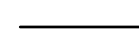

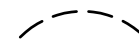

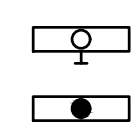

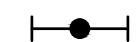



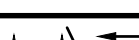

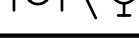

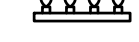

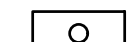









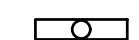





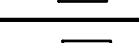

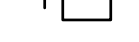

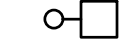
















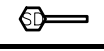

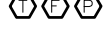







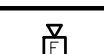



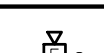



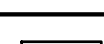

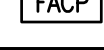





ELECTRICAL GENERAL NOTES
1. ALL WORK THIS DIVISION SHALL COMPLY WITH ALL BUILDING CODES, LAWS, REGULATIONS, ORDINANCES, AND THE REQUIREMENTS OF 2020 NATIONAL ELECTRICAL CODE.
2. THE CONTRACTOR SHALL KEEP A RECORD OF THE CHANGES WHICH ARE IN CONFLICT WITH THESE DRAWINGS AND SPECIFICATIONS. AT THE COMPLETION OF HIS/HER WORK HE/SHE SHALL SUBMIT "AS BUILT" PRINTS TO THE OWNER.
3. ALL SYSTEMS, EQUIPMENT, COMPONENTS, WORK, ETC. PROVIDED UNDER THIS DIVISION SHALL BE COVERED BY A ONE YEAR GUARANTEE STARTING AT THE TIME OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER. ANY DEFECTS IN THE WORK, SYSTEMS, EQUIPMENT, OR COMPONENTS FOUND DURING THIS YEAR SHALL BE CORRECTED AT NO CHARGE. THE GUARANTEE SHALL INCLUDE PROVIDING ALL NECESSARY CUTTING, PATCHWORK, REPAIRING, ETC. TO MAKE THE WORK COMPLETE AND NEW.
4. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER WITH TYPE "THW" OR "THHN" INSULATION AND THE MINIMUM WIRE SIZE SHALL BE #14 A.W.G. FOR 15A WHERE USED IN RESIDENTIAL/LIVING UNITS AND #12 A.W.G. FOR 20A CIRCUITS UNLESS NOTED OTHERWISE, OR NOT ALLOWED BY LOCAL JURISDICTION HAVING AUTHORITY.
5. ALL WORK MUST BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO GENERALLY ACCEPTED PRINCIPALS OF FIRST CLASS WORKMANSHIP.
6. ALL PENETRATIONS THRU RATED WALLS, FLOORS AND CEILINGS SHALL BE FIRE STOPPED PER N.E.C. 300.21. ALSO SEE SHEET E0.4A--E0.4F. FIRE STOPPING SHALL MATCH UL RATING OF WALL, FLOOR, OR CEILING PENETRATED.
7. ALL SWITCHES FOR FANS, LIGHTS, ETC. WHICH ARE SHOWN TO BE MOUNTED IN THE SAME GENERAL AREA SHALL SHARE A MULTI-GANG COVER PLATE AS REQUIRED.
8. COORDINATE RECEPTACLE NEMA TYPE AND VOLTAGE WITH EQUIPMENT.
9. ALL OUTLETS AND SWITCHES ARE TO BE FLUSH MOUNTED UNLESS NOTED OTHERWISE.
10. PROVIDE A TYPE WRITTEN DIRECTORY FOR ALL PANELS AND LOAD CENTERS. CORRECTLY LABEL ALL CIRCUITS, SPARES, AND SPACES.
11. LABEL AND IDENTIFY ALL JUNCTION BOXES, WIREWAYS AND MAJOR SWITCHES AT THE TIME OF INSTALLATION. PROVIDE PERMANENT NAMEPLATES/LABELS AS SPECIFIED PRIOR TO FINAL INSPECTION.
12. VERIFY LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGH-IN.
13. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS. WIRING SHALL BE INSTALLED AT DEPTHS BELOW FINISHED GRADE (BELOW SLAB AND SUB-BASE LEVEL) AS PER NEC ARTICLE 300.50.
14. MINIMUM HOMERUN CONDUIT SIZE SHALL BE: A. ABOVE GRADE: 1/2" B. BELOW GRADE: 3/4"
14. COMMON NEUTRAL MAY BE USED AS PERMITTED BY NEC FOR MULTIWIRE BRANCH CIRCUITS. SEPARATE NEUTRAL SHALL BE PROVIDED FOR ALL CIRCUITS CONNECTED TO GROUND FAULT CIRCUIT INTERRUPTER TYPE DEVICES, UNLESS OTHERWISE NOTED. SEPARATE NEUTRAL SHALL BE PROVIDED FOR ALL ARC FAULT CIRCUIT INTERRUPTER CIRCUITS.
15. ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN INSULATED GROUND WIRE, SIZED PER NEC TABLE 250.122 OR AS SHOWN, CONNECTED TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANEL BOARD GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL REQUIRE ONLY ONE GROUND WIRE, UNLESS OTHERWISE NOTED.
16. IN CASES WHERE CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATION, OR BETWEEN DIFFERENT TRADES, AS WELL AS CASES OF ANY OMISSION OF INFORMATION, NOTIFY THE ARCHITECT AND PROCURE RESOLUTION OF THE CONFLICT OR OMISSION BEFORE PROCEEDING WITH THE INSTALLATION.
17. ALL 15A AND/OR 20A BRANCH RECEPTACLE CIRCUITS FOR 120V, CIRCUITS LONGER THAN 70'-0" SHALL BE MINIMUM #10 AWG, LONGER THAN 150' SHALL BE #8 AWG.
18. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT AND LOCATION OF ELECTRICAL WORK, DATA PRESENTED ON THE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITION IS REQUIRED. REVIEW ALL ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN.
19. COORDINATE WITH OTHER TRADES SO THAT INSTALLATION OF ELECTRICAL OUTLETS AND EQUIPMENT WILL BE PROPERLY COORDINATED. CHECK CONDUIT, FIXTURE AND OTHER EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICT WITH THE PIPING DUCT WORK, STEEL PIPING, BEAM, OR OTHER OBSTRUCTIONS.
20. REFER TO ARCHITECTURAL/INTERIOR DESIGNER DRAWINGS FOR EXACT SPECIFICATION, LOCATION AND QUANTITY OF ELECTRICAL DEVICES AND LIGHT FIXTURES.
21. THE GENERAL CONTRACTOR SHALL PROVIDE NOTICE TO THE ARCHITECT/ENGINEER THAT THERE HAS BEEN A FACE-TO-FACE MEETING WITH THE MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL SUBCONTRACTORS TO COORDINATE THEIR WORK. THIS MUST BE DONE PRIOR TO ORDERING ANY EQUIPMENT AND SHALL SERVE TO MATCH THE VOLTAGE, PHASE, AMPS, MCA, AND MOCAP OF THE EQUIPMENT WITH THE DESIGNED ELECTRICAL CHARACTERISTICS. AFTER THIS MEETING HAS BEEN HELD THE GENERAL CONTRACTOR SHALL PROVIDE NOTICE (IN WRITING) TO THE A/E THAT THIS HAS BEEN DONE AND THERE ARE NO DISCREPANCIES. FAILURE TO MEET DOES NOT ENTITLE CONTRACTOR TO A CHANGE ORDER FOR INCOMPATIBLE EQUIPMENT AND SERVICE CHARACTERISTICS.
22. PROVIDE UNSWITCHED HOT WIRE TO ALL EMERGENCY/EXIT LIGHTING.
23. PROVIDE SEALING OF ALL OUTLET BOXES PER LOCAL FIRE CODE.
24. COMBUSTIBLE MATERIALS ARE NOT ALLOWED WITHIN AREAS WHERE PLENUM AIR SYSTEMS ARE BEING USED.
25. THE CONTRACTOR SHALL PROVIDE AND INSTALL WIRING AND CIRCUIT ALL EQUIPMENT, MOTORS, AND OTHER ITEMS NOT EXPLICITLY SHOWN, BUT INDICATED, IN CONTRACT DOCUMENTS OR IN SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF SAID ITEMS BETWEEN ALL TRADES.
26. NO PIPING, DUCT, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE INSTALLED ABOVE ANY ELECTRICAL PANELBOARD, LOAD CENTER, MOTOR CONTROL CENTER, OR SWITCHBOARD. PER NEC ARTICLE 110.26 (c) (3).
27. THERE SHALL BE NO BACK TO BACK RECEPTACLE WITHIN FIRE RATED WALLS. PROVIDE MINIMUM HORIZONTAL SPACE BETWEEN OUTLETS AT OPPOSITE SIDES OF A FIRE RATED WALL.
28. GFCI RECEPTACLE WITH IN-USE WEATHERPROOF COVER PLATE. IN-USE WEATHERPROOF COVER PLATE SHALL BE STEEL CITY "WTG100-CV-L" OR APPROVED EQUAL.
29. SEE E6.01 FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
30. FIRE ALARM SYSTEM PROVIDED BY ELECTRICAL SUBCONTRACTOR PER NFPA 101, NFPA 72 AND IBC.
31. NAME PLATES FOR DISCONNECT SWITCHES SHALL BE PRINTED LABELS.
32. BELOW GRADE RACEWAY INSTALLATIONS – DIRECT BURIAL CONDUIT SHALL BE INSTALLED AT CODE REQUIRED BURIAL DEPTHS
33. RACEWAY INSTALLATIONS WITHIN CONCRETE – CONDUIT SHALL BE RUN FOLLOWING THE MOST DIRECT ROUTE BETWEEN POINTS. CONDUIT SHALL NOT BE INSTALLED WITHIN CONCRETE WHERE THE OUTSIDE DIAMETER IS LARGER THAN 1/3 OF THE SLAB THICKNESS.
34. IN BUILDINGS WITH MULTIPLE SERVICES, PROVIDE A PLAQUE AT EACH ELECTRICAL SERVICE DENOTING THE LOCATION OF ALL OTHER SERVICES WITHIN THE BUILDING.
35. TYPE NM CABLE IS NOT ALLOWED EXPOSED IN HVAC CLOSETS. PROVIDE TYPE MC CABLE OR ROUTE TYPE NM CABLE IN FLEXIBLE METALLIC CONDUIT SO THAT NM CABLE IS NOT EXPOSED IN CLOSET.
36. ALL EXTERIOR ENTRY DOORS SHALL BE EQUIPPED WITH ELECTRIC STRIKE PLATES AND EITHER CARD OR PROXIMITY READERS. COORDINATE LOCATION AND REQUIREMENTS WITH LOW VOLTAGE INSTALLER PRIOR TO BID.
37. PROVIDE OCCUPANCY SENSORS TO CONTROL LIGHTING IN ALL COMMON AREA RESTROOMS, OFFICES, STORAGE ROOMS, AMENITIES,ETC.
38. CONTRACTOR SHALL PROVIDE HOMERUN FROM SWITCH BOX PER NEC 404.2C.
39. CONDUIT FILL PER CODE
40. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE LIGHTS, HVAC REGISTERS AND SPRINKLERS. IN ADDITION, THE CONTRACTOR SHALL VERIFY CEILING TYPES PRIOR TO ORDER FIXTURES.
41. ALL LIGHTING FIXTURES SHALL BE SUPPORTED INDEPENDENT OF THE CEILING USING #12 GALVANIZED STEEL WIRES, TWO WIRES AT OPPOSITE CORNERS OF THE FIXTURES.
42. ALL ITEMS ON THE DRAWINGS SHALL BE NEW AND BEAR THE U.L. LABEL.
43. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE TRANSFORMER WITH THE LOCAL UTILITY COMPANY. FURTHER HE SHALL OBTAIN A DETAIL OF THE CONCRETE PAD FOR THE TRANSFORMER AND COORDINATE ANY METERING EQUIPMENT TO BE FURNISHED AND SHALL DO SO AT NO ADDITIONAL COST TO THE OWNER.
44. WHERE WALLS ARE FIRE OR SMOKE RATED THE CONTRACTOR SHALL DO HIS INSTALLATION TO PREVENT VIOLATING THE RATING OF THE WALL, THIS MEANS COMPLYING WITH ALL U.L. REGULATIONS.
45. FIRE WALLS SHALL HAVE PUTTY PADS ON METALLIC BOXES UNLESS BOXES ARE RATED FOR RATING OF THE WALL.
46. PROVIDE A GROUND BAR AT EACH TELEPHONE BACKBOARD AND/OR MDF (HUB/ROUTER ROOM) AND TERMINATE USING A TERMINAL STRIP THAT CONTAINS NO LESS THAN TEN (10) PLACES FOR ADDITIONAL WIRES. BOND TO MAIN GROUND (#6 AWG) AT ELEC. RM.
47. DO NOT SCALE DRAWINGS, LOCATION OF EQUIPMENT ARE APPROXIMATE, ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO PROVIDE PROPER WORKING CLEARANCE.
48. ALL CONDUCTORS FOR EXTERIOR LIGHTING CIRCUITS SHALL BE MINIMUM #10 AWG (UNLESS OTHERWISE NOTED), EXCEPT THE CONDUCTORS FROM THE HANDHOLE UP THE POLE TO THE BALLAST MAY BE #12 AWG.
49. THE CONTRACTOR SHALL MEASURE THE GROUND RESISTANCE, USING THE "FALL OF POTENTIAL METHOD" AND SUBMIT THE RESULTS TO THE A/E VIA EMAIL USING "WORD" SOFTWARE. IF THERE IS DIFFICULTY ACHIEVING 5 OHMS OR LESS THE CONTRACTOR SHALL CONTINUE TO DRIVE GROUND RODS OR ADD A NON TOXIC ENVIRONMENTALLY FRIENDLY MAGNESIUM SULFATE TO ACHIEVE THE 5 OHMS OR LESS TO GROUND. THE GROUNDING INFORMATION SHOULD BE SIGNED BY A TECHNICIAN. THE TYPE OF INSTRUMENT USE TO PERFORM THE TEST SHALL BE INCLUDED IN THE REPORT. THE TEST SHALL NOT BE DONE IF THERE HAD BEEN RAINFALL IN THE PREVIOUS 24 HOUR PERIOD. THIS SHALL BE DONE AT THE BEGINNING OF THE CONSTRUCTION PROCESS AND NOT AT THE END. ALL GROUNDS SHALL BE INTERCONNECTED AT THE MAIN GROUNDING ELECTRODE USING A ERICO MODEL TGB-A16L08PT MOUNTED ADJACENT TO THE MAIN SERVICE EQUIPMENT OR MAIN SWITCH.
50. COORDINATE LOCATION AND QUANTITY OF FIRE / SMOKE DAMPERS WITH MECHANICAL CONTRACTOR PRIOR TO BID. COORDINATION OF LOCATIONS AND QUANTITIES WILL OVERRIDE LOCATIONS AND QUANTITIES INDICATED ON ELECTRICAL DRAWINGS. PROVIDE A 120V UNSWITCHED CIRCUIT TO EACH FIRE / SMOKE DAMPER. PROVIDE A DUCT MOUNTED SMOKE DETECTOR FOR EACH FIRE / SMOKE DAMPER. CONNECT DUCT MOUNTED SMOKE DETECTOR AND FIRE / SMOKE DAMPER TO FIRE ALARM SYSTEM. A CHANGE ORDER WILL NOT BE ALLOWED FOR LACK OF COORDINATION BETWEEN THE ELECTRICAL AND MECHANICAL CONTRACTOR FOR LOCATION AND QUANTITY OF FIRE / SMOKE DAMPERS.
51. COORDINATE REQUIREMENTS FOR TELEPHONE AND CABLE TELEVISION SERVICES WITH UTILITY PROVIDER PRIOR TO BID. UTILITY COMPANY REQUIREMENTS SHALL OVERRIDE REQUIREMENTS INDICATED HEREIN.
52. SEE FAIR HOUSING NOTES ON UNIT PLAN DRAWINGS FOR ADDITIONAL INFORMATION ON DEVICE MOUNTING HEIGHTS. IN "HC" UNITS, DIMENSIONS SHALL BE TO TOP OF ROUGH-IN BOX.
53. EXCEPT IN DWELLING UNITS, ALL SERVICE EQUIPMENT SHALL BE LABELED WITH THE MAXIMUM AVAILABLE FAULT CURRENT PROVIDED BY THE SERVICE EQUIPMENT MANUFACTURER. LABEL SHALL INCLUDE THE DATE OF CALCULATIONS. RECALCULATE AND RELABEL AS NECESSARY IN RENOVATIONS. (NEC 110.24).
54. IF THE CONTRACTOR DEVIATES FROM THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD, IN DETAIL, OF ANY DEVIATIONS FROM THE PLAN, PRIOR TO BID.
55. FIRE ALARM DEVICE LOCATIONS, QUANTITIES, AND SPECIFICATIONS, INDICATED HEREIN, ARE THE BASIS OF DESIGN. FINAL FIRE ALARM SYSTEM DESIGN SHALL MEET ALL REQUIREMENTS OF APPLICABLE NATIONAL CODES, APPLICABLE STATE CODES, APPLICABLE LOCAL CODES AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

EMERGENCY RESPONDER RADIO COVERAGE
AS A DEDUCTIVE ALTERNATE, PROVIDE A BOOSTER SYSTEM, PER SPECIFICATION 285000, FOR THE ENTIRE BUILDING TO BOOST THE RADIO COVERAGE/STRENGTH ADEQUATE FOR THE PUBLIC SAFETY COMMUNICATIONS SYSTEMS OF THE JURISDICTION AT THE EXTERIOR OF THE BUILDING. PROVIDE CONDUIT INFRASTRUCTURE, UNDER BASE BID, DURING CONSTRUCTION SUCH THAT NO CONDUIT WILL HAVE TO BE ADDED AT END OF PROJECT IF BUILDING REQUIRES BOOSTER SYSTEM AS PART OF BASE BID, PROVIDE TESTING FOR EMERGENCY RESPONDER SIGNAL AT TIME OF SHEET ROCKING, PER SPECIFICATION SECTION 285500.

ELECTRICAL ABBREVIATIONS			
ACT	ABOVE COUNTERTOP OR BACKSPLASH	FACP	FIRE ALARM CONTROL PANEL
AC	ALTERNATING CURRENT	FIX	FIXTURE
AL	ALUMINUM	FL	FLOOR
AMP	AMPERES	FU	FUSED
AFF/AFG	ABOVE FINISHED FLOOR/GRADE	GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
AHU	AIR HANDLING UNIT	GND/G	GROUND
APPROX	APPROXIMATELY	H.O.A.	HAND-OFF-AUTOMATIC
ARCH	ARCHITECTURAL	HP	HORSEPOWER
AWG	AMERICAN WIRE GAUGE	IEEE	INSTITUTE OF ELECTRICAL AND
BD	BOARD	ELECTRONIC	ENGINEERS
BLDG	BUILDING	JB	JUNCTION BOX
CAB	CABINET	KVA	KILOVAOLT-AMPERE
CAP	CAPACITY	KW	KILOWATT
CATV	CABLE TELEVISION	KAIC	KILO-AMPERE INTERRUPTING CAPACITY
CBB	CABLE TELEVISION BACKBOARD	MCA	MINIMUM CIRCUIT AMPACITY
CHT	CIRCUIT	MCCB	MAIN CIRCUIT BREAKER
CLG	CEILING	MECH	MECHANICAL
C/B	CIRCUIT BREAKER	MISC	MISCELLANEOUS
C/L	CENTER LINE	MTR	MOTOR
COL	COLUMN	MTD	MOUNTED
COND/C	CONDUIT	MLO	MAIN LUG ONLY
CONN	CONNECTION	MOCPP	MAXIMUM OVERCURRENT PROTECTION
CONT	CONTINUATION	M.O.D.	MOTOR OPERATED DAMPER
CORD	CORD AND PLUG	MRS	MOTOR RATED SWITCH
CPT	CONTROL POWER TRANSFORMER	NEC	NATIONAL ELECTRICAL CODE
CT	CURRENT TRANSFORMER	NES	NASHVILLE ELECTRIC SERVICE
CU	COPPER	NONFUSED	NONFUSED
DET	DETAIL	NL	NIGHT LIGHT
DF/EDF	ELECTRICAL DRINKING FOUNTAIN	NUMBER	NUMBER
DN	DOWN	NTS	NOT TO SCALE
DS	DISCONNECT SWITCH	P.I.V.	POST INDICATOR VALVE
DWG	DRAWING	PNL	PANEL
EA	EACH	PVC	POLYVINYL CHLORIDE CONDUIT
EC	ELECTRICAL CONTRACTOR	RTU	ROOF TOP UNIT
EF	EXHAUST FAN	SH	SHEET
ELEC	ELECTRIC	SW	SWITCH
EQ	EQUIPMENT	TR	TRANSFORMER
EX	EXISTING	TBB	TELEPHONE BACKBOARD
FA	FIRE ALARM	TELE	TELEPHONE
FSD	FIRE SMOKE DAMPER	UNO	UNLESS NOTED OTHERWISE
		WP	WEATHERPROOF

ELECTRICAL LEGEND			
S	WALL SWITCH SINGLE POLE SINGLE THROW, 48" AFF UNO.		CONDUIT EXPOSED TO VIEW UNLESS OTHERWISE NOTED
S1	WALL SWITCH 3-WAY, SINGLE POLE SINGLE THROW, 48" AFF UNO.		WIRE CONCEALED IN CEILING, CAVITY OR WALL
S1	WALL SWITCH 4-WAY, SINGLE POLE SINGLE THROW, 48" AFF UNO.		CONDUIT CONCEALED IN FLOOR, SLAB OR UNDERGROUND
S1	WALL OCCUPANCY SENSOR-SINGLE OR 3 WAY, 48" AFF UNO. DUAL TECHNOLOGY, MOTION AND INFRA-RED.		CONDUIT UP/CONDUIT DOWN
S1	WALL MOUNTED KEYED SWITCH, 48" AFF UNO.		1'X4 WALL MOUNTED WRAP AROUND FLUORESCENT FIXTURE. SEE LIGHT FIXTURE SCHEDULE.
	WALL/CEILING-MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY, MOTION AND INFRA-RED.		INDUSTRIAL FLUORESCENT STRIP FIXTURE, SURFACE OR STRIP SUSPENDED. SEE LIGHT FIXTURE SCHEDULE.
D	WALL MOUNTED DIMMER SWITCH, WATTAGE NOTED (SIZE/WATTAGE AS REQUIRED), 48" AFF UNO.		EMERGENCY FIXTURE WITH 90 MIN BATTERY. 1400 LUMEN BALLAST
D1	WALL MOUNTED 3-WAY DIMMER SWITCH, WATTAGE NOTED (SIZE/WATTAGE AS REQUIRED), 48" AFF UNO.		BATTERY POWER EMERGENCY LIGHT (PROVIDE UNSWITCHED HOT WIRE) SEE LIGHT FIXTURE SCHEDULE.
	DUPLEX RECEPTACLE, WALL MOUNTED, 18" AFF UNO.		EMERGENCY REMOTE HEAD INTERCONNECTED TO EXIT SIGN. OVERSIZE BATTERY IN EXIT SIGN.
	SINGLE RECEPTACLE, WALL MOUNTED, 18" AFF UNO.		EXIT SIGN, CEILING/WALL MOUNTED ARROWS AS REQUIRED. (PROVIDE UNSWITCHED HOT WIRE) SEE LIGHT FIXTURE SCHEDULE.
	SINGLE "GFCI" RECEPTACLE, WALL MOUNTED, 18" AFF UNO.		TRACK LIGHTING NUMBER OF HEADS AND LENGTH AS INDICATED ON DRAWINGS. SEE LIGHT FIXTURE SCHEDULE.
	DUPLEX RECEPTACLE, CEILING MOUNTED		2'x4' RECESSED MOUNTED FLUORESCENT FIXTURE. SEE LIGHT FIXTURE SCHEDULE.
	DUPLEX RECEPTACLE, WALL MOUNTED AFF, OR 8" ABOVE COUNTER UNO.		SURFACE OR RECESSED LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE.
	SWITCHED OUTLET		SURFACE OR RECESSED WALL WASHER. SEE LIGHT FIXTURE SCHEDULE.
	USB 1515ACS** SERIES TYPE COMBO OUTLET WALL MOUNTED, 18" AFF UNO.		WALL MOUNTED LIGHT FIXTURE COORDINATE MOUNTING HEIGHT WITH ARCHITECT. SEE LIGHT FIXTURE SCHEDULE.
	QUAD RECEPTACLE, WALL MOUNTED, 18" AFF UNO.		1'x4' SURFACE FLUORESCENT FIXTURE. SEE LIGHT FIXTURE SCHEDULE.
	QUAD RECEPTACLE, WALL MOUNTED AFF, OR 8" ABOVE COUNTER UNO.		EMERGENCY FIXTURE WITH 90 MIN BATTERY. 1400 LUMEN BALLAST
	DUPLEX "GFCI" RECEPTACLE, WALL MOUNTED AFF, OR 8" ABOVE COUNTER UNO.		SURFACE MOUNTED HID LIGHT FIXTURE.
	SPECIAL OUTLET WALL MOUNTED, 18" AFF UNO.		WALL MOUNTED HID LIGHT FIXTURE. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
	DUPLEX RECEPTACLE, IN FLUSH FLOOR BOX		EXTERIOR POLE FIXTURE. COORDINATE EXACT POLE HEIGHT WITH ARCHITECT.
	JUNCTION BOX		CEILING FAN. SEE LIGHT FIXTURE SCHEDULE.
	WALL MOUNTED JUNCTION BOX		TIME CLOCK / PHOTOCCELL
	SURFACE MOUNTED PANELBOARD		METER / METER ABOVE CT CABINET
	FLUSH MOUNTED PANELBOARD		
	SAFETY SWITCH, NON FUSED TYPE		
	SAFETY SWITCH, FUSED TYPE		
	PUSH BUTTON, WALL MOUNTED 46" AFF		
	DOOR BELL AUDIO/VISUAL DEVICE, WALL MOUNTED		
	EXHAUST FAN. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.		

FIRE ALARM LEGEND			
	CEILING/WALL MOUNTED HEAT DETECTOR		WALL MOUNTED VOICE/DATA OUTLET, 18" AFF - 3/4" CONDUIT WITH PULLWIRE TO ABOVE ACCESSIBLE CEILING OR TO TELEPHONE BACKBOARD
	110V COMBINATION CARBON MONOXIDE/SMOKE DETECTOR WITH BATTERY BACKUP, CEILING/WALL MOUNTED		WALL MOUNTED TELEPHONE OUTLET 18" AFF, PROVIDE (1) CAT5E CABLE AND TERMINATION PLATE.
	110V COMBINATION CARBON MONOXIDE/SMOKE DETECTOR WITH VISUAL STROBE WITH BATTERY BACKUP, CEILING/WALL MOUNTED		WALL MOUNTED DATA OUTLET, 18" AFF - 3/4" CONDUIT WITH PULLWIRE TO ABOVE ACCESSIBLE CEILING OR TO TELEPHONE BACKBOARD
	CEILING/WALL MOUNTED SYSTEM SMOKE DETECTOR		ABOVE COUNTER WALL MOUNTED DATA OUTLET, 8" ACT, U.N.O. - 3/4" CONDUIT WITH PULLWIRE TO ABOVE ACCESSIBLE CEILING OR TO TELEPHONE BACKBOARD
	SMOKE DETECTOR AIR DUCT MOUNTED		ABOVE COUNTER WALL MOUNTED DATA/TELEPHONE OUTLET, 8" ACT, U.N.O. - 3/4" CONDUIT WITH PULLWIRE TO ABOVE ACCESSIBLE CEILING OR TO TELEPHONE BACKBOARD
	FIRE ALARM TAMPER, FLOW AND PRESSURE SWITCH RESPECTIVELY (COORDINATE EXACT QUANTITY AND LOCATION WITH SPRINKLER SHOP DRAWINGS)		ABOVE COUNTER WALL MOUNTED DUAL JACK TELEPHONE OUTLET, 8" ACT, U.N.O. - 3/4" CONDUIT WITH PULLWIRE TO ABOVE ACCESSIBLE CEILING OR TO TELEPHONE BACKBOARD
	FIRE ALARM ADA APPROVED VISUAL STROBE DEVICE, 80" AFF		VOICE/DATA, IN FLUSH FLOOR BOX, PROVIDE 1" CONDUIT MINIMUM UNO IN SLAB TO NEAREST POINT OF ACCESS, AS SHOWN ON DRAWINGS.
	FIRE ALARM LOW FREQUENCY SOUNDER DEVICE, 80" AFF		POKE-THRU DEVICE WITH ONE (1) DUPLEX RECEPTACLE AND DATA/COMMUNICATIONS OUTLET(S)
	FIRE ALARM LOW FREQUENCY SOUNDER/VISUAL DEVICE, 80" AFF		TV OUTLET WITH ONE (1) COAX F TYPE CONNECTOR, PROVIDE 3" C AND ONE RG6 CABLE FROM OUTLET TO NEAREST CATV BACKBOARD. MOUNT 18" AFF UNO.
	FIRE ALARM ADA APPROVED PULLSTATION, 48" AFF		4'x8'x3/4" FIRE RATED PLYWOOD
	FIRE ALARM ADA APPROVED HORN/STROBE DEVICE, 80" AFF		SPEAKER - COORDINATE EXACT LOCATION AND REQUIREMENTS WITH LOW VOLTAGE CONSULTANT
	FIRE ALARM ADA APPROVED HORN/STROBE DEVICE, 80" AFF		SINGLE GANG BOX FOR CARD READER, 48" AFF. PROVIDE 3/4" CONDUIT TO TERMINATION LOCATION DETERMINED BY OWNER.
	CEILING-MOUNTED FIRE ALARM ADA APPROVED HORN/STROBE DEVICE		SINGLE GANG BOX FOR CALL BOX, 60" AFF
	CARBON MONOXIDE DETECTOR		MAGNETIC DOOR HOLDER
	FIRE ALARM CONTROL PANEL		SECURITY CAMERA. PROVIDE 3/4" CONDUIT TO TERMINATION LOCATION DETERMINED BY OWNER.
	FIRE ALARM ANNUNCIATOR PANEL		DUPLEX RECEPTACLE, TV COAX, AND VOICE/DATA FLUSH IN FLOOR, IN THREE-GANG CAST IRON FLOOR BOX PROVIDED BY CONTRACTOR. PROVIDE ADDITIONAL 1" CONDUIT MINIMUM UNO FROM DATA/TV COMPARTMENT IN SLAB TO NEAREST POINT OF ACCESS, AS SHOWN ON DRAWINGS.

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POOLE & MOORE ARCHITECTURE

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Project: 2501
CADD File:
Drawn By: AG
Checked By: LP

Permit Release:
-
Construction Release Set:
-

Revisions
No. Date Description

ASI / RFI Revisions
No. Date Description

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an Apartment Community by
Daleville Town Center Apartments III, LLC
in Daleville, Virginia

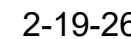
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Electrical Notes, Legends,
Abbreviations

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1415 W. Main Road St.
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No.	Date	Description

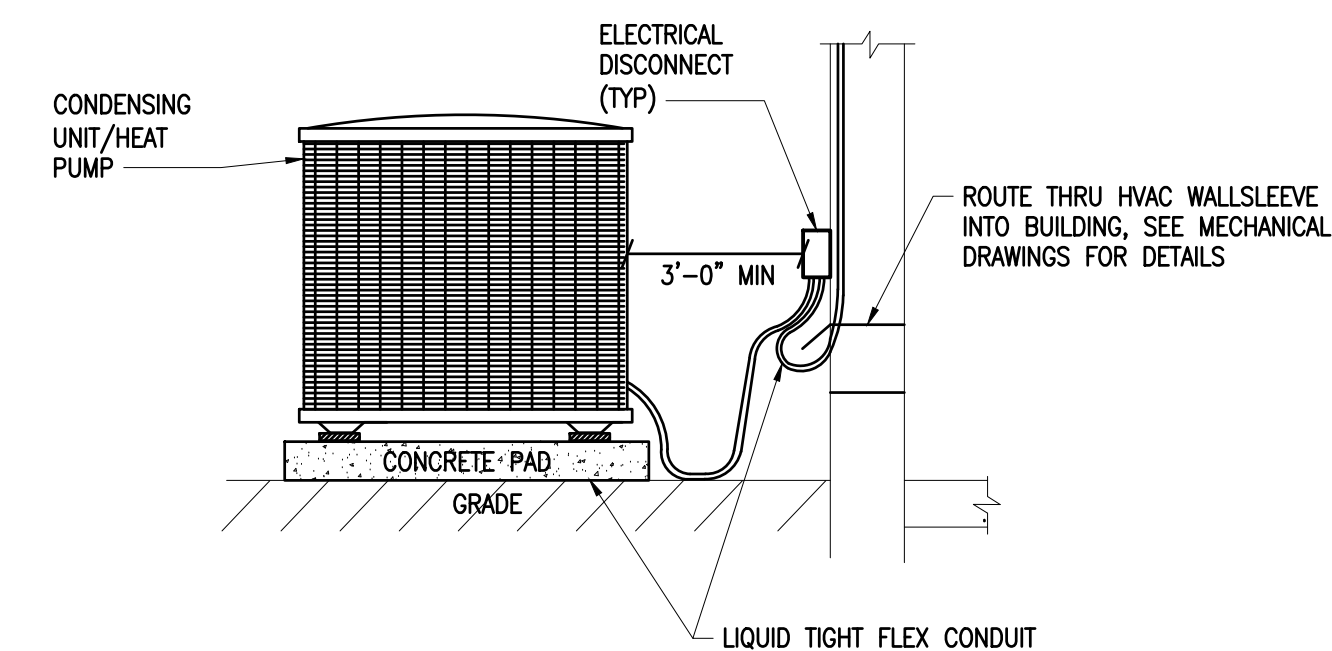
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1 EXTERIOR WALL MOUNTED DISCONNECT FOR ON GRADE HVAC EQUIPMENT
Scale: N.T.S. Detail


of 2

of 2

of 2

of 2

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System No. WJ-3189

WJ-3189

3. Firestop System — The firestop system shall consist of the following:

- A. Firestop Device* — Maximum five firestop devices grouped in two row configuration as depicted. The individual openings in the wall for each device are spaced min 2-7/16 in. (62 mm) apart such that the device flanges of adjacent devices are no closer than point contact. Firestop device consists of a corrugated steel tube with an inner plastic housing, instantaneous material rings, twisted inner fabric smoke seal, flanges and gasketing material (not shown). Firestop devices to be installed in accordance with the accompanying installation instructions. As an option, the inner fabric seal within each device may remain open except that, for all blank devices (no cables), the inner fabric seal shall be twisted to completely close the device. In addition, to attain the I Rating, the inner fabric seal must also be twisted to completely close the opening within each device. Device slid into wall such that ends project an equal distance from the approximate centerline of the wall assembly. Device provided with flanges that are spun clockwise onto device threads, over gasketing material butting tightly to both sides of wall. The annular space between each device and the periphery of the opening shall be nom 0 in. (point contact). Device flanges are to be secured to wall with min two 1-1/4 in. (32 mm) long masonry screws or anchors. As an alternate to gasket material, sealant (item 3B) may be used.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — CP 653 and CP 653 BA 2* Speed Sleeve, CP 653 and CP 653 BA 4* Speed Sleeve, CFS-SL GA/L Speed Sleeves, CP 653 4 BA ILS and CFS-SL GA/L ILS Speed Sleeve.

The CFS-SL GA/L and CFS-SL GA/L ILS Speed Sleeves shall only be used in wall thickness of 8 in. (203 mm) or greater.

A1. Firestop Device* — Same as Item A above except maximum four firestop devices grouped in one row as depicted. The individual openings in the wall for each device are spaced min 1-7/16 in. (36.5 mm) apart. Device flanges may overlap one device. As an option, the inner fabric seal may remain open except that, to attain the I Rating, the inner fabric seal shall be twisted to completely close the opening within each device.

- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — CP 653 and CP 653 BA 2* Speed Sleeve, CP 653 and CP 653 BA 4* Speed Sleeve, CFS-SL GA/L Speed Sleeves, CP 653 4 BA ILS and CFS-SL GA/L ILS Speed Sleeve.
- The CFS-SL GA/L and CFS-SL GA/L ILS Speed Sleeves shall only be used in wall thickness of 8 in. (203 mm) or greater.

B. Fill, Void or Cavity Material* — As an alternate to gasketing material (see item 3A), min 1 1/4 in. (6 mm) bead of fill material applied around periphery of each device to wall interface on both sides of wall prior to installing device flanges.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — CP 606 and FS-ONE MAX Instantaneous Sealant.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

A large, empty rectangular frame with a thin black border, occupying the majority of the page below the header. It appears to be a placeholder for a diagram or image related to the firestop systems mentioned in the header.

1 CABLE THRU RATED CONCRETE WALL ASSEMBLY
NO SCALE

Classified by
Underwriters Laboratories, Inc.
to UL 1479

System No. W-L-2078

F Ratings — 1 and 2 Hr (See Item 1)

T Ratings — 0, 1 and 2 Hr (See Items 2 and 3)

L Rating At Ambient — 3 CFM/sq ft

L Rating At 400 F — Less Than 1 CFM/sq ft

The diagram illustrates the construction details of Wall Assembly A-A. The top portion shows a vertical section through the wall, revealing multiple layers of gypsum board separated by air spaces. Key components labeled include: (1) the exterior finish, (2) the main structural wall assembly, (3) the interior finish, and (A) and (B) indicating specific material interfaces or fasteners. Below this, a circular plan view shows the arrangement of four fasteners around the perimeter of the wall assembly.

1. Wall Assembly — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the features noted below:

A. Studs — Wall Framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 41 mm) spaced max 19 in. (486 mm). Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. Gypsum Board — Nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Max dir 11-1/2 in. (292 mm).

2. The hourly F Rating of the freestanding system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through-Penetrants — For nonmetastatic pipe, conduit or tubing to be installed within the freestop system. The annular space between periphery of opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). Pipe or conduit to be rigidly supported on both sides assembly. The following types and sizes of nonmetallic pipes may be used:

A. Polyvinyl Chloride (PVC) Pipe — Nom 10 in. (254 mm) diam (or smaller) Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.


B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 10 in. (254 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (supply) piping systems.

C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe in closed (process or supply) or vented (drain, waste or vent) piping systems

D. Flame Retardant Polypropylene (FRPP) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 FRPP pipe for use in clos supply) or vented (drain, waste or vent) piping system.

E. Polyethylene Fluoride (PVDF) Pipe — Nom 4 in. (102 mm) diam (or smaller) PVDF pipe for use in closed (process or supply) (drain, waste or vent) piping system.

F. Crosslinked Polyethylene (PEX) Tubing — Nom 4 in. (102 mm) diam (or smaller) SDR 9 Uponor AquaPEX or Wirsbo hEX PEX for use in closed (process or supply) piping systems.



Hilti Firestop Systems

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July 31, 2018

Systum No. W-L-2078


3. Firestop Device* — Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions, installed and latched around the pipe and secured to both sides of the wall using the anchor hooks provided with the collar. (Minimum hooks for 1-1/2 and 2 in. (38 and 51 mm) diam pipes, three anchor hooks for 3 and 4 in. (76 and 102 mm) diam pipes, four anchor (152 mm) diam pipes, ten anchor hooks for 8 in. (203 mm) diam pipes and twelve anchor hooks for 10 in. (254 mm) diam pipes. There are to be secured to the surface of wall with 3/16 in. (4.8 mm) diam by 2-1/2 in. (64 mm) long steel toggle bolts along with washers, alternate for pipe sizes of nom 4 in. diam or less, min No. 10 by 1-1/2 in. (254 by 38 mm) long drywall or laminate screws with min 1/8 inch steel washers may be used. When the drywall or laminate screw is used, T Rating shall not exceed 1 hr.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 501/5/N, CP 643 632/N, CP 643 903/N, CP 643 1104/N, CP 644-2008/ US and CP 644-2501/10/ US Firestop Collars

4. Fill, Void or Cavity Material* — Sealant - (Not Shown) — Min 1/2 in. (13 mm) thickness of sealant applied within the annular space and 10 in. (203 and 254 mm) diam pipes, flush with each side of wall. Sealant in annular space is optional for max 6 in. (152 mm) except that for perennant type 2F, sealant is required. A min 1/4 in. (6 mm) thickness of sealant is required within the annular space each side of wall, to attain the L Ratings for max 6 in. (152 mm) diam pipes.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant



* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as respectively.



Hilti Firestop Systems

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3 NON-METALLIC CONDUIT THRU RATED GYPSUM WALLBOARD/ STUD WALL ASSEMBLY
NO SCALE

	<p style="text-align: center;">2-19-26</p>
	<div style="text-align: center;">  ZPA POOLIE & POOLE ARCHITECTURE 4240 Park Place Court Glen Allen, Virginia 23060 Telephone 804.225.0215 www.zpa.net </div>
Project:	Z501
CADD File:	
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Seal



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www.zpa.net

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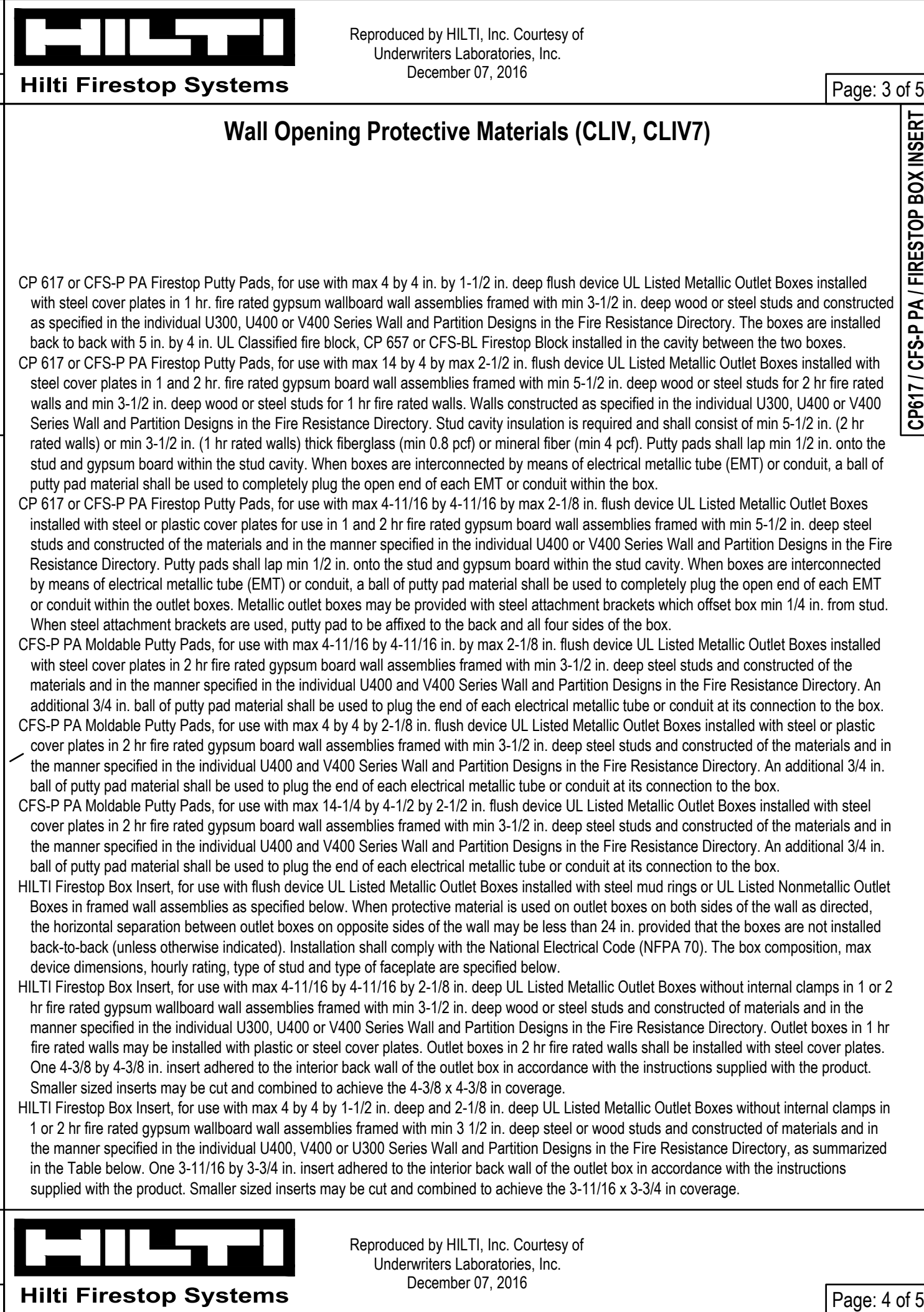
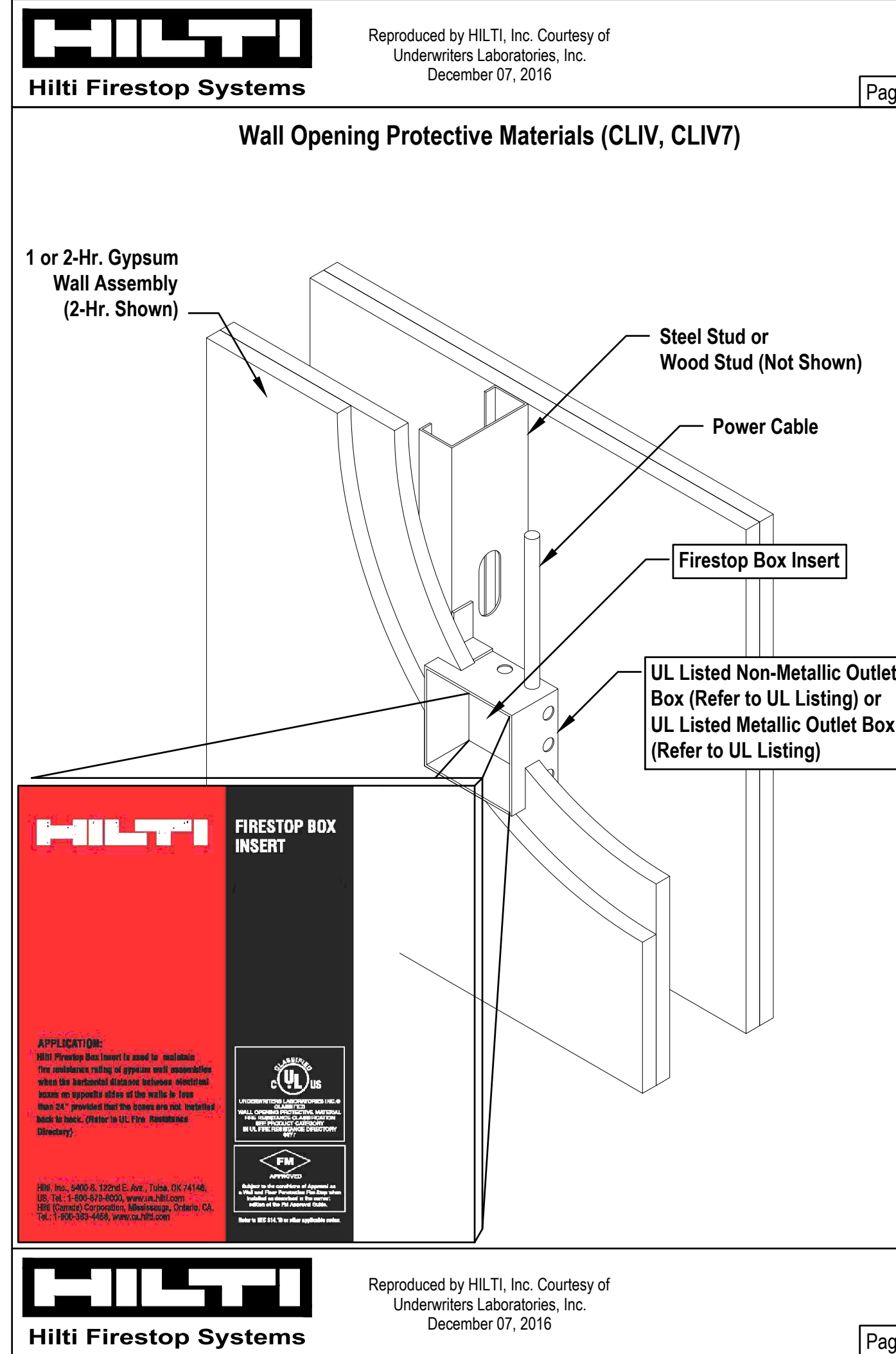
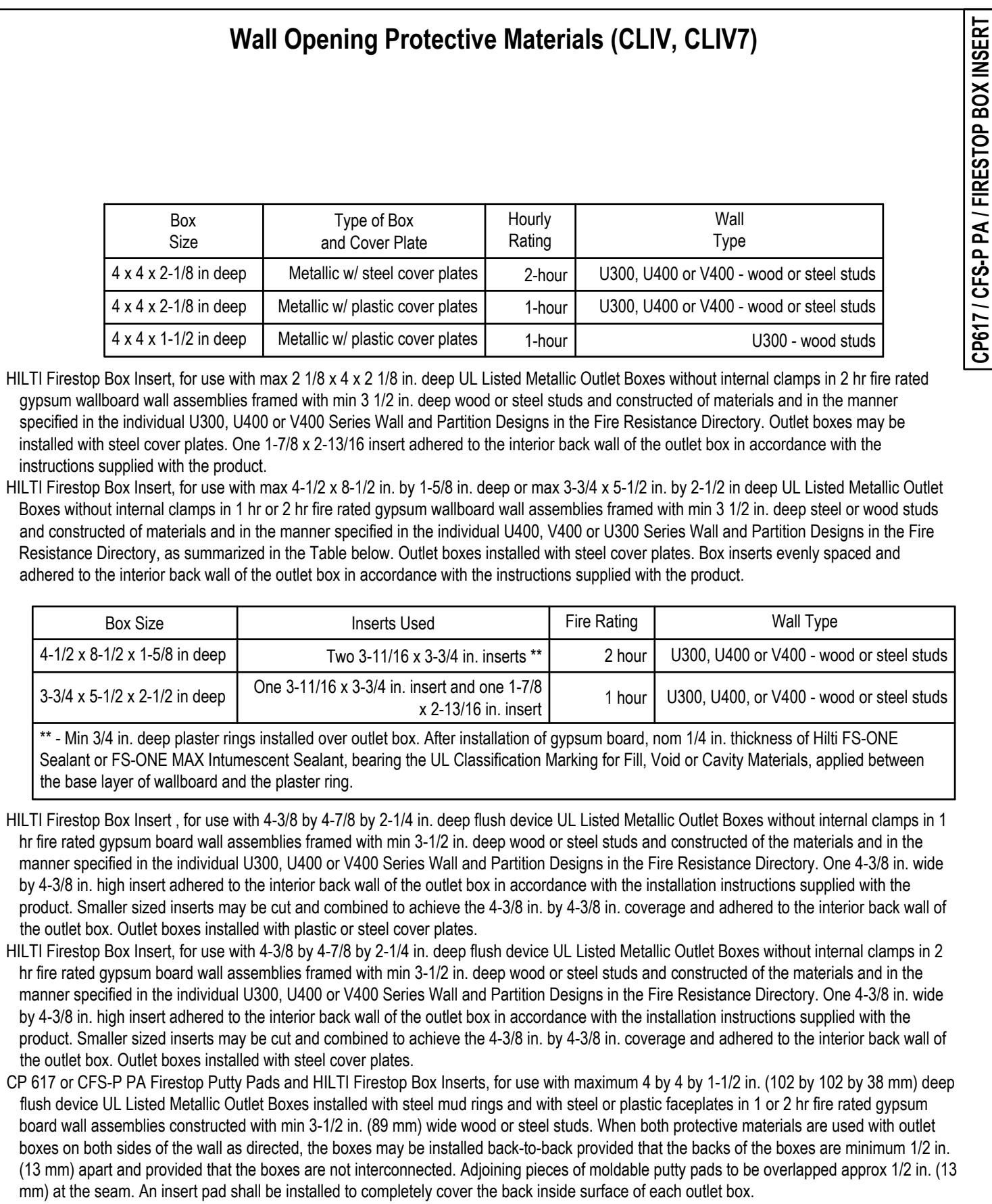
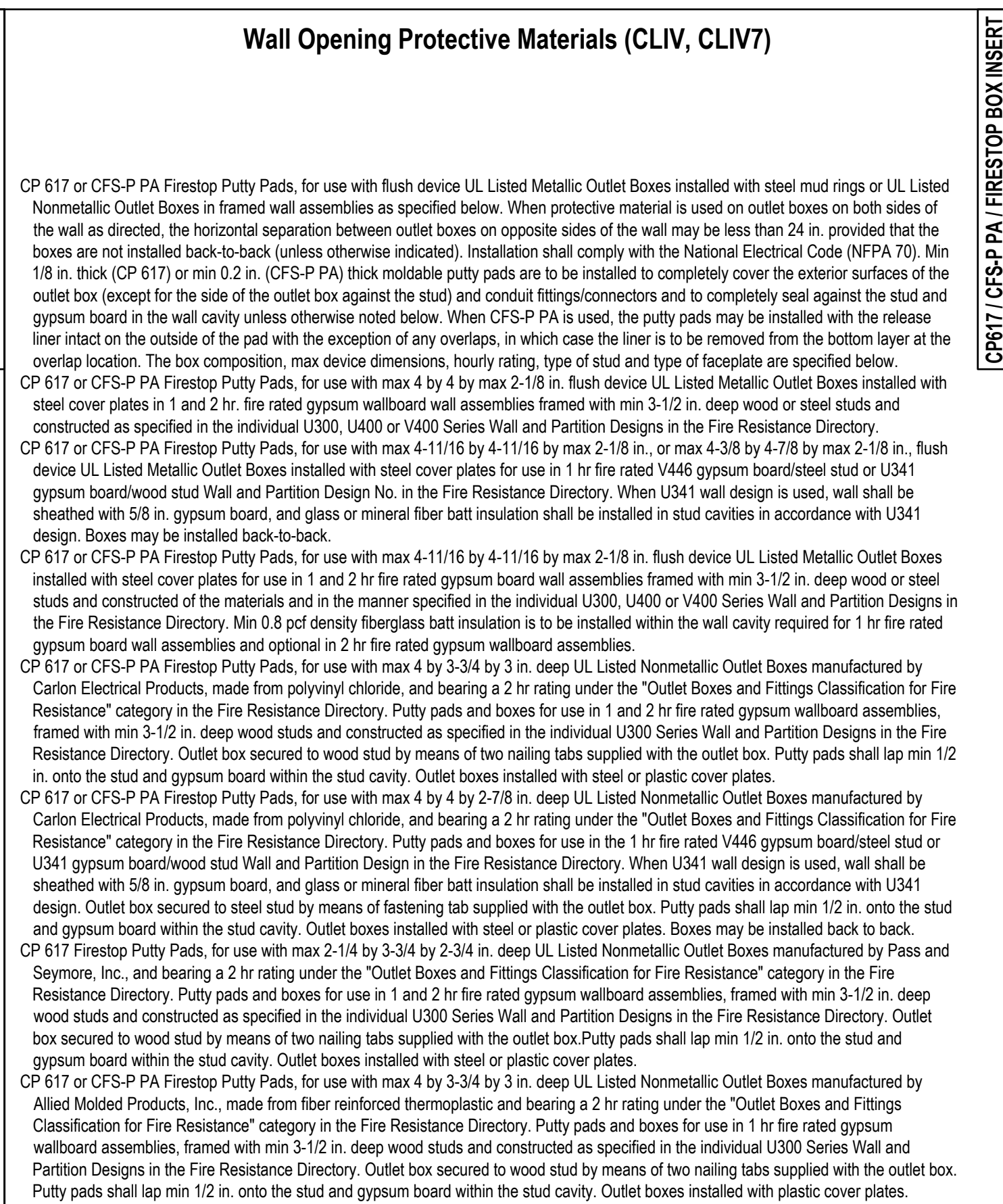
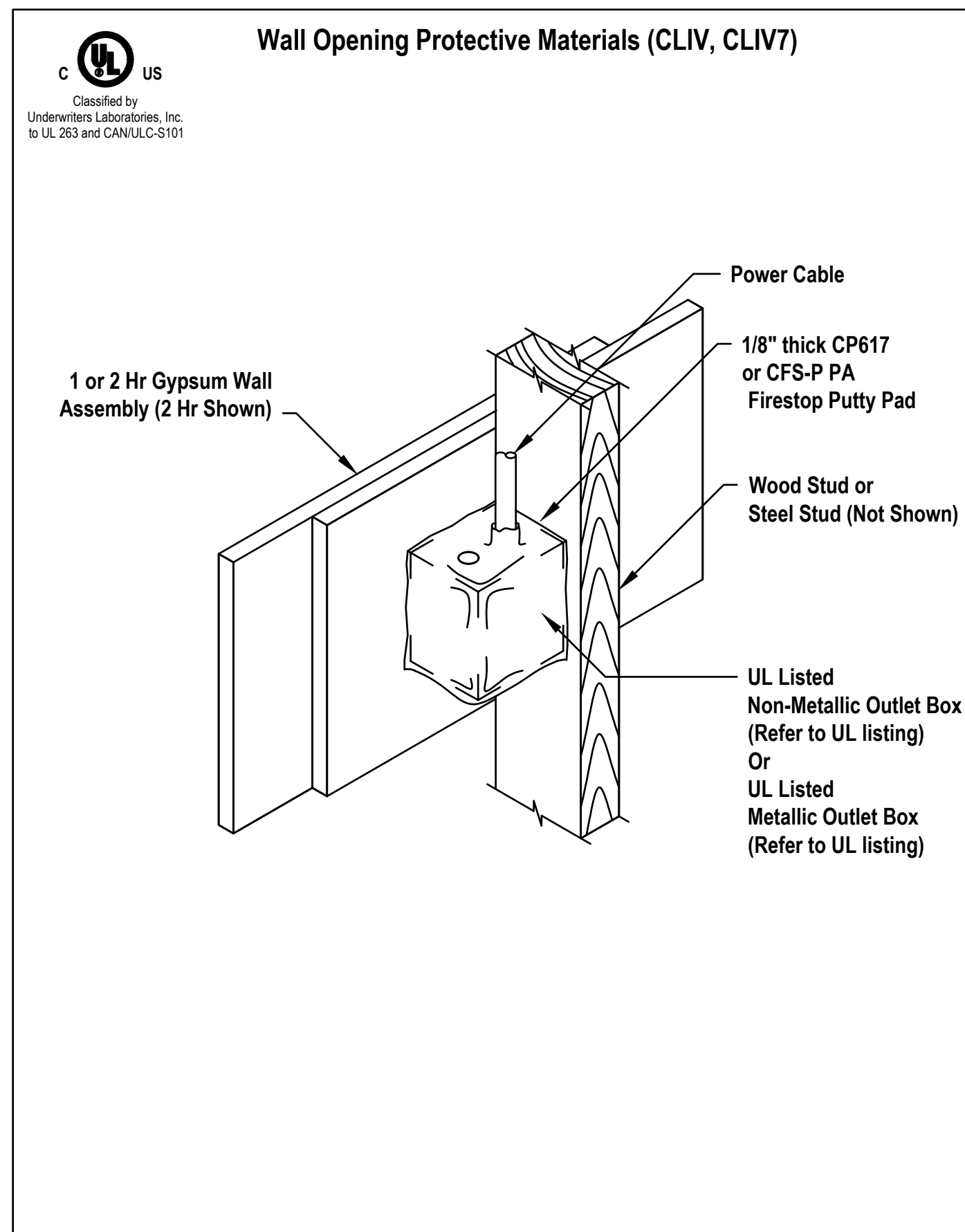
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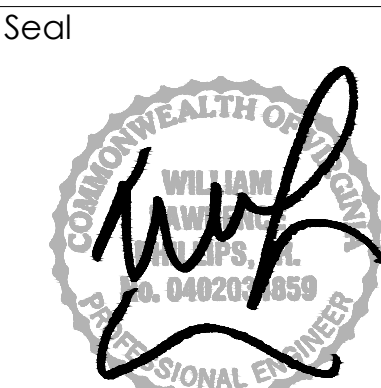
Notes:

2. Details shown are typical details. If field conditions do not match requirements of typical details, approved alternate details shall be utilized. Field conditions and dimensions need to be verified for compliance with the details, including but not limited to the following:
 - * Minimum and maximum Width of Joints
 - * Type and thickness of fire-rated construction. The minimum assembly rating of the firestop assembly shall meet or exceed the highest rating of the adjacent construction.
3. If alternate details matching the field conditions are not available, manufacturer's engineering judgment drawings are acceptable. Drawings shall follow the International Firestop Council (IFC) Guidelines for Evaluating Firestop Systems Engineering Judgments.
4. References:
 - * Underwriter's Laboratories Fire Resistance Directory, Volume 2
 - * NFPA 101 Life Safety Code
 - * All governing local and regional building codes
5. Firestop System installation must meet requirements of ASTM E-814 (UL 1479) tested assemblies that provide a fire rating equal to that of construction being penetrated.
6. All rated through-penetrations shall be prominently labeled with the following information:
 - * ATTENTION: Fire Rated Assembly
 - * UL System #
 - * Product(s) used
 - * Hourly Rating (F-Rating)
 - * Installation Date



Notes:

1. Refer to architectural specifications for Quality Control requirements, refer to the Quality Control portion of the specification.
2. Details shown are typical details. If field conditions do not match requirements of typical details, approved alternate details shall be utilized. Field conditions and dimensions need to be verified for compliance with the details, including but not limited to the following:
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 - * Installation Date



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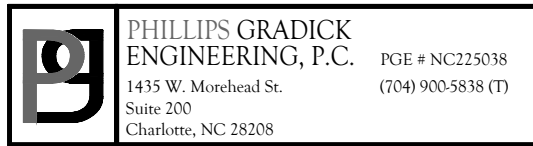
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UL

US

Certified by

Underwriters Laboratories, Inc.

to UL 1479 and CANULC S115

System No. F-A-1018

ANSI/UL1479 (ASTM E814)	CANULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 H

1A

1B

2

3A

3B

SECTION A-A

2

3B

SECTION A-A

1. Floor Assembly — The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:

A. Concrete — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.

B. Steel Floor and Form Units* — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design. Max diam of opening is 3 in. (76 mm).

2. Flexible Steel Conduit — Nom 1 in. (25 mm) diam (or smaller) flexible steel conduit. Max one conduit installed within the firestop system. The annular space between conduit and periphery of opening shall be min 1/2 in. to max 1-1/4 in. (13 to 32 mm). Conduit to be rigidly supported on both sides of floor assembly.

See Flexible Metal Conduit (DXLZ) category in the Electrical Construction Material Directory for names of manufacturers.

3. Firestop System — The firestop system shall consist of the following:

A. Packing Material — Min 1 in. (25 mm) thickness of min 4.0 pcf (64 kg/m³) mineral wool batt insulation firmly packed into the opening as a permanent form. Packing material to be recessed from top surface of floor as required to accommodate the required thickness of fill material.

B. Fill, Void or Cavity Materials* — Sealant — Min 1/2 in. (13 mm) thickness of sealant applied within annular space, flush with top surface of floor.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

+Bearing the UL Listing Mark

HILTI

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 23, 2015

1

MC CABLE THRU CONCRETE/STEEL FLOOR ASSEMBLY

NO SCALE

UL

US

Certified by

Underwriters Laboratories, Inc.

to UL 1479 and CANULC S115

System No. W-L-1243

ANSI/UL1479 (ASTM E814)	CANULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0	FT Rating — 0
L Rating At Ambient - 6 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient - 5 CFM/sq ft
	L Rating At 400 F - Less Than 1 CFM/sq ft

1

2

3

SECTION A-A

1

2

3

SECTION A-A

1. Wall Assembly — The 1 or 2 Hr, fire-rate gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Design in the Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing shall consist of either wood studs or channel shaped steel studs. Wood studs to consist of 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide, fabricated from min 25 MSG galvanized steel, spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft. (1.2 m) wide with square or tapered edges. The gypsum board type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Designs. Max diam of opening is 3-1/2 in. (89 mm).

The hourly F, FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through-Penetrant — Max one flexible metal pipe or conduit installed concentrically or eccentrically within opening. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1 in. (25 mm). Penetrant to be rigidly supported on both sides of wall assembly. The following types and sizes of penetrants may be used:

A. Flexible Metal Conduit+ — Nom 2 in. (51 mm) diam (or smaller) aluminum or steel flexible conduit installed either concentrically or eccentrically within the firestop system. The annular space between conduit and periphery of opening shall be min 0 in. (point contact) to max 1 in. (25 mm). Conduit to be rigidly supported on both sides of wall assembly.

See Flexible Metal Conduit (DXLZ) category in the Electrical Construction Materials Directory for names of manufacturers.

B. Through Penetrating Product* — Flexible Metal Piping — The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping.

OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping.

GASTITE, DIV OF TITFLEX

3. Min 5/8 in. (16 mm) thickness of fill material applied with annulus, flush with both surfaces of the wall. At point contact location between penetrant and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the penetrant/gypsum board interface on both sides of wall.

WARD MFG L L C

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

HILTI

Hilti Firestop Systems

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2

MC CABLE THRU GYPSUM BOARD/STUD WALL ASSEMBLY

NO SCALE

Notes:

1. Refer to architectural specifications for Quality Control requirements, refer to the Quality Control portion of the specification.

2. Details shown are typical details. If field conditions do not match requirements of typical details, approved alternate details shall be utilized. Field conditions and dimensions need to be verified for compliance with the details, including but not limited to the following:

- * Minimum and maximum Width of Joints
- * Type and thickness of fire-rated construction. The minimum assembly rating of the firestop assembly shall meet or exceed the highest rating of the adjacent construction.

3. If alternate details matching the field conditions are not available, manufacturer's engineering judgment drawings are acceptable. Drawings shall follow the International Firestop Council (IFC) Guidelines for Evaluating Firestop Systems Engineering Judgments.

4. References:

- * Underwriter's Laboratories Fire Resistance Directory, Volume 2
- * NFPA 101 Life Safety Code
- * All governing local and regional building codes

5. Firestop System installation must meet requirements of ASTM E-814 (UL 1479) tested assemblies that provide a fire rating equal to that of construction being penetrated.

6. All rated through-penetrations shall be prominently labeled with the following information:

- * ATTENTION: Fire Rated Assembly
- * UL System #
- * Product(s) used
- * Hourly Rating (F-Rating)
- * Installation Date

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Seal

2-19-26

2PA

POOLE & MOORE ARCHITECTURE

4240 Park Place Court
Glen Allen, Virginia 23060
Telephone 804.225.0215
www.2pa.net

Project: 2501
CADD File:
Drawn By: AG
Checked By: WLP
Permit Release:
Construction Release Set:

Revisions
No. Date Description

ASI / RFI Revisions
No. Date Description

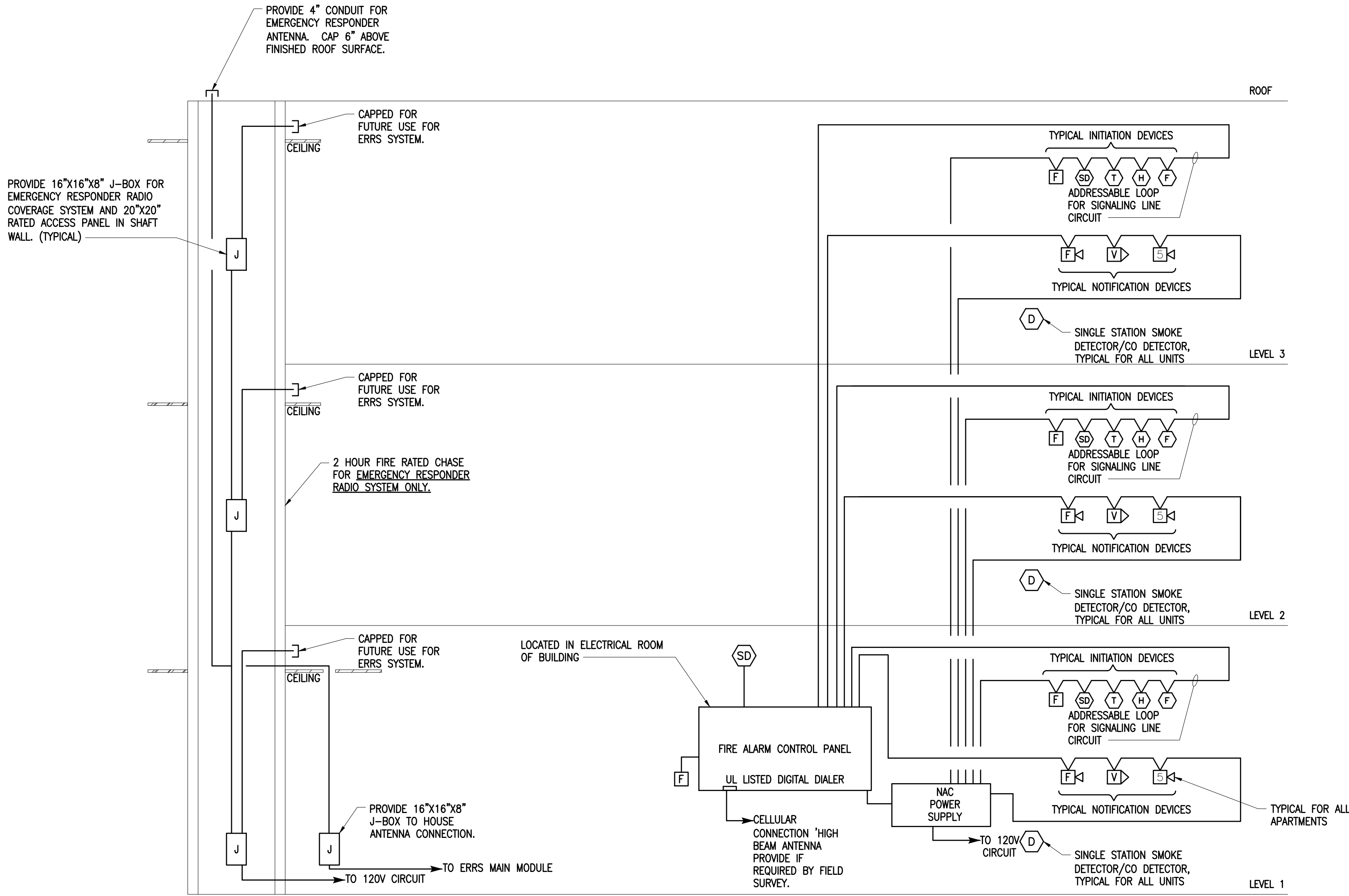
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Daleville Town Center Apartments III
an Apartment Community by
Daleville Town Center Apartments III, LLC
in Daleville, Virginia

Drawing Title:
Hilti Details

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1 TYPICAL 3-STORY FIRE ALARM RISER DIAGRAM
Scale: N.T.S. Schematic

Seal



2-19-26



POOLE & POOLE ARCHITECTURE
4240 Park Place Court
Glen Allen, Virginia 23060
Telephone 804.225.0215
www.zpa.net

Project: 2501
CADD File:
Drawn By: LP
Checked By: AG

Permit Release:
-
Construction Release Set:
-

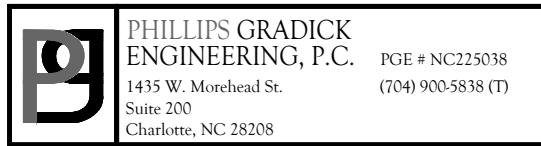
Revisions
No. Date Description

ASI / RFI Revisions
No. Date Description

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Daleville Town Center Apartments III
an Apartment Community by
Daleville Town Center Apartments III, LLC
in Daleville, Virginia

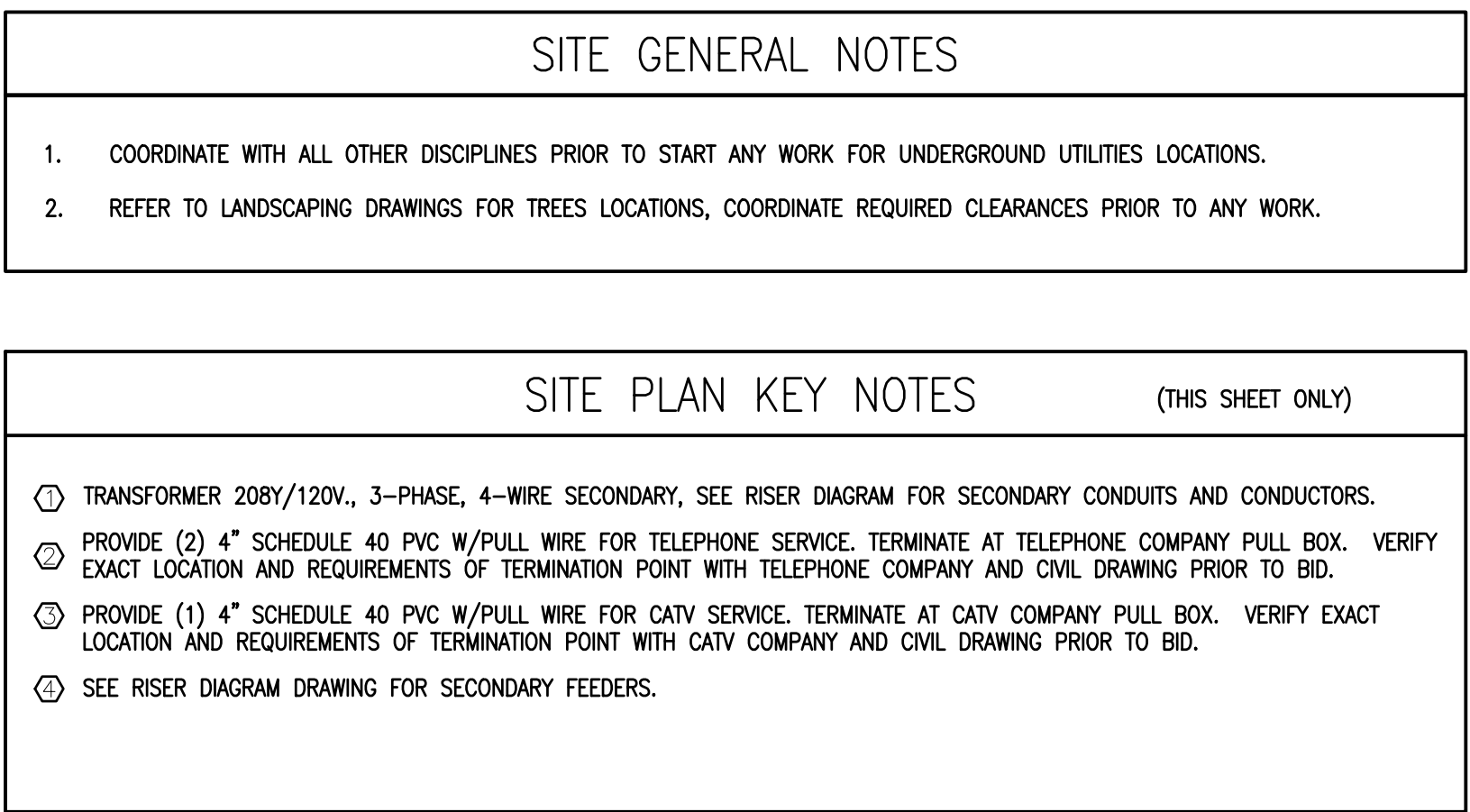
Drawing Title:
Fire Alarm Riser Diagrams



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K803 SOLITAIRE SR - LED PENDANT

KING 
LED TECHNOLOGY

The K803 Solitaire SR, provides a traditional pendant designed to increase roadway performance while providing superior spacing. Suitable for off roadway applications as well, this trimless design can be used in both contemporary and historical settings. A 3/4" scaled version of this fixture is also available in our K700 Series of pendants.

PROJECT:

PREPARED BY:

DATE:

PRODUCT SPECIFICATIONS

LED ENGINE

Lights engine shall include an array of 60 or 60 M/sold state Cree X-SE (high power, high beam emitting diodes). The emitters shall be mounted to a metal core circuit board using SMT technology. The LEDs and circuit boards shall then be mounted to a high performance heat sink which is verified to be the outside ambience air to provide dynamic airflow for cooling the system.

OPTICS

Optics shall consist of system of high precision reflective lenses mounted above the LED emitter arrays in a way to achieve optimum uplight control. The lenses shall also control horizontal air flow. The design department are achieved.

LEN'S

The K803 Solitaire SR. Pendant is made with or without a lens. Lens options include: glass lenses with shallow glass lens or etched acrylic deep dish lens. The glass lens shall be made of #8000 clear borosilicate glass (fully annealed). It will maintain a minimum thickness of .137". The deep dish globe shall be moulded of injected acrylic Acrylic Acrylic Polymer, or equivalent having a minimum thickness of .009". The lens is secured by means of a cast A319 aluminum holding ring. The lens is secured to provide an IP66 ingress rating. Additionally continuous circular gasket assembly for "000" mould the lens into ring and assist in sealing the fixture.

DECORATIVE BODY

The luminaire shall consist of a cast aluminum housing that acts as the enclosure inside of the engine and is of adequate thickness to give structural rigidity. The engine must be affixed to the inside of the housing with stainless steel screws.

PULVERIZER

The K803 Solitaire SR. comes with multiple mounting options including the K803-10, K803-15, K803-20, K803-30, K803-1 and K803-40. Please contact King Luminaire for more details and specifications.

DRIVER

The LED universal dimmable driver will be class 2 and capable of 120 - 277V or 240 - 277V input voltage greater than 0.8 power factor, less than 20% total harmonic distortion and features a case temperature range of -35°C up to 65°C. Each driver assembly with a standard surge protection designed to withstand up to 20kV/100A surge current surge as per IEEE C62.41.2 Class II. An in-line ferrite bead is added to provide protection against EFTs. The driver assembly be mounted on a heavy duty fabricated galvanized steel bracket to allow complete tool-less maintenance.

PHOTOMETRICS

Features are tested to IESNA LM79 specifications. These reports are available upon request.

CHROMATICITY

High output LEDs come standard with 3000K color temperature with a minimum number of 70 CRI. Additionally chromaticity and color gamut are available upon request.

LUMEN MAINTENANCE

Reported (LM79) and Calculated (LM79) reports are available upon request. The LM79 calculated value of 100,000 hrs.

WIRING

All internal wiring and connections shall be completed so that it will be necessary only to attach the incoming supply conductors to the N-Lok connectors or to a terminal block. The fixture shall be designed for 600V operation. Interne wires shall be crimp connected and only rated at 1000V and 150°C. All wiring to be UL listed, type SFF-2, SEW-2 or SEW-2 No. 14, 150°C, 600V, and color coded for the required voltage.

THERMALS

Features tested to DOE sanctioned standards to determine the maximum in-situ solder-point or junction-point temperatures of the LED emitters. This report is available upon request.

FINISH

Housing is finished with a 13 step

KingCoat™ SuperDurable polyester TOC powder coat. Standard colors include: strobe white, brown metal, marine blue, gal. steel, Chicago bronze, standard gold, standard black, federal green and rain forest. Please see our website for a complete list of colors. RAL and custom color matches are available.

MISCELLANEOUS

All exterior hardware and fasteners, where applicable, shall be stainless steel alloy. All internal fasteners are stainless steel or zinc coated steel. All remaining internal hardware is stainless steel, aluminum alloy, or zinc coated steel.

WARRANTY

The K803 Solitaire SR LED luminaire comes with a 7 year limited warranty.

30 / 1/4"

CERTIFICATION:

CSA US Listed
Suitable for wet locations
UL 800 Listed
IP66
RoHS compliant
LM79 / LM80 compliant

DRIVER INFO:

>30 Power Factor
>20k Thermal Protection
120V / 277V / 347-480V
-35°C Min. Case Temperature
60°C Max. Case Temperature
Surge Protection AIEEE C13.2
external max 20kV/100A


EPA

Flg. Lens: 0.86 ft. x 8.8 ft.
Shallow Lens: 1.02 ft. x 8.8 ft.
Deep Dish Lens: 1.34 ft. x 8.8 ft.

FIXTURE WEIGHT:

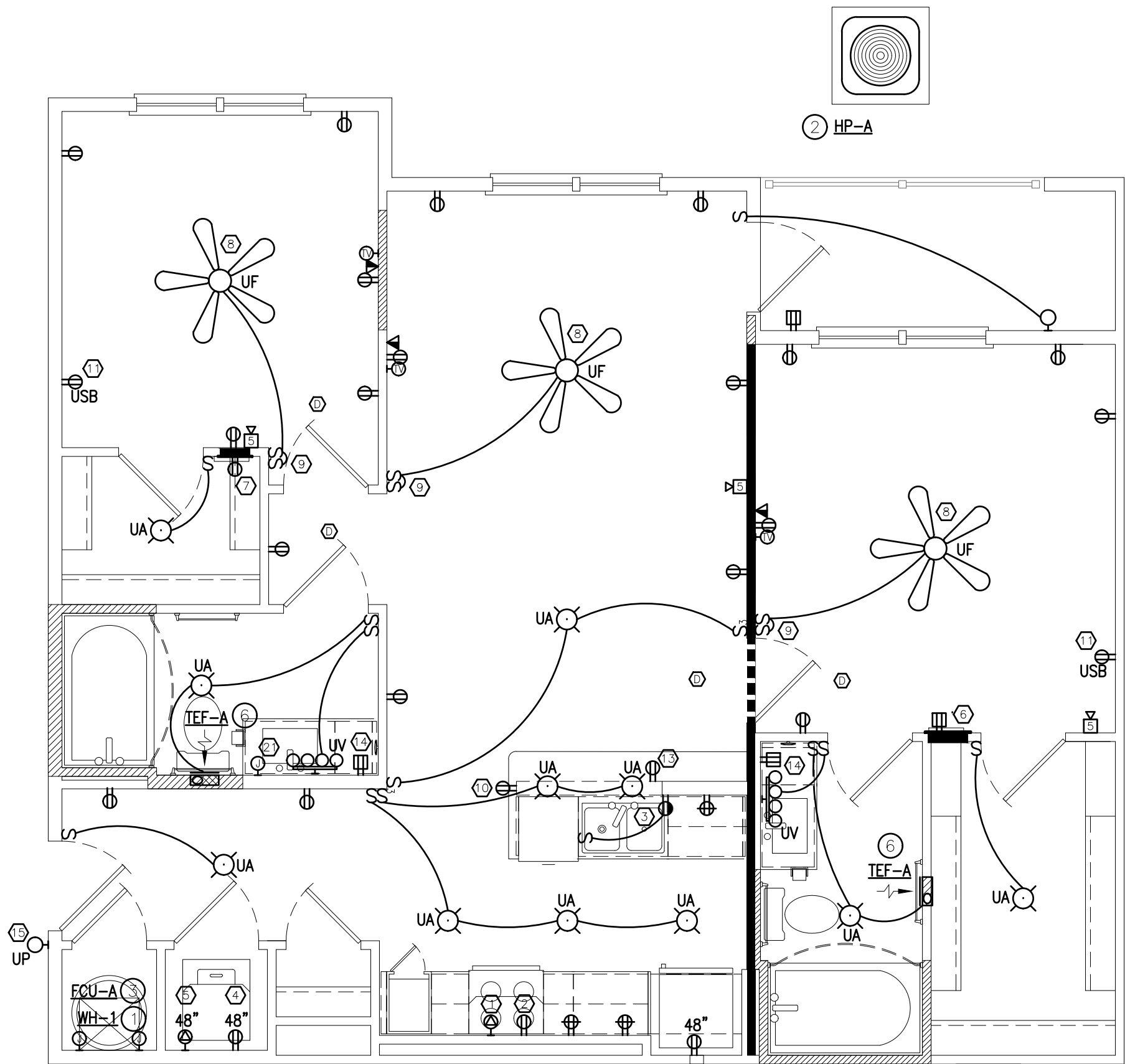
Flg. Lens: 50 lb
Shg. Lens: 50 lb
Shallow Lens: 50 lb
Deep Dish Lens: 50 lb

7-19-2017

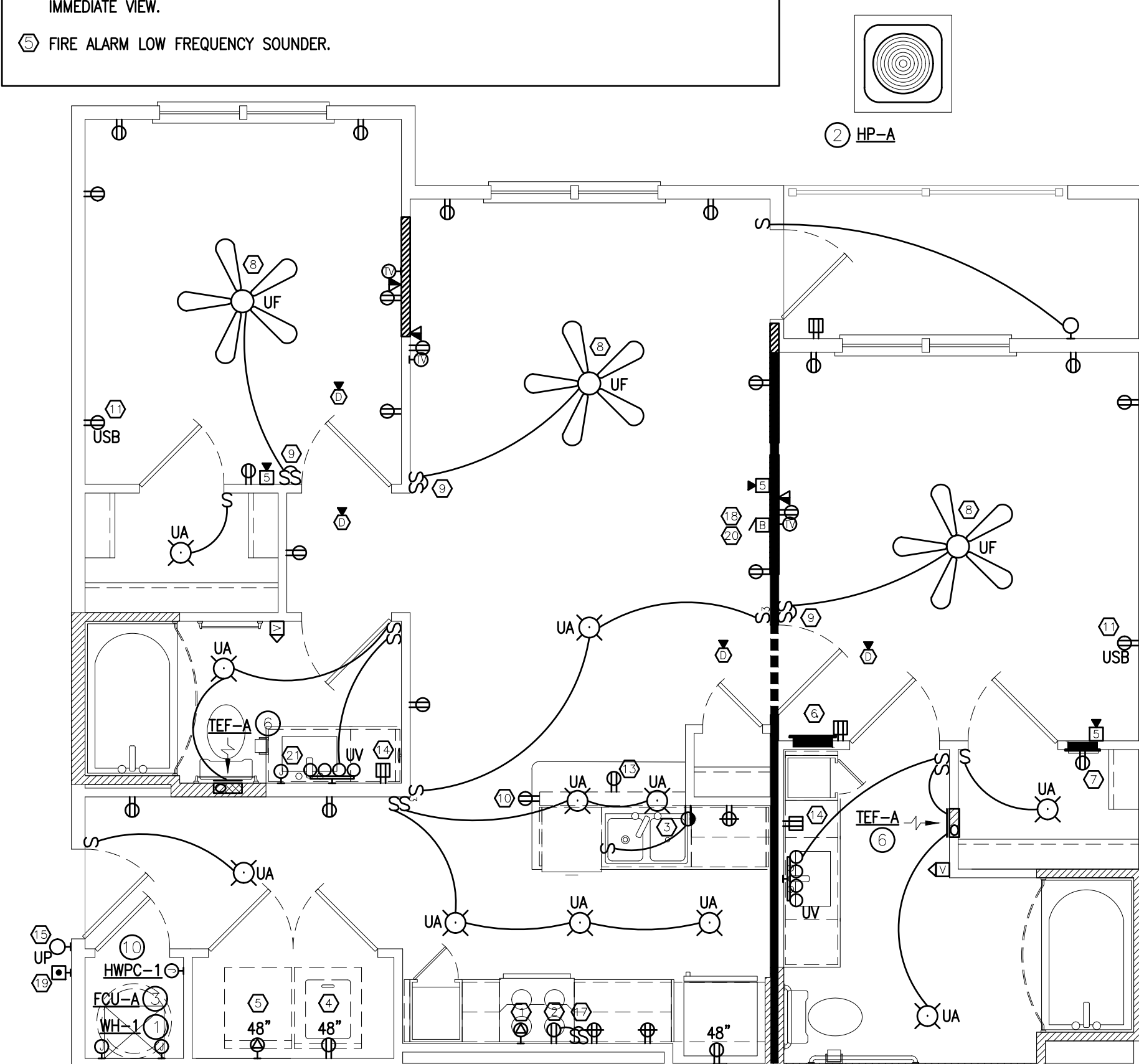


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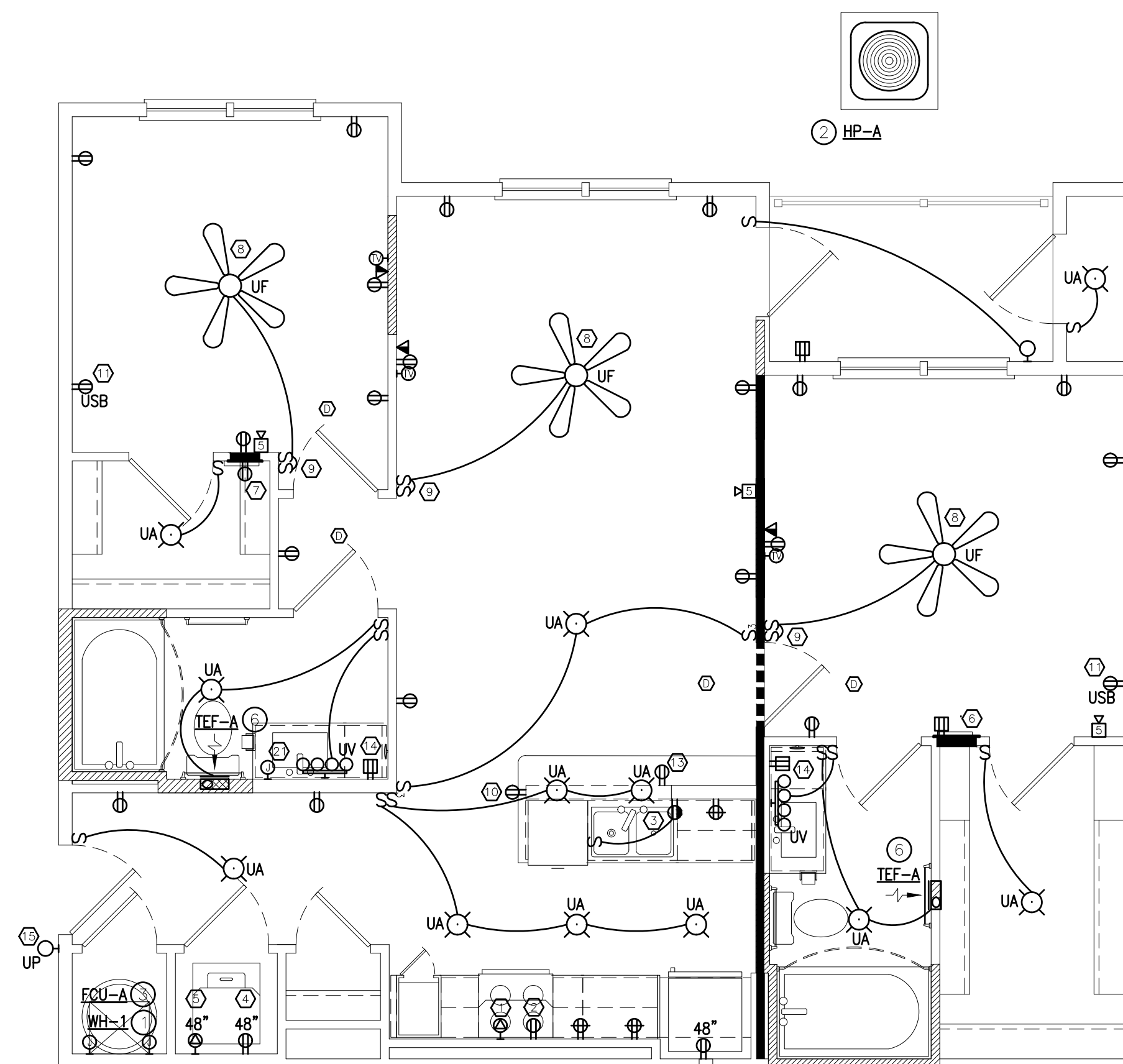
PGE # NC225038
(704) 900-5838 (TT)



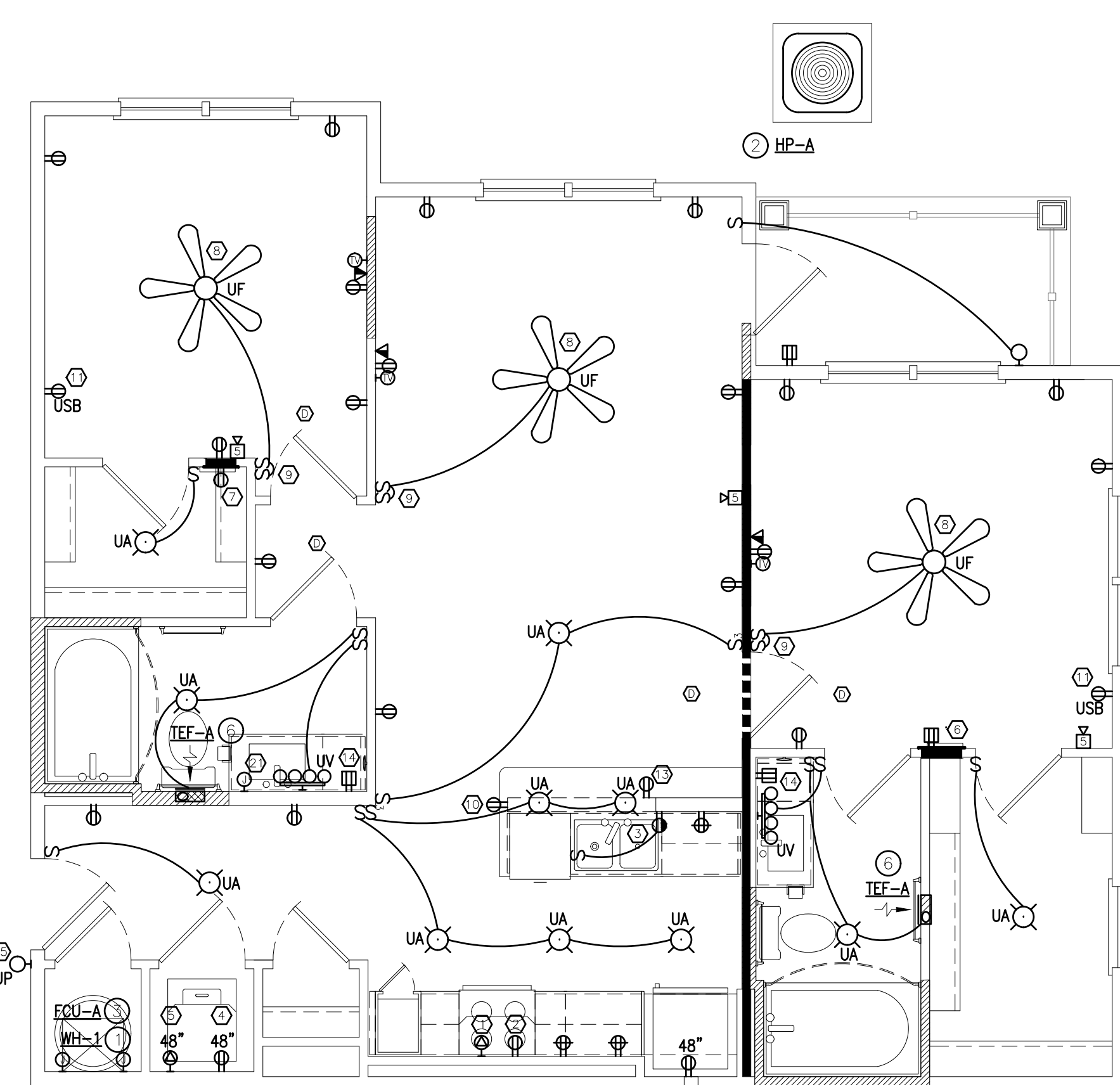
3 Unit B1 Alt-2 - Electrical
Scale: 1/4"= 1'-0" Plan



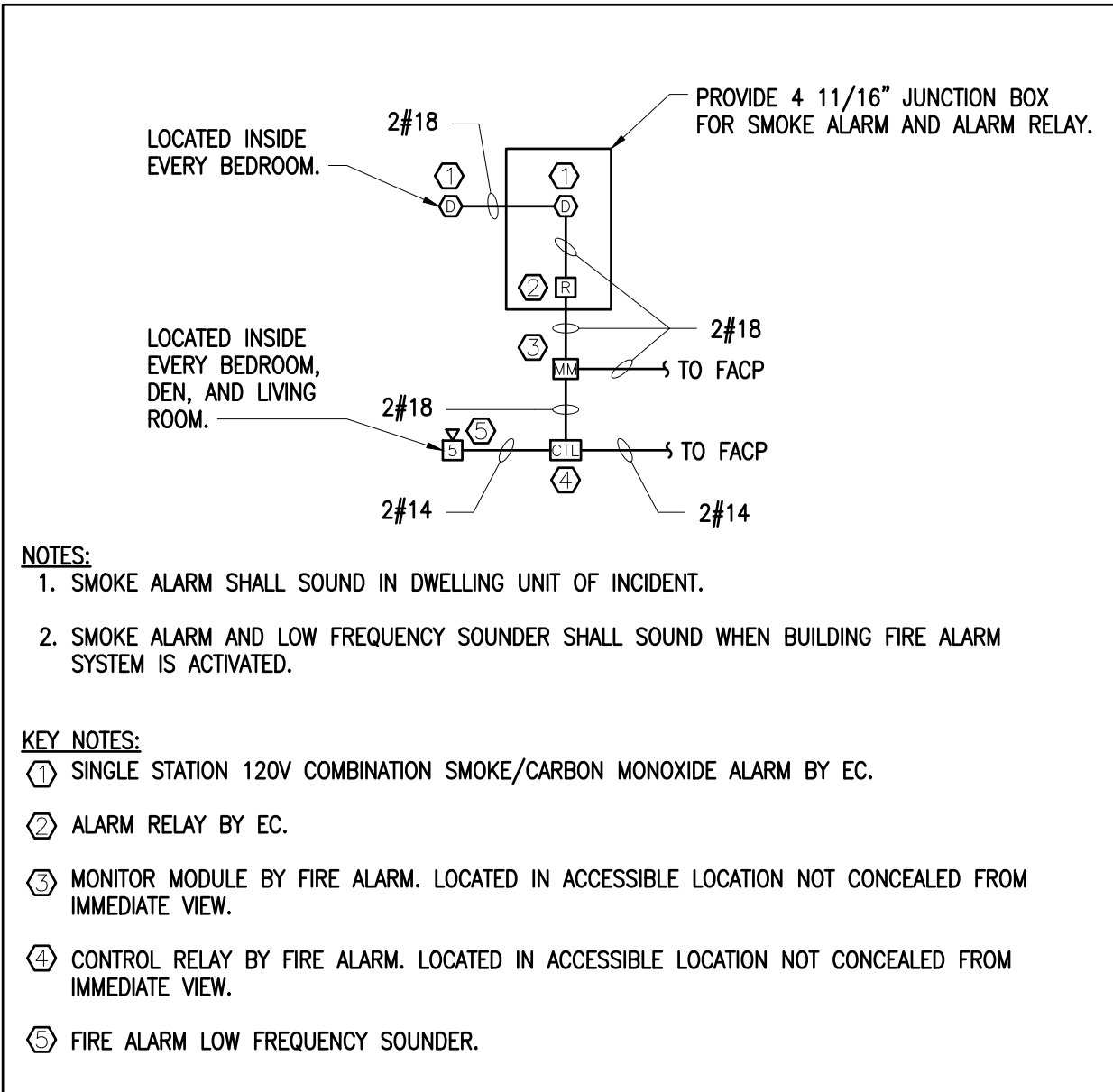
4 Unit B1 Alt-2-HC - Electrical
Scale: 1/4"= 1'-0" Plan



1 Unit B1 - Electrical
Scale: 1/4"= 1'-0" Plan



2 Unit B1 Alt-1 - Electrical
Scale: 1/4"= 1'-0" Plan



FAIR HOUSING NOTES:

ALL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE HUD FAIR HOUSING ACCESSIBILITY GUIDELINES (FHAG), AND AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) TITLE III.

1.1.1. LIGHT SWITCHES (WITH THE TOGGLE SWITCH IN THE "ON" POSITION) MUST NOT EXCEED A MAXIMUM OF 44" A.F.F. TO CENTER.

1.1.2. ALL OUTLETS (POWER OR DATA) AND SWITCHES OVER THE KITCHEN AND BATHROOM COUNTERTOPS MUST NOT EXCEED A MAXIMUM OF 44" A.F.F. TO THE CENTERLINE OF THE UPPER OUTLET.

1.1.3. IN L OR U SHAPED KITCHENS, AT LEAST ONE (1) OUTLET MUST BE CENTERED A MINIMUM OF 36" FROM EACH INSIDE CORNER.

1.1.4. IN L OR U SHAPED KITCHENS, IF OTHER DEVICES ARE PLACED ON AN INSIDE CORNER, THEN THEY SHALL BE MOUNTED A MINIMUM OF 36" FROM AN INSIDE CORNER.

1.1.5. SIDEWALL OUTLETS AT THE VANITY COUNTERTOPS SHALL BE A MINIMUM OF 12" FROM FRONT EDGE OF THE COUNTER.

1.1.6. WALL OUTLETS MUST BE INSTALLED A MINIMUM OF 15" A.F.F. TO THE CENTER LINE OF THE BOTTOM OUTLET.

1.1.7. TOP OF THE THERMOSTATS SHALL BE MOUNTED NO HIGHER THAN 46" A.F.F. IN ALL UNITS AND COMMON AREAS.

FLOOR PLAN GENERAL NOTES

1. TYPE N.M. WIRING FOR BRANCH CIRCUIT WIRING FOR TYPES III, IV, AND V CONSTRUCTION IF ACCEPTABLE TO LOCAL JURISDICTION HAVING AUTHORITY. PROVIDE M.C. CABLE OR WIRE/CONDUIT FOR ALL OTHER CONSTRUCTION TYPES.

2. SEAL ALL OUTLETS BOXES PER LOCAL ENERGY CODE

3. INDICATED HVAC UNIT. SEE E6.01 FOR MECHANICAL CONNECTION SCHEDULE

4. ELECTRICAL OUTLET BOXES IN THE PARTY WALL AND INTERIOR WALLS SHALL BE STAGGERED SO THE THEY ARE NOT BACK-TO-BACK. PROVIDE 2 HOUR BOXES IN RATED WALLS. PROVIDE ACOUSTICAL PUTTY PACKS ON ALL PARTY WALL BOXES. IF A SITUATION ARISES WHERE THE OUTLET BOXES MUST BE INSTALLED BACK-TO-BACK, USE A SOLID PANEL TO BLOCK NOISE TRANSMISSION BETWEEN THE BACK OF THE BOXES.

5. GFCI OUTLETS SHALL NOT BE INSTALLED IN MIRROR. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN

6. A. PROVIDE SYSTEM COMBINATION SMOKE/CO DETECTOR THAT IS PHOTOELECTRIC TYPE SENSOR, LOW FREQUENCY 520HZ, SOUNDER BASE WITH 85dBA AT 10' AND MINIMUM OF 75dBA AT PILLOW. ACTIVATION OF ROOM SYSTEM SMOKE/CO SENSOR TO IMMEDIATELY AND AUTOMATICALLY SOUND AN ALARM WITHIN THE ROOM OF INCIDENT, AND TO SEND NOTIFICATION SIGNAL TO FACP. NORMAL AND EMERGENCY POWER TO BE PROVIDED BY THE FACP. SOUNDER BASE TO ALSO ACTIVATE UPON INITIATION OF BUILDING FIRE ALARM SYSTEM. SMOKE ALARMS IN EACH UNIT ARE INTERCONNECTED. REFER TO NFPA 72 FOR SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR INFORMATION.

B. INSTALLATION (REGARDLESS OF LOCATIONS SHOWN ON DRAWINGS, SEE 1 THRU 4 BELOW):

1. INSTALLED INSIDE AND OUTSIDE OF EVERY SLEEPING AREA AND ON ALL LEVELS OF DWELLING UNITS. DETECTOR SHALL BE INSTALLED WITHIN 21 FT. OF ANY DOOR TO A SLEEPING ROOM.

2. SMOKE ALARMS SHALL NOT BE LOCATED WITHIN 36" HORIZONTAL PATH FROM A DOOR TO A BATHROOM CONTAINING A SHOWER OR TUB.

3. SMOKE ALARMS SHALL NOT BE LOCATED WITHIN 36" HORIZONTAL PATH FROM SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS. COORDINATE EXACT LOCATION OF SMOKE ALARMS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

4. SMOKE ALARMS SHALL NOT BE LOCATED WITHIN 36" HORIZONTAL PATH FROM THE TIP OF BLADE OF A CEILING-SUSPENDED PADDLE FAN

7. FINAL SELECTION, QUANTITY AND LOCATION OF LIGHTS IN APARTMENTS TO BE COORDINATED WITH ARCHITECT AND INTERIOR PRIOR TO BID

8. PROVIDE TYPE MC CABLE IN HVAC CLOSETS

9. PROVIDE TAMPER RESISTANT RECEPTACLES IN ALL ROOMS REQUIRED BY NEC 406.12

10. ALL 15 AND 20 AMP SINGLE PHASE BRANCH CIRCUITS SUPPLYING LIGHTS, RECEPTACLES, AND SMOKE DETECTORS WITHIN LIVING UNITS SHALL BE PROTECTED BY A LISTED "ARC FAULT CIRCUIT INTERRUPTER" BREAKER

11. RECEPTACLES INSTALLED IN WET LOCATIONS SHALL BE GFCI AND PROVIDED WITH IN USE WEATHERPROOF COVER

12. PROVIDE CONDUIT SLEEVE EXTENDING 18" ON EITHER SIDE OF FIRE WALLS FOR WIRING THAT PASSES THRU FIRE WALLS

13. VERIFY MOUNTING AND OPERATION HEIGHTS OF ALL ELECTRICAL DEVICES FOR ACCESSIBILITY WITH ARCHITECT PRIOR TO ROUGH-IN

14. ANY CEILING MOUNTED DEVICE WITHIN 4' OF ANOTHER CEILING MOUNTED DEVICE, PROVIDE A METAL BOX

15. MOUNT RECEPTACLES AT BATHROOM SINK WITHIN 8" OF COUNTER TOP EDGE.

16. PROVIDE SINGLE GANG BOX FOR BOTH DATA AND COAXIAL CONNECTIONS

17. FIRE ALARM DEVICE LOCATIONS, QUANTITIES, AND SPECIFICATIONS, INDICATED HEREIN, ARE THE BASIS OF DESIGN. FINAL FIRE ALARM SYSTEM DESIGN SHALL MEET ALL REQUIREMENTS OF APPLICABLE NATIONAL CODES, APPLICABLE STATE CODES, APPLICABLE LOCAL CODES AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

FLOOR PLAN KEY NOTES (THIS SHEET ONLY)

1. PROVIDE (NEMA 14-30R) RECEPTACLE W/3/6, #10G CIRCUIT FOR RANGE. PROVIDE RANGE CORD.

2. PROVIDE (NEMA 5-20R) RECEPTACLE W/2/12, #12G CIRCUIT FOR RANGE HOOD/MICROWAVE.

3. MOUNT UNDER CABINET, BREAK TABS, TOP RECEPTACLE SHALL BE CONTROLLED BY SWITCH FOR DISPOSAL, BOTTOM RECEPTACLE SHALL BE UNWITCHED FOR DISHWASHER. PROVIDE 4" SO CORD WITH 3 PRONG PLUG FOR DISHWASHER AND 3" SO CORD WITH 3 PRONG PLUG FOR GARBAGE DISPOSAL. IF DISPOSAL IS IN ISLAND, MOUNT SWITCH BELOW CABINET. OTHERWISE SWITCH TO BE MOUNTED ABOVE COUNTER TOP. PROVIDE 14/2+G FOR EACH RECEPTACLE.

4. PROVIDE A (NEMA 5-20R) RECEPTACLE W/2/12, #12G. FOR WASHER.

5. PROVIDE A (NEMA 14-30R) RECEPTACLE W/3/6, #10G CIRCUIT FOR CLOTHES DRYER. PROVIDE DRYER CORD.

6. FLUSH MOUNTED LOAD CENTER (W/FLUSH MOUNT COVER, 1/2" OVERLAP); CONTRACTOR SHALL VERIFY THAT THERE IS NO PIPING AND/OR DUCTWORK INSTALLED ABOVE LOADCENTER. MOUNT TOP CIRCUIT BREAKER HANDLE AT 48" AFF COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT/INTERIOR DESIGNER/OWNER PRIOR TO BID/ROUGH-IN.

7. PROVIDE FLUSH MOUNTED STRUCTURED MEDIA ENCLOSURE WITH LOCKING DOOR, 1x6 BRIDGED TELEPHONE BOARD AND 6 WAY 1GHZ PASSIVE VIDEO SPLITTER. PROVIDE (1) CAT 5E CABLE FROM PUNCH DOWN BLOCK TO EACH DATA/TELEPHONE OUTLET (NO DASHY CHANNING) AND (1) CAT 5E CABLE FROM PUNCH DOWN BLOCK TO TELEPHONE SERVICE DEMARICATION LOCATION. PROVIDE (1) RG6 COAXIAL CABLE FROM SPLITTER TO EACH TELEVISION OUTLET (NO DASHY CHANNING) AND PROVIDE (1) RG6 COAXIAL CABLE FROM SPLITTER TO CABLE SERVICE DEMARICATION LOCATION. TERMINATE ALL CABLES ON APPROPRIATE TERMINATION POINTS. CLEARLY LABEL EACH PORT IDENTIFYING ITS DESTINATION ADDRESS OF EACH CABLE. PROVIDE A MINIMUM OF 12" SLACK CABLE AT EACH OUTLET. PROVIDE (1) 20A DUPLEX RECEPTACLE MOUNTED WITHIN ENCLOSURE. MOUNT AT 72" TO TOP OF MEDIA ENCLOSURE. FIELD VERIFY. SEE TELE/CATV RISER DIAGRAM.

8. PROVIDE A FAN-RATED JUNCTION BOX RECESSED FLUSH WITH CEILING.

9. 1 SWITCH FOR FAN AND 1 FOR LIGHT.

10. MOUNT HORIZONTALLY 4" BELOW COUNTERTOP WHERE COUNTER OVERHANG DOES NOT EXTEND MORE THAN 6". COORDINATE WITH ARCHITECT. RECEPTACLE TO BE GFI PROTECTED.

11. PROVIDE HUBBLE USB15AC5** SERIES TYPE COMBO RECEPTACLE, CIRCUIT DOWNSTREAM OF GFI-PROTECTED OUTLET IF LOCATED IN KITCHEN, WITHIN 6"-0" OF A SINK, OR NOTED AS "GFI". IF MOUNTED IN ISLAND OR PENINSULAR COUNTERTOPS, MOUNT RECEPTACLE HORIZONTALLY 4" BELOW COUNTERTOP WHERE COUNTER OVERHANG DOES NOT EXTEND MORE THAN 6". COORDINATE WITH ARCHITECT.

12. REFER TO KITCHEN CORNER DETAIL AND/OR FAIR HOUSING NOTES THIS SHEET.

13. CONNECT TO GFI BRANCH CIRCUIT.

14. MOUNT RECEPTACLE WITHIN 12" OF FRONT EDGE OF COUNTER. COORDINATE WITH THE MILL WORK CONTRACTOR FOR OUTLET LOCATION WHEN NO SIDE WALL IS AVAILABLE.

15. PROVIDE DEDICATED CIRCUIT FOR CONNECTION TO FUTURE DEHUMIDIFIER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

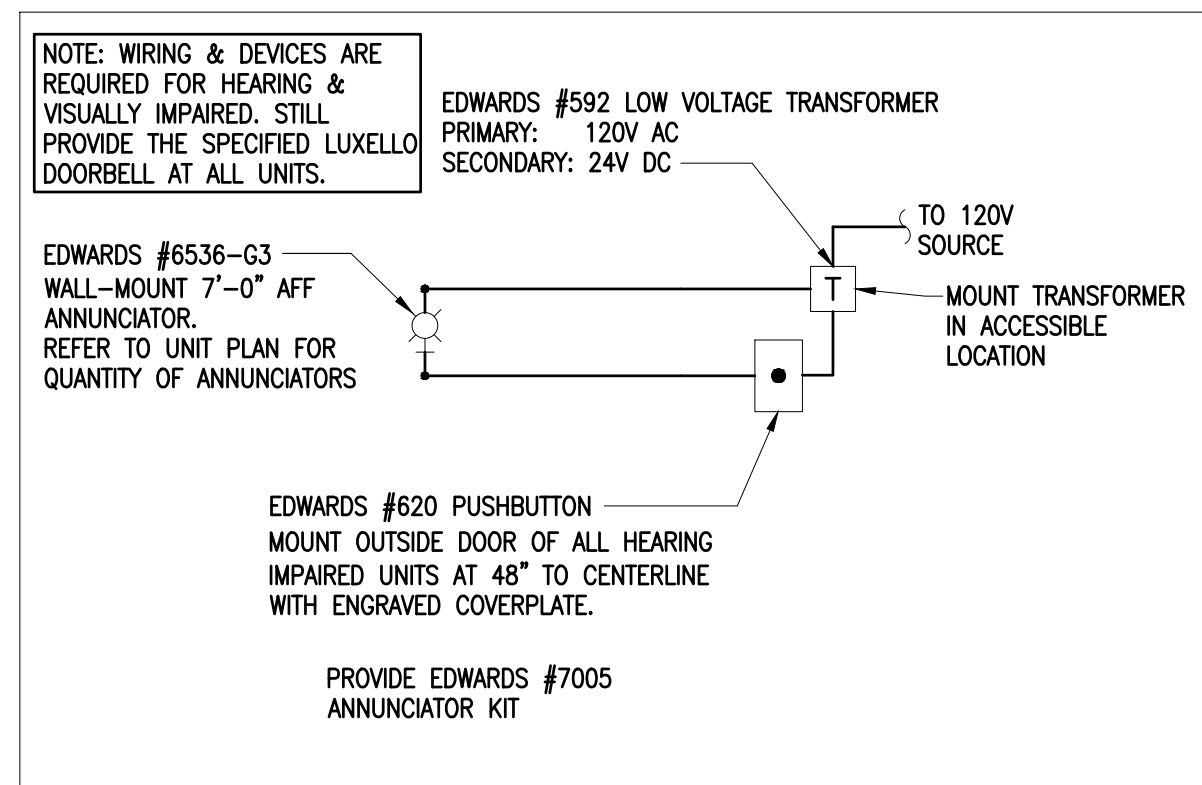
16. MOUNT SWITCHES 8" ABOVE COUNTERTOP. ONE SWITCH SHALL CONTROL HOOD, ONE SWITCH SHALL CONTROL RANGE HOOD LIGHT.

17. DOOR BELL AUDIO/ VISUAL DEVICE.

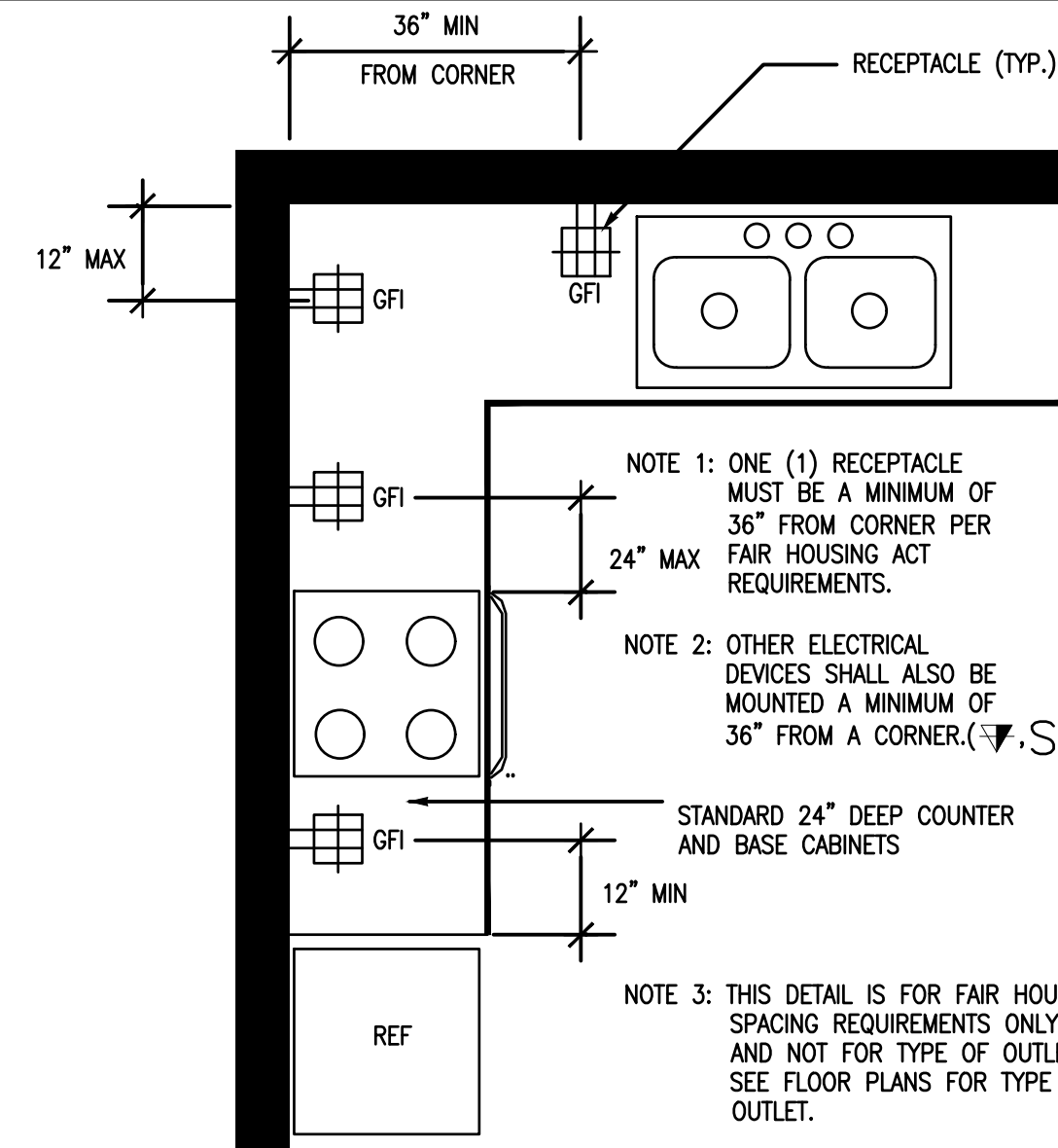
18. DOOR BELL PUSH BUTTON. MOUNT 48" AFF.

19. SEE DETAIL ON THIS SHEET FOR HEARING IMPAIRED UNIT.

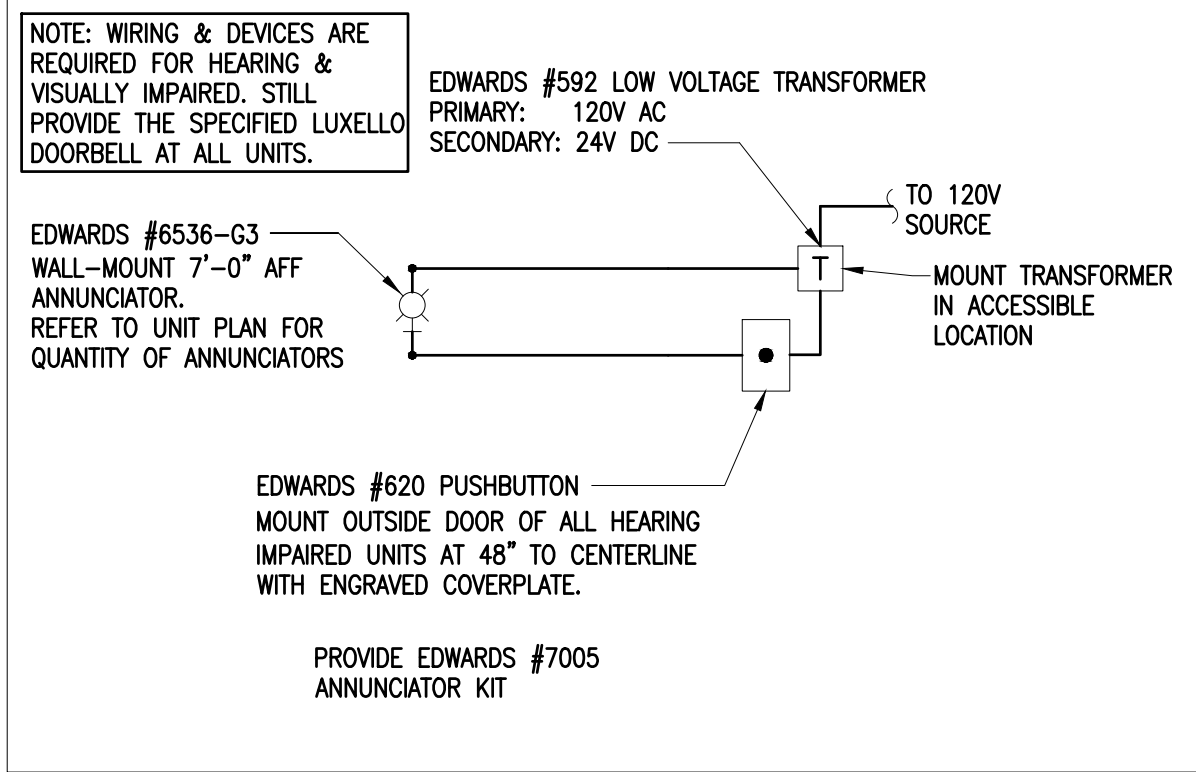
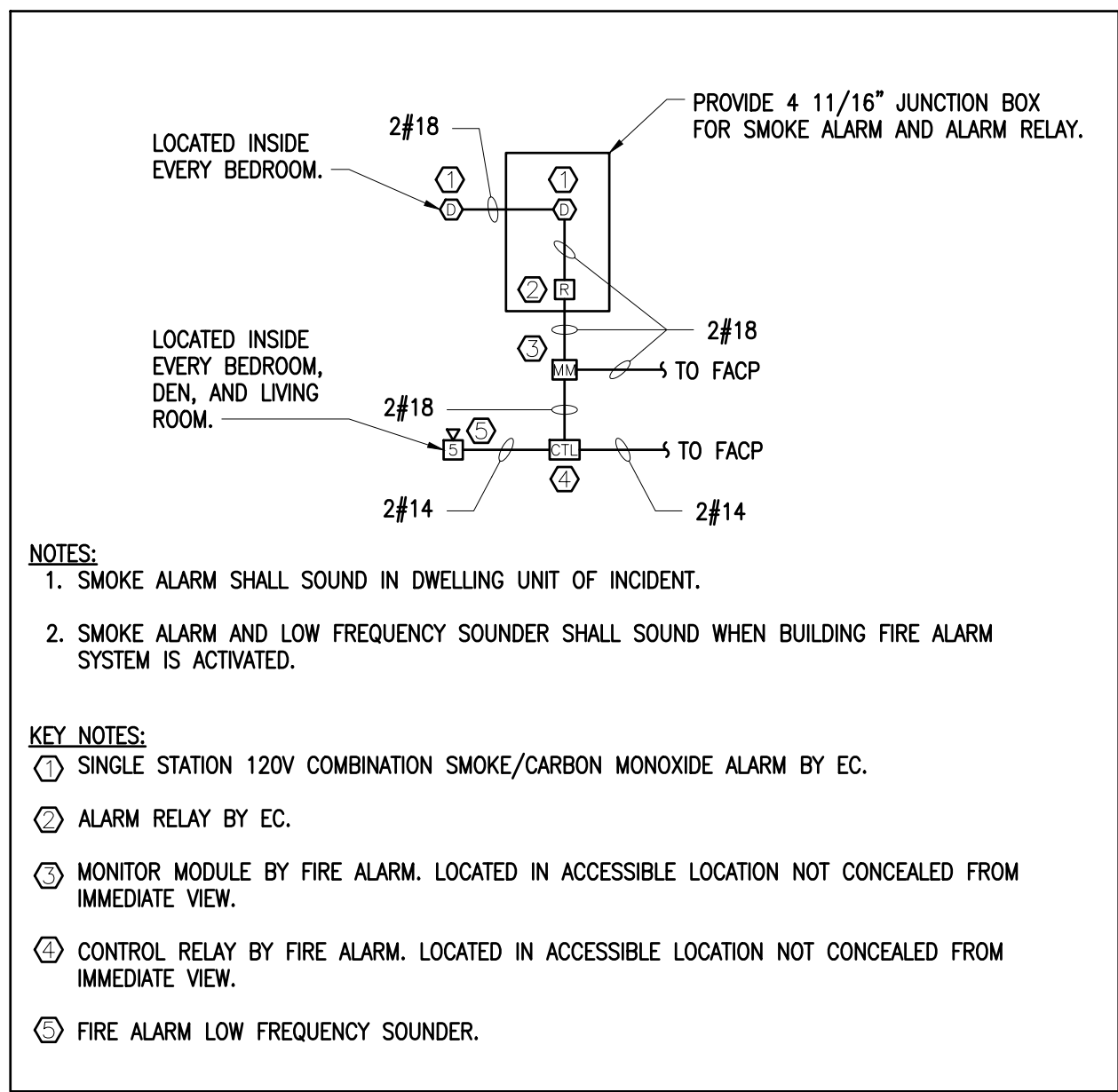
20. PROVIDE DEDICATED 20A 1P 120V CIRCUIT FOR CONNECTION TO FUTURE DEHUMIDIFIER. MOUNT 6" BELOW CEILING TO TOP OF DEVICE COVER PLATE.



5 HEARING IMPAIRED DOORBELL DETAIL
SCALE: NO SCALE



6 ELECTRICAL DEVICES - DWELLING UNIT KITCHEN
SCALE: NO SCALE



5 HEARING IMPAIRED DOORBELL DETAIL

SCALE: NO SCALE

FAIR HOUSING NOTES:

ALL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE HUD FAIR HOUSING ACCESSIBILITY GUIDELINES (FHAG), AND AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAG) TITLE III.

1.1.1. LIGHT SWITCHES (WITH THE TOGGLE SWITCH IN THE "ON" POSITION) MUST NOT EXCEED A MAXIMUM OF 44" A.F.F. TO CENTER.

1.1.2. ALL OUTLETS (POWER OR DATA) AND SWITCHES OVER THE KITCHEN AND BATHROOM COUNTERTOPS MUST NOT EXCEED A MAXIMUM OF 44" A.F.F. TO THE CENTERLINE OF THE UPPER OUTLET.

1.1.3. IN L OR U SHAPED KITCHENS, AT LEAST ONE (1) OUTLET MUST BE CENTERED A MINIMUM OF 36" FROM EACH INSIDE CORNER.

— FOR VERTICALLY-ORIENTED RECEPTACLES, THIS MINIMUM DIMENSION SHALL BE MEASURED TO THE CENTERLINE OF THE OUTLET NEAREST THE CORNER.

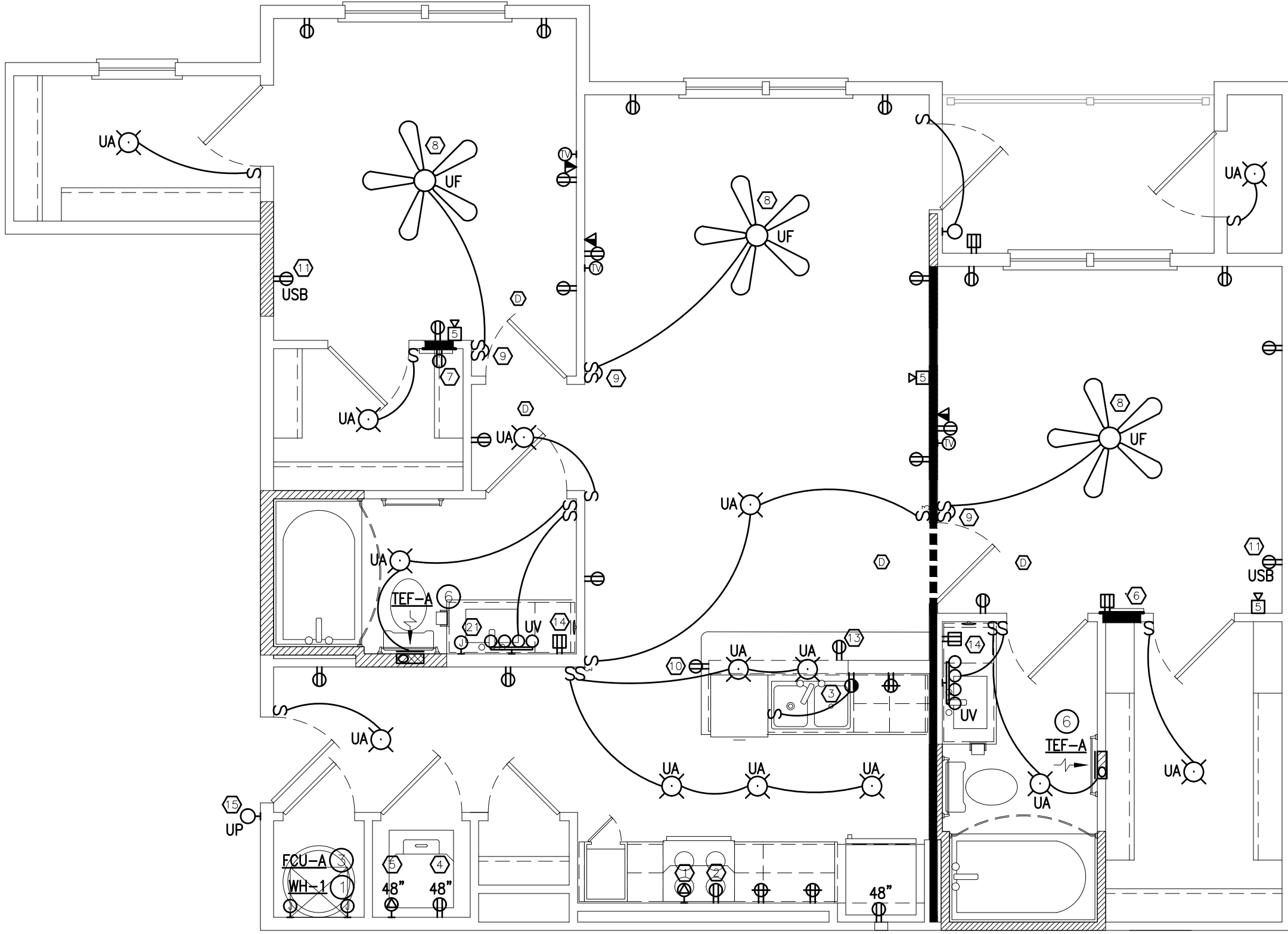
— FOR HORIZONTALLY-ORIENTED RECEPTACLES, THIS MINIMUM DIMENSION SHALL BE MEASURED TO THE CENTERLINE OF THE OUTLET NEAREST THE CORNER.

1.1.4. IN L OR U SHAPED KITCHENS, IF OTHER DEVICES ARE PLACED ON AN INSIDE CORNER, THEN THEY SHALL BE MOUNTED A MINIMUM OF 36" FROM AN INSIDE CORNER.

1.1.5. SIDEWALL OUTLETS AT THE VANITY COUNTERTOPS SHALL BE A MINIMUM OF 12" FROM FRONT EDGE OF THE COUNTER.

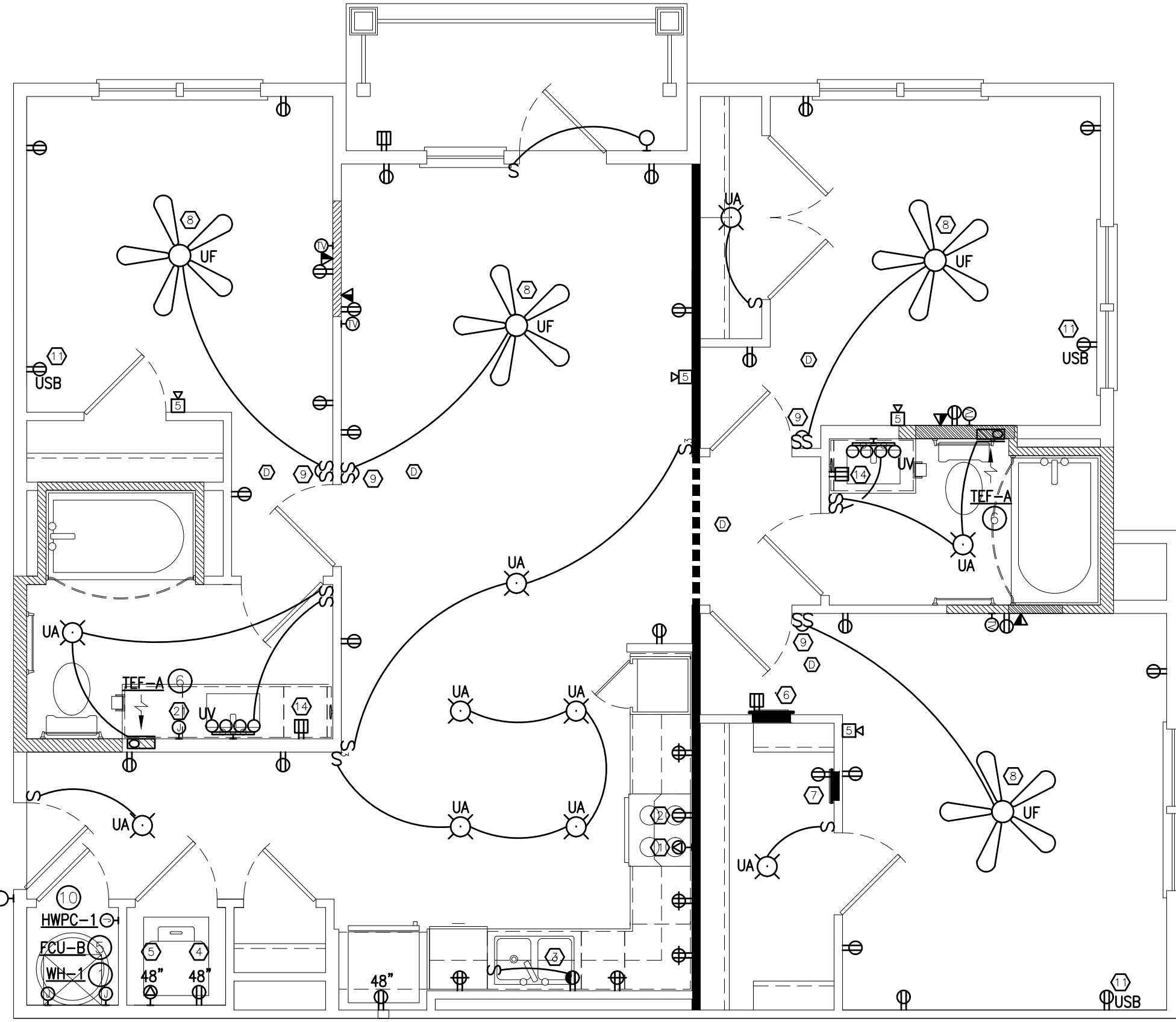
1.1.6. WALL OUTLETS MUST BE INSTALLED A MINIMUM OF 15" A.F.F. TO THE CENTER LINE OF THE BOTTOM OUTLET.

1.1.7. TOP OF THE THERMOSTATS SHALL BE MOUNTED NO HIGHER THAN 46" A.F.F. IN ALL UNITS AND COMMON AREAS.



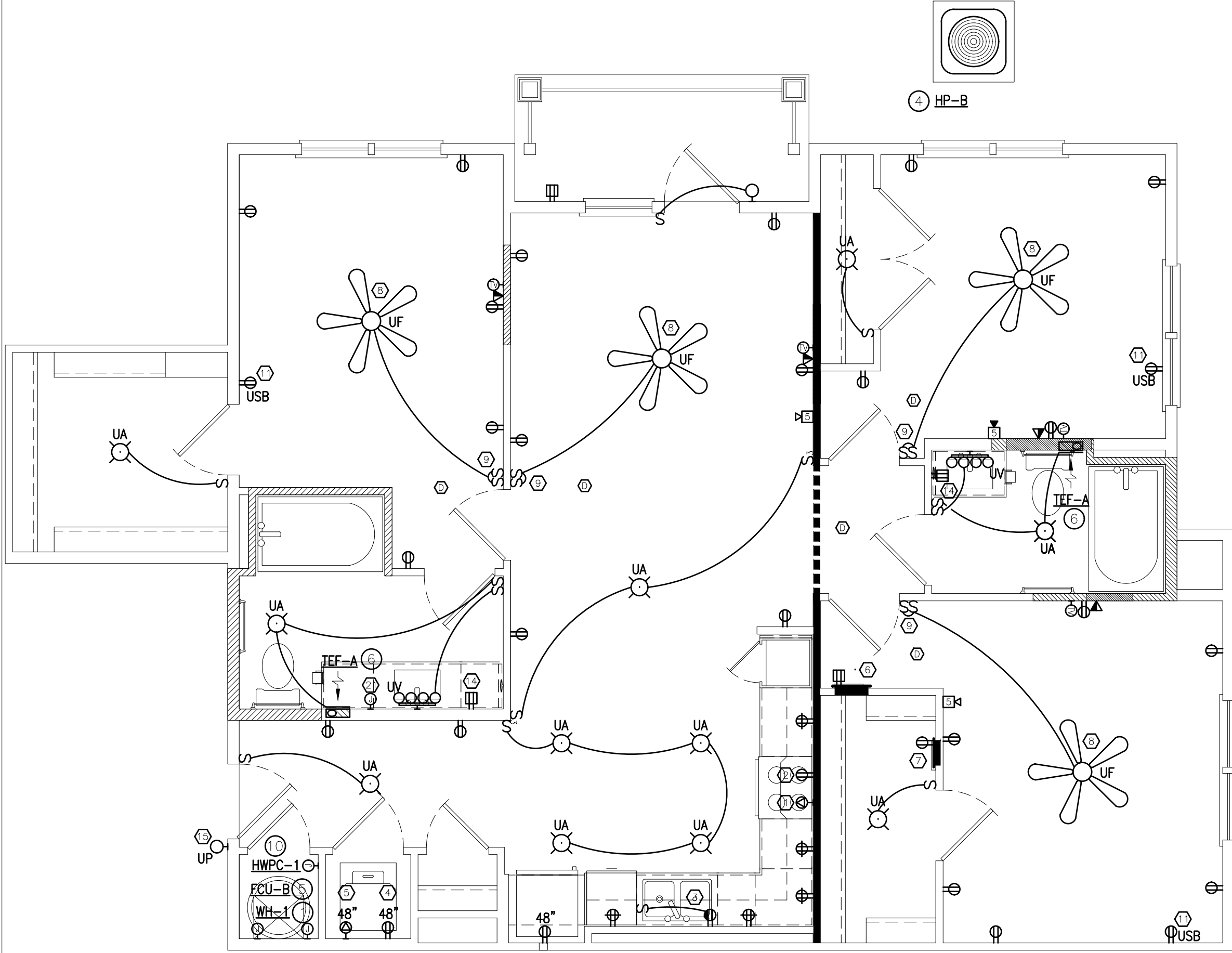
3 Unit B2 - Electrical

Scale: 1/4"= 1'-0" Plan



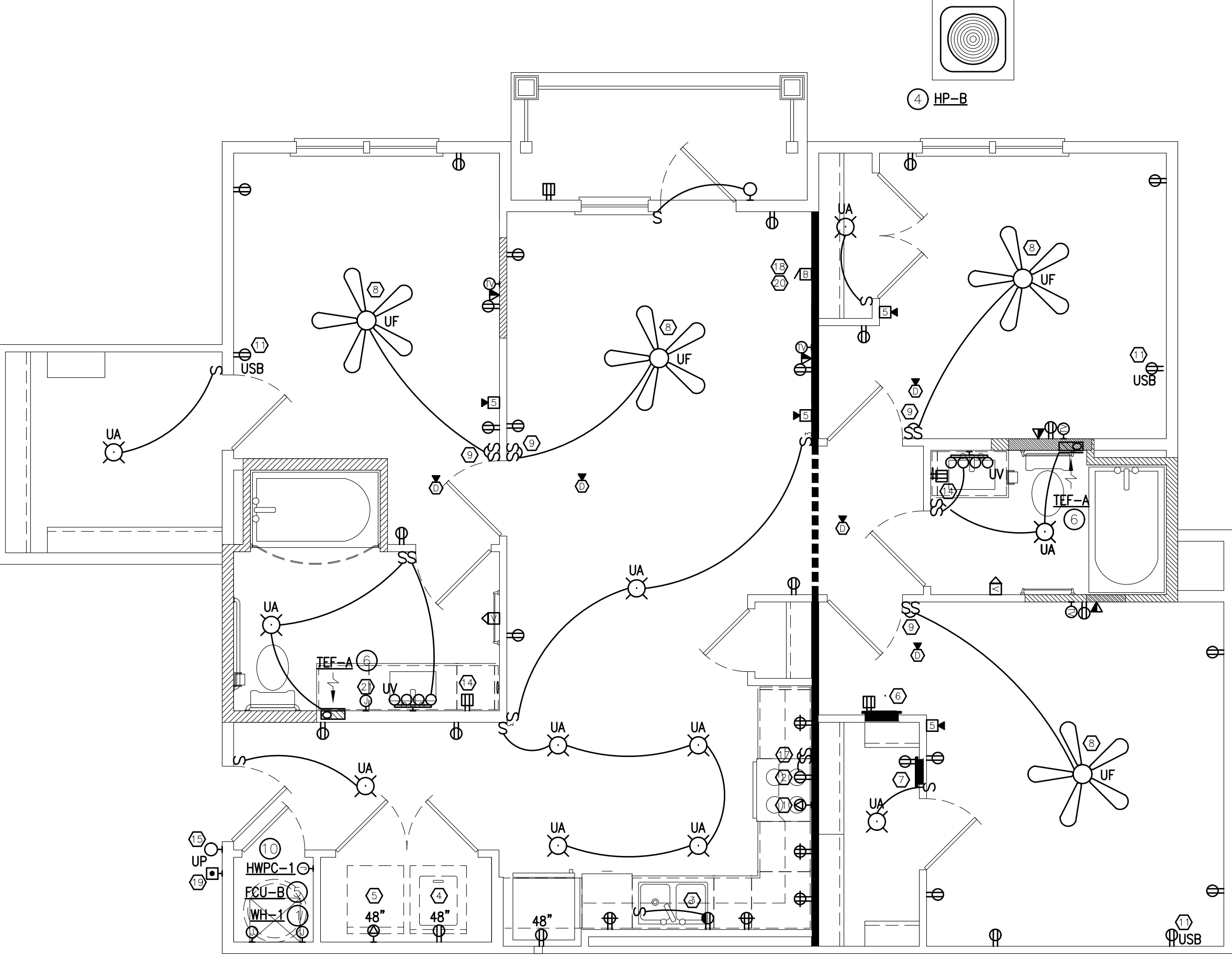
4 Unit C1 - Electrical

Scale: 1/4"= 1'-0" Plan



1 Unit C2 - Electrical

Scale: 1/4"= 1'-0" Plan



2 Unit C2 - HC - Electrical

Scale: 1/4"= 1'-0" Plan

FLOOR PLAN GENERAL NOTES

1. TYPE N.M. WIRING FOR BRANCH CIRCUIT WIRING FOR TYPES III, IV, AND V CONSTRUCTION IF ACCEPTABLE TO LOCAL JURISDICTION HAVING AUTHORITY. PROVIDE M.C. CABLE OR WIRE/CONDUIT FOR ALL OTHER CONSTRUCTION TYPES.

2. SEAL ALL OUTLETS BOXES PER LOCAL ENERGY CODE

3. ⑧ INDICATED HVAC UNIT. SEE E6.01 FOR MECHANICAL CONNECTION SCHEDULE

4. ELECTRICAL OUTLET BOXES IN THE PARTY WALL AND INTERIOR WALLS SHALL BE STAGGERED SO THE THEY ARE NOT BACK-TO-BACK. PROVIDE 2 HOUR BOXES IN RATED WALLS. PROVIDE ACOUSTICAL PUTTY PACKS ON ALL PARTY WALL BOXES. IF A SITUATION ARISES WHERE THE OUTLET BOXES MUST BE INSTALLED BACK-TO-BACK, USE A SOLID PANEL TO BLOCK NOISE TRANSMISSION BETWEEN THE BACK OF THE BOXES.

5. GFCI OUTLETS SHALL NOT BE INSTALLED IN MIRROR. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN

6. A. PROVIDE SYSTEM COMBINATION SMOKE/CO DETECTOR THAT IS PHOTOELECTRIC TYPE SENSOR, LOW FREQUENCY 520HZ, SOUNDER BASE WITH 85dBA AT 10' AND MINIMUM OF 75dBA AT PILLOW. ACTIVATION OF ROOM SYSTEM SMOKE/CO SENSOR TO IMMEDIATELY AND AUTOMATICALLY SOUND AN ALARM WITHIN THE ROOM OF INCIDENT, AND TO SEND NOTIFICATION SIGNAL TO FACP. NORMAL AND EMERGENCY POWER TO BE PROVIDED BY THE FACP. SOUNDER BASE TO ALSO ACTIVATE UPON INITATION OF BUILDING FIRE ALARM SYSTEM. SMOKE ALARMS IN EACH UNIT ARE INTERCONNECTED. REFER TO NFPA 72 FOR SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR INFORMATION.

B. INSTALLATION (REGARDLESS OF LOCATIONS SHOWN ON DRAWINGS, SEE 1 THRU 4 BELOW):

1. INSTALLED INSIDE AND OUTSIDE OF EVERY SLEEPING AREA AND ON ALL LEVELS OF DWELLING UNITS. DETECTOR SHALL BE INSTALLED WITHIN 21 FT. OF ANY DOOR TO A SLEEPING ROOM.

2. SMOKE ALARMS SHALL NOT BE LOCATED WITHIN 36" HORIZONTAL PATH FROM A DOOR TO A BATHROOM CONTAINING A SHOWER OR TUB.

3. SMOKE ALARMS SHALL NOT BE LOCATED WITHIN 36" HORIZONTAL PATH FROM SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS. COORDINATE EXACT LOCATION OF SMOKE ALARMS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

4. SMOKE ALARMS SHALL NOT BE LOCATED WITHIN 36" HORIZONTAL PATH FROM THE TIP OF BLADE OF A CEILING-SUSPENDED PADDLE FAN

7. FINAL SELECTION, QUANTITY AND LOCATION OF LIGHTS IN APARTMENTS TO BE COORDINATED WITH ARCHITECT AND INTERIOR PRIOR TO BID

8. PROVIDE TYPE MC CABLE IN HVAC CLOSETS

9. PROVIDE TAMPER RESISTANT RECEPTACLES IN ALL ROOMS REQUIRED BY NEC 406.12

10. ALL 15 AND 20 AMP SINGLE PHASE BRANCH CIRCUITS SUPPLYING LIGHTS, RECEPTACLES, AND SMOKE DETECTORS WITHIN LIVING UNITS SHALL BE PROTECTED BY A LISTED "ARC FAULT CIRCUIT INTERRUPTER" BREAKER

11. RECEPTACLES INSTALLED IN WET LOCATIONS SHALL BE GFCI AND PROVIDED WITH IN USE WEATHERPROOF COVER

12. PROVIDE CONDUIT SLEEVE EXTENDING 18" ON EITHER SIDE OF FIRE WALLS FOR WIRING THAT PASSES THRU FIRE WALLS

13. VERIFY MOUNTING AND OPERATION HEIGHTS OF ALL ELECTRICAL DEVICES FOR ACCESSIBILITY WITH ARCHITECT PRIOR TO ROUGH-IN

14. ANY CEILING MOUNTED DEVICE WITHIN 4' OF ANOTHER CEILING MOUNTED DEVICE, PROVIDE A METAL BOX

15. MOUNT RECEPTACLES AT BATHROOM SINK WITHIN 8" OF COUNTER TOP EDGE.

16. PROVIDE SINGLE GANG BOX FOR BOTH DATA AND COAXIAL CONNECTIONS

17. FIRE ALARM DEVICE LOCATIONS, QUANTITIES, AND SPECIFICATIONS, INDICATED HEREIN, ARE THE BASIS OF DESIGN. FINAL FIRE ALARM SYSTEM DESIGN SHALL MEET ALL REQUIREMENTS OF APPLICABLE NATIONAL CODES, APPLICABLE STATE CODES, APPLICABLE LOCAL CODES AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

FLOOR PLAN KEY NOTES (THIS SHEET ONLY)

① PROVIDE (NEMA 14-50R) RECEPTACLE W/3#6, #10G CIRCUIT FOR RANGE. PROVIDE RANGE CORD.

② PROVIDE (NEMA 5-20R) RECEPTACLE W/2#12, #12G CIRCUIT FOR RANGE HOOD/MICROWAVE.

③ MOUNT UNDER CABINET, BREAK TABS, TOP RECEPTACLE SHALL BE CONTROLLED BY SWITCH FOR DISPOSAL. BOTTOM RECEPTACLE SHALL BE UNSWITCHED FOR DISHWASHER. PROVIDE 4" SO CORD WITH 3 PRONG PLUG FOR DISHWASHER AND 3" SO CORD WITH 3 PRONG PLUG FOR GARBAGE DISPOSAL. IF DISPOSAL IS IN ISLAND, MOUNT SWITCH BELOW CABINET. OTHERWISE SWITCH TO BE MOUNTED ABOVE COUNTER TOP. PROVIDE 14/2+G FOR EACH RECEPTACLE.

④ PROVIDE A (NEMA 5-20R) RECEPTACLE W/2#12, #12G. FOR WASHER.

⑤ PROVIDE A (NEMA 14-30R) RECEPTACLE W/3#10, #10G CIRCUIT FOR CLOTHES DRYER. PROVIDE DRYER CORD.

⑥ FLUSH MOUNTED LOAD CENTER (W/FLUSH MOUNT COVER, 1/2" OVERLAP); CONTRACTOR SHALL VERIFY THAT THERE IS NO PIPING AND/OR DUCTWORK INSTALLED ABOVE LOADCENTER. MOUNT TOP CIRCUIT BREAKER HANDLE AT 48" AFF COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT/INTERIOR DESIGNER/OWNER PRIOR TO BID/ROUGH-IN.

⑦ PROVIDE FLUSH MOUNTED STRUCTURED MEDIA ENCLOSURE WITH LOCKING DOOR, 1x6 BRIDGED TELEPHONE BOARD AND 6 WAY 1GHZ PASSIVE VIDEO SPLITTER. PROVIDE (1) CAT 5E CABLE FROM PUNCH DOWN BLOCK TO EACH DATA/TELEPHONE OUTLET (NO DASHY CHANNING) AND (1) CAT 5E CABLE FROM PUNCH DOWN BLOCK TO TELEPHONE SERVICE DEMARCATION LOCATION. PROVIDE (1) RