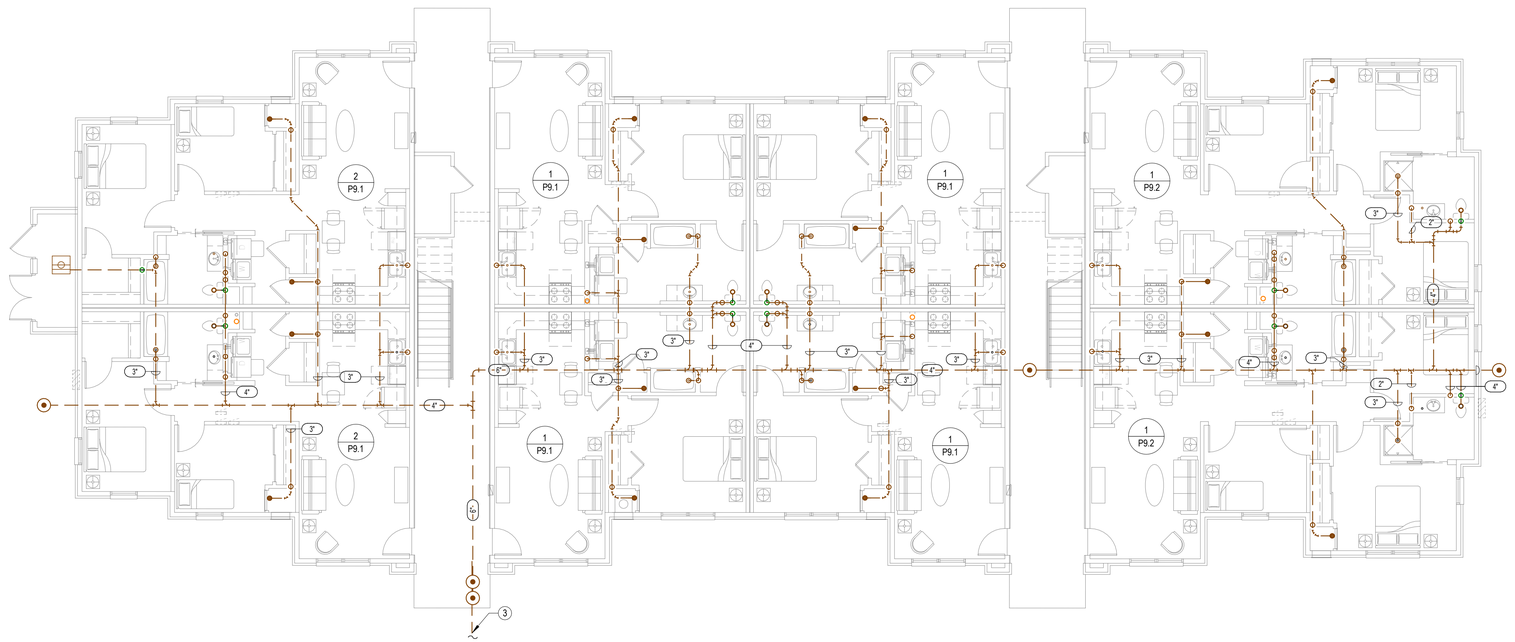
DATE: 05/09/2025
JOB: 24-3446
SHEET NO.:

**P1.2**




## 2 BUILDING B-FIRST FLOOR-WASTE AND VENT PLAN

1/8" = 1'-0"




## 1 BUILDING B-UNDERFLOOR-WASTE AND VENT PLAN

1/8" = 1'-0"

**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.

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Project 24072 05/09/2025

| 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.
3. SEE ME1.0 FOR CONTINUATION.

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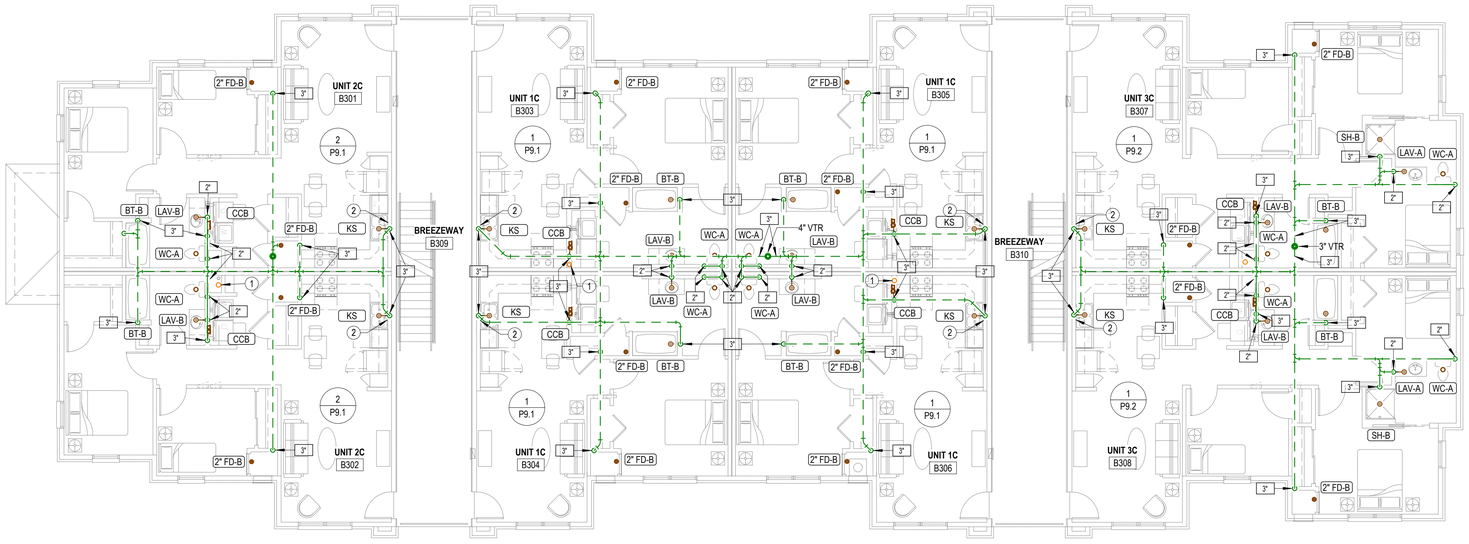
THE RESERVES AT COBALT CIRCLE
NEW APARTMENT COMPLEX
BROWNSVILLE
TENNESEE

JOHN FREDERICK LEWIS — REGISTERED ARCHITECT — Certificate No. 12103 — STATE OF TENNESSEE — 12-3-2026

REVISIONS:
1 12-3-2025 ASI #5

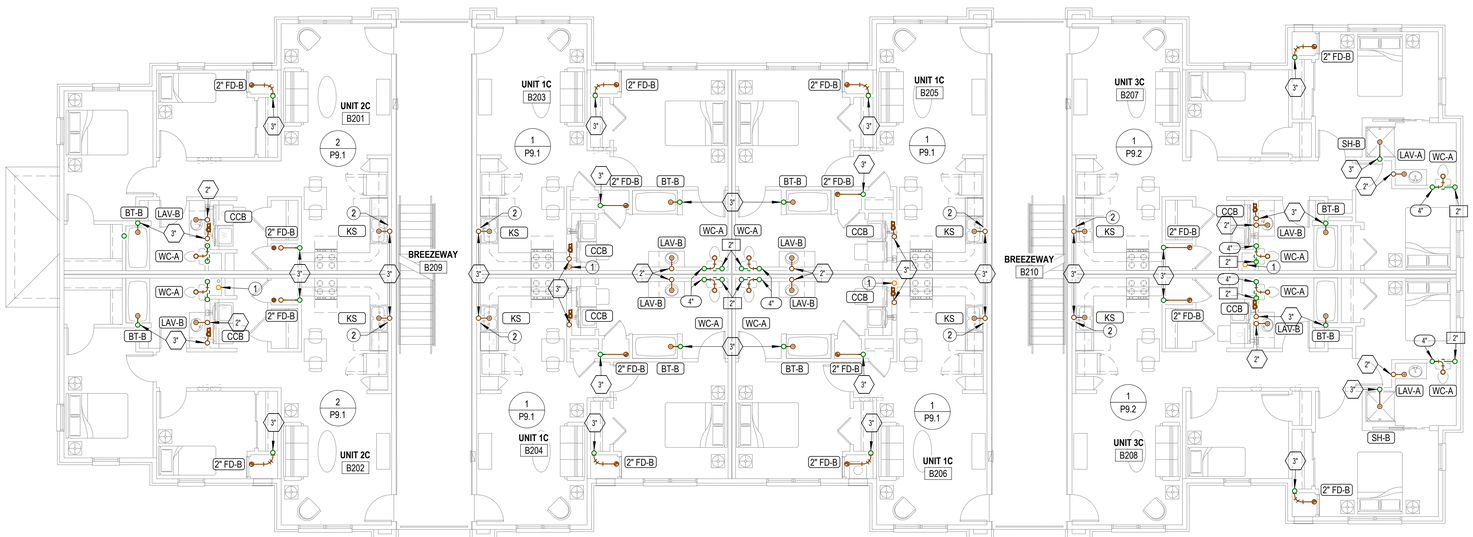
DATE: 05/09/2025
JOB: 24-3446
SHEET NO.:

P1.3




## 2 BUILDING B-THIRD FLOOR-WASTE AND VENT PLAN

1/8" = 1'-0"




## 1 BUILDING B-SECOND FLOOR-WASTE AND VENT PLAN

1/8" = 1'-0"

**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.
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**Project 24072** **05/09/2025**

| 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.


