

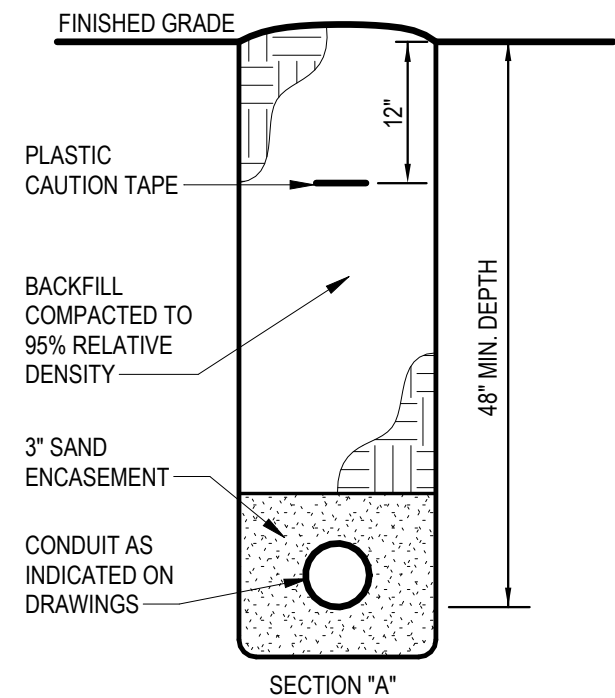


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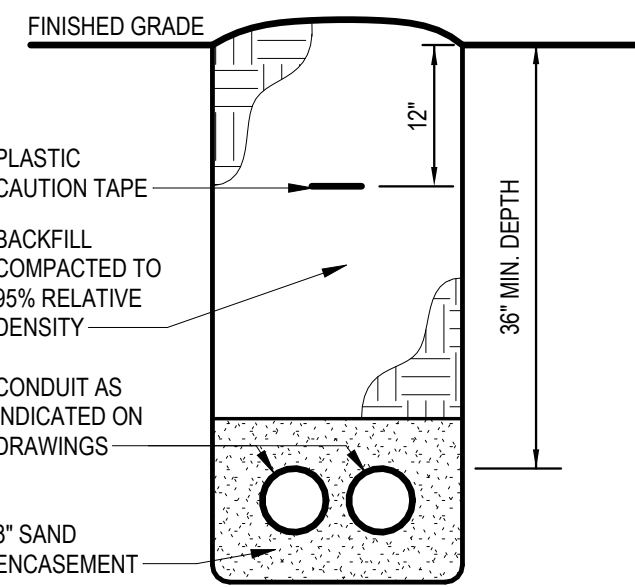
DATE: 8-1-2025  
JOB: 25-3489  
SHEET NO.:

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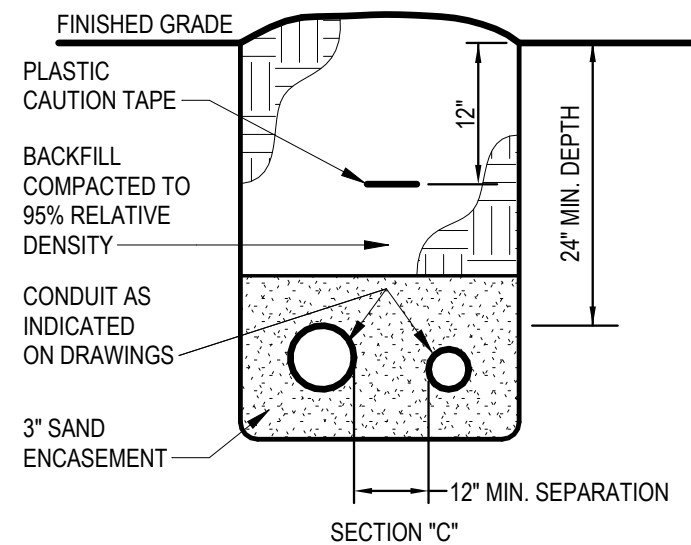
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SECTION "A"



SECTION "B"



SECTION "C"

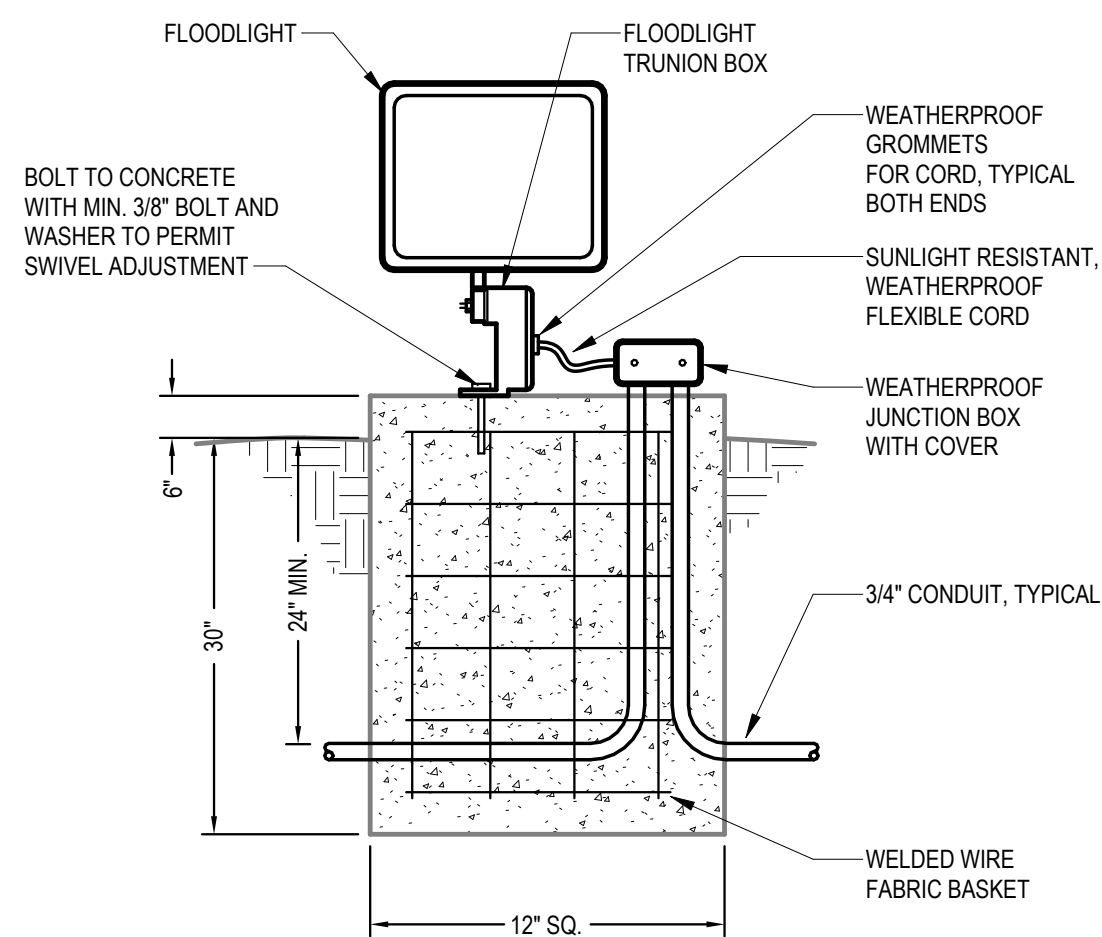
NOTES BY SYMBOL

- 1 ELECTRIC SERVICE EQUIPMENT, SEE RISER DIAGRAM ON SHEET E6.2.
- 2 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.
- 3 METER CENTER SERVICE LATERAL, COORDINATE ROUTING WITH LOCAL POWER COMPANY. SEE 1.E1.2 FOR MORE INFORMATION.
- 4 HOUSE SERVICE LATERAL, COORDINATE ROUTING WITH LOCAL POWER COMPANY. SEE 1.E1.2 FOR MORE INFORMATION.
- 5 (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.
- 6 SANITARY SEWER, SEE CIVIL DRAWINGS FOR CONTINUATION.
- 7 DOMESTIC WATER SERVICE, SEE CIVIL DRAWINGS FOR CONTINUATION.
- 8 FIRE SUPPRESSION SERVICE, SEE CIVIL DRAWINGS FOR CONTINUATION.

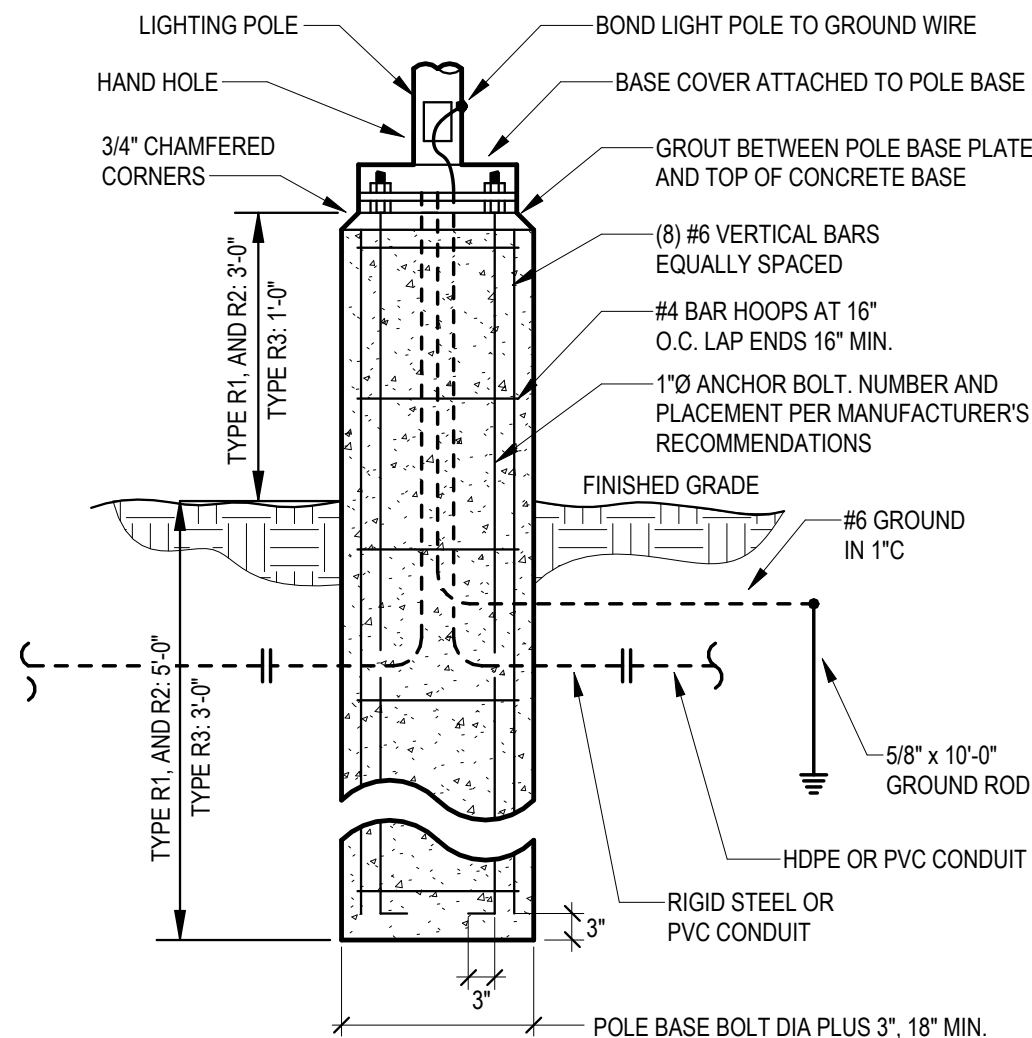
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NO SCALE

5 CONDUIT TRENCH SECTION B  
NO SCALE

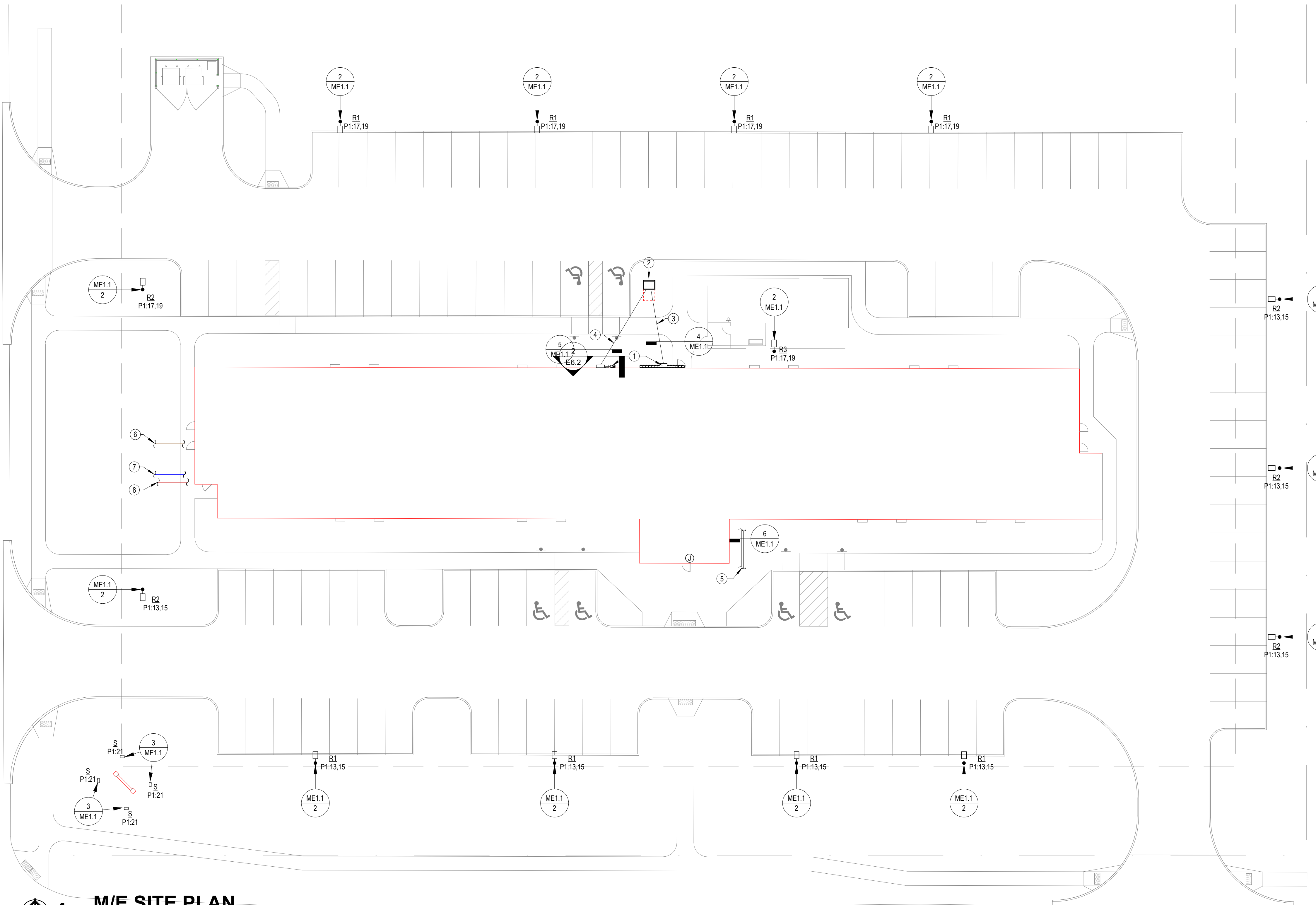
6 CONDUIT TRENCH SECTION C  
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3 GROUND LIGHT DETAIL  
NO SCALE



2 LIGHT POLE BASE DETAIL  
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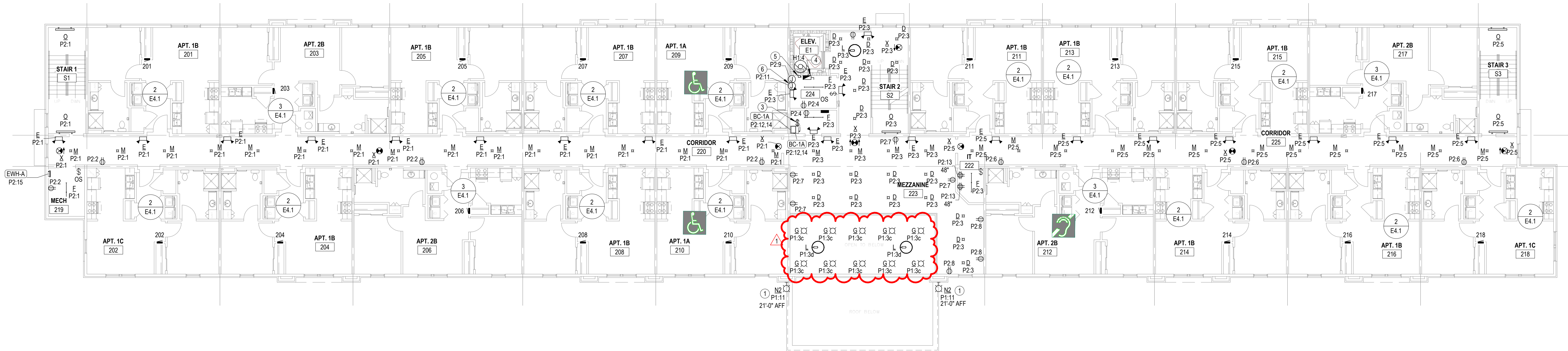


1 M/E SITE PLAN  
1" = 20'-0"

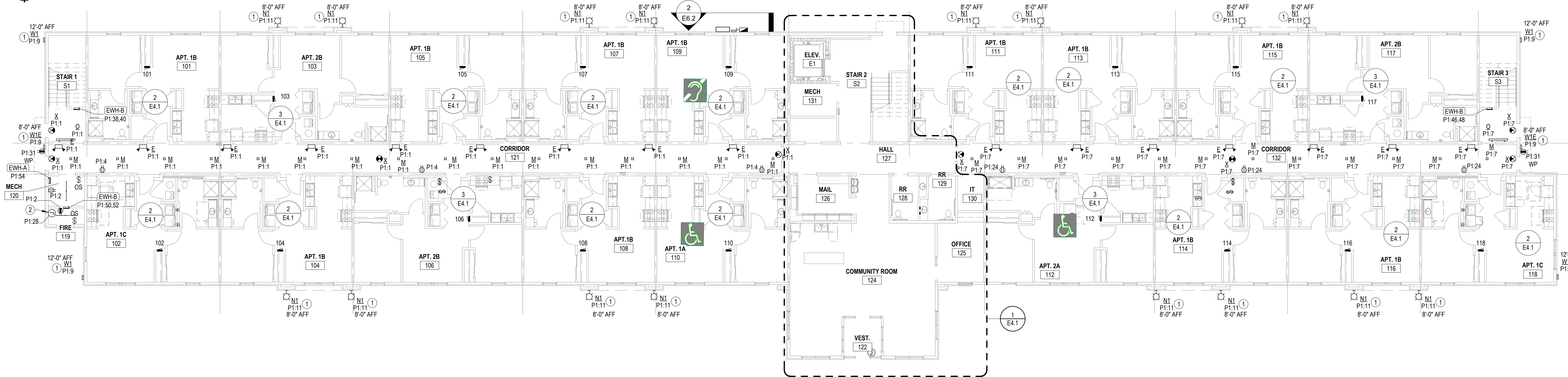




- NOTES BY SYMBOL**
- ROUTE CIRCUIT THROUGH CONTACTOR INDICATED.
  - 120V POWER FOR FIRE SPRINKLER SYSTEM FLOW SWITCH(ES) AND BELL. PROVIDE #8 CU BONDING JUMPER FROM CIRCUIT EQUIPMENT GROUNDING CONDUCTOR TO METAL SPRINKLER SYSTEM PIPING AT AN ACCESSIBLE LOCATION PER NEC 250.104(B). COORDINATE WORK WITH FIRE SPRINKLER SYSTEM INSTALLER.
  - PROVIDE 30A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE, HUBBELL #HBL7832D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
  - ELEVATOR POWER MODULE SWITCH: 400A/208V/3P SWITCH COMPLETE WITH 225A DUAL ELEMENT, TIME DELAY CLASS 'J' FUSES, 120V CONTROL TRANSFORMER, FIRE ALARM SAFETY INTERFACE RELAY, KEY TEST SWITCH, GREEN PILOT LIGHT, AUXILIARY CONTACTS FOR ELEVATOR RECALL, AND FIRE ALARM VOLTAGE MONITORING RELAY. EATON BUSSMAN #PS4-T20-R1-K-G-B-F1 OR EQUAL. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER, AND PROVIDE FINAL ELECTRICAL CONNECTION TO ELEVATOR CONTROLLER. SEE DETAIL 1:E6.1.
  - 30A DISCONNECT SWITCH, LOCKABLE IN "OFF" POSITION, WITH SOLID NEUTRAL AND (1) 20A DUAL-ELEMENT, TIME DELAY FUSE IN NEMA 1 ENCLOSURE FOR ELEVATOR CAB LIGHTS & EXHAUST. MOUNT AT 6'-0" AFF TO TOP AND LABEL WITH CORRESPONDING ELEVATOR CAR NUMBER AND CIRCUIT NUMBER. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER. PROVIDE FINAL ELECTRICAL CONNECTION TO ELEVATOR CONTROLLER.
  - PROVIDE POWER FOR ELEVATOR SHUNT TRIP CONTROL. SEE 1:E6.1 FOR MORE INFORMATION.



**2 SECOND FLOOR-ELECTRICAL PLAN**  
3/32" = 1'-0"



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

- NOTES BY SYMBOL
- 1

INSTALL LUMINAIRE ON WALL OF ELEVATOR PIT/HOISTWAY.
- 2

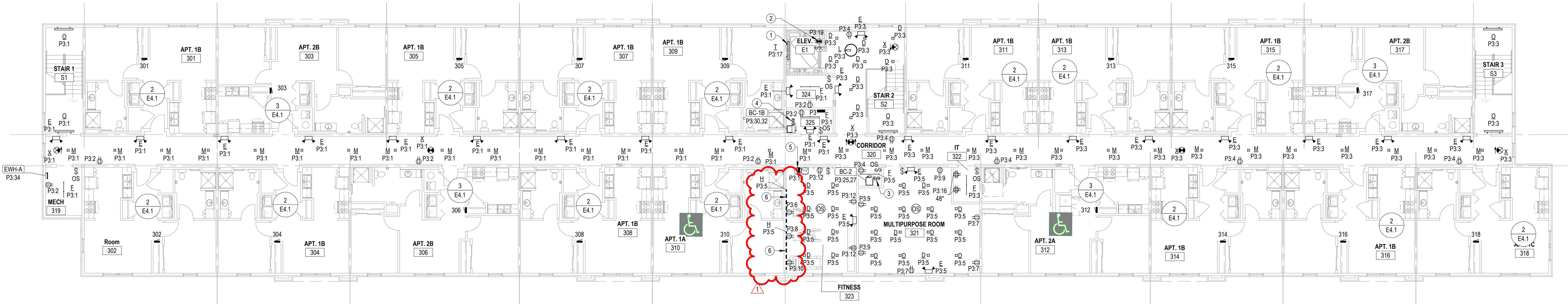
INSTALL RECEPTACLE ON WALL OF ELEVATOR PIT/HOISTWAY. VERIFY EXACT LOCATION WITH EQUIPMENT INSTALLER.
- 3

PROVIDE 60A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7862D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
- 4

PROVIDE 40A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7842D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
- 5

COORDINATE EXACT MOUNTING LOCATION OF DRINKING FOUNTAIN RECEPTACLE WITH PLUMBING CONTRACTOR. WIRE FROM LOAD SIDE OF ADJACENT GFI RECEPTACLE TO PROVIDE GFI PROTECTION FOR DRINKING FOUNTAIN RECEPTACLE.
- 6

INSTALL LED TAPE LIGHT BEHIND FITNESS ROOM MIRROR. REFERENCE 'M.A9.2' FOR MORE INFORMATION. PROVIDE ALL REQUIRED COMPONENTS AND ACCESSORIES FOR COMPLETE INSTALLATION.



THIRD FLOOR-ELECTRICAL PLAN

3/32" = 1'-0"

THE RESIDENCE AT CARTER LAKE

NEW SENIOR LIVING FACILITY

IOWA

CARTER LAKE,



REVISIONS:

1 09-03-2025 ADDENDUM #1

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E1.2

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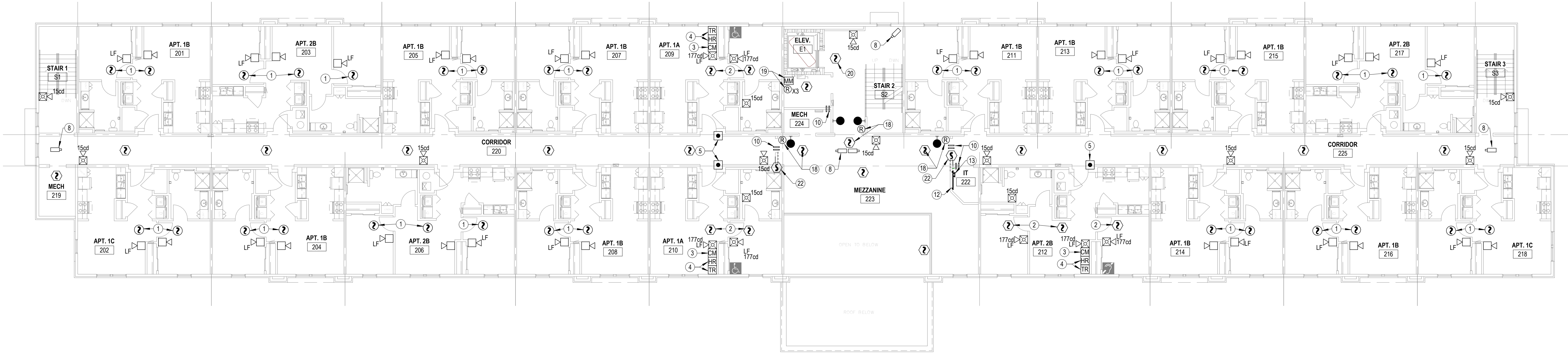
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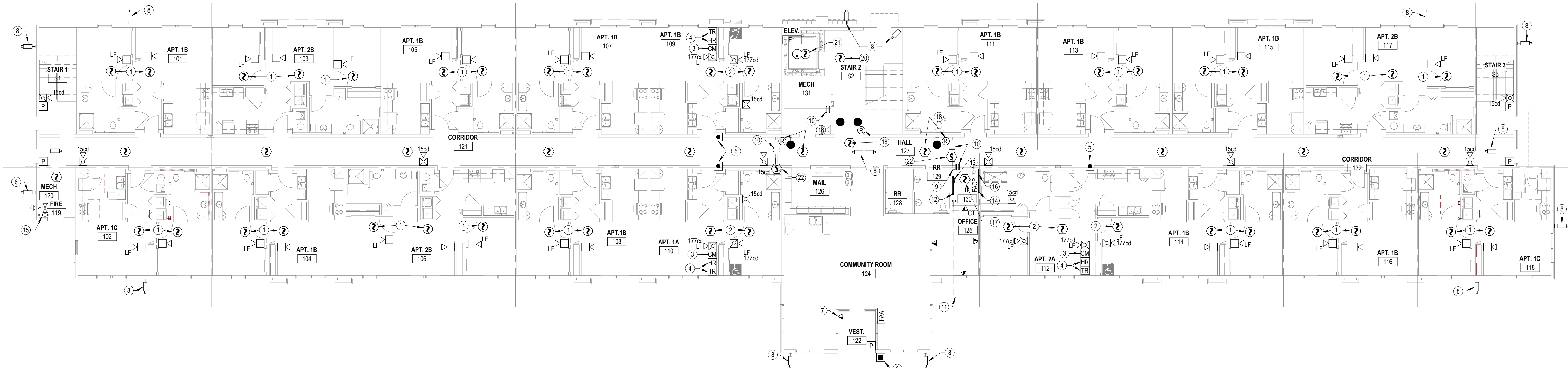
- NOTES BY SYMBOL**
- 1 CEILING MOUNTED SMOKE ALARM IN APARTMENTS TO BE 120VAC WITH 9V BATTERY BACKUP, INTERCONNECTED TO OTHERS IN SAME APARTMENT. DEVICE SHALL HAVE PHOTOELECTRIC TYPE SMOKE DETECTOR WITH SOUNDER HORN HAVING AN 85 DB OUTPUT AT 10'. SHALL HAVE A SINGLE BUTTON FOR TEST/SILENCE AND LED INDICATOR LIGHTS, AND SHALL BE UL 217 LISTED, BRK #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 AN 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 3, SHEET E6.1. 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 3, SHEET E6.1.
  - 6 PROVIDE PUSH BUTTON ROUGH-IN AND PREP DOOR JAM WITH RACEWAY AS INDICATED IN DETAIL 3.E6.1 FOR AUTOMATIC DOOR OPENER. COORDINATE EXACT REQUIREMENTS WITH OWNER.
  - 7 PROVIDE ROUGH-IN FOR 24 HOUR INTERCOMM SYSTEM. COORDINATE EQUIPMENTS AND LOCATION WITH OWNER AND ARCHITECT.
  - 8 PROVIDE ROUGH-IN FOR SECURITY CAMERA. COORDINATE LOCATIONS AND REQUIREMENTS WITH OWNER.
  - 9 (2) 4" CONDUIT UP TO SECOND FLOOR FOR COMMUNICATIONS SERVICES. TERMINATE ABOVE SECOND FLOOR AND BELOW COMMUNICATIONS BACKBOARD. WHERE CONDUIT PENETRATES FIRE RATED ASSEMBLY, PROVIDE WITH FIRESTOPPING FITTINGS (WIREMOLD #FS4R-RED) AT BOTH ENDS.

- NOTES BY SYMBOL**
- 10 4" EMT CONDUIT SLEEVE(S) THROUGH WALL WITH NYLON BUSHINGS FOR COMMUNICATIONS CABLE. QUANTITY AND SIZE AS REQUIRED. INSTALL ABOVE ACCESSIBLE CEILING. WHERE CONDUITS PENETRATE FIRE WALL, PROVIDE WITH FIRESTOPPING FITTINGS (WIREMOLD #FS4R-RED) AT BOTH ENDS. PROVIDE J-HOOKS FOR COMMUNICATIONS CABLES INSTALLED ABOVE SUSPENDED CEILING, SPACED AT MAXIMUM 5'-0" ON CENTER. J-HOOKS SHALL HAVE 4" MIN BUNDLE CAPACITY, 1" BEND RADIUS CONTROL, AND SHALL BE U.L. 2043 LISTED. PANDUIT J-PRO JP4 SERIES OR EQUAL.
  - 11 (2) 2" CONDUITS FOR COMMUNICATIONS SERVICES. SEE SITE PLAN FOR CONTINUATION.
  - 12 PROVIDE 8' LONG SHEET OF 3/4" ACX FIRE RETARDANT PLYWOOD INSTALLED VERTICALLY WITH BOTTOM AT 6" AFF. WIDTH AS REQUIRED. PLYWOOD SHALL BE PERMANENTLY FASTENED TO THE WALL BY MEANS OF WALL ANCHORS UTILIZING GALVANIZED, ZINC PLATED, OR STAINLESS STEEL HARDWARE WITH A FLAT HEAD. FINISHED INSTALLATION SHALL HAVE FLUSH APPEARANCE WITH COUNTERSUNK SCREW HEADS TO PREVENT SPLITTING OF THE PLYWOOD. DRYWALL SCREWS ARE NOT ACCEPTABLE. PAINT WITH TWO COATS OF LIGHT GRAY FIRE RETARDANT SEALER PRIOR TO INSTALLATION OF ANY EQUIPMENT.
  - 13 TELECOMMUNICATIONS GROUND BAR SHALL BE 13-1/4"W x 2"H x 1/4" THICK ELECTRO-TIN PLATED COPPER BUS BAR, COMPLETE WITH INSULATED STAND-OFFS AND STAINLESS STEEL BRACKETS, ERICO #GTB414L06PT OR EQUAL. MOUNT AT 18" AFF. ALL CONNECTIONS TO GROUND BAR SHALL BE MADE USING COMPRESSION TYPE LUGS.
  - 14 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.
  - 15 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.
  - 16 PROVIDE MANUAL PULL STATION AT FACP CLOSEST AND CONNECT TO FIRE ALARM SYSTEM.
  - 17 PROVIDE SMOKE DETECTOR ABOVE FACP AND CONNECT TO FIRE ALARM SYSTEM.

- NOTES BY SYMBOL**
- 18 SMOKE DETECTOR AND ADDRESSABLE RELAY FOR CONTROL OF ELECTROMAGNETIC DOOR HOLDERS. DOORS SHALL RELEASE UPON DETECTION OF SMOKE.
  - 19 ADDRESSABLE FIRE ALARM RELAYS FOR ELEVATOR RECALL, FIREMAN'S HAT, AND POWER SHUNT-TRIP. AND ADDRESSABLE MONITORING MODULE FOR MONITORING OF SHUNT-TRIP VOLTAGE. SEE ETAL 1.E6.1.
  - 20 ELEVATOR LOBBY SMOKE DETECTOR FOR ELEVATOR RECALL. SEE 1.E6.1.
  - 21 SMOKE DETECTOR AND HEAT DETECTOR IN ELEVATOR PIT/HOISTWAY FIRE RECALL AND SHUT-DOWN. SEE 1.E6.1.
  - 22 PROVIDE DUCT SMOKE DETECTOR WITHIN 5' OF FIRE/SMOKE 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.



**2 SECOND FLOOR-SPECIAL SYSTEMS PLAN**  
3/32" = 1'-0"



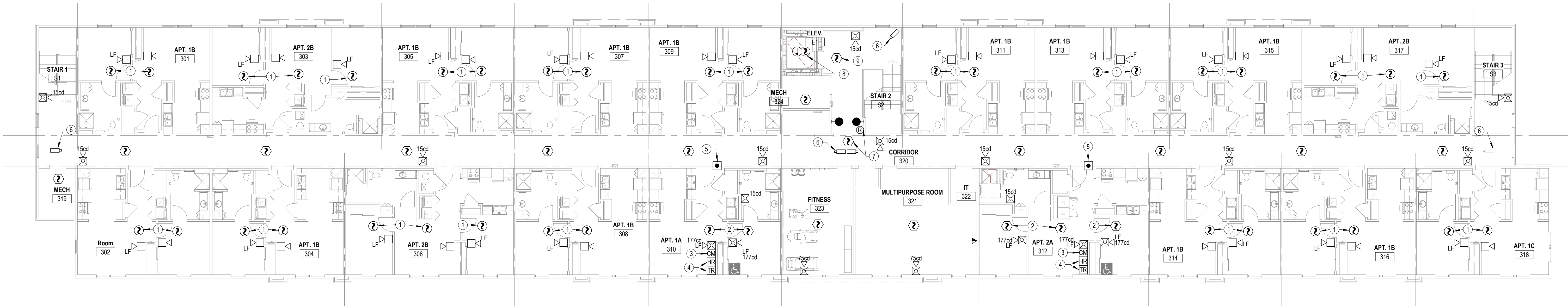


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COMMUNICATIONS: HOMERUNS FROM 3RD FLOOR  
APARTMENTS SHALL BE ROUTED ABOVE 2ND FLOOR  
CEILING TO TELEPHONE TERMINAL BOARD IN 'IT 222'

NOTES BY SYMBOL

- 1 CEILING MOUNTED SMOKE ALARM IN APARTMENTS TO BE 120VAC WITH 9V BATTERY BACKUP. INTERCONNECTED TO OTHERS IN SAME APARTMENT. DEVICE SHALL HAVE PHOTOELECTRIC TYPE SMOKE DETECTOR WITH SOUNDER HORN HAVING AN 85 dB OUTPUT AT 10', SHALL HAVE A SINGLE BUTTON FOR TEST/SILENCE AND LED INDICATOR LIGHTS, AND SHALL BE UL 217 LISTED, BRK #SC701BL OR EQUAL.
- 2 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 AV HORN/STROBE DEVICE AND LOW VOLTAGE TRANSFORMER AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED HEARING-IMPAIRED. INSTALL HORN/STROBE APPLIANCE AT 8' AFF. INSTALL TRANSFORMER IN DOUBLE GANG JUNCTION BOX ABOVE HORN/STROBE WITH BLANK COVER PLATE AND PROVIDE LOW VOLTAGE CONTROL WIRING. SEE DETAIL 3, SHEET E6.1. 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 3, SHEET E6.1.
- 6 PROVIDE ROUGH-IN FOR SECURITY CAMERA. COORDINATE LOCATIONS AND REQUIREMENTS WITH OWNER.
- 7 SMOKE DETECTOR AND ADDRESSABLE RELAY FOR CONTROL OF ELECTROMAGNETIC DOOR HOLDERS. DOORS SHALL RELEASE UPON DETECTION OF SMOKE.
- 8 SMOKE DETECTOR AND HEAT DETECTOR IN ELEVATOR PIT/HOISTWAY FRE RECALL AND SHUT-DOWN. SEE 1.E6.1.
- 9 ELEVATOR LOBBY SMOKE DETECTOR FOR ELEVATOR RECALL. SEE 1.E6.1.



1

THIRD FLOOR-SPECIAL SYSTEMS PLAN

3/32" = 1'-0"

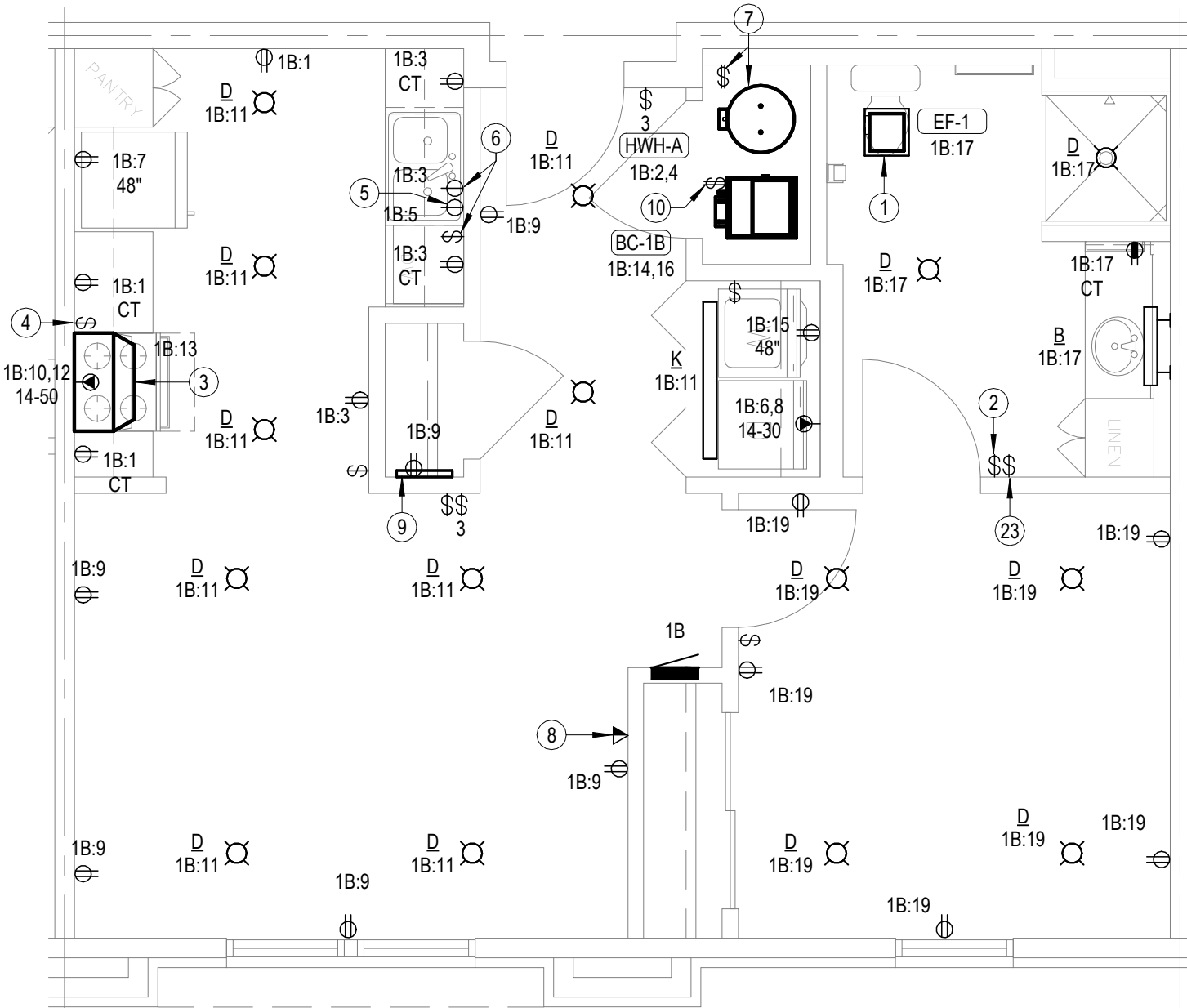
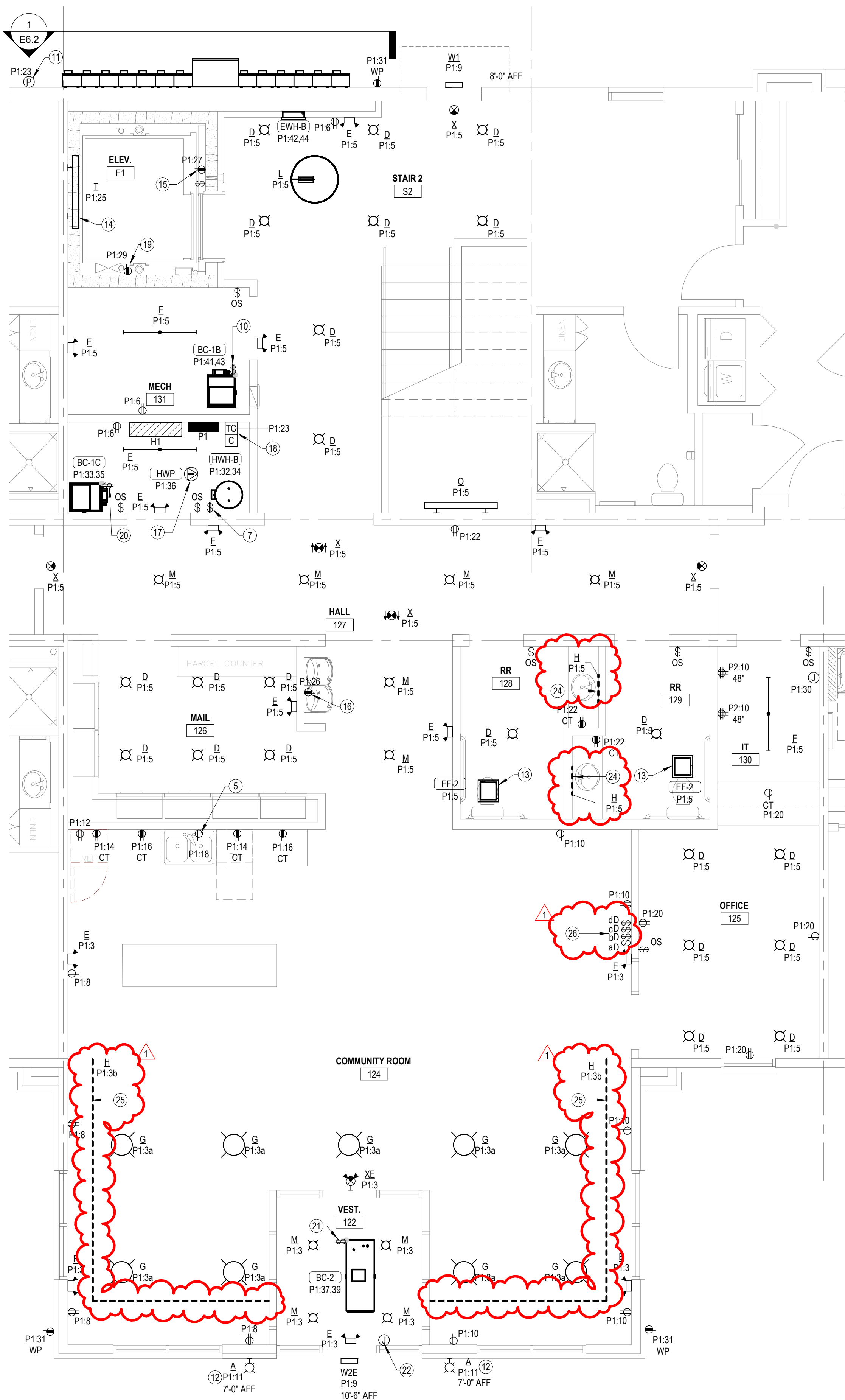


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NOTES BY SYMBOL

- CONNECT EXHAUST FANLIGHT PROVIDED BY MECHANICAL CONTRACTOR.
- SWITCH CLOSEST TO DOOR SHALL CONTROL ALL LIGHTS IN BATHROOM, AND THE OTHER SWITCH SHALL CONTROL THE EXHAUST FAN.
- PROVIDE 120V CONNECTION TO MICROWAVE/RANGE HOOD. STANDARD AND ADAPTABLE UNITS WILL HAVE MICROWAVE ABOVE RANGE. ACCESSIBLE UNITS WILL HAVE RANGE HOOD. COORDINATE EXACT ELECTRICAL ROUGH-IN REQUIREMENTS WITH EQUIPMENT PROVIDED. IF EQUIPMENT IS CORD AND PLUG, PROVIDE RECEPTACLE INSIDE CABINET ABOVE RANGE.
- PROVIDE SWITCH IN ACCESSIBLE UNITS FOR CONTROL OF RANGE HOOD.
- PROVIDE RECEPTACLE BELOW COUNTER FOR CORD AND PLUG CONNECTION OF DISHWASHER. PROVIDE CORD AND GROUNDING PLUG AS REQUIRED.
- SWITCHED RECEPTACLE BELOW COUNTER FOR GARBAGE DISPOSAL. COORDINATE EXACT LOCATION OF SWITCH WITH ARCHITECT.
- PROVIDE 30A/2P SNAP SWITCH AND CONNECT WATER HEATER. INSTALL SWITCH ADJACENT TO WATER HEATER.
- COORDINATE FINAL LOCATIONS OF ALL CATV AND PHONE OUTLETS WITH OWNER.
- TELECOM DISTRIBUTION DEVICE APPROXIMATELY 4'-0" AFF. COORDINATE EXACT REQUIREMENTS WITH UTILITY PROVIDER SELECTED BY OWNER.
- PROVIDE 40A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL842D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
- PHOTOCELL FOR CONTROL OF EXTERIOR LIGHTS. SEE 2.E6.1 FOR MORE INFORMATION.
- ROUTE CIRCUIT THROUGH CONTACTOR INDICATED.
- SWITCH EXHAUST FAN WITH ROOM LIGHTS.
- INSTALL LUMINAIRE ON WALL OF ELEVATOR PIT/HOISTWAY.
- INSTALL RECEPTACLE ON WALL OF ELEVATOR PIT/HOISTWAY. VERIFY EXACT LOCATION WITH EQUIPMENT INSTALLER.
- COORDINATE EXACT MOUNTING LOCATION OF DRINKING FOUNTAIN RECEPTACLE WITH PLUMBING CONTRACTOR. WIRE FROM LOAD SIDE OF ADJACENT GFI RECEPTACLE TO PROVIDE GFI PROTECTION FOR DRINKING FOUNTAIN RECEPTACLE.
- ROUTE 120V CIRCUIT FOR HOT WATER RECIRCULATION PUMP THROUGH ADJACENT AQUASTAT. PROVIDE 20A/1P SNAP SWITCH ADJACENT TO PUMP AND MAKE FINAL FLEXIBLE CONNECTION. COORDINATE WITH PLUMBING CONTRACTOR.
- TIMECLOCK AND CONTACTORS FOR EXTERIOR LIGHTING CONTROL. RE: 2.E6.1.
- PROVIDE 120V POWER CONNECTION TO ELEVATOR SUMP PUMP ALARM PANEL AND 1" CONDUIT WITH PULL STRING STUBBED INTO ELEVATOR PIT FOR CONTROL CABLING. COORDINATE ALL WORK WITH PLUMBING CONTRACTOR.
- PROVIDE 50A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7852D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
- PROVIDE 60A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7862D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
- PREP DOOR JAMB WITH RACEWAY AS INDICATED IN DETAIL 3.E6.1 FOR AUTOMATIC DOOR OPENER. COORDINATE EXACT REQUIREMENTS WITH OWNER.
- PROVIDE TIMER SWITCH EQUAL TO AIR CYCLER "SMART EXHAUST" FOR CONTROL OF EXHAUST FAN. SET SWITCH PER MANUFACTURER'S INSTRUCTIONS TO OPERATE FAN AS INDICATED BELOW:  
1 BEDROOM: 26 MINUTES PER HOUR  
2 BEDROOM: 35 MINUTES PER HOUR
- INSTALL LED TAPE LIGHT BEHIND RESTROOM MIRROR. REFERENCE 'E.A8.1' FOR MORE INFORMATION. PROVIDE ALL REQUIRED COMPONENTS AND ACCESSORIES FOR COMPLETE INSTALLATION.
- INSTALL LED TAPE LIGHT IN CEILING COVE. REFERENCE 'W.A4.5' AND 'A.A7.1' FOR MORE INFORMATION. PROVIDE ALL REQUIRED COMPONENTS AND ACCESSORIES FOR COMPLETE INSTALLATION.
- PROVIDE PRESET SLIDE DIMMER COMPATIBLE WITH ASSOCIATED LIGHT FIXTURES. SEE 2.E1.1 FOR FIXTURES TO BE CONTROLLED BY SWITCHES 'C' AND 'D'.



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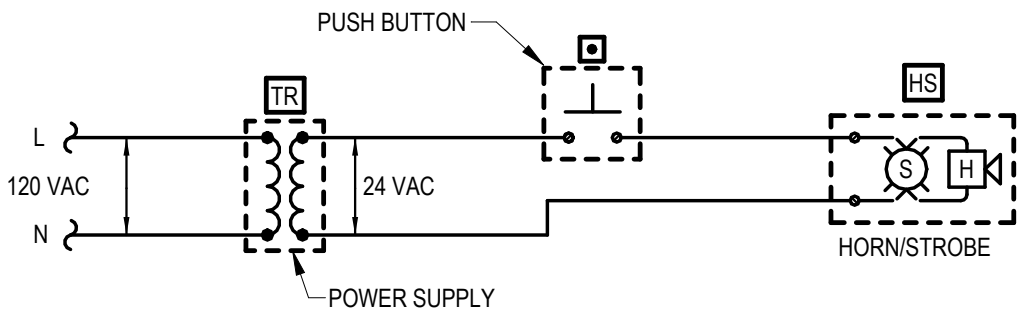
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Project 25039

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LIGHT FIXTURE SCHEDULE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                              |          |              |                      |                 |        |                                                                                                          |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------|----------|--------------|----------------------|-----------------|--------|----------------------------------------------------------------------------------------------------------|-------|
| <div><div>GENERAL:</div><div><div>ALL LED'S SHALL BE 4000K CORRELATED COLOR TEMPERATURE, MINIMUM 80 CRI</div><div>ALL FIXTURES SHALL ADHERE TO LM79 AND LM80 STANDARDS</div><div>ALL APARTMENT LIGHT FIXTURES SHALL BE ENERGY STAR CERTIFIED</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |                                              |          |              |                      |                 |        |                                                                                                          |       |
| <div><div>NOTES:</div><div><div>1. PROVIDE FIXTURE WITH EMERGENCY BATTERY INTEGRAL CHARGER WITH SELF-DIAGNOSTIC/SELF-TESTING ELECTRONICS.</div><div>2. FIXTURE SHALL BE CAPABLE OF WALL OR CEILING MOUNT APPLICATIONS AND SHALL HAVE BREAK-OUT DIRECTIONAL CHEVRONS.</div><div>3. FIXTURE SHALL BE CAPABLE OF OPERATION IN TEMPERATURES RANGING FROM -4 °F THROUGH 104 °F.</div><div>4. U.L. LISTED FOR 'WET LOCATION'.</div><div>5. U.L. LISTED FOR 'DAMP LOCATION'.</div><div>6. PROVIDE FIXTURE/POLE ASSEMBLY WITH 20" ROUND STRAIGHT STEEL POLE, BLACK TO MATCH FIXTURE.</div><div>7. FIXTURE/POLE ASSEMBLY SHALL BE RATED FOR 100 MPH WIND LOADS. PROVIDE WITH VIBRATION DAMPER PER MANUFACTURER'S RECOMMENDATIONS.</div><div>8. WHERE INSTALLED OUTSIDE OR IN BATHROOMS FIXTURE SHALL BE 'DAMP LOCATION' U.L. LISTED, WHERE ABOVE SHOWERS OR BATHRUBS FIXTURE SHALL BE 'WET LOCATION' U.L. LISTED.</div><div>9. PROVIDE FIXTURE WITH INTEGRAL OCCUPANCY SENSOR AND CONTROLS TO DIM FIXTURE TO 50% LIGHT OUTPUT WHEN UNOCCUPIED.</div><div>10. PROVIDE FIXTURE/POLE ASSEMBLY WITH 20" ROUND STRAIGHT STEEL POLE, BLACK TO MATCH FIXTURE.</div><div>11. PROVIDE FIXTURE WITH MCHAN-8-LP MOUNTING CHANNEL. COORDINATE INSTALLATION REQUIREMENTS WITH G.C.</div></div></div> |                       |                                              |          |              |                      |                 |        |                                                                                                          |       |
| MARK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MANUFACTURER          | MODEL NUMBER                                 | WATTAGE  | LUMEN OUTPUT | DRIVER               | MOUNTING        | FINISH | DESCRIPTION                                                                                              | NOTES |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SELECTED BY ARCHITECT | SELECTED BY ARCHITECT                        |          |              | STANDARD             | SURFACE WALL    | ---    | ENTRANCE OCCUPANCY CONTROLLED BY ARCHITECT                                                               | ---   |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ---                   | ---                                          |          |              | STANDARD             | SURFACE WALL    | ---    | 24" BATHROOM VANITY LIGHT SELECTED BY INTERIOR DESIGNER                                                  | ---   |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | HALO                  | SMX6RLSFS02W                                 | 13.00 W  | 1200 lm      | LED DRIVER, DIMMABLE | CEILING SURFACE | WHITE  | 6" DIA. ROUND SURFACE MOUNT DOWNLIGHT WITH SELECTABLE LUMEN OUTPUT                                       | 8     |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LITHONIA              | EU2L                                         |          |              | ---                  | SURFACE WALL    | WHITE  | TWO HEAD EMERGENCY LIGHT                                                                                 | 1     |
| F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DAY-BRITE CFI         | FSS440L840-UNV-DIM                           | 30.00 W  | 4077 lm      | LED DRIVER, DIMMABLE | SUSPENDED       | WHITE  | 4' STANDARD STRIP WITH CURVED FROSTED ACRYLIC LENS                                                       | ---   |
| G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | HALO                  | SMX14LR-05602W                               | 26.00 W  | 2000 lm      | 0-10V DIMMING TO 5%  | CEILING SURFACE | WHITE  | 4" DIA. ROUND SURFACE MOUNT DOWNLIGHT WITH SELECTABLE LUMEN OUTPUT                                       | 8     |
| H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TIVOLI                | TPLDLB3012                                   | 1.46 W   | 120 lm       | STANDARD             | ---             | WHITE  | LED STRIP TAPE LIGHT                                                                                     | 11    |
| K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DAY-BRITE CFI         | FSS440L840-UNV-DIM                           | 30.00 W  | 4077 lm      | LED DRIVER, DIMMABLE | CEILING SURFACE | WHITE  | 4' STANDARD STRIP WITH CURVED FROSTED ACRYLIC LENS                                                       | ---   |
| L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ---                   | ---                                          |          |              | STANDARD             | CEILING SURFACE | ---    | PENDANT LIGHT SELECTED BY INTERIOR DESIGNER                                                              | 5     |
| M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LITHONIA              | P6RD12094WCL-Z10U                            | 10.00 W  | 1000 lm      | 0-10V DIMMING TO 10% | RECESSED        | WHITE  | 6" ROUND RECESSED DOWNLIGHT                                                                              | ---   |
| N1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | GARDCO                | GCM-B05-840-WAW-SPT                          | 36.00 W  | 3000 lm      | STANDARD             | SURFACE WALL    | BLACK  | EXTERIOR LED UP/DOWN WALL SCONCE WITH SPOT UP AND WALL WASH DOWN DISTRIBUTION                            | 5     |
| N2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | GARDCO                | GCM-B02-840-SPT                              | 18.00 W  | 1611 lm      | STANDARD             | SURFACE WALL    | BLACK  | EXTERIOR LED UP ONLY WALL SCONCE WITH SPOT DISTRIBUTION                                                  | 5     |
| O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LITHONIA              | WL4-40L-EZ1-LP840-MSD7-DIM50-E10WLCP         | 39.50 W  | 3927 lm      | LED DRIVER, DIMMABLE | SURFACE WALL    | WHITE  | 4 FT. WALL MOUNTED STAIRWELL LIGHT WITH EMERGENCY BATTERY BACKUP                                         | 9     |
| R1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LITHONIA              | DSX0 LED P6 40K T4M MVOLT                    | 137.00 W | 17391 lm     | STANDARD             | POLE            | BLACK  | LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH IES TYPE IV DISTRIBUTION                                   | 4,6,7 |
| R2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LITHONIA              | DSX2 LED P4 40K BLC4 MVOLT                   | 93.00 W  | 8326 lm      | STANDARD             | POLE            | BLACK  | LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH IES TYPE IV DISTRIBUTION AND BACKLIGHT CONTROL             | 4,6,7 |
| R3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LITHONIA              | DSX0 LED P1 40K BCL3 MVOLT                   | 34.00 W  | 3344 lm      | STANDARD             | POLE            | BLACK  | LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH IES TYPE III DISTRIBUTION AND BACKLIGHT CONTROL            | 4,6,7 |
| S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ACCLAIM               | DFB-111-AKEU                                 | 50.00 W  | 2455 lm      | STANDARD             | GRADE           | BLACK  | IP-66 RATED, GRADE MOUNTED LED FLOOD LIGHT                                                               | 4     |
| T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LITHONIA              | FEM-L48-4000LM-IMAFI-WD-MVOLT-GZ10-40K-80CRI | 23.80 W  | 3525 lm      | STANDARD             | SURFACE WALL    | WHITE  | 4 FT. FULLY ENCLOSED AND GASKETED INDUSTRIAL FIXTURE WITH FROSTED, RIBBED, IMPACT-RESISTANT ACRYLIC LENS | ---   |
| W1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LITHONIA              | WPX1 LED P1 40K MVOLT DBLXD                  | 11.00 W  | 1568 lm      | STANDARD             | SURFACE WALL    | BLACK  | EXTERIOR LED WALL PACK                                                                                   | 4     |
| W1E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LITHONIA              | WPX1 LED P1 40K MVOLT E14WC DBLXD            | 11.00 W  | 1568 lm      | STANDARD             | SURFACE WALL    | BLACK  | EXTERIOR LED WALL PACK WITH EMERGENCY BATTERY BACKUP                                                     | 4     |
| W2E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LITHONIA              | WPX1 LED P2 40K MVOLT E14WC DBLXD            | 24.00 W  | 2912 lm      | STANDARD             | SURFACE WALL    | BLACK  | EXTERIOR LED WALL PACK WITH EMERGENCY BATTERY BACKUP                                                     | 4     |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LIFE SAFETY LIGHTING  | LSXS2RVEHMSDT                                |          |              | ---                  | CEILING / WALL  | WHITE  | UNIVERSAL SINGLE/DOUBLE FACE POLYCARBONATE EXIT SIGN                                                     | 2     |
| XE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LITHONIA              | LHQM LED R HO                                |          |              | ---                  | WALL            | WHITE  | COMBO EXIT/EMERGENCY LIGHTING UNIT                                                                       | 1,2   |



- 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.

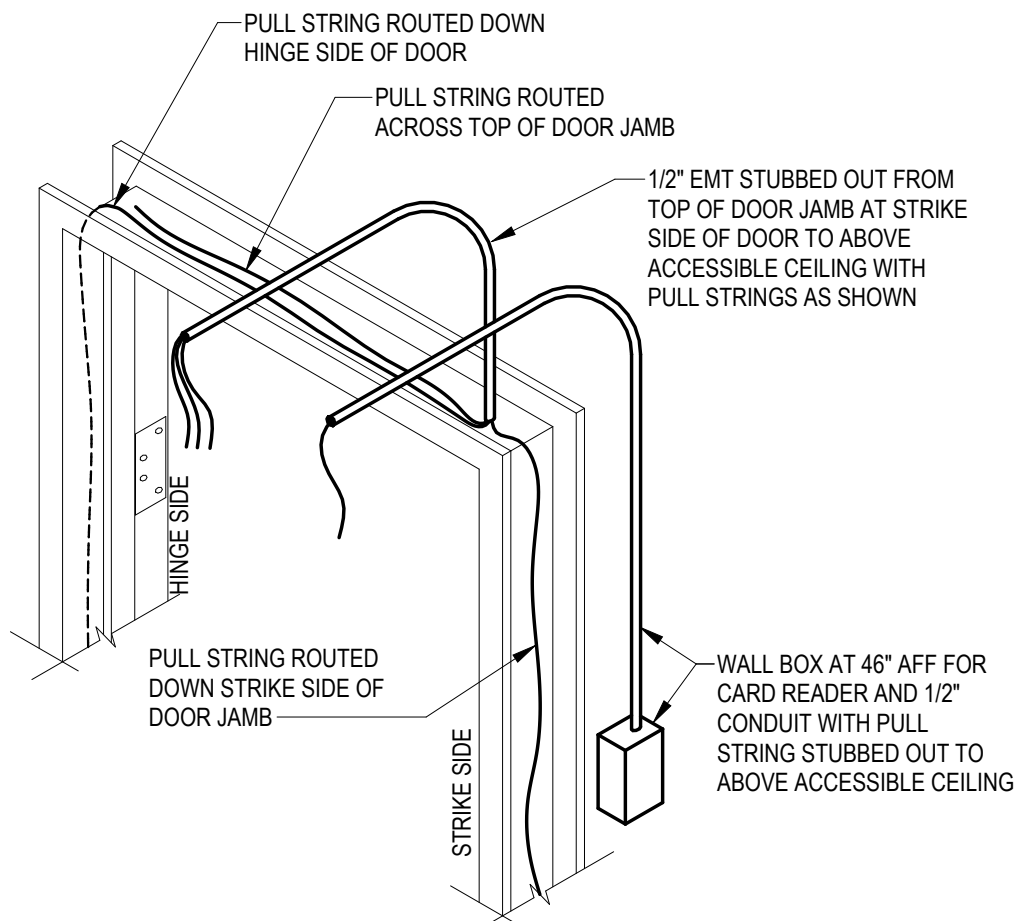
3. PUSH BUTTON SHALL BE SELECTED BY INTERIOR DESIGNER/MOUNT AT 48" AFF. ENSURE COMPATIBILITY WITH ACCESSIBLE UNIT HORN STROBE.

4. POWER SUPPLY SHALL BE A LOW VOLTAGE CLASS 2 TRANSFORMER COMPATIBLE WITH DOORBELL SELECTED BY INTERIOR DESIGNER. 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.

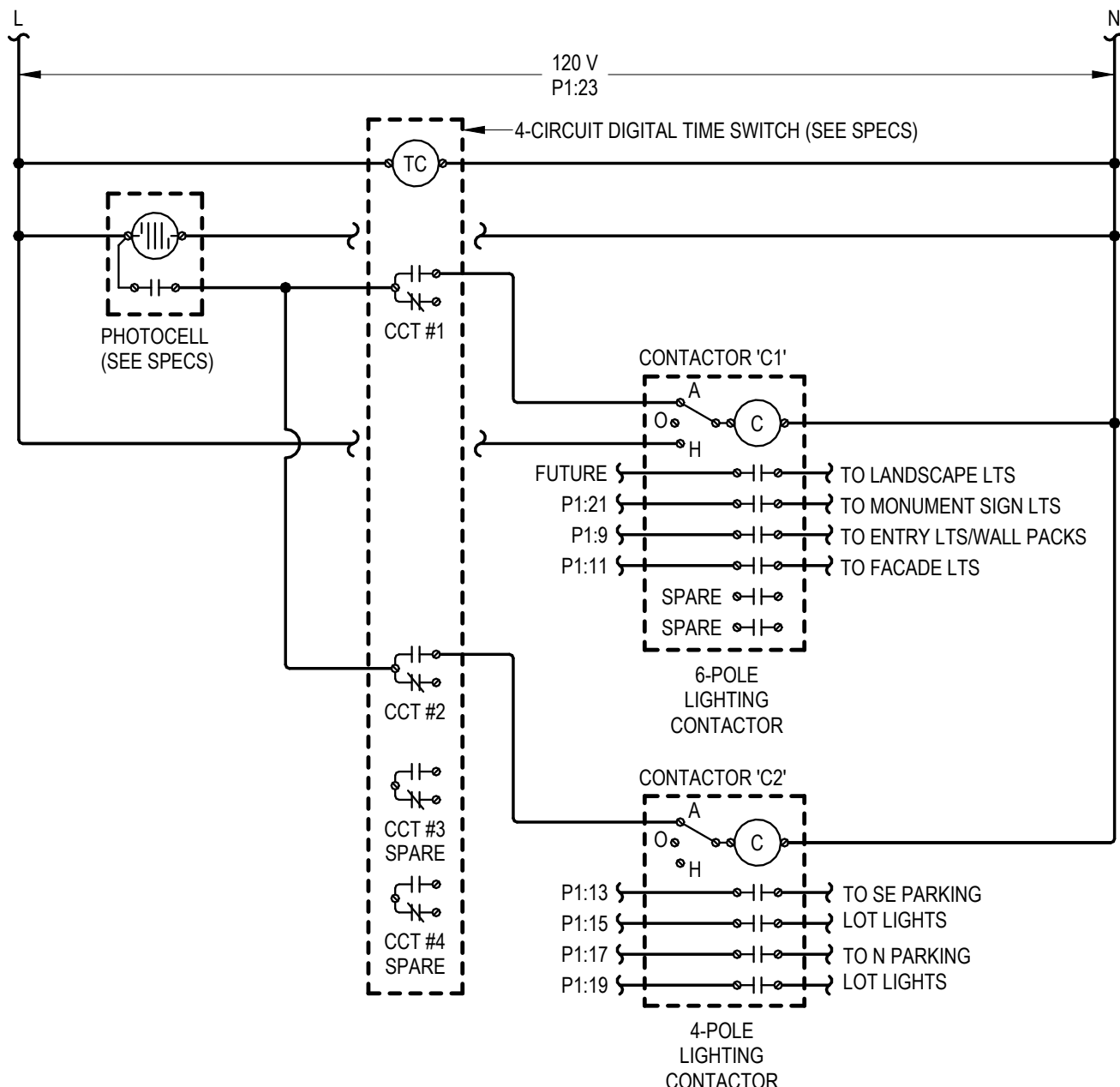
ACCESSIBLE APARTMENT DOORBELL WIRING SCHEMATIC

12" = 1'-0"



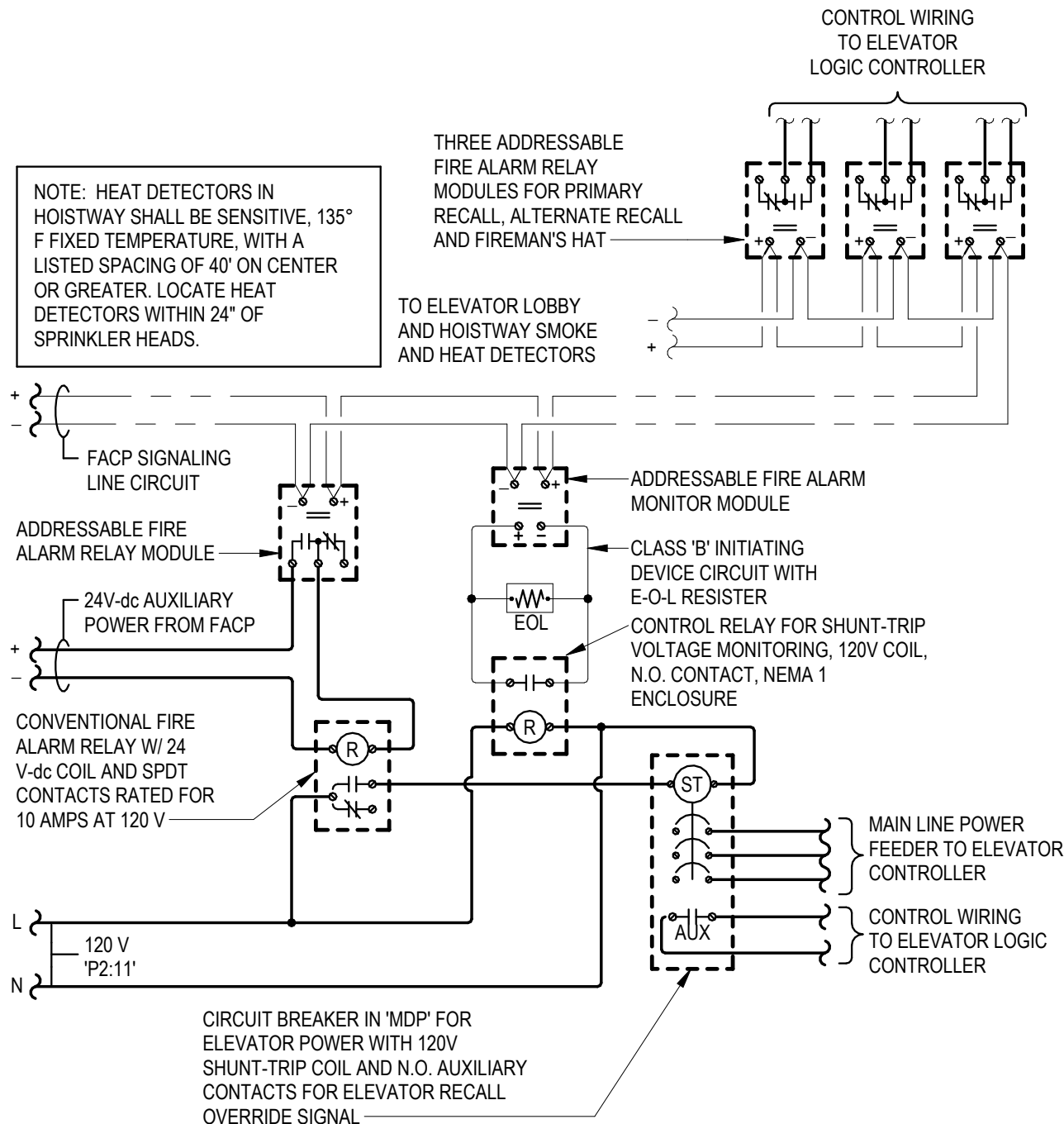
DOOR ACCESS CONTROL ROUGH-IN DIAGRAM

12" = 1'-0"



LIGHTING CONTROL DIAGRAM

NO SCALE



- ELEVATOR RECALL AND SHUT-DOWN SEQUENCE OF OPERATION:
1. UPON SENSING SMOKE FROM ONE OR MORE ELEVATOR LOBBY OR HOISTWAY, THE SMOKE DETECTOR SHALL SIGNAL THE FIRE ALARM CONTROL PANEL, WHICH WILL FORWARD THE SIGNAL TO THE ELEVATOR LOGIC CONTROLLER VIA ADDRESSABLE RELAY MODULES TO RECALL ELEVATOR CAB TO THE PRIMARY RECALL FLOOR. IF PRIMARY RECALL FLOOR'S LOBBY SMOKE DETECTOR SENSES SMOKE AT THAT FLOOR, THE ELEVATOR CONTROLLER WILL SEND THE ELEVATOR CAB TO THE NEXT FLOOR CLEAR OF SMOKE. ONCE THE ELEVATOR CAB HAS REACHED THE DESIGNATED FLOOR, THE ELEVATOR CAB DOORS WILL OPEN AND THE CONTROLLER WILL LOCK THE ELEVATOR CAB AT THAT FLOOR, DISABLING THE ELEVATOR CAB CONTROLS, UNLESS A FIREMAN'S KEY IS USED TO OVERRIDE AUTOMATIC CONTROLS.

2. ALL SMOKE DETECTORS ASSOCIATED WITH ELEVATOR RECALL (LOBBY AND HOISTWAY) SHALL TRANSMIT A SEPARATE AND DISTINCT VISIBLE ANNUNCIATION AT THE FIRE ALARM CONTROL PANEL.

3. UPON SENSING A HEAT ALARM CONDITION IN THE ELEVATOR HOISTWAY, THE HEAT DETECTOR SHALL SIGNAL THE FIRE ALARM CONTROL PANEL, WHICH WILL FORWARD THE SIGNAL TO THE ADDRESSABLE RELAY MODULE TO ACTIVATE (VIA A CONVENTIONAL FIRE ALARM RELAY) THE SHUNT-TRIP BREAKER POWERING THE ELEVATOR SO AS TO DISCONNECT POWER TO THAT CIRCUIT. THIS IS TO BE A NON-AUTO RESET SWITCH. WHEN THE SPRINKLER HEAD HAS REACHED ITS CRITICAL TEMPERATURE OF 165° F., THE HEAD WILL BEGIN DISCHARGE OF WATER.

ELEVATOR RECALL AND SHUT-DOWN WIRING DIAGRAM

NO SCALE





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# IOWA

# NEW SENIOR LIVING FACILITY

## CARTER LAKE.



DATE: 8-1-2025  
JOB: 25-3489  
SHEET NO.:

### E6.3

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|                                                                        |  |  |  |  |  |                                 |  |
|------------------------------------------------------------------------|--|--|--|--|--|---------------------------------|--|
| <b>Panelboard: H1</b>                                                  |  |  |  |  |  | <b>Voltage:</b> 208 V, 3 Ø, 4 W |  |
| <b>Location:</b> MECH 131                                              |  |  |  |  |  | <b>Bus Rating:</b> 600 A        |  |
| <b>Supply:</b> Utility Transformer                                     |  |  |  |  |  | <b>Neutral:</b> 100%            |  |
| <b>Mounting:</b> Surface                                               |  |  |  |  |  | <b>Mains Type:</b> MCB          |  |
| <b>Enclosure:</b> NEMA 1                                               |  |  |  |  |  | <b>Mains Rating:</b> 600 A      |  |
| <b>Features &amp; Modifications:</b> PROVIDE INTEGRAL SURGE PROTECTION |  |  |  |  |  | <b>Mains FN/Note:</b> -         |  |
|                                                                        |  |  |  |  |  | <b>SCCR:</b> 42 kA              |  |

| Ckt  | Description | Frame (A) | Trip (A) | Poles | FN/Note | Load  |
|------|-------------|-----------|----------|-------|---------|-------|
| H1-1 | P1          | 225       | 225      | 3     |         | 5361A |
| H1-2 | P2          | 100       | 100      | 3     |         | 11863 |
| H1-3 | P3          | 150       | 150      | 3     |         | 51519 |
| H1-4 | Elevator    | 300       | 300      | 3     |         | 81000 |
| H1-5 | Space       | --        | --       | 3     |         | --    |
| H1-6 | Space       | --        | --       | 3     |         | --    |

| Load Summary           |           |         |          |                      |         |  |
|------------------------|-----------|---------|----------|----------------------|---------|--|
| Load Classification    | Connected | Factor  | Demand   | Panel Totals         |         |  |
| Motor                  | 4654 VA   | 107.60% | 5008 VA  | Connected Load:      | 198 kVA |  |
| Other                  | 1440 VA   | 100.00% | 1440 VA  | Connected Current:   | 550 A   |  |
| Lighting - Interior    | 6522 VA   | 125.00% | 8153 VA  | Demand Load:         | 210 kVA |  |
| Receptacle - General   | 19620 VA  | 75.48%  | 14810 VA | Demand Current:      | 582 A   |  |
| Electric Water Heating | 4500 VA   | 125.00% | 5625 VA  | Non-Coincident...    | 75.1 A  |  |
| Electric Heat          | 53220 VA  | 125.00% | 66525 VA | Total Est. Demand... | 506.7 A |  |
| Elevator               | 81000 VA  | 100.00% | 81000 VA |                      |         |  |
| Cooling                | 27040 VA  | 100.00% | 27040 VA |                      |         |  |

**Notes:**

| Breaker Function Schedule |                                                                                                                   |
|---------------------------|-------------------------------------------------------------------------------------------------------------------|
| #                         | For any number, see panel schedule footer note                                                                    |
| A                         | Arc-Fault Interrupter (AFCI) Protection                                                                           |
| G                         | Ground-Fault Circuit Interrupter (GFCI) Protection (5 mA)                                                         |
| GA                        | Combination Ground-Fault Circuit Interrupter (GFCI) Protection (5 mA) and Arc-Fault Interrupter (AFCI) Protection |
| L                         | Lockable open according to NEC 110.25                                                                             |

Designation: P1

Installed Location: MECH 131

Voltage: 208Y/120 3PH 4W-3PH-4W

Mounting: Surface

Enclosure: NEMA 1

Bus Amps: 225

MCB Amps: MLO

Features & Modifications: PROVIDE INTEGRAL SURGE PROTECTION

SCCR/ICA: 22.0 kA

Mains FNNote: -

| Ckt             | Description                  | Circuitry         | Trip (A) | FN         | A        | B          | C        | FN         | Trip (A) | Circuitry         | Description                   | Ckt                                |       |
|-----------------|------------------------------|-------------------|----------|------------|----------|------------|----------|------------|----------|-------------------|-------------------------------|------------------------------------|-------|
| P1-1            | LTS - 119, 120, 121          | 1/2",1F12#12N#12G | 20       | 28...      | 36...    |            |          |            | 20       | 1/2",1F12#12N#12G | RCPT - 119, 120               | P1-2                               |       |
| P1-3            | LTS - 124 Community          | 1/2",1F12#12N#12G | 20       |            |          | 59...      | 54...    |            | 20       | 1/2",1F12#12N#12G | RCPT - 121                    | P1-4                               |       |
| P1-5            | LTS - 126-131, Stair S2      | 1/2",1F12#12N#12G | 20       |            |          |            | 79...    | 54...      | 20       | 1/2",1F12#12N#12G | RCPT - 121, S2                | P1-6                               |       |
| P1-7            | LTS - 132, Stair S3          | 1/2",1F12#12N#12G | 20       | 17...      | 72...    |            |          |            | 20       | 1/2",1F12#12N#12G | RCPT - West 124               | P1-8                               |       |
| P1-9            | LTS - Exterior Wall Packs    | 1/2",1F12#12N#12G | 20       |            |          | 11...      | 90...    |            | 20       | 1/2",1F12#12N#12G | RCPT - East 124               | P1-10                              |       |
| P1-11           | LTS - Exterior Wall Scones   | 1/2",1F12#12N#12G | 20       |            |          |            |          | 68...      | 18...    | 20                | 1/2",1F12#12N#12G             | RCPT - Refrigerator                | P1-12 |
| P1-13           | LTS - South/East Parking Lot | 1/2",2#12#12G     | 20       | 51...      | 36...    |            |          |            | 20       | 1/2",1F12#12N#12G | RCPT - Countertop             | P1-14                              |       |
| P1-15           |                              |                   |          |            |          | 51...      | 36...    |            | 20       | 1/2",1F12#12N#12G | RCPT - Countertop             | P1-16                              |       |
| P1-17           | LTS - North Parking Lot      | 1/2",2#12#12G     | 20       |            |          |            |          | 37...      | 18...    | 20                | 1/2",1F12#12N#12G             | RCPT - Dishwasher                  | P1-18 |
| P1-19           | LTS - Monument Sign          | 1/2",1F12#12N#12G | 20       | 37...      | 72...    |            |          |            |          | 20                | 1/2",1F12#12N#12G             | RCPT - 125                         | P1-20 |
| P1-23           | Exterior Lighting Controls   | 1/2",1F12#12N#12G | 20       |            |          | 22...      | 54...    | 0 VA 54... |          | 20                | 1/2",1F12#12N#12G             | RCPT - 132, 129                    | P1-22 |
| P1-25           | LTS - Elevator Pit           | 1/2",1F12#12N#12G | 20       | 24...      | 18...    |            |          |            | 20       | 1/2",1F12#12N#12G | Drinking Fountain             | P1-26                              |       |
| P1-27           | RCPT - Elevator Pit          | 1/2",1F12#12N#12G | 20       |            |          | 18...      | 36...    |            | L 20     | 1/2",1F12#12N#12G | Fire Alarm Flow Switches      | P1-28                              |       |
| P1-29           | Elevator Pit Pump Sump       | 1/2",1F12#12N#12G | 20       |            |          |            |          | 18...      | 36...    | L 20              | 1/2",1F12#12N#12G             | Fire Alarm Control Panel           | P1-30 |
| P1-31           | RCPT - Exterior              | 1/2",1F12#12N#12G | 20       | 90...      | 22...    |            |          |            | 30       | 1/2",2#10#10G     | Water Heater 'HWH-B'          | P1-32                              |       |
| P1-33           | Blower Coil 'BC-1C'          |                   |          |            |          | 38...      | 22...    |            |          |                   |                               |                                    | P1-34 |
| P1-35           | 1st Floor Halls/Mezzanine    | 3/4",2#6#10G      | 50       |            |          |            |          | 38...      | 11...    | 20                | 1/2",1F12#12N#12G             | Hot Water Recirculation Pump 'HWP' | P1-36 |
| P1-37           | Blower Coil 'BC-2'           |                   |          | 43...      | 15...    |            |          |            |          | 20                | 1/2",2#10#10G                 | Electric Heater 'EWH' - Stair S1   | P1-40 |
| P1-39           | Community Room               | 3/4",2#4#10G      | 60       |            |          | 43...      | 15...    | 31...      | 15...    |                   |                               |                                    | P1-42 |
| P1-41           | Blower Coil 'BC-1B'          |                   |          |            |          |            |          |            |          |                   |                               |                                    | P1-43 |
| P1-43           | Stair S2                     | 1/2",2#8#10G      | 40       | 31...      | 15...    |            |          |            |          | 20                | 1/2",2#12#12G                 | Electric Heater 'EWH-B' - Stair S2 | P1-44 |
| P1-45           | Spare                        | --                | 20       |            |          | 0 VA 15... |          |            |          | 20                | 1/2",2#10#10G                 | Electric Heater 'EWH-B' - Stair S3 | P1-46 |
| P1-47           | Spare                        | --                | 20       |            |          |            |          | 0 VA 15... |          | 20                | 1/2",2#10#10G                 | Electric Heater 'EWH-B' - Stair S3 | P1-48 |
| P1-49           | Spare                        | --                | 20       | 0 VA 15... |          |            |          |            |          | 20                | 1/2",2#8#8G                   | Electric Heater 'EWH-B' - 119      | P1-50 |
| P1-51           | Space                        | --                | --       | --         | --       | 15...      |          | 15...      | 20       | 1/2",1#8#8N#8G    | Electric Heater 'HWH-A' - 120 | P1-52                              |       |
| P1-53           | Space                        | --                | --       | --         | --       |            |          |            | 20       |                   |                               |                                    | P1-54 |
| P1-55           | Space                        | --                | --       | --         | --       |            |          |            | --       | --                | Space                         | Space                              | P1-56 |
| P1-57           | Space                        | --                | --       | --         | --       |            |          |            | --       | --                | Space                         | Space                              | P1-58 |
| P1-59           | Space                        | --                | --       | --         | --       |            |          |            | --       | --                | Space                         | Space                              | P1-60 |
| Connected Load: |                              |                   |          |            | 18835 VA | 19267 VA   | 15512 VA |            |          |                   |                               |                                    |       |
| Connected Amps: |                              |                   |          |            | 161.2 A  | 164.8 A    | 129.3 A  |            |          |                   |                               |                                    |       |

Designation: P2

Installed Location: MECH 108

Voltage: 208Y/120 3PH 4W-3PH-4W

Mounting: Surface

Enclosure: NEMA 1

Bus Amps: 100

MCB Amps: MLO

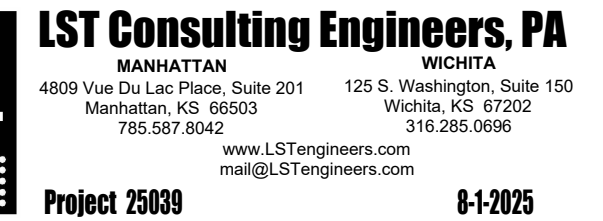
Features & Modifications: PROVIDE INTEGRAL SURGE PROTECTION

SCCR/AIC: 22.0 kA

Mains F/N/Note: -

| Ckt             | Description                   | Circuitry            | Trip (A) | FN    | A       | B       | C       | FN    | Trip (A) | Circuitry            | Description               | Ckt   |
|-----------------|-------------------------------|----------------------|----------|-------|---------|---------|---------|-------|----------|----------------------|---------------------------|-------|
| P2-1            | LTS - 219, 220, Stair S1      | 1/2"C,1#12,#12N,#12G | 20       | 29... | 72...   |         |         |       | 20       | 1/2"C,1#12,#12N,#12G | RCPT - 219, 220           | P2-2  |
| P2-3            | LTS - 224, 226, Stair S2      | 1/2"C,1#12,#12N,#12G | 20       |       | 45...   | 54...   |         |       | 20       | 1/2"C,1#12,#12N,#12G | RCPT - 224, 226, Stair S2 | P2-4  |
| P2-5            | LTS - 225, Stair S3           | 1/2"C,1#12,#12N,#12G | 20       |       |         |         | 21...   | 54... | 20       | 1/2"C,1#12,#12N,#12G | RCPT - 225                | P2-6  |
| P2-7            | RCPT - 223 NW                 | 1/2"C,1#12,#12N,#12G | 20       | 72... | 54...   |         |         |       | 20       | 1/2"C,1#12,#12N,#12G | RCPT - 223 S/E            | P2-8  |
| P2-9            | Elevator Cab Lights           | 1/2"C,1#12,#12N,#12G | 20       |       | 36...   | 72...   |         |       | 20       | 1/2"C,1#12,#12N,#12G | RCPT - IT 222             | P2-10 |
| P2-11           | Elevator Shunt Trip           | 1/2"C,1#12,#12N,#12G | 20       |       |         |         | 36...   | 20... | 30       | 1/2"C,2#10,#10G      | Blower Cool 'BC-1A'       | P2-12 |
| P2-13           | RCPT - Telecom Backboard      | 1/2"C,1#12,#12N,#12G | 20       | 72... | 20...   |         |         |       |          |                      | 2nd Floor Halls           | P2-14 |
| P2-15           | Electric Heater 'HWH-A' - 219 | 1/2"C,1#8,#8N,#8G    | 20       |       | 15...   | --      | --      | --    | --       | --                   | Space                     | P2-16 |
| P2-17           | Space                         | --                   | --       | --    | --      | --      | --      | --    | --       | --                   | Space                     | P2-18 |
| P2-19           | Space                         | --                   | --       | --    | --      | --      | --      | --    | --       | --                   | Space                     | P2-20 |
| P2-21           | Space                         | --                   | --       | --    | --      | --      | --      | --    | --       | --                   | Space                     | P2-22 |
| P2-23           | Space                         | --                   | --       | --    | --      | --      | --      | --    | --       | --                   | Space                     | P2-24 |
| Connected Load: |                               |                      |          |       | 5081 VA | 3578 VA | 3204 VA |       |          |                      |                           |       |
| Connected Amps: |                               |                      |          |       | 42.8 A  | 30.3 A  | 26.7 A  |       |          |                      |                           |       |





gr

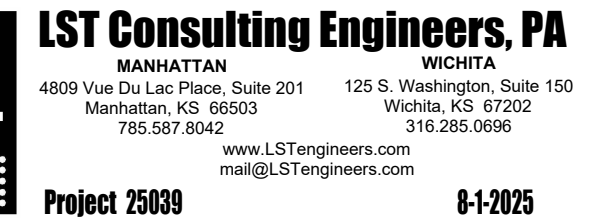
**CARTER LAKE,**

|            |          |
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| DATE:      | 8-1-2025 |
| DOB:       | 25-3489  |
| SHEET NO.: |          |

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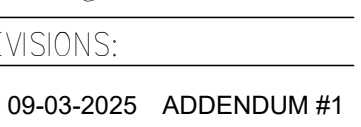


## M1.1



gr

**CARTER LAKE,**



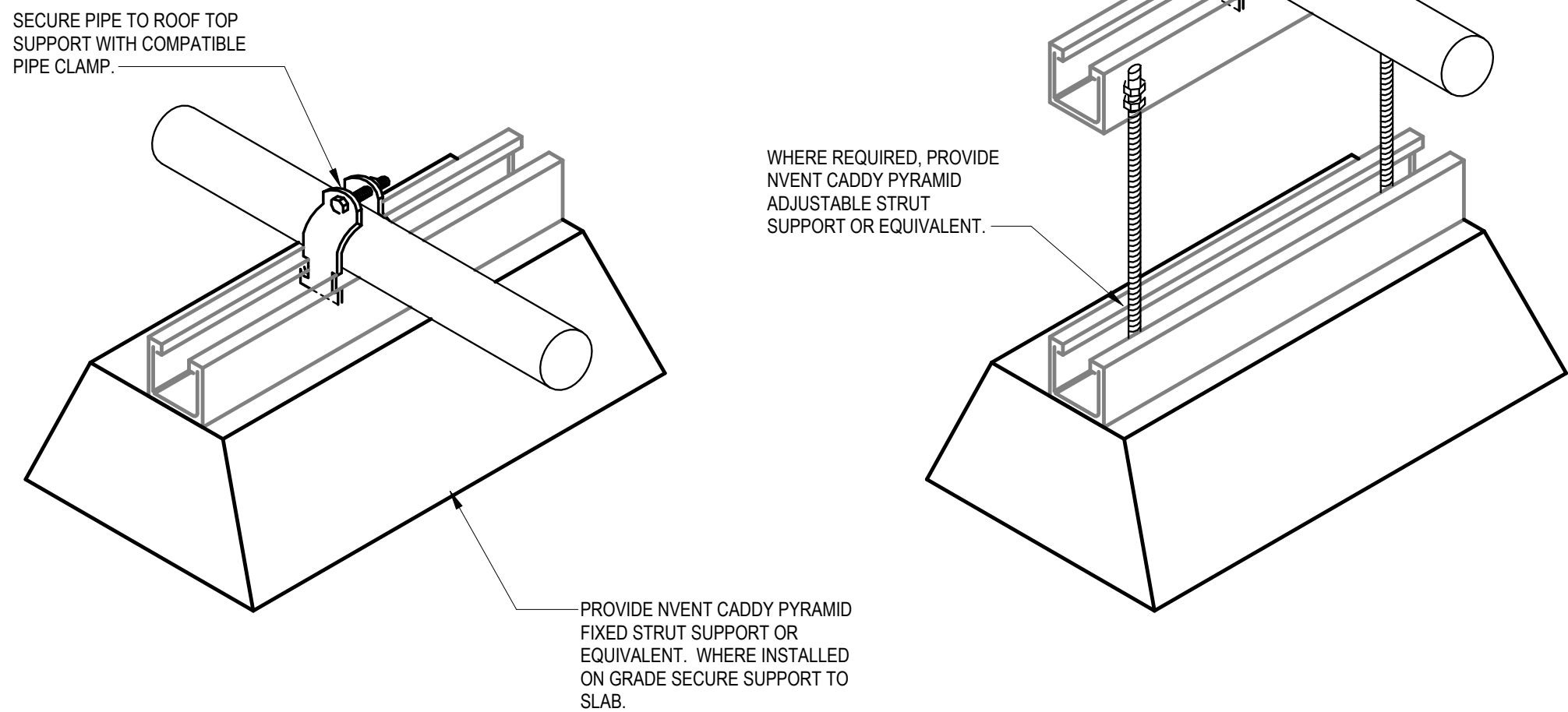
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| B:        | 25-3489  |
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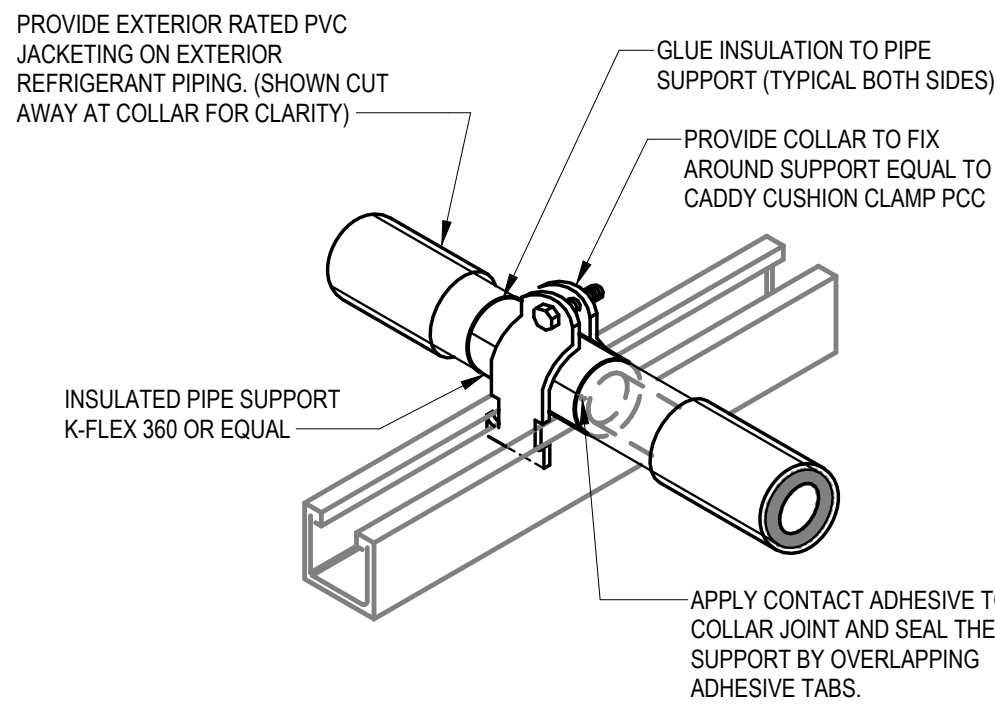

$$3/32'' = 1'-0''$$

M1.2

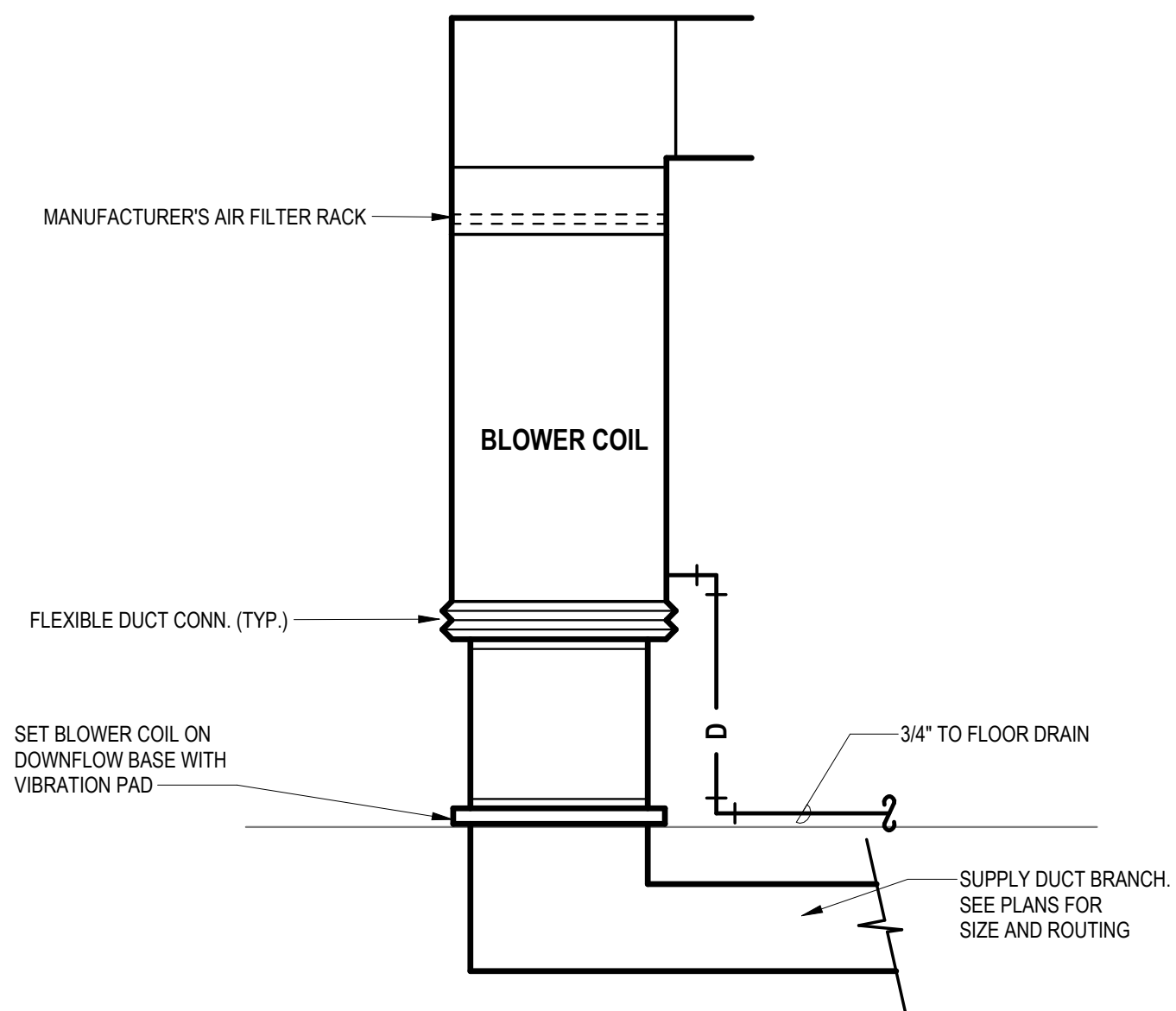




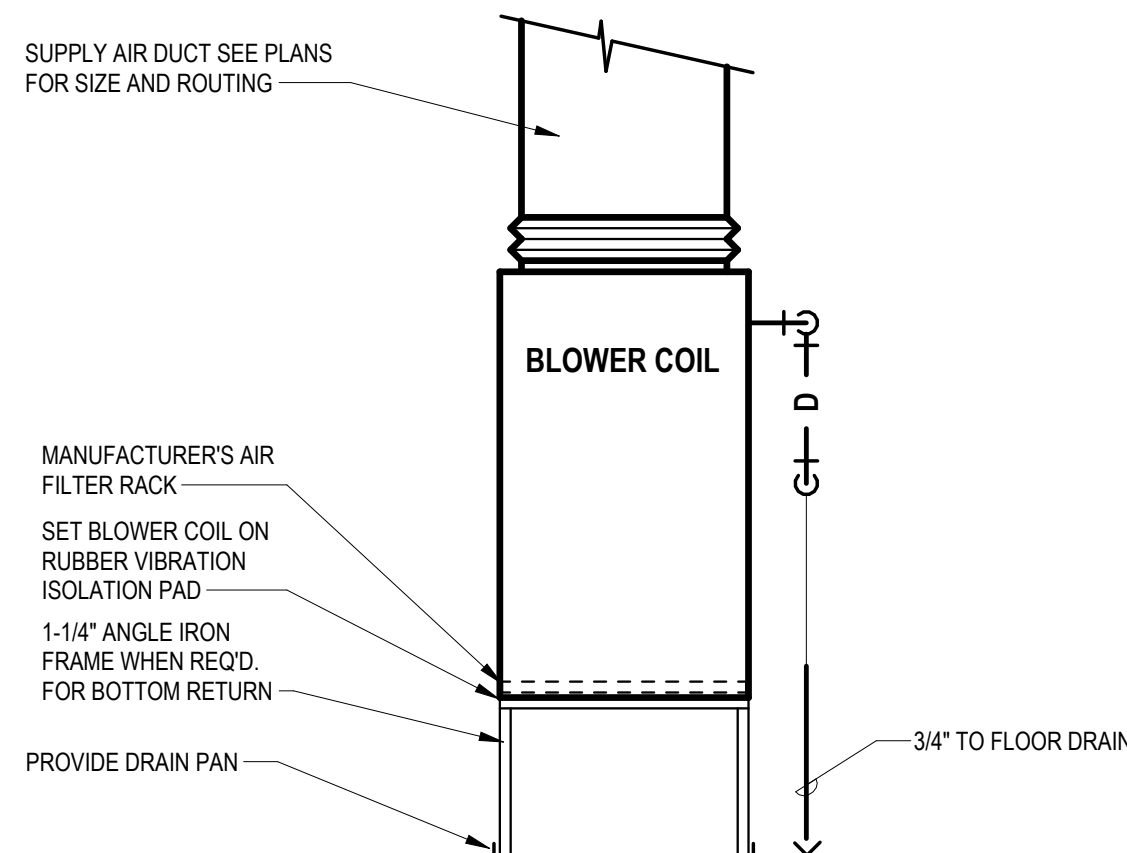
7 EXTERIOR PIPING SUPPORT DETAIL  
NO SCALE



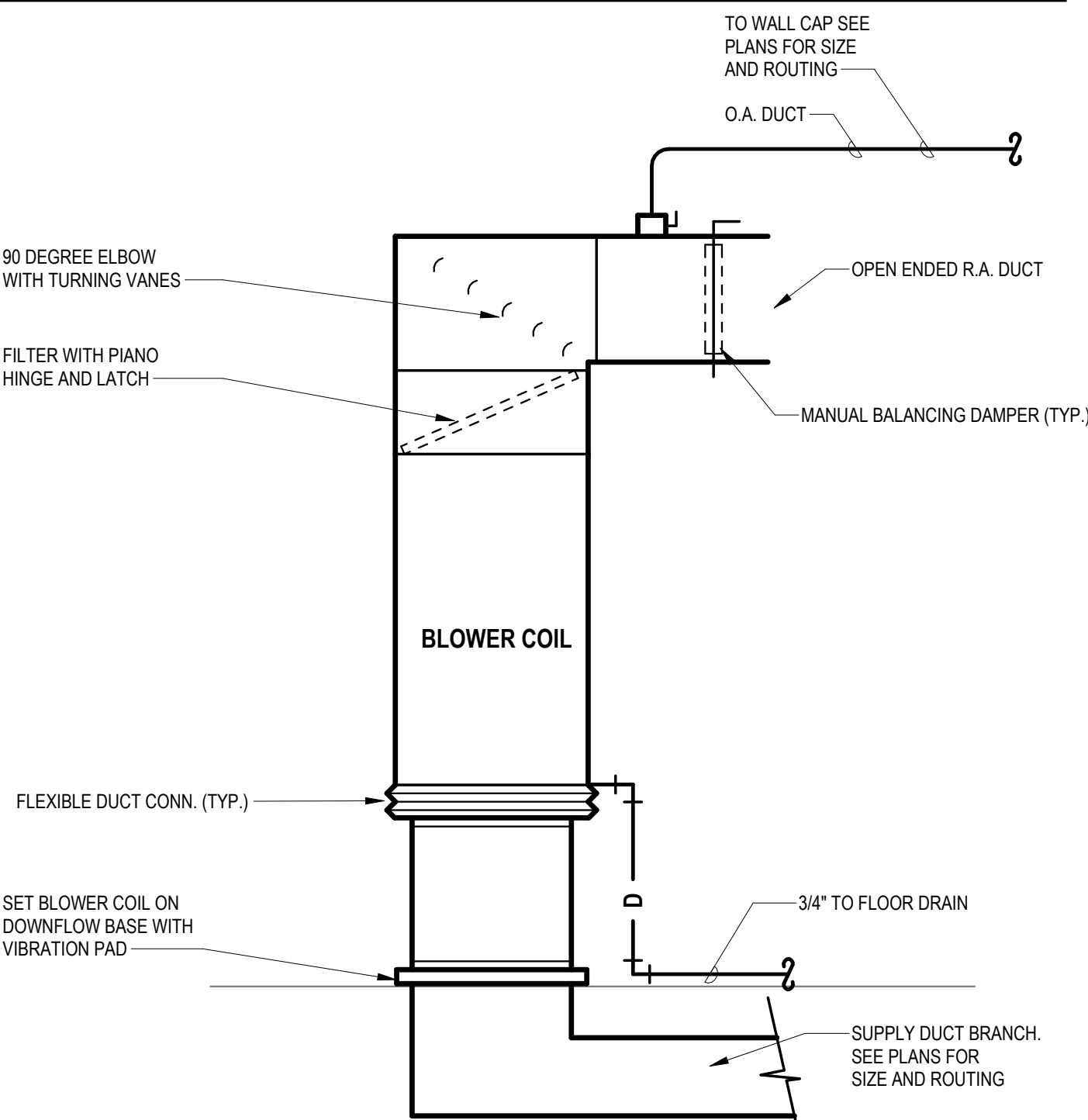
6 EXTERIOR REFRIGRANT PIPING INSULATION DETAIL  
NO SCALE



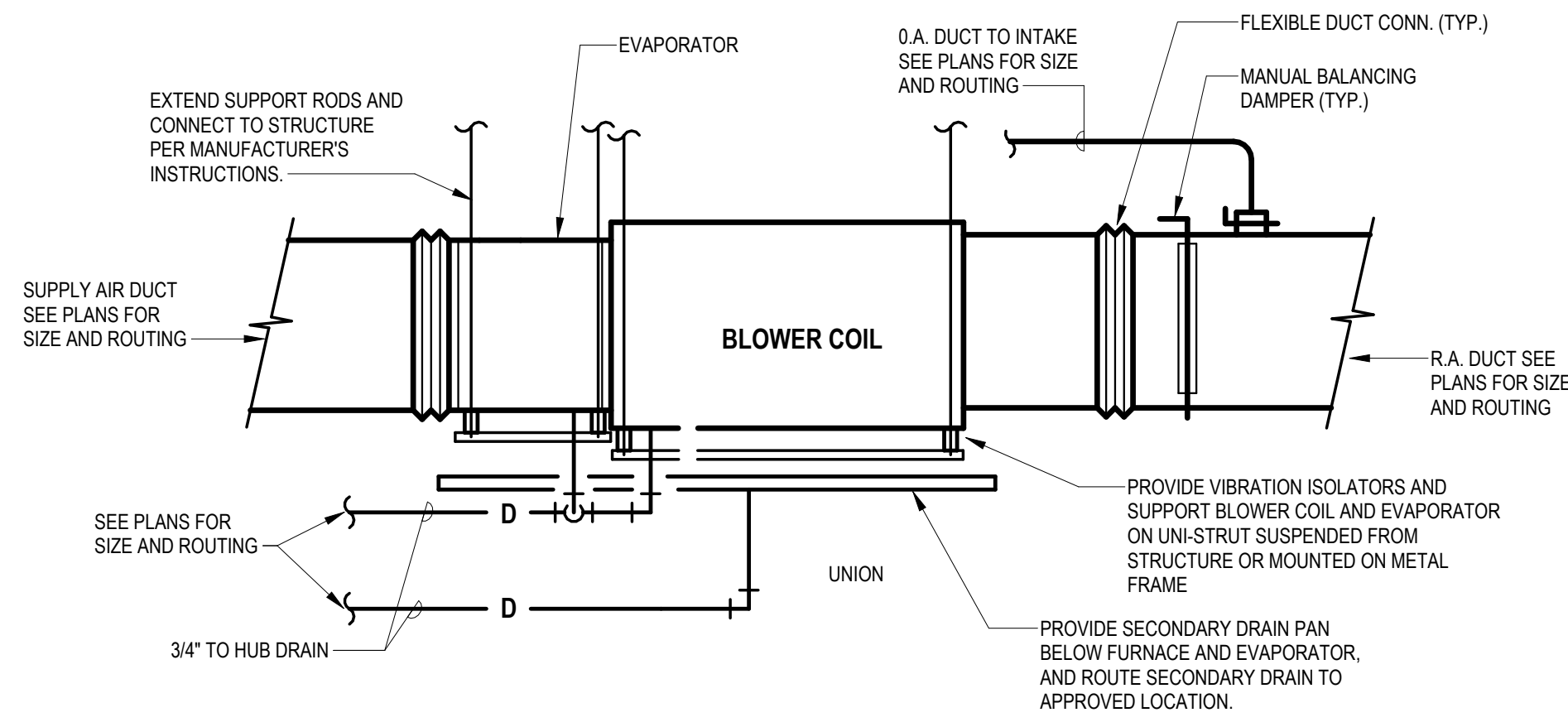
3 APARTMENT DOWNFLOW BLOWER COIL DETAIL  
NO SCALE



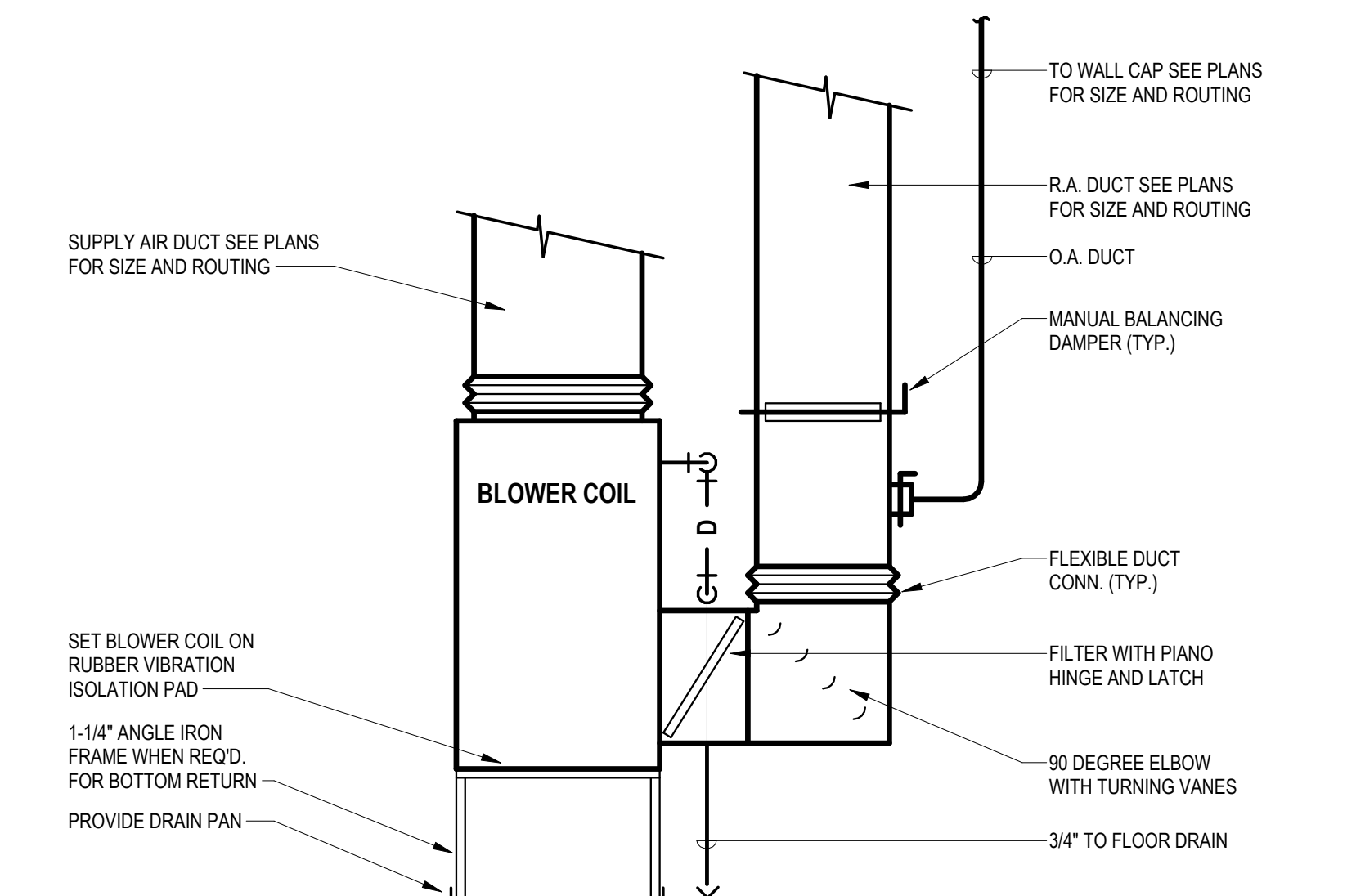
2 APARTMENT UPFLOW BLOWER COIL DETAIL  
NO SCALE



5 DOWNFLOW BLOWER COIL DETAIL - MULTIPURPOSE ROOM  
NO SCALE



4 HORIZONTAL BLOWER COIL DETAIL  
12" = 1'-0"



1 BLOWER COIL DETAIL  
NO SCALE

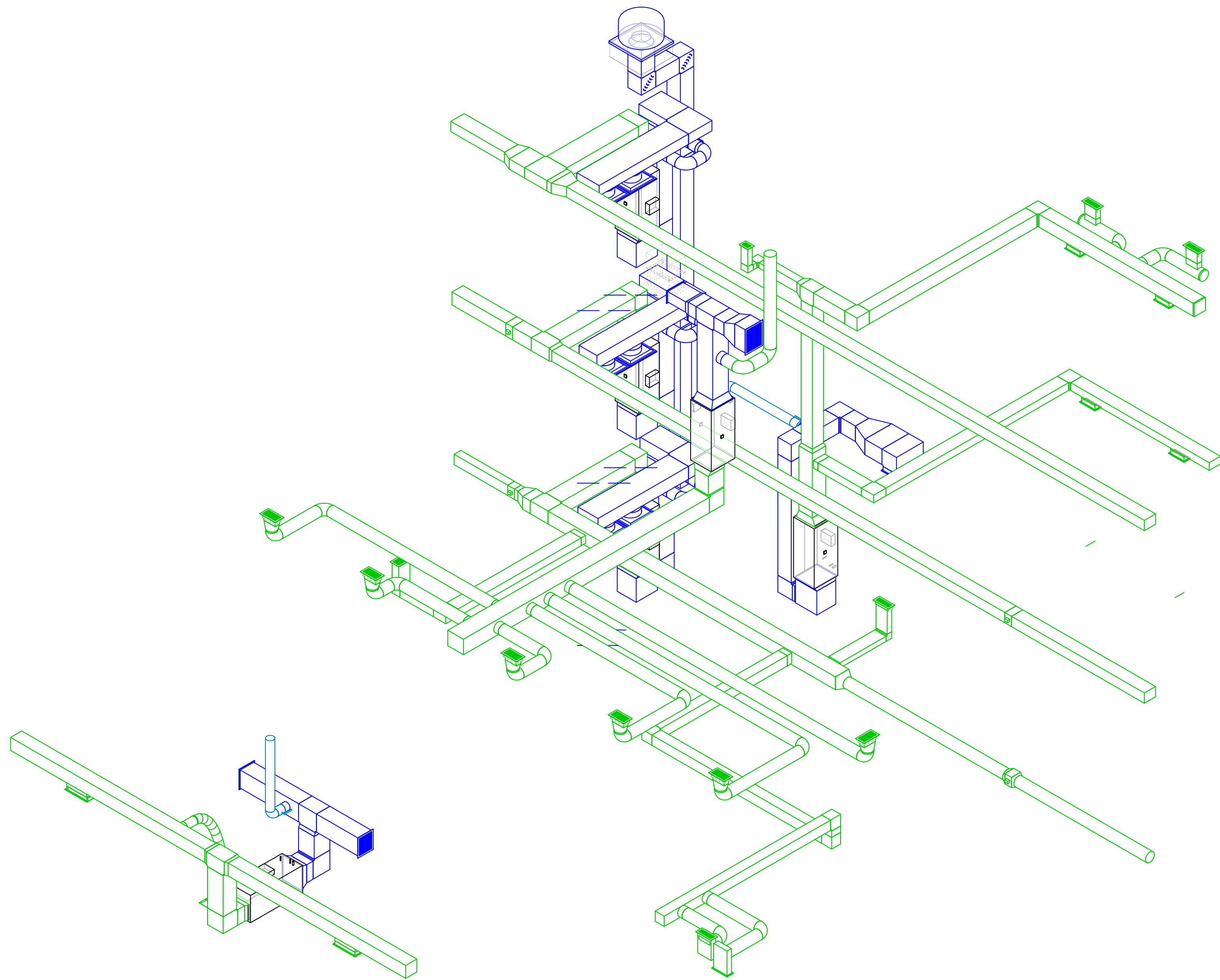
| HEAT PUMP SCHEDULE                                                                                                          |              |          |                  |       |       |       |              |              |       |        |       |              |       |
|-----------------------------------------------------------------------------------------------------------------------------|--------------|----------|------------------|-------|-------|-------|--------------|--------------|-------|--------|-------|--------------|-------|
| NOTES:                                                                                                                      |              |          |                  |       |       |       |              |              |       |        |       |              |       |
| 1. Refrigerant lines shall be field fabricated. Coordinate line sizing requirements with equipment manufacturer for length. |              |          |                  |       |       |       |              |              |       |        |       |              |       |
| MARK                                                                                                                        | MANUFACTURER | MODEL    | NOMINAL CAPACITY | EDB   | EDB   | EWB   | NET SENSIBLE | NET TOTAL    | SEER2 | OA EDB | EDB   | NET TOTAL    | HSPF2 |
| HP-1                                                                                                                        | TRANE        | 5TWR7024 | 2.0 ton          | 95 °F | 78 °F | 63 °F | 18,900 Btu/h | 21,500 Btu/h | 17.1  | 47 °F  | 70 °F | 22,300 Btu/h | 9     |
| HP-2                                                                                                                        | TRANE        | 5TWR7036 | 3.0 ton          | 95 °F | 78 °F | 63 °F | 24,400 Btu/h | 29,700 Btu/h | 17.1  | 47 °F  | 70 °F | 33,400 Btu/h | 9     |
| HEATING                                                                                                                     |              |          |                  |       |       |       |              |              |       |        |       |              |       |
| MARK                                                                                                                        | MANUFACTURER | MODEL    | NOMINAL CAPACITY | EDB   | EDB   | EWB   | NET SENSIBLE | NET TOTAL    | SEER2 | OA EDB | EDB   | NET TOTAL    | HSPF2 |
| HP-1                                                                                                                        | TRANE        | 5TWR7024 | 2.0 ton          | 95 °F | 78 °F | 63 °F | 18,900 Btu/h | 21,500 Btu/h | 17.1  | 47 °F  | 70 °F | 22,300 Btu/h | 9     |
| HP-2                                                                                                                        | TRANE        | 5TWR7036 | 3.0 ton          | 95 °F | 78 °F | 63 °F | 24,400 Btu/h | 29,700 Btu/h | 17.1  | 47 °F  | 70 °F | 33,400 Btu/h | 9     |
| ELECTRICAL                                                                                                                  |              |          |                  |       |       |       |              |              |       |        |       |              |       |
| MARK                                                                                                                        | MANUFACTURER | MODEL    | NOMINAL CAPACITY | EDB   | EDB   | EWB   | NET SENSIBLE | NET TOTAL    | SEER2 | OA EDB | EDB   | NET TOTAL    | HSPF2 |
| HP-1                                                                                                                        | TRANE        | 5TWR7024 | 2.0 ton          | 95 °F | 78 °F | 63 °F | 18,900 Btu/h | 21,500 Btu/h | 17.1  | 47 °F  | 70 °F | 22,300 Btu/h | 9     |
| HP-2                                                                                                                        | TRANE        | 5TWR7036 | 3.0 ton          | 95 °F | 78 °F | 63 °F | 24,400 Btu/h | 29,700 Btu/h | 17.1  | 47 °F  | 70 °F | 33,400 Btu/h | 9     |

| BLOWER COIL SCHEDULE                                                                                                    |              |          |           |               |            |         |       |        |        |
|-------------------------------------------------------------------------------------------------------------------------|--------------|----------|-----------|---------------|------------|---------|-------|--------|--------|
| NOTES:                                                                                                                  |              |          |           |               |            |         |       |        |        |
| 1. Single point connection required, coordinate the exact electrical requirements of equipment provided with E.C.       |              |          |           |               |            |         |       |        |        |
| 2. Electric heater shall not operate simultaneously with heat pump. Electric heater shall be used as back-up heat only. |              |          |           |               |            |         |       |        |        |
| 3. Provide 7-day programmable thermostat compatible with requirements of 2015 IECC.                                     |              |          |           |               |            |         |       |        |        |
| 4. Provide 2 sets of MERV-8 filters.                                                                                    |              |          |           |               |            |         |       |        |        |
| MARK                                                                                                                    | MANUFACTURER | MODEL    | FAN       | ELECTRIC HEAT | ELECTRICAL |         |       |        |        |
|                                                                                                                         |              |          | AIRFLOW   | ESP           | CIRCUIT    | VOLTAGE | PHASE | MCA    | MOCP   |
| BC-1A                                                                                                                   | TRANE        | 5TEM6802 | 700 CFM   | 0.70 in-wg    | 3.6 kW     | 208 V   | 1     | 25.0 A | 25.0 A |
| BC-1B                                                                                                                   | TRANE        | 5TEM6802 | 700 CFM   | 0.70 in-wg    | 5.8 kW     | 208 V   | 1     | 38.0 A | 40.0 A |
| BC-1C                                                                                                                   | TRANE        | 5TEM6802 | 800 CFM   | 0.70 in-wg    | 7.2 kW     | 208 V   | 1     | 47.0 A | 50.0 A |
| BC-2                                                                                                                    | TRANE        | 5TEM6803 | 1,000 CFM | 0.70 in-wg    | 7.2 kW     | 208 V   | 1     | 52.0 A | 60.0 A |

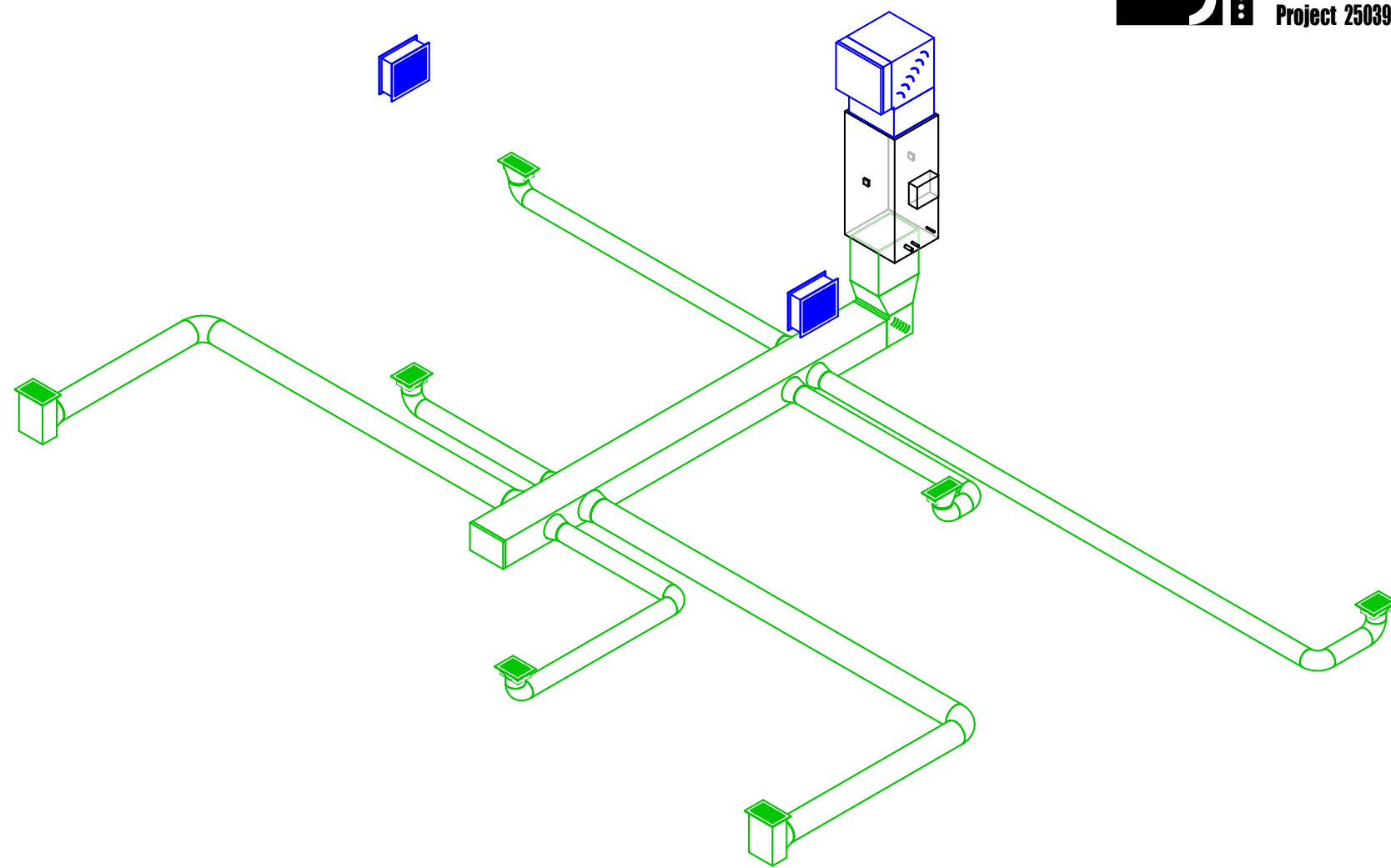
| Electric Cabinet Heater Schedule                                                                                                                            |              |       |          |        |         |       |                                      |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------|----------|--------|---------|-------|--------------------------------------|-------|
| Mark                                                                                                                                                        | Manufacturer | Model | Mounting | Watts  | Voltage | Phase | Description                          | Notes |
| EWH-A                                                                                                                                                       | Trane        | UHWA  | Wall     | 1.5 kW | 120 V   | 1     | Architectural fan forced wall heater | 1,2,4 |
| EWH-B                                                                                                                                                       | 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 recessed mounting adapter sleeve. Coordinate exact mounting requirement and locations with Architect and rated construction. |              |       |          |        |         |       |                                      |       |
| 4. Provide with manufacturer's surface mounting adapter sleeve. Coordinate exact mounting requirements and locations with Architect and rated construction. |              |       |          |        |         |       |                                      |       |

| Exhaust Fan Schedule                                                                                                                             |              |            |        |            |       |            |       |             |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|--------|------------|-------|------------|-------|-------------|--|
| Mark                                                                                                                                             | Manufacturer | Model      | CFM    | ESP        | Power | Electrical |       | Notes       |  |
|                                                                                                                                                  |              |            |        |            |       | Voltage    | Phase |             |  |
| EF-1                                                                                                                                             | Panasonic    | FV-0511VQ1 | 80 CFM | 0.25 in-wg | 32 W  | 120 V      | 1     | 1,2,3,4,5,6 |  |
| EF-2                                                                                                                                             | Panasonic    | FV-0511VQ1 | 50 CFM | 0.25 in-wg | 32 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. |              |            |        |            |       |            |       |             |  |

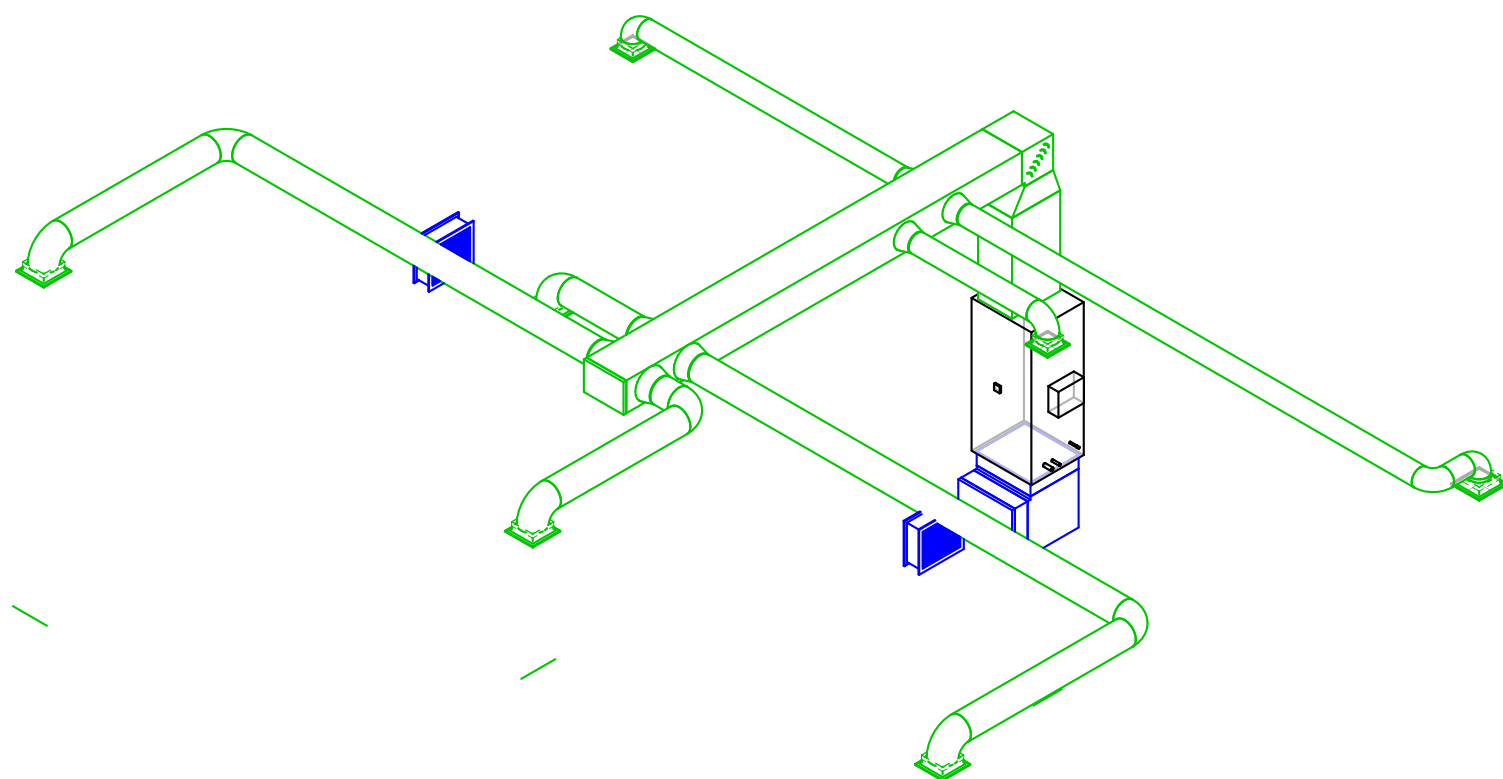
| Grilles, Registers & Diffusers Schedule                                                                                                                                                                                                                                                                                                                                                                                                                         |              |       |             |        |         |          |                  |                |                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------|-------------|--------|---------|----------|------------------|----------------|------------------------------------------------------------------------------------|
| ID Type                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Manufacturer | Model | Application |        |         |          | Mounting         | Include Damper | Product Specification                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |       | Supply      | Return | Exhaust | Transfer |                  |                |                                                                                    |
| RG-A                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Titus        | PAR   |             | ■      |         |          | Lay-In Full Face | No             | 24x24 perforated face return grille with neck size as indicated on drawings.       |
| RG-B                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Titus        | 301R  |             | ■      |         |          | Surface Mount    | No             | Steel louvered return grille                                                       |
| SD-A                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Titus        | TMS   | ■           |        |         |          | Lay-In Full Face | No             | 24x24 steel square louvered diffuser neck size as indicated on drawings            |
| SD-B                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 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:                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |       |             |        |         |          |                  |                |                                                                                    |
| <ul style="list-style-type: none"><li>Maximum noise criteria shall be 25.</li><li>Runouts to diffusers shall be same size as neck, U.N.O.</li><li>Paint objects visible through grilles with flat black paint.</li><li>Provide mounting frame as required for ceiling type. Coordinate with Architect.</li><li>Verify finish with Architect.</li><li>Provide devices with radiation dampers as required in rated ceilings. Coordinate with Architect.</li></ul> |              |       |             |        |         |          |                  |                |                                                                                    |



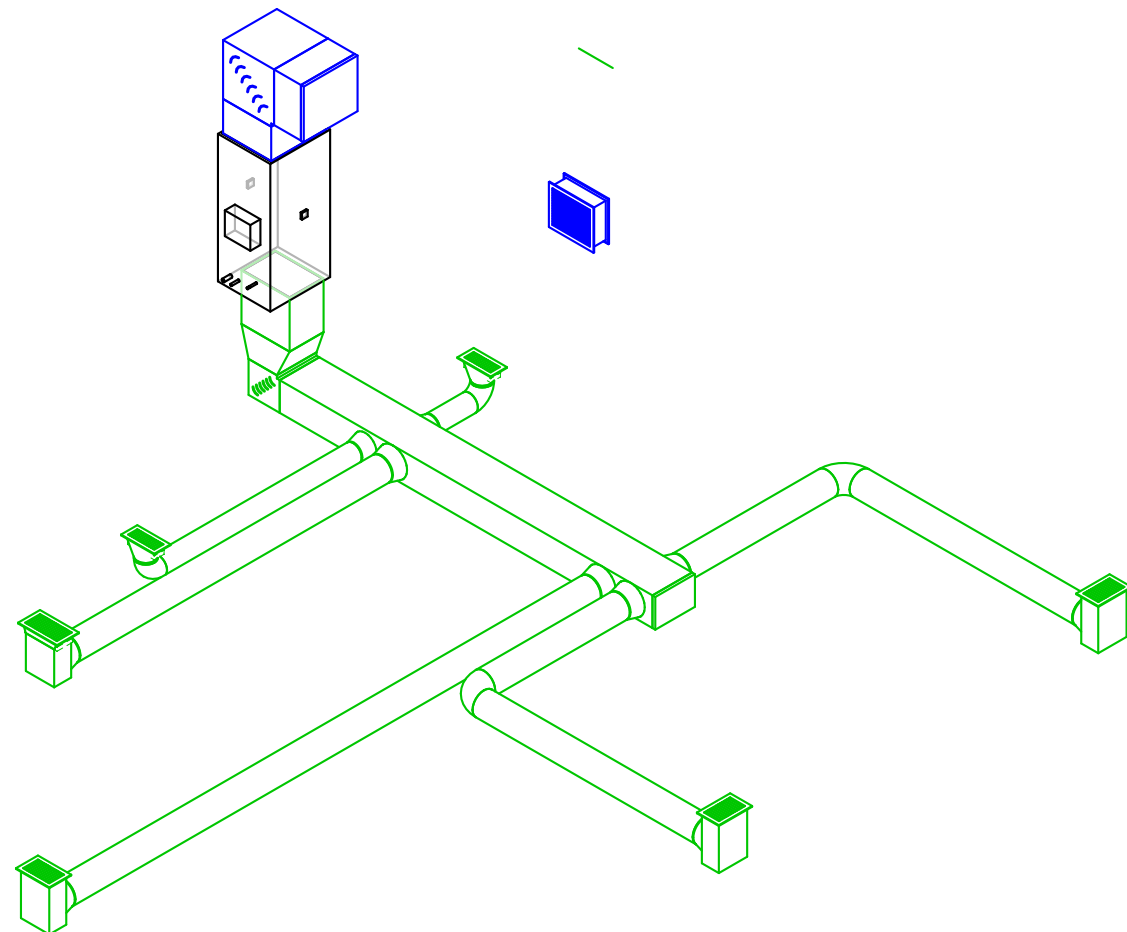
**5** COMMON AREA - DUCT RISER



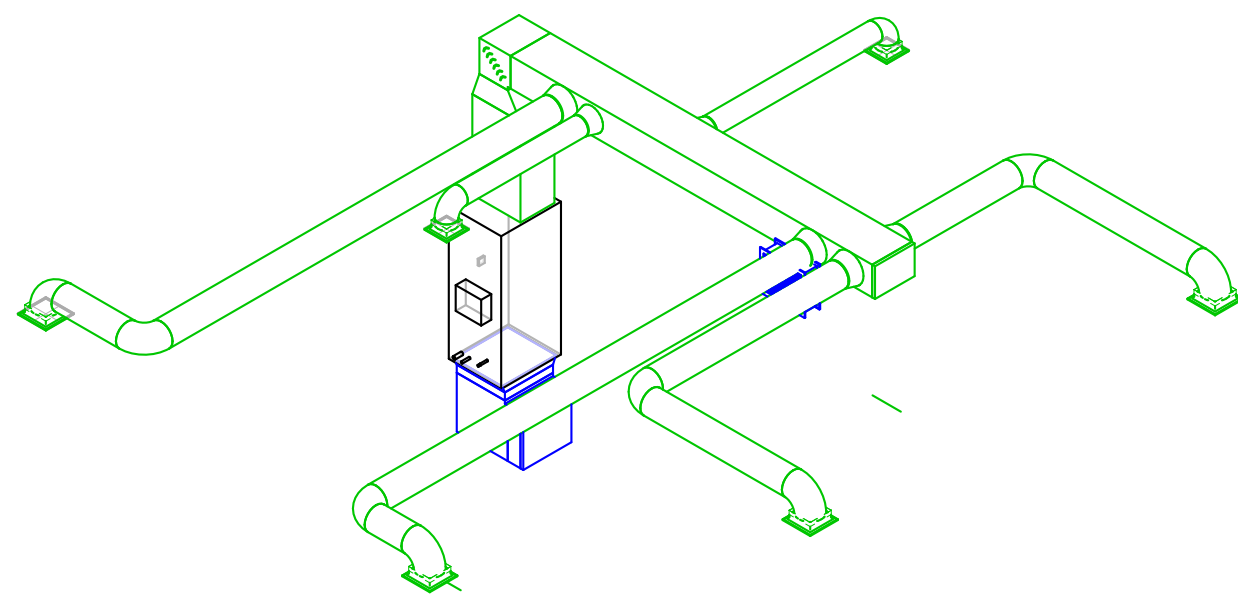
**4** UNIT TYPE 2 - 3RD FLOOR - DUCT RISER



**3** UNIT TYPE 2 - 1ST/2ND FLOOR - DUCT RISER



**2** UNIT TYPE 1 - 3RD FLOOR - DUCT RISER

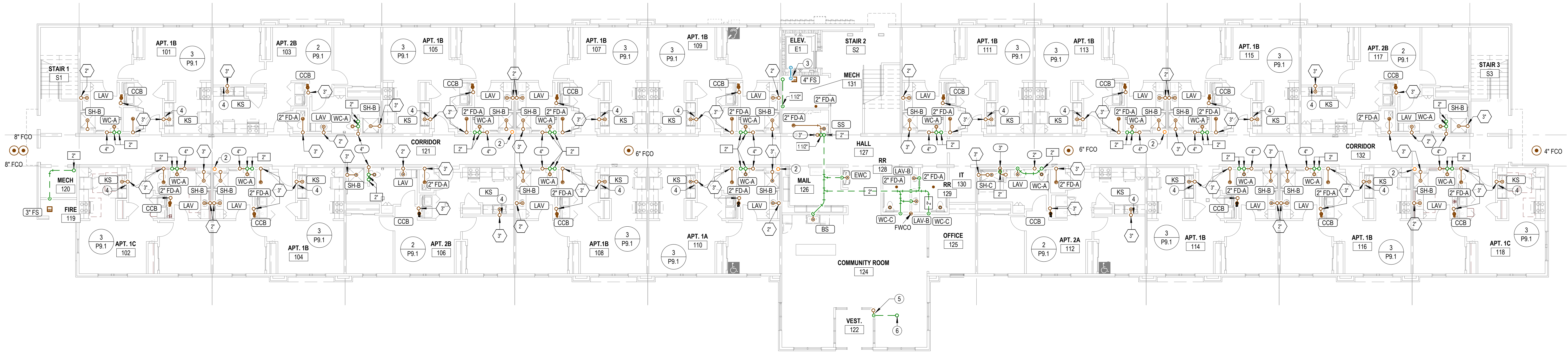


**1** UNIT TYPE 1 - 1ST/2ND FLOOR - DUCT RISER

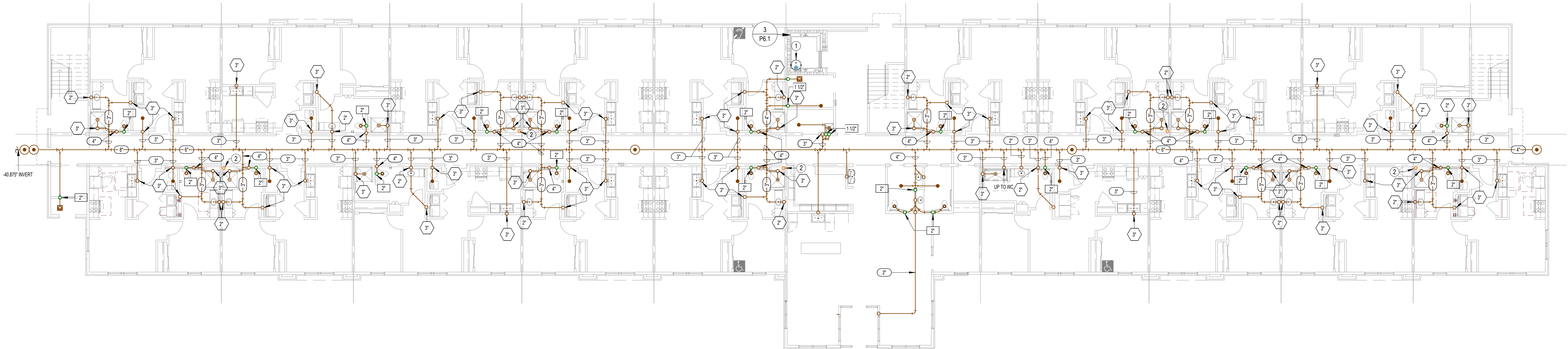


| PLUMBING SIZING SYMBOLS |                             |
|-------------------------|-----------------------------|
| 2"                      | DRAIN (X = SIZE)            |
| 3"                      | VENT (X = SIZE)             |
| 4"                      | WASTE STACK VENT (X = SIZE) |

- NOTES BY SYMBOL**
- ELEVATOR PIT SUMP PUMP, SEE DETAIL FOR MORE 3.P6.1 FOR MORE INFORMATION.
  - 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
  - ROUTE 2" DISCHARGE FROM SUMP PUMP TO FLOOR SINK AS SHOWN ON PLANS. TERMINATE WITH CODE REQUIRED AIR GAP DIRECTLY ABOVE FLOOR SINK.
  - PROVIDE INDIRECT CONNECTION AT GARBAGE DISPOSER AND CONNECT DISHWASHER. ROUTE DRAIN FROM DISHWASHER AT BACK OF CABINETRY. COORDINATE EXACT ROUTING WITH G.C.
  - PROVIDE DRAIN BOX ABOVE CEILING EQUAL TO SIOUX CHIEF 696 FOR BLOWER COIL CONDENSATE DRAIN. PROVIDE TRAP SEAL DEVICE EQUAL TO PROSET TRAP GUARD.
  - 2" VTR, MAINTAIN MINIMUM 10'-0" CLEARANCE FROM OUTDOOR AIR INTAKE.



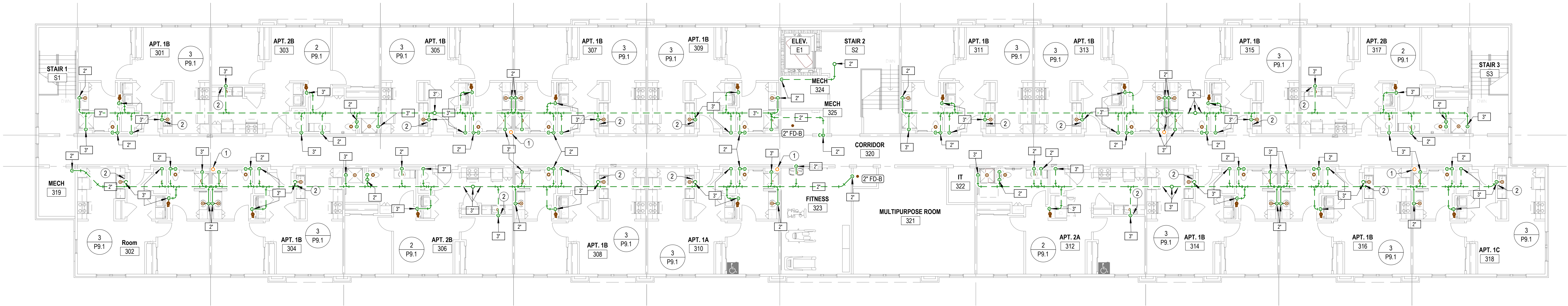
**2 FIRST FLOOR-WASTE AND VENT PLAN**  
3/32" = 1'-0"



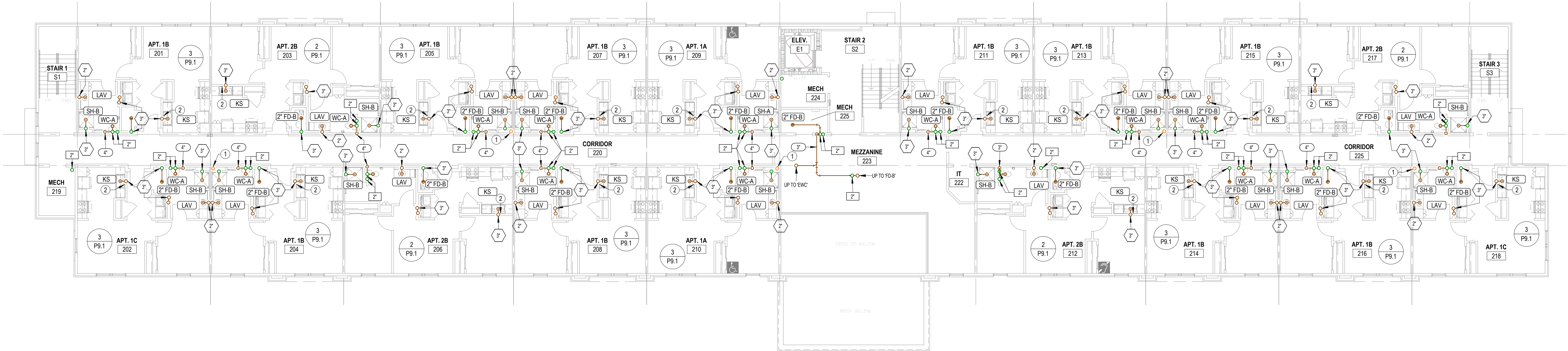
**1 UNDERFLOOR-WASTE AND VENT PLAN**  
3/32" = 1'-0"

| PLUMBING SIZING SYMBOLS |                             |
|-------------------------|-----------------------------|
| 3"                      | DRAIN (X = SIZE)            |
| 2"                      | VENT (X = SIZE)             |
| 1 1/2"                  | WASTE STACK VENT (X = SIZE) |

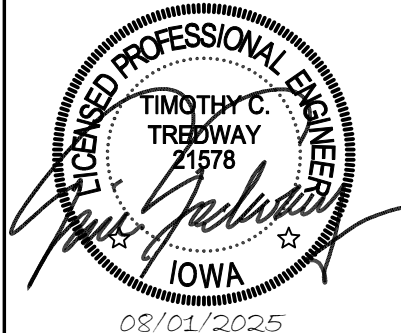
- NOTES BY SYMBOL**
- 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
  - PROVIDE INDIRECT CONNECTION AT GARBAGE DISPOSER AND CONNECT DISHWASHER. ROUTE DRAIN FROM DISHWASHER AT BACK OF CABINETRY. COORDINATE EXACT ROUTING WITH G.C.



**2 THIRD FLOOR-WASTE AND VENT PLAN**  
3/32" = 1'-0"

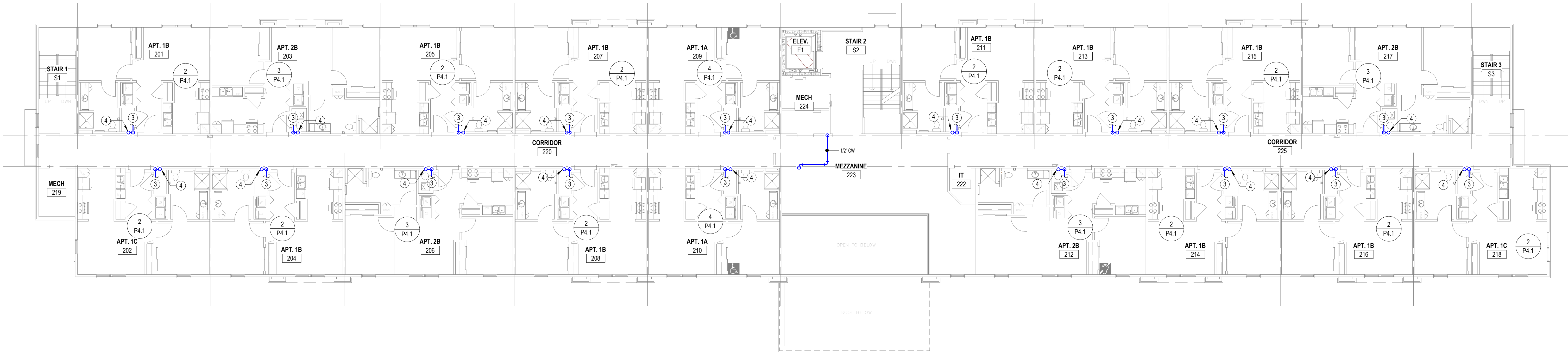


**1 SECOND FLOOR-WASTE AND VENT PLAN**  
3/32" = 1'-0"

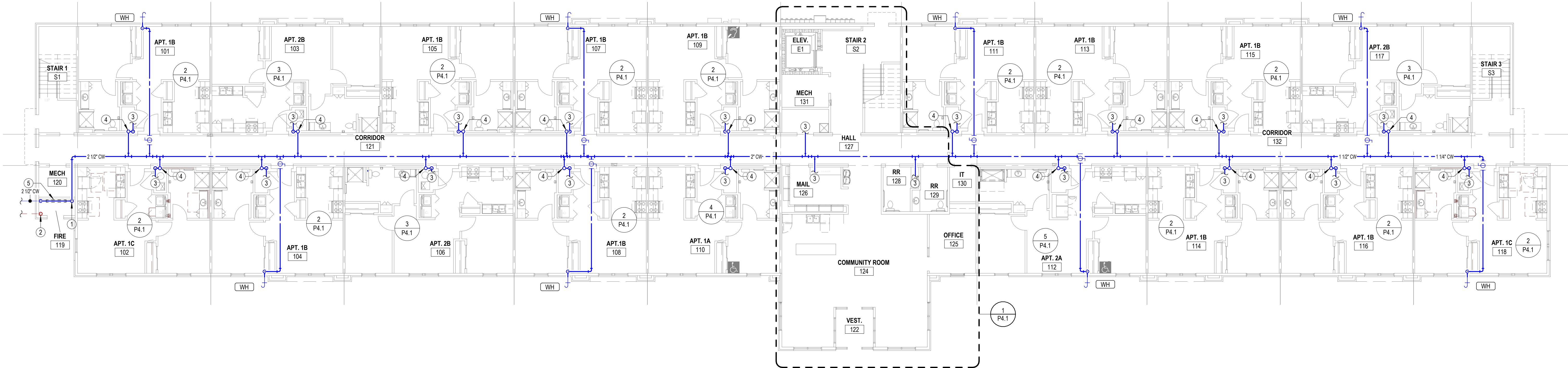


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| DATE:      | 8-1-2025 |
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| ALTERNATE MATERIAL SIZE                                                                                                                                                                                                                                                        |                                 |               |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|--------|
| COPPER PIPE SIZE INDICATED                                                                                                                                                                                                                                                     | Cross-linked polyethylene (PEX) | Polypropylene |        |
|                                                                                                                                                                                                                                                                                | 1/2"                            | 1/2"          | 1/2"   |
|                                                                                                                                                                                                                                                                                | 3/4"                            | 3/4"          | 3/4"   |
|                                                                                                                                                                                                                                                                                | 1"                              | 1-1/4"        | 1-1/4" |
|                                                                                                                                                                                                                                                                                | 1-1/4"                          | 1-1/2"        | 1-1/2" |
|                                                                                                                                                                                                                                                                                | 1-1/2"                          | 2"            | 2"     |
| 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. | 2"                              | 2-1/2"        | 2-1/2" |
|                                                                                                                                                                                                                                                                                | 2-1/2"                          | 3"            | 3"     |
|                                                                                                                                                                                                                                                                                | 3"                              | 3-1/2"        | 3-1/2" |



**2 SECOND FLOOR-DOMESTIC WATER PLAN**  
3/32" = 1'-0"



**1 FIRST FLOOR-DOMESTIC WATER PLAN**  
3/32" = 1'-0"



1

THIRD FLOOR-DOMESTIC WATER PLAN

3/32" = 1'-0"



|                                                                                                                                                                                                                                                                                |        | ALTERNATE<br>MATERIAL SIZE            |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------|---------------|
|                                                                                                                                                                                                                                                                                |        | Cross-linked<br>polyethylene<br>(PEX) | Polypropylene |
| COPPER PIPE SIZE<br>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. |        |                                       |               |

GENERAL NOTES:  
1. 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 PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE. SEE DOMESTIC RISER DIAGRAMS FOR ADDITIONAL INFORMATION.



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Project 25039  
8-1-2025

THE RESIDENCE AT CARTER LAKE  
NEW SENIOR LIVING FACILITY  
CARTER LAKE,  
IOWA

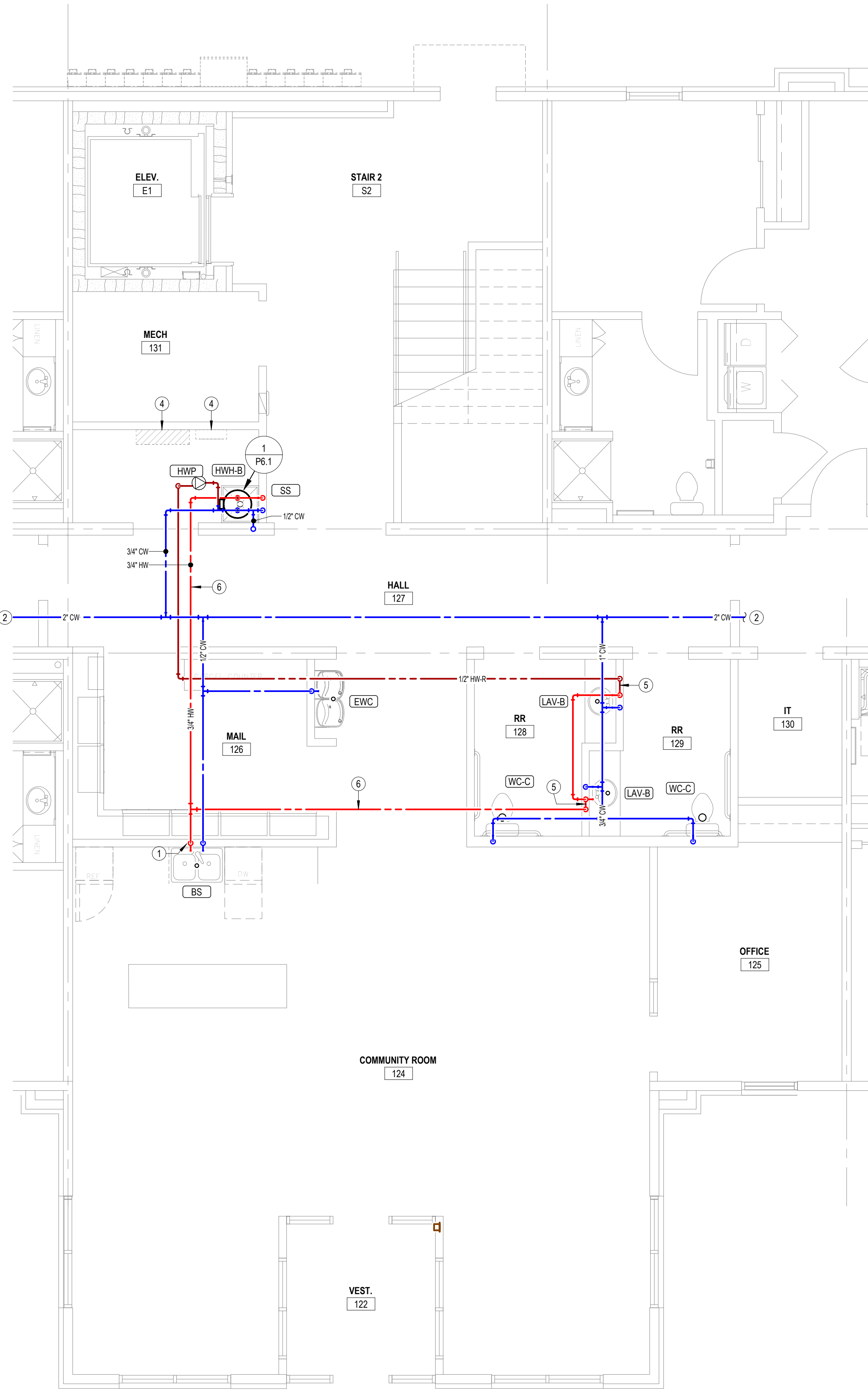


REVISIONS:  
  
  
  
  
  
  
  
  
  
DATE: 8-1-2025  
JOB: 25-3489  
SHEET NO.:  
  
P1.4

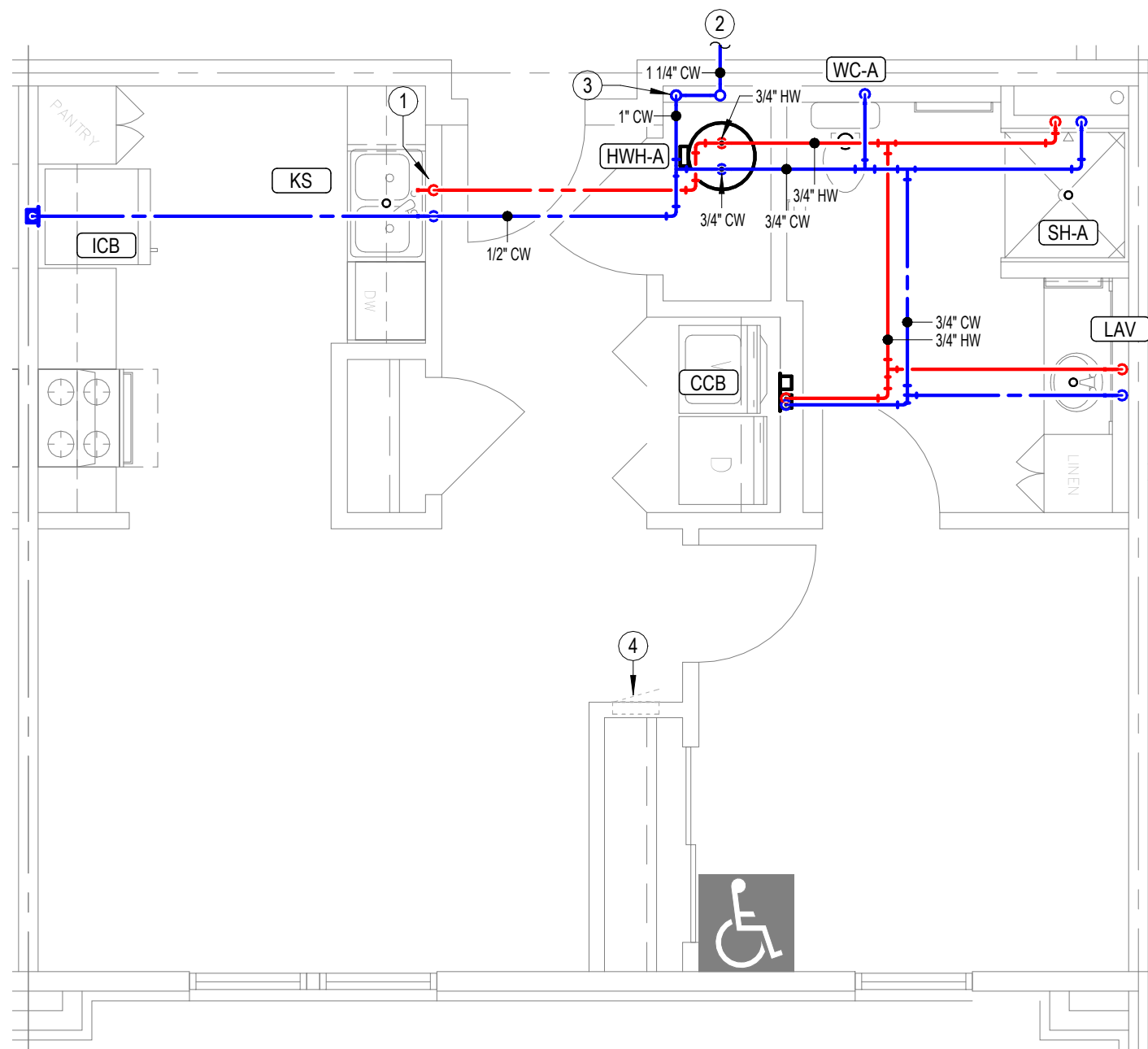
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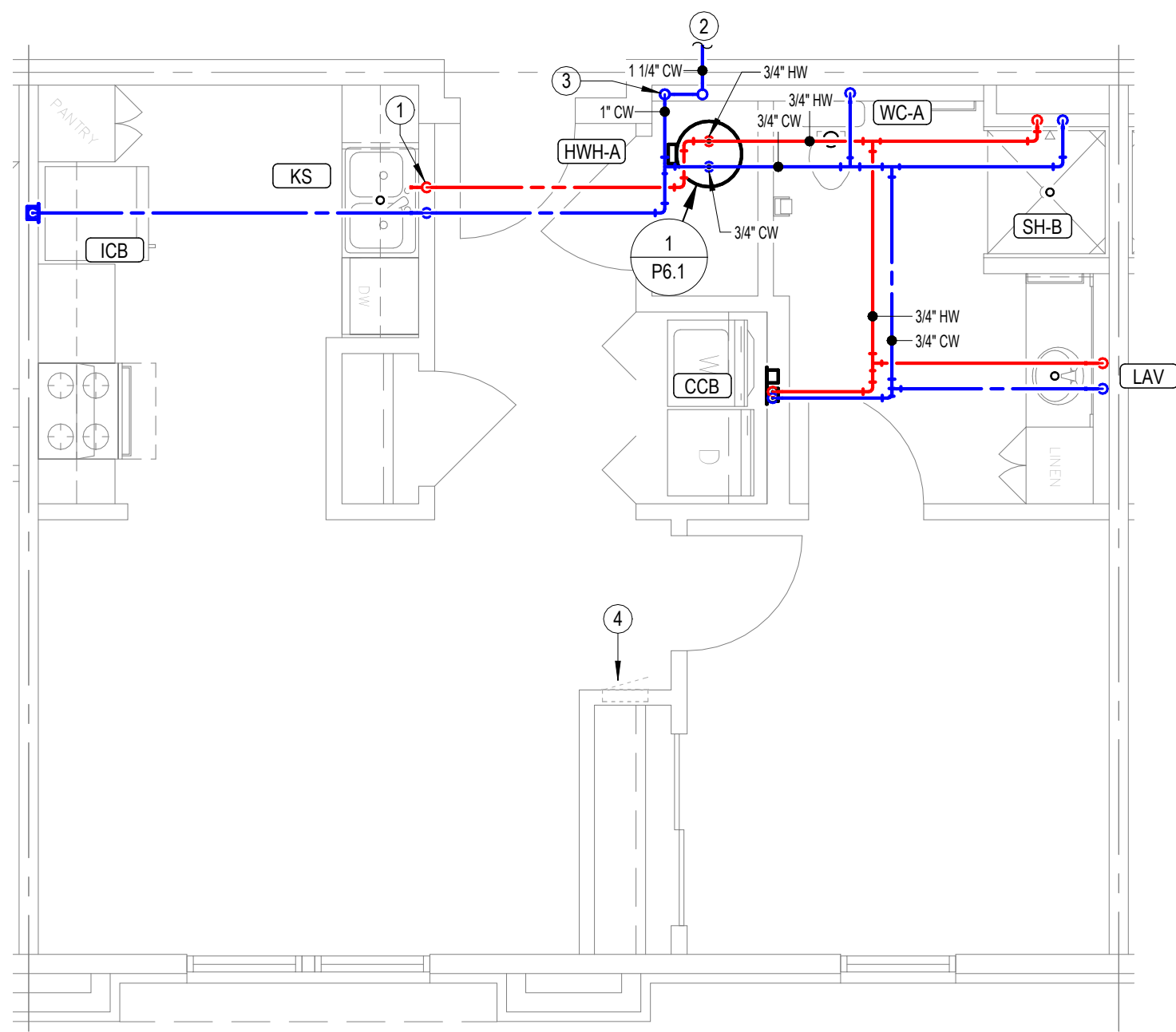
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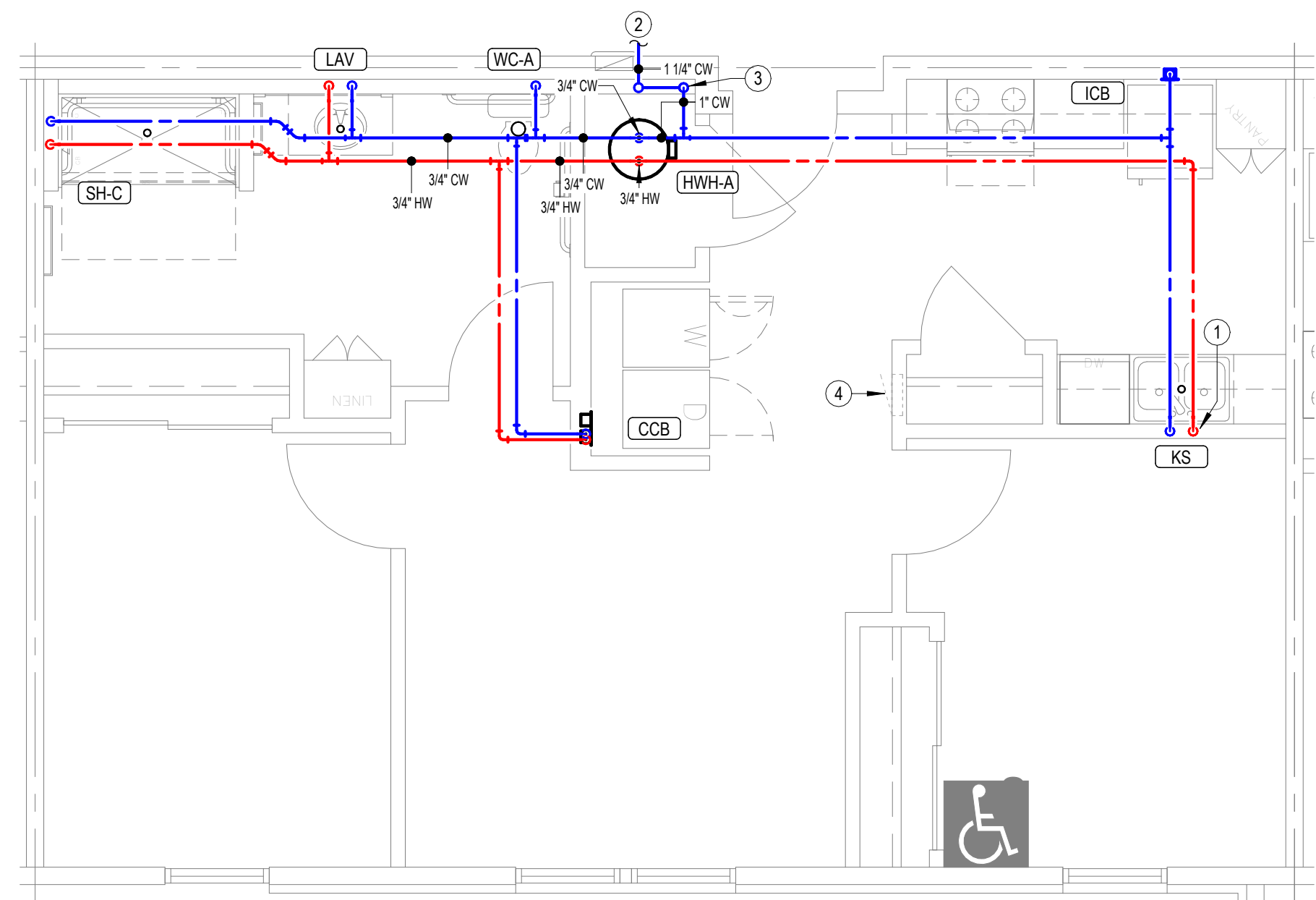
**1 ENLARGED DOMESTIC WATER PLAN-COMMON AREA**  
1/4" = 1'-0"



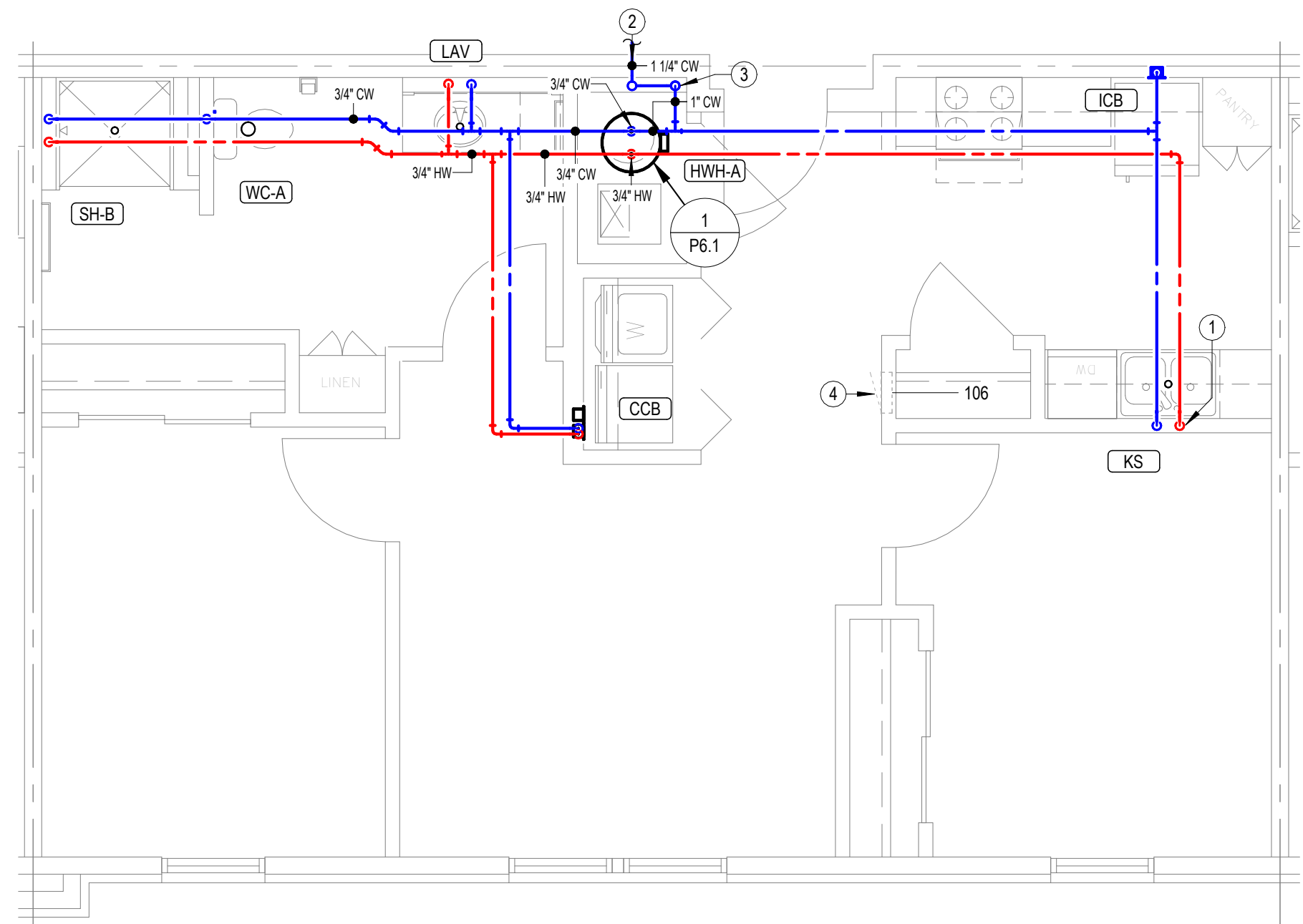
**4 ENLARGED DOMESTIC WATER PLAN-1 BR ACCESSIBLE**  
1/4" = 1'-0"



**2 ENLARGED DOMESTIC WATER PLAN-1 BR**  
1/4" = 1'-0"



**5 ENLARGED DOMESTIC WATER PLAN-2 BR ACCESSIBLE**  
1/4" = 1'-0"



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

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

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



- GENERAL NOTES:
1. PIPING FOR DWELLING UNITS ON 3RD FLOOR SHALL BE ROUTED BELOW THE FLOOR. DO NOT ROUTE DOMESTIC WATER PIPING IN THE ATTIC.
  2. REFERENCE OVERALL PLANS FOR EXACT FIXTURE TAGS.
- NOTES BY SYMBOL
1. PROVIDE 1/2" VALVED BRANCH BELOW SINK AND CONNECT DISHWASHER. ROUTE PIPING ALONG BACK OF CABINETRY, COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED.
  2. SEE OVERALL DOMESTIC WATER PLANS FOR CONTINUATION.
  3. PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE. SEE DOMESTIC RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
  4. ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN.
  5. HOT WATER CIRCULATION LOOP SHALL DROP IN WALL TO LIMIT HOT WATER BRANCH TO PUBLIC LAVATORY TO 2 MAX.
  6. COORDINATE ROUTING OF PIPING IN THIS AREA WITH STRUCTURE.

THE RESIDENCE AT CARTER LAKE

NEW SENIOR LIVING FACILITY

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## PLUMBING FIXTURE SCHEDULE

**GENERAL:** • PROVIDE FIXTURES WITH ALL TRIM NECESSARY FOR COMPLETE INSTALLATION.  
 • VENT SIZES ARE APPLICABLE ONLY FOR INDIVIDUAL FIXTURE VENTS WHERE ALTERNATE VENTING METHOD HAS NOT BEEN INDICATED ON PLANS.  
 • PROVIDE 1/4 TURN STOP VALVES ON ALL HOT AND COLD WATER SUPPLY LINE CONNECTIONS FOR FIXTURES. SHOWER VALVES SHALL HAVE INTEGRAL STOP VALVES.  
 • PROVIDE FLOOR DRAINS AND FLOOR SINKS WITH TRAP PRIMER OR TRAP PRIMER ALTERNATIVE EQUIVALENT TO PREVENT TRAP DRAIN. PROVIDE AUTOMATIC TRAP PRIMER DEVICE WITH SINGLE OR MULTIPLE OUTLET PIPES AND ROUTE DRAINS TO PRIMER PORTS.

| MARK  | MANUFACTURER      | MODEL             | PRODUCT DESCRIPTION                                                                                                                                                                       | TRIM                                                                                                                                                                      | ROUGH-IN SIZES |        |       | COLD | HOT | ADA COMPLAINT | NOTES |
|-------|-------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------|-------|------|-----|---------------|-------|
|       |                   |                   |                                                                                                                                                                                           |                                                                                                                                                                           | DRAIN          | VENT   | WATER |      |     |               |       |
| BS    | BLANCO            | 443047            | SINGLE COMPARTMENT 18 GA STAINLESS STEEL SINK, UNDERMOUNT, 23"X16"X5-1/2"D BOWL.                                                                                                          | DELTA MODEL 198022-SP-DST SINGLE HANDLE KITCHEN SINK FAUCET WITH PULL DOWN HOSE SPRAY, STAINLESS FINISH. PROVIDE BASKET STRAINER.                                         | 2"             | 1 1/2" | 1/2"  | Yes  | Yes | Yes           |       |
| CCB   | SIOUX CHIEF       | 696-2313          | RECESSED WASHING MACHINE BOX WITH 2"PVC/ABS DRAIN COUPLING AND KNOCKOUT TEST CAP. TWO 1/4 TURN BALL VALVES WITH HAMMER ARRESTORS.                                                         |                                                                                                                                                                           | 2"             | 1 1/2" | 1/2"  | Yes  | Yes |               |       |
| DB    | SIOUX CHIEF       | 696-3             | DRAINAGE BOX BOX WITH 2" DRAIN CONNECTION AND SOLID COVER.                                                                                                                                |                                                                                                                                                                           | 2"             | 1 1/2" | 0"    | No   | No  |               |       |
| EWC   | MURDOCK           | A172100F-UG-BF1 2 | DUAL LEVEL SELF-CONTAINED WATER COOLER WITH STAINLESS STEEL BASIN, FRONT PUSH BUTTON ACTUATORS, SENSOR OPERATED BOTTLE FILLER, LEAD-FREE COOLING SYSTEM, 120 VOLTS.                       |                                                                                                                                                                           | 2"             | 1 1/2" | 1/2"  | Yes  | No  | Yes           |       |
| FD-A  | WATTS             | FD-100-A          | EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER.               | TRAP PROTECTION DEVICE EQUIVALENT TO PROSET TRAPGUARD                                                                                                                     | 2"             | 2"     |       |      |     |               |       |
| FD-B  | WATTS             | FD-100-A          | EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER.               | TRAP PROTECTION DEVICE EQUIVALENT TO PROSET TRAPGUARD                                                                                                                     | 2"             | 2"     |       |      |     |               |       |
| FS    | WATTS             | FS-740            | 12" SQUARE, 8" DEEP FLOOR SINK WITH WHITE PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST IRON GRATE, ALUMINUM DOWEL BOTTOM STRAINER.                            | TRAP PROTECTION DEVICE EQUIVALENT TO PROSET TRAP GUARD                                                                                                                    | <varies >      | 2"     |       |      |     |               |       |
| ICB   | SIOUX CHIEF       | 696-G1010         | ICE MAKER CONNECTION BOX WITH 1/4" TURN BALL VALVE AND INTEGRAL HAMMER ARRESTOR.                                                                                                          |                                                                                                                                                                           | 0"             | 0"     | 1/2"  | Yes  | No  |               |       |
| KS    | JUST              | DLADA1829A65-J    | TWO COMPARTMENT 18 GA STAINLESS STEEL SINK, SELF RIMMING, (2) 12"X12"X6-3/8"D BOWLS, FULLY UNDERCOATED, FAUCET HOLES AS REQ.                                                              | DELTA MODEL 198022-SP-DST SINGLE HANDLE KITCHEN SINK FAUCET WITH PULL DOWN SPRAYER, STAINLESS FINISH. PROVIDE BASKET STRAINER.                                            | 2"             | 1 1/2" | 1/2"  | Yes  | Yes | Yes           |       |
| LAV   | AMERICAN STANDARD | 0610.000.020      | UNDERMOUNT LAVATORY, WHITE VITREOUS CHINA, 20"W X 11".                                                                                                                                    | DELTA MODEL 559H-559HAR-SS-DST SINGLE HANDLE FAUCET, STAINLESS FINISH. LEONARD MODEL TM-1 POINT OF USE MIXING VALVE. PROVIDE GRID DRAIN.                                  | 2"             | 1 1/2" | 1/2"  | Yes  | Yes | Yes           |       |
| LAV-B | AMERICAN STANDARD | 0610.000.020      | UNDERMOUNT LAVATORY, WHITE VITREOUS CHINA, 20"W X 11".                                                                                                                                    | MOEN MODEL 84774BL SINGLE HANDLE FAUCET, BLACK FINISH. LEONARD MODEL TM-1 POINT OF USE MIXING VALVE. PROVIDE GRID DRAIN.                                                  | 2"             | 1 1/2" | 1/2"  | Yes  | Yes | Yes           |       |
| SHA   | TBD               | ADD MODEL NUMBER  | EDIT DESCRIPTION: ONE-PIECE ACRYLIC SHOWER, 36"X33.5"X84", WITH MOLDED SOAP SHELF, RIGHT OR LEFT HAND ROUGH-IN AS REQUIRED. PROVIDE WITH BRASS DRAIN WITH CHROME STRAINER.                | EDIT DESCRIPTION: DELTA MODEL R10000-UNWS/T13H132 PRESSURE BALANCING VALVE WITH INTEGRAL TEMPERATURE LIMITS, SINGLE METAL LEVER HANDLE, WITH 1.5 GPM SHOWER HEAD AND ARM. | 2"             | 1 1/2" | 1/2"  | Yes  | Yes | No            |       |
| SH-B  | TBD               | ADD MODEL NUMBER  | EDIT DESCRIPTION: ONE-PIECE ACRYLIC SHOWER, 36"X33.5"X84", WITH MOLDED SOAP SHELF, RIGHT OR LEFT HAND ROUGH-IN AS REQUIRED. PROVIDE WITH BRASS DRAIN WITH CHROME STRAINER.                | EDIT DESCRIPTION: DELTA MODEL R10000-UNWS/T13H132 PRESSURE BALANCING VALVE WITH INTEGRAL TEMPERATURE LIMITS, SINGLE METAL LEVER HANDLE, WITH 1.5 GPM SHOWER HEAD AND ARM. | 2"             | 1 1/2" | 1/2"  | Yes  | Yes | No            |       |
| SH-C  | TBD               | ADD MODEL NUMBER  | EDIT DESCRIPTION: ONE-PIECE ACRYLIC SHOWER, 36"X33.5"X84", WITH MOLDED SOAP SHELF, RIGHT OR LEFT HAND ROUGH-IN AS REQUIRED. PROVIDE WITH BRASS DRAIN WITH CHROME STRAINER.                | EDIT DESCRIPTION: DELTA MODEL R10000-UNWS/T13H132 PRESSURE BALANCING VALVE WITH INTEGRAL TEMPERATURE LIMITS, SINGLE METAL LEVER HANDLE, WITH 1.5 GPM SHOWER HEAD AND ARM. | 2"             | 1 1/2" | 1/2"  | Yes  | Yes | No            |       |
| SS    | FIAT              | MSB-2424          | ONE PIECE MOLDED STONE MOP BASIN, 24" SQUARE, STAINLESS STEEL INTEGRAL DRAIN BODY WITH CAULK CONNECTION, STAINLESS STEEL WALL GUARDS.                                                     | CHICAGO FAUCET MODEL 897-CPP FAUCET WITH HOSE THREAD OUTLET, VACUUM BREAKER SPOUT, PAIL HOOK, WALL BRACE, INTEGRAL CHECK VALVES, METAL LEVER HANDLES.                     | 3"             | 1 1/2" | 3/4"  | Yes  | Yes | No            |       |
| WC-A  | AMERICAN STANDARD | 215AA.104         | FLUSH TANK WATER CLOSET, WHITE VITREOUS CHINA, 3" FLUSH VALVE, 12" ROUGH-IN, ELONGATED 16-1/2" HIGH BOWL.                                                                                 | WHITE OPEN FRONT SOFT CLOSE PLASTIC SEAT                                                                                                                                  | 4"             | 2"     | 1/2"  | Yes  | No  | Yes           |       |
| WC-B  | AMERICAN STANDARD | 215AA.104         | FLUSH TANK WATER CLOSET, WHITE VITREOUS CHINA, 3" FLUSH VALVE, 12" ROUGH-IN, ELONGATED 16-1/2" HIGH BOWL.                                                                                 | WHITE OPEN FRONT SOFT CLOSE PLASTIC SEAT                                                                                                                                  | 3"             | 2"     | 1/2"  | Yes  | No  | Yes           |       |
| WC-C  | AMERICAN STANDARD | 215AA.104         | FLUSH TANK WATER CLOSET, WHITE VITREOUS CHINA, 3" FLUSH VALVE, 12" ROUGH-IN, ELONGATED 16-1/2" HIGH BOWL.                                                                                 | WHITE OPEN FRONT SOFT CLOSE PLASTIC SEAT                                                                                                                                  | 4"             | 2"     | 1/2"  | Yes  | No  | Yes           |       |
| WH    | WOODFORD          | B67               | AUTOMATIC DRAINING FREEZELESS WALL HYDRANT WITH 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            |       |