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**THE RESERVES AT COBALT CIRCLE**

**NEW APARTMENT COMPLEX**

**BROWNSVILLE TENNESSEE**

REVISIONS:

| | | |
|---|---|---|
| 1 | 12-3-2025 | ASI #5 |

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

**P1.4**

**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.
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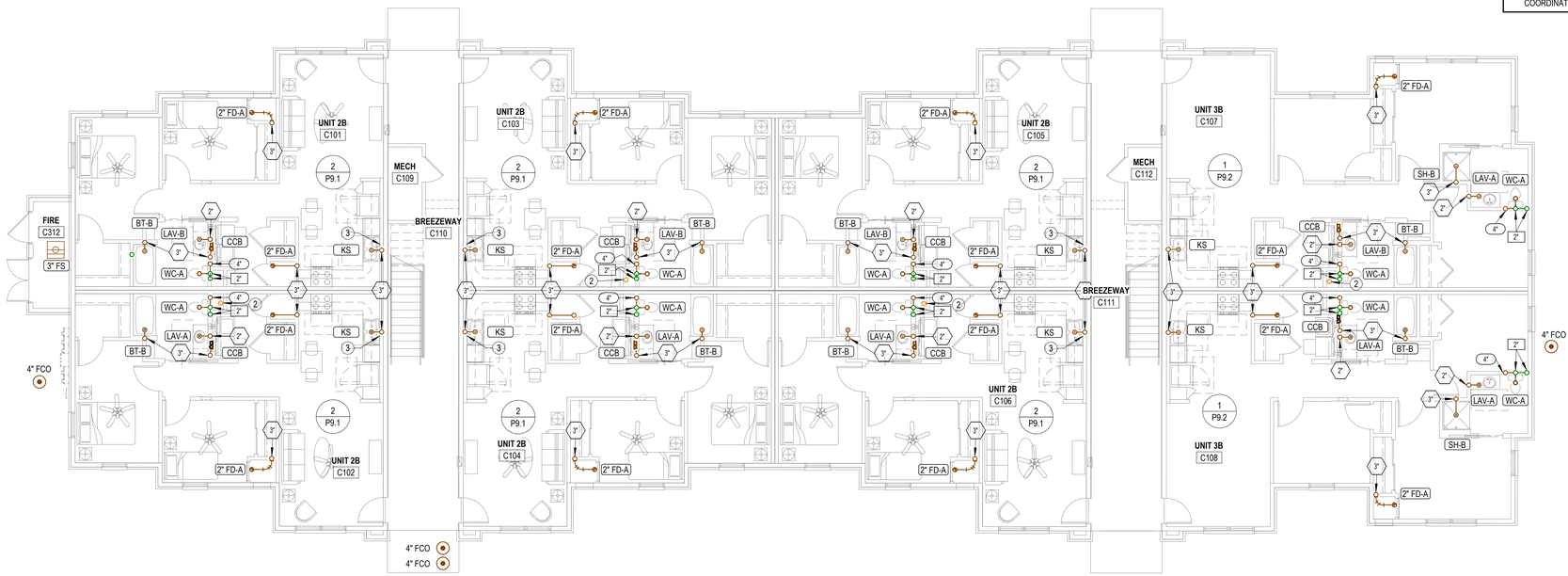
**Project 24072** **05/09/2025**

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

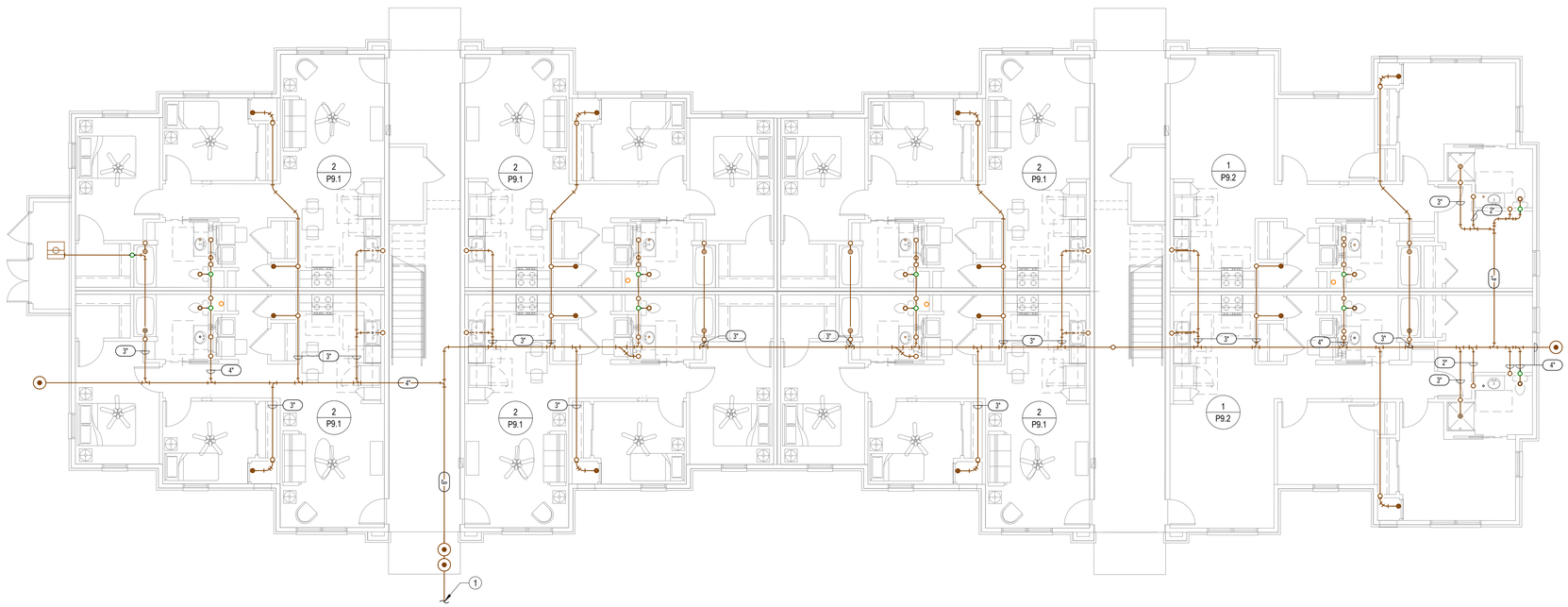
**NOTES BY SYMBOL**

1 SEE ME1.0 FOR CONTINUATION.
2 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
3 PROVIDE INDIRECT CONNECTION AT GARBAGE DISPOSER AND CONNECT DISHWASHER. ROUTE DRAIN FROM DISHWASHER AT BACK OF CABINETRY. COORDINATE EXACT ROUTING WITH G.C.




## 2 BUILDING C-FIRST FLOOR-WASTE AND VENT PLAN

1/8" = 1'-0"



## 1 BUILDING C-UNDERFLOOR-WASTE AND VENT PLAN

1/8" = 1'-0"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**THE RESERVES AT COBALT CIRCLE**

**NEW APARTMENT COMPLEX**

**BROWNSVILLE TENNESSEE**

REVISIONS:
1 12-3-2025 ASI #5

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

**P1.5**

**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.
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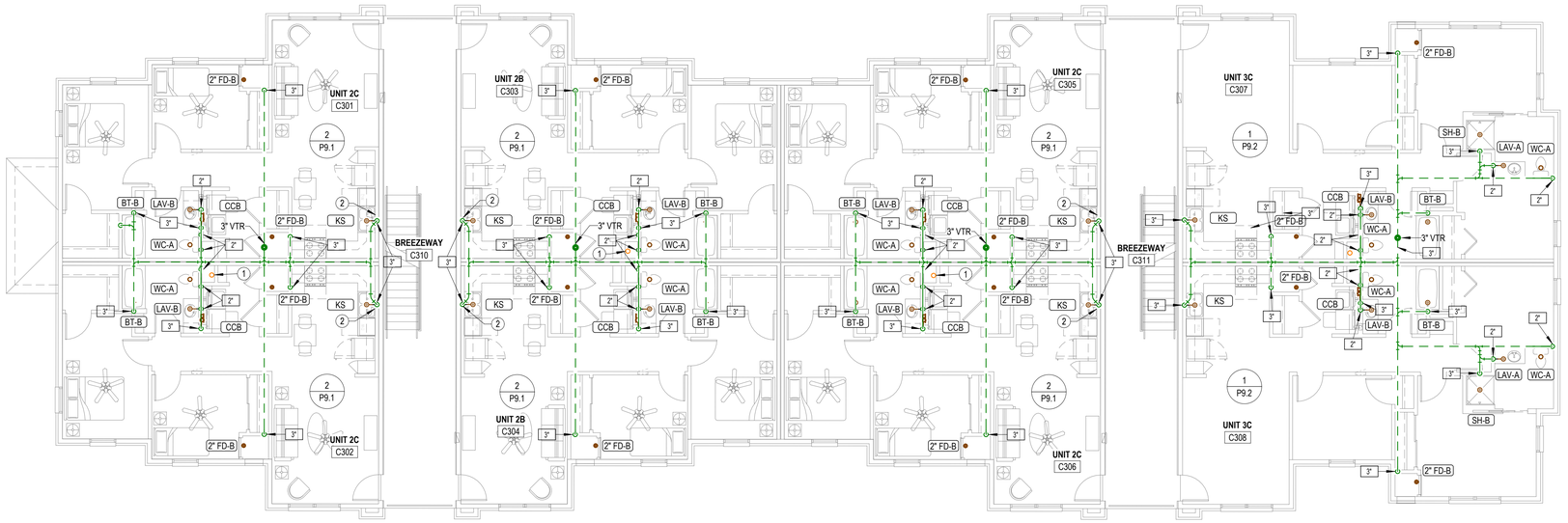
**Project 24072** **05/09/2025**

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

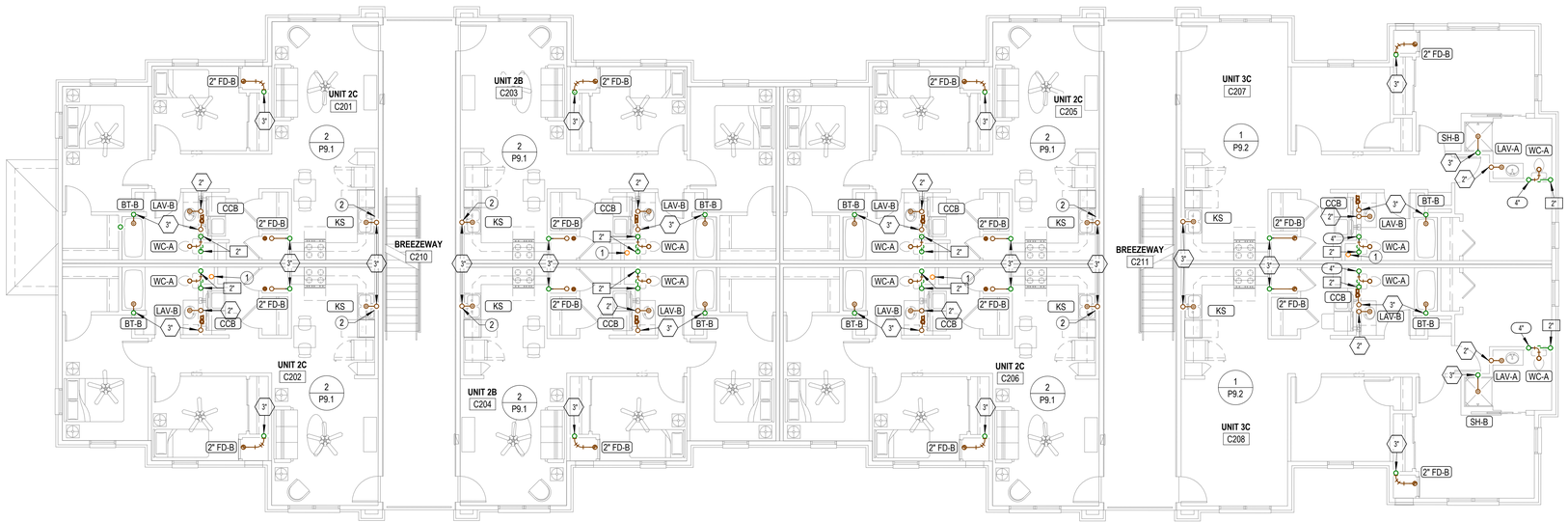
**NOTES BY SYMBOL**

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.




## 2 BUILDING C-THIRD FLOOR-WASTE AND VENT PLAN

1/8" = 1'-0"




## 1 BUILDING C-SECOND FLOOR-WASTE AND VENT PLAN

1/8" = 1'-0"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**THE RESERVES AT COBALT CIRCLE**

**NEW APARTMENT COMPLEX**

**BROWNSVILLE TENNESSEE**

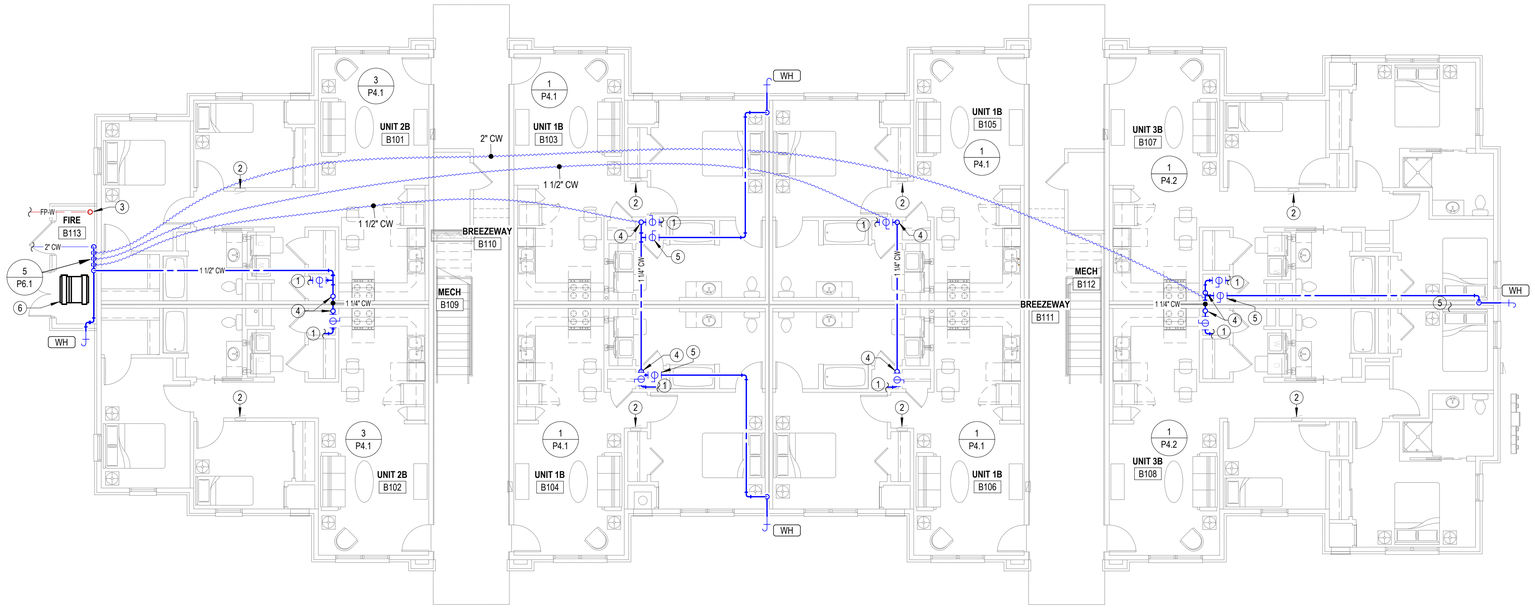
JOHN FREDERICK LEITZ
REGISTERED ENGINEER
Certificate No. 121203
STATE OF TENNESSEE
5-20-2026

REVISIONS:

| | | |
|---|---|---|
| 1 | 12-3-2025 | ASI #5 |

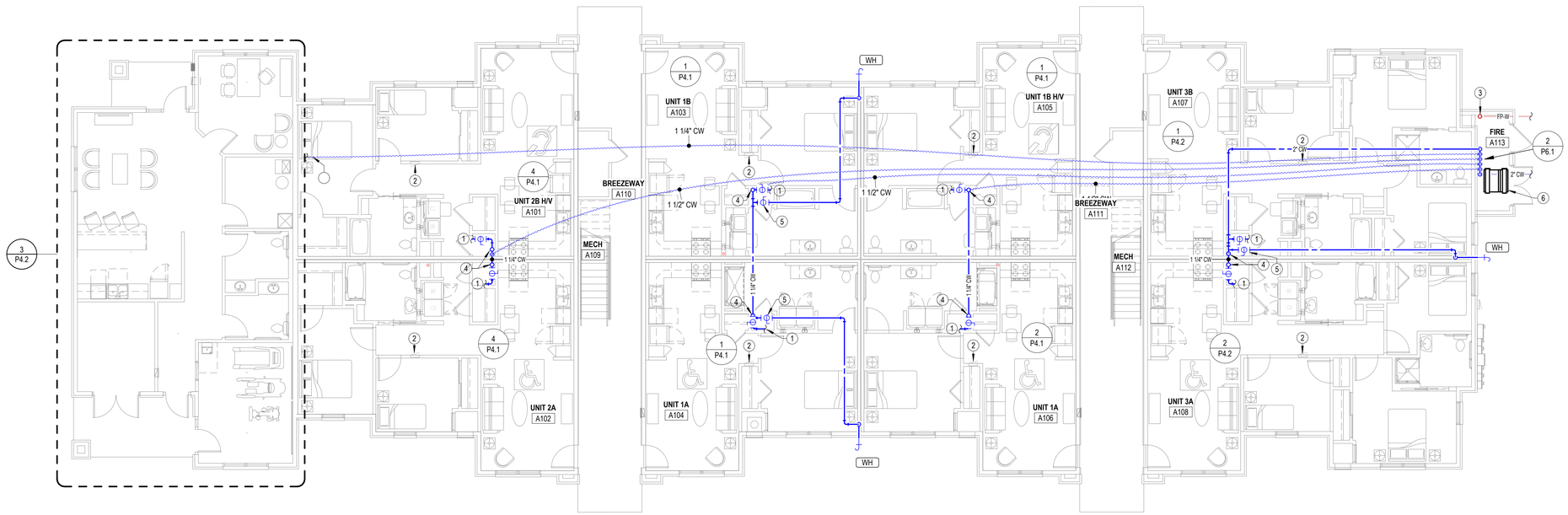
DATE: 05/09/2025
JOB: 24-3446
SHEET NO.:

**P1.6**




## 2 BUILDING B-FIRST FLOOR-DOMESTIC WATER PLAN

1/8" = 1'-0"




## 1 BUILDING A-FIRST FLOOR-DOMESTIC WATER PLAN

1/8" = 1'-0"

| | | ALTERNATE MATERIAL SIZE | |
|---|---|---|---|
| | | Cross-linked polyethylene (PEX) | Polypropylene |
| COPPER PIPE SIZE INDICATED | 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. SEE ENLARGED DOMESTIC WATER PLANS FOR CONTINUATION.
2. SEE ENLARGED DOMESTIC WATER PLANS FOR CONTINUATION.
2. ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN.
3. 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.
4. SEE DOMESTIC PLUMBING RISERS ON P9 SHEETS FOR CONTINUATION.
5. CONNECT WALL HYDRANT WITH 3/4" CW BRANCH TO DOMESTIC WATER PIPNG 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.
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.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Project 24072 05/09/2025


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THE RESERVES AT COBALT CIRCLE
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JOHN FREDERICK LEWIS
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1-20-2026

REVISIONS:
1 12-3-2025 ASI #5

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

P1.7

| | | ALTERNATE MATERIAL SIZE | |
|---|---|---|---|
| | | Cross-linked polyethylene (PEX) | Polypropylene |
| COPPER PIPE SIZE INDICATED | 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.


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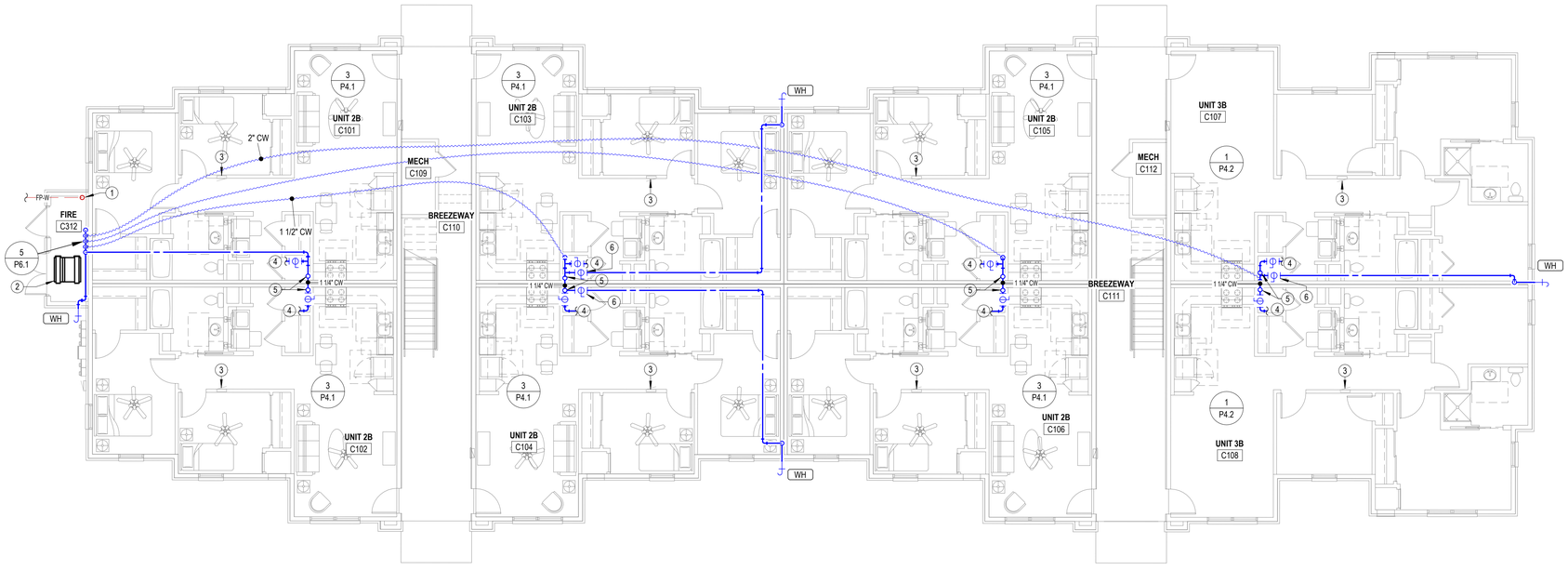
Project 24072 05/09/2025

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. 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.
2. 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.
3. ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN.
4. SEE ENLARGED DOMESTIC WATER PLANS FOR CONTINUATION.
5. SEE DOMESTIC PLUMBING RISERS ON P9 SHEETS FOR CONTINUATION.
6. CONNECT WALL HYDRANT WITH 3/4" CW BRANCH TO DOMESTIC WATER PIPNG 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.




## 1 BUILDING C-FIRST FLOOR-DOMESTIC WATER PLAN

1/8" = 1'-0"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THE RESERVES AT COBALT CIRCLE
NEW APARTMENT COMPLEX
BROWNSVILLE TENNESSEE

JOHN FREDERICK LEITZ — REGISTERED ARCHITECT — STATE OF TENNESSEE — No. 12103 — 12-3-2026

REVISIONS:
1 12-3-2025 ASI #5

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

P1.8

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Project 24072 — 05/09/2025

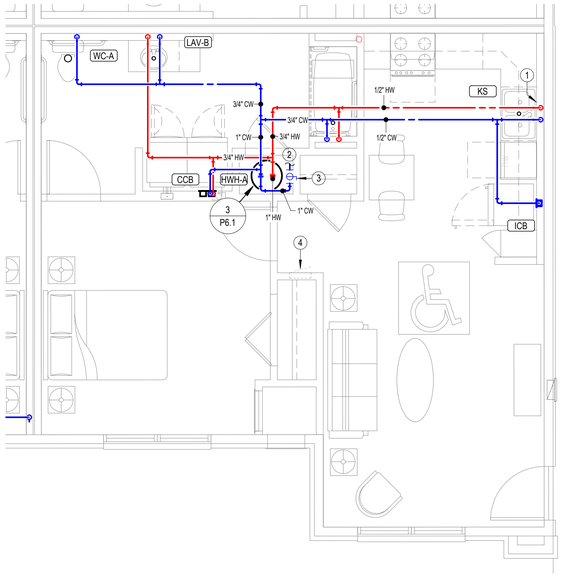
| | | ALTERNATE MATERIAL SIZE | |
|---|---|---|---|
| | | Cross-linked polyethylene (PEX) | Polypropylene |
| COPPER PIPE SIZE INDICATED | 1/2" | 1/2" | 1/2" |
| | 3/4" | 3/4" | 3/4" |
| | 1" | 1-1/4" | 1-1/4" |
| | 1-1/4" | 1-1/2" | 1-1/2" |
| | 1-1/2" | 2" | 2" |
| | 2" | 2-1/2" | 2-1/2" |
| | 2-1/2"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

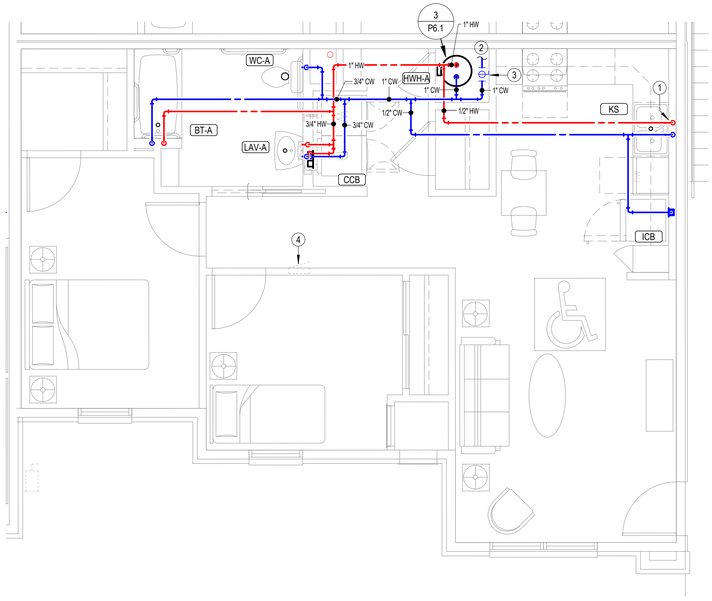
PIPING FOR DWELLING UNITS ON 3RD FLOOR SHALL BE ROUTED BELOW THE FLOOR. DO NOT ROUTE DOMESTIC WATER PIPING IN THE ATTIC.

**NOTES BY SYMBOL**

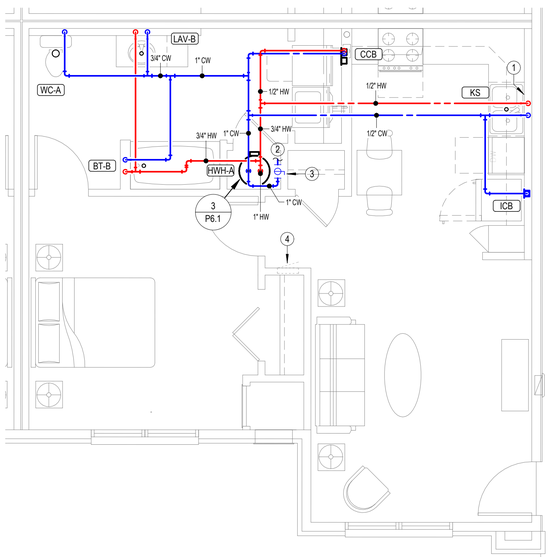
1. PROVIDE 1/2" VALVED BRANCH BELOW SINK AND CONNECT DISHWASHER. ROUTE PIPING ALONG BACK OF CABINETRY. COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED.
2. SEE OVERALL DOMESTIC WATER PLANS FOR CONTINUATION.
3. PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF 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"

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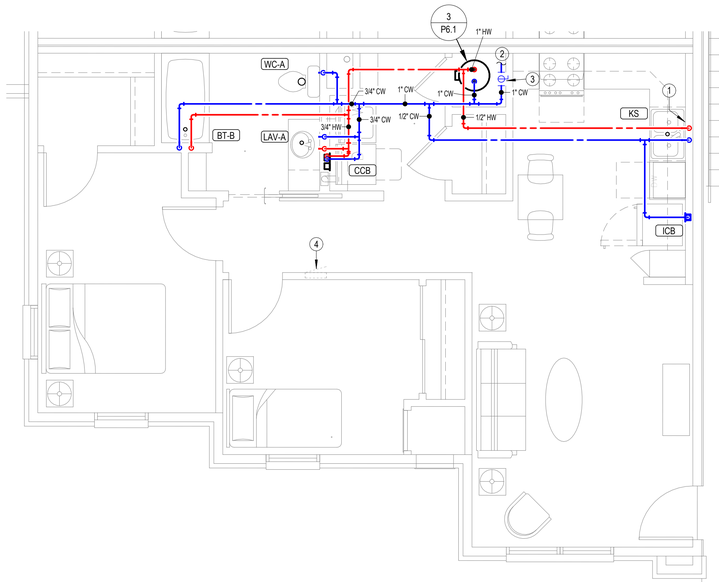
1/4" = 1'-0"




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

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THE RESERVES AT COBALT CIRCLE
NEW APARTMENT COMPLEX
BROWNSVILLE
TENNESEE

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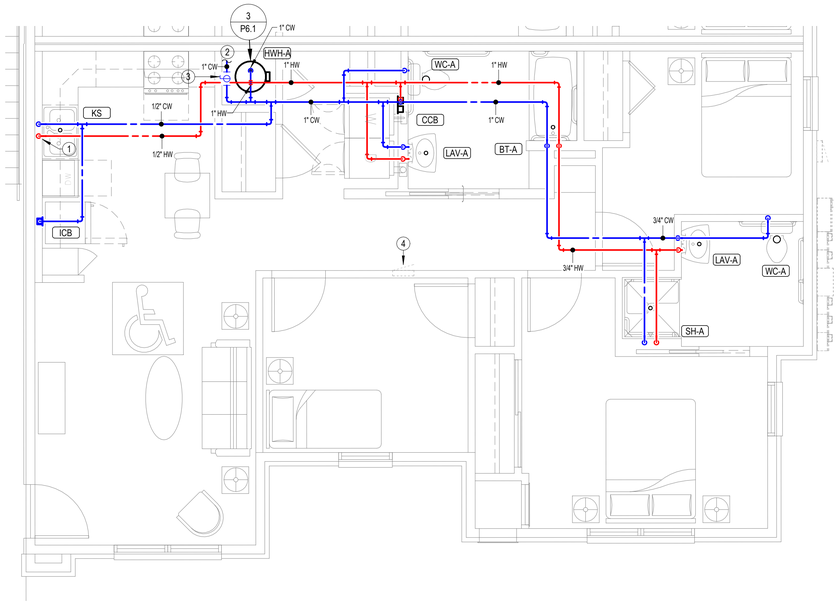
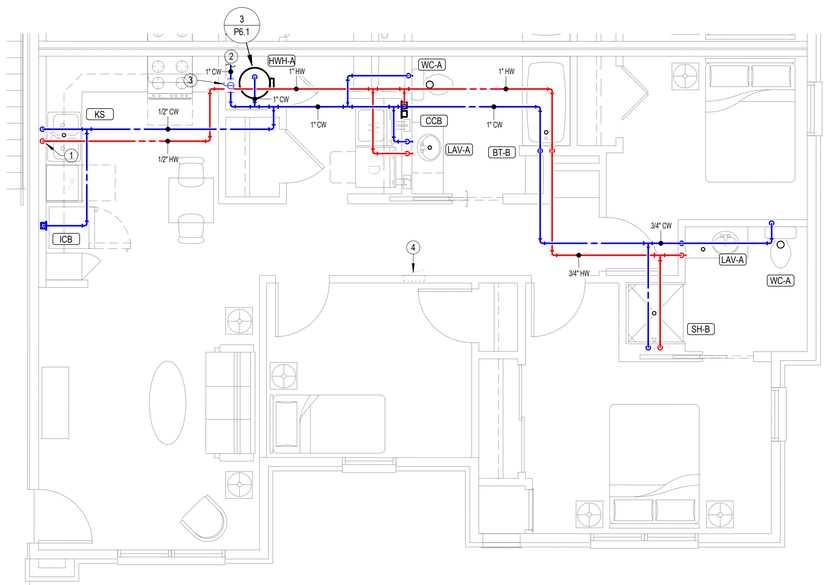


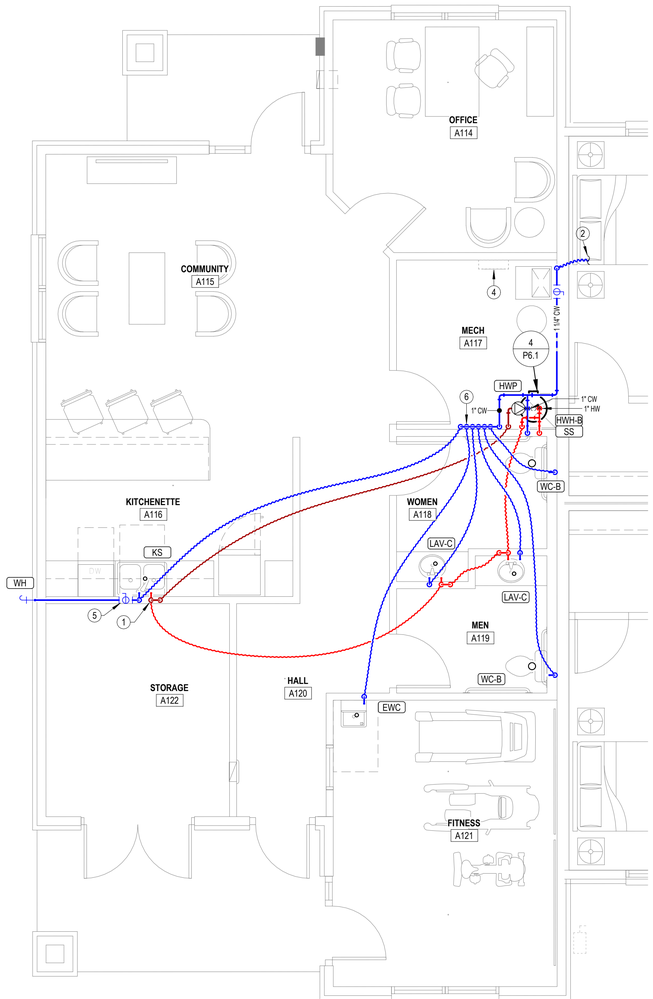

## 2 3 BEDROOM ACCESSIBLE ENLARGED DOMESTIC WATER PLAN

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"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| | | ALTERNATE MATERIAL SIZE | |
|---|---|---|---|
| | | Cross-linked polyethylene (PEX) | Polypropylene |
| COPPER PIPE SIZE INDICATED | 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 DISHWASHWER. 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.


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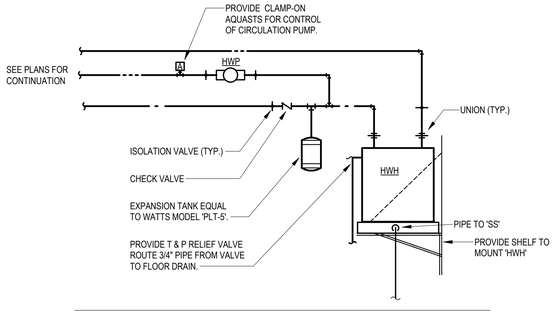
## DOMESTIC WATER EQUIPMENT SCHEDULE

| 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 #60SWHP-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.



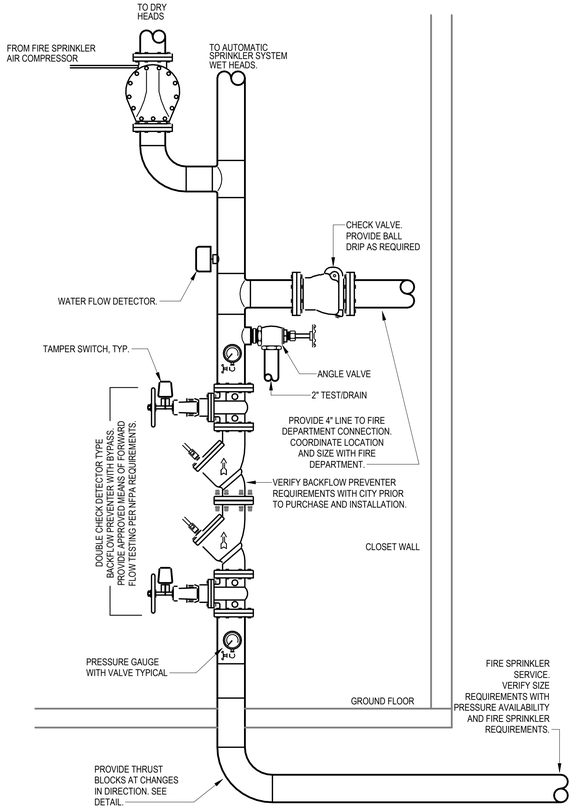

## 4 WATER HEATER ON SHELF PIPING DIAGRAM
NO SCALE

## PLUMBING FIXTURE SCHEDULE

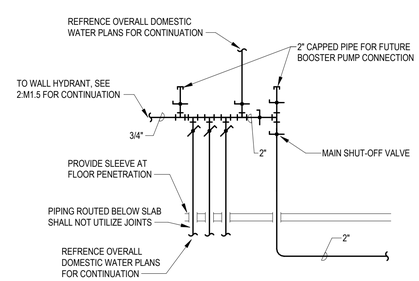
| MARK | MANUFACTURER | MODEL | PRODUCT DESCRIPTION | TRIM | ROUGH-IN SIZES | | | COLD | HOT | ADA COMPLIANT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | DRAIN | VENT | WATER | | | | |
| BT-A | AQUARIUS | S 6000 TS OT | Reinforced fiberglass tub/shower, 60"W x 33"D x 82"H, 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"D 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 | EMABFTLDDWSLK | Dual height, self-contained water cooler with stainless steel basin, front and side push bar actuator, lead-free, 120v. Provide with EZH20 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 Trapgaurd protection device. | | 2" | 2" | | | | | |
| FD-B | SIOUX CHIEF | 822 | Adjustable floor drain with deck flange and nickel bronze strainer. Provide Proset Trapgaurd protection device. | | 2" | 2" | | | | | |
| FS | SIOUX CHIEF | 861 | 12" Square, 8" deep, PVC floor sink wiht PVC strainer. Provide Proset Trapgaurd protection device. | | 3" | 2" | | | | | |
| ICB | SIOUX CHIEF | 696-G1010 | Ice maker connection box with 1/4 turn ball balbe, 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"x16"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 / 22C151 | 2" | 1 1/2" | 1/2" | Yes | Yes | Yes | 1,2,3 |
| LAV-B | AMERICAN STANDARD | 0476.028 | 20"x17" Self-Rimmng lavatory. Faucet holes on 4" centers. Single handled 0.5 GPM faucet. Provide with pop-drain, and front overflow drain. | Delta / 22C151 | 2" | 1 1/2" | 1/2" | Yes | Yes | Yes | 1,2,3 |
| LAV-C | AMERICAN STANDARD | 0476.028 | 20"x17" Self-Rimmng lavatory. Faucet holes on 4" centers. Single handled 0.5 GPM faucet. Provide with grid drain, front overflow drain. | Delta / 22C151 | 2" | 1 1/2" | 1/2" | Yes | Yes | Yes | 1,2,3 |
| SH-A | AQUA BATH CO. | C4136BF-OF-FUS 3/4" | 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 gaurds. Faucet with hose thread outlet, vacuum breaker, pail hook wall brace, and metal lever handels. | 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 withI ASSE 1052 double check backflow preventor, 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 REQUIREMEJNTS 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.

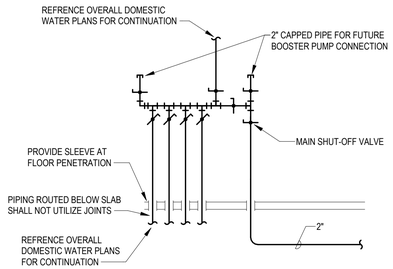



## 1 FIRE PROTECTION RISER DIAGRAM
NO SCALE

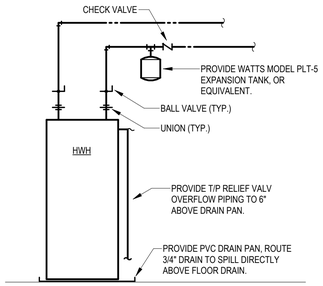



## 5 BUILDING B - DOMESTIC WATER RISER DIAGRAM
NO SCALE

BUILDING 'C' SIMILAR




## 2 BUILDING A - DOMESTIC WATER RISER DIAGRAM
NO SCALE




## 3 APARTMENT WATER HEATER DIAGRAM
NO SCALE

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1-20-2026

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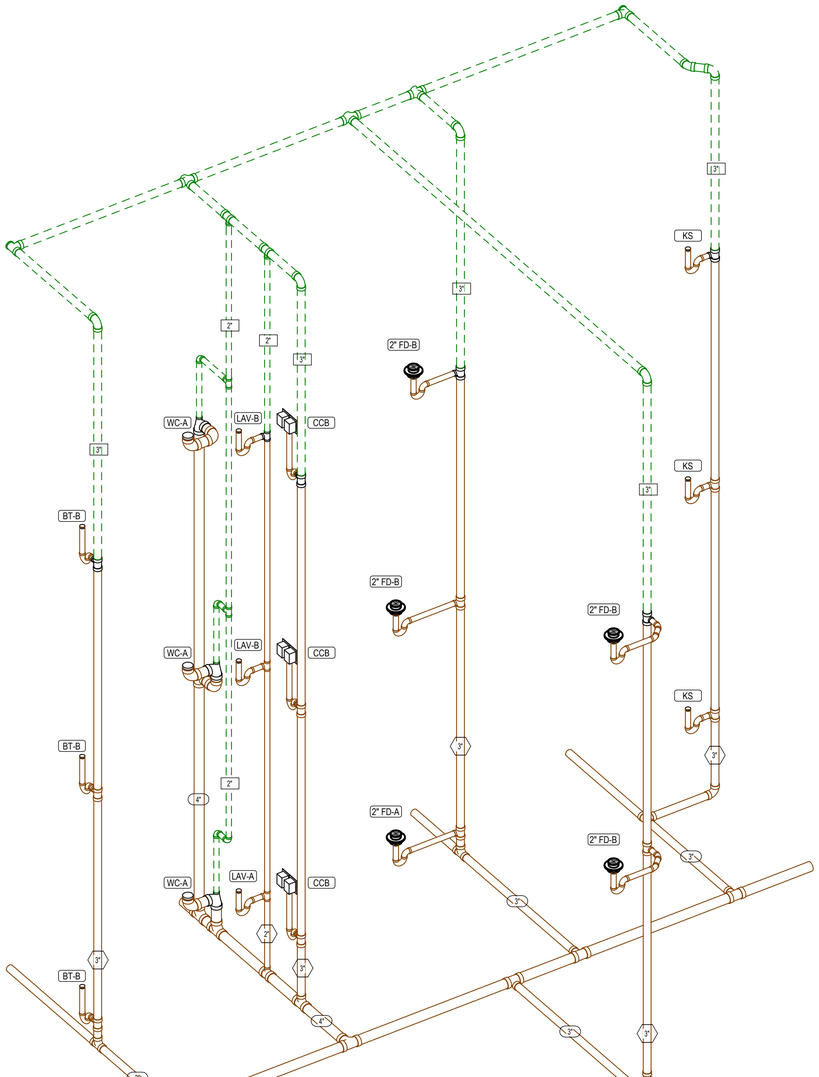
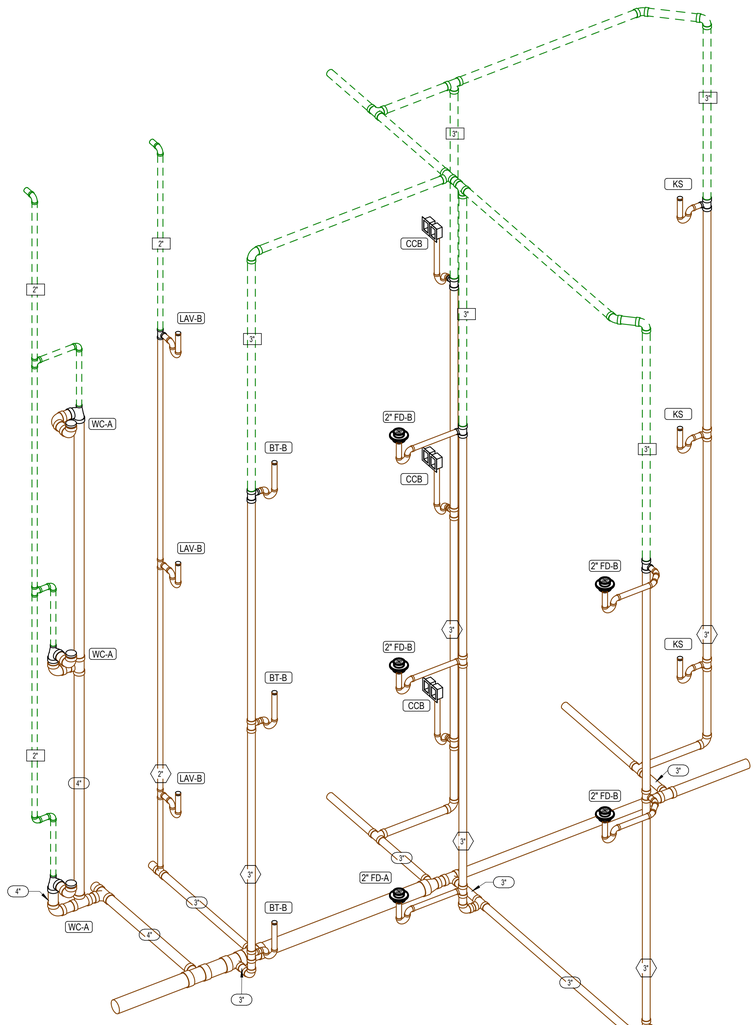
| PLUMBING SIZING SYMBOLS | |
|---|---|
| x" | DRAIN (X = SIZE) |
| x" | VENT (X = SIZE) |
| x" | WASTE STACK VENT (X = SIZE) |




## 2 TYPICAL 2 BEDROOM WASTE AND VENT RISER




## 1 TYPICAL 1 BEDROOM WASTE AND VENT RISER

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**THE RESERVES AT COBALT CIRCLE**

**NEW APARTMENT COMPLEX**

**BROWNSVILLE TENNESSEE**

JOHN FREDERICK LEWIS — REGISTERED ARCHITECT — STATE OF TENNESSEE — No. 12155 — 5-2025

REVISIONS:

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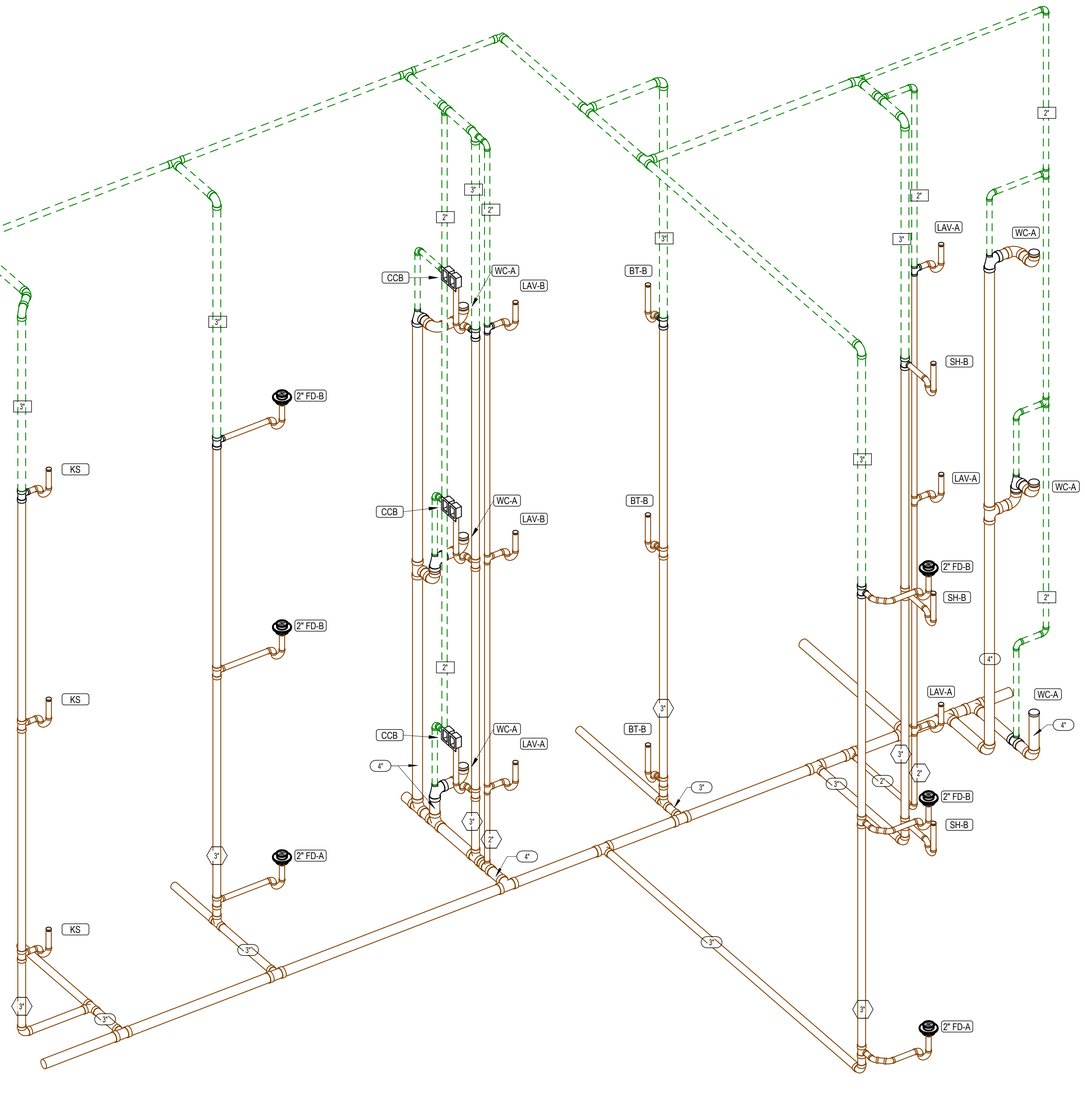
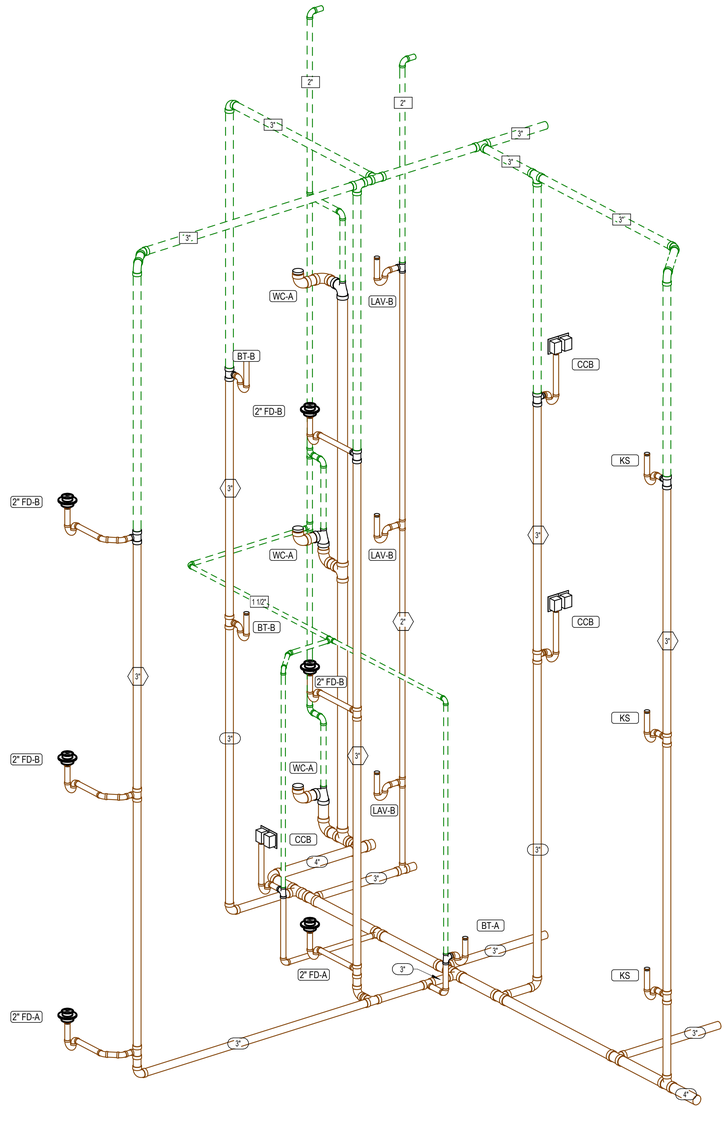
| PLUMBING SIZING SYMBOLS | |
|---|---|
| x" | DRAIN (X = SIZE) |
| x" | VENT (X = SIZE) |
| x" | WASTE STACK VENT (X = SIZE) |




## 1 TYPICAL 3 BEDROOM WASTE AND VENT RISER




## 2 TYPICAL 1 BEDROOM ACCESSIBLE WASTE AND VENT RISER

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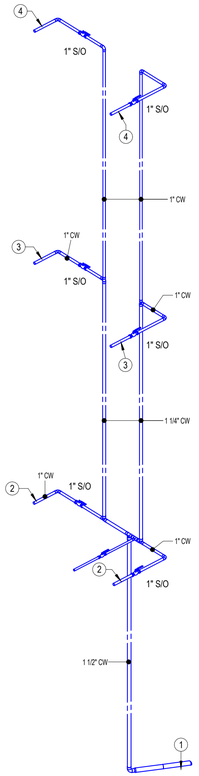
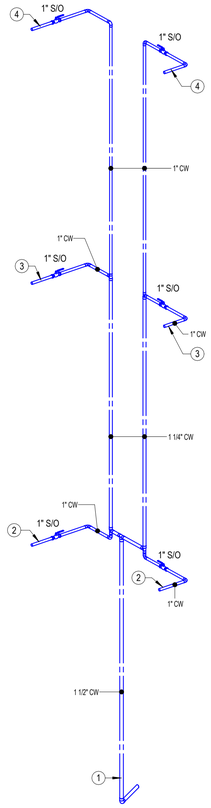
**NOTES BY SYMBOL**

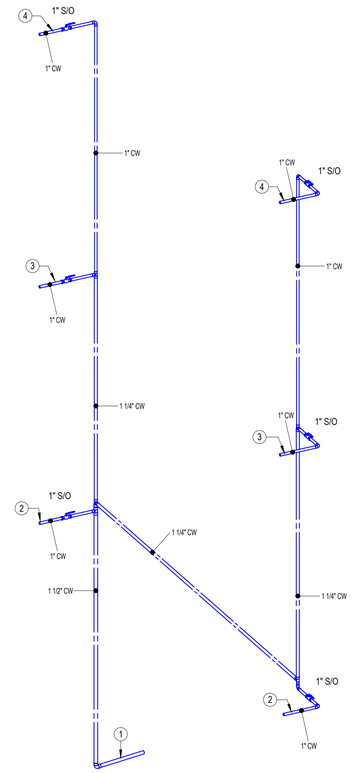
| | |
|---|---|
| 1 | SEE OVERALL PLANS FOR SIZE AND ROUTING OF PLUMBING MAINS. |
| 2 | DOMESTIC SERVICE TO 1ST FLOOR DWELLING UNIT. SEE P4.1 FOR CONTINUATION. |
| 3 | DOMESTIC SERVICE TO 2ND FLOOR DWELLING UNIT. SEE P4.1 FOR CONTINUATION. |
| 4 | DOMESTIC SERVICE TO 3RD FLOOR DWELLING UNIT. SEE P4.1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




## 3 TYPICAL 3 BEDROOM DOMESTIC WATER SERVICE RISER




## 2 TYPICAL 2 BEDROOM DOMESTIC WATER SERVICE RISER

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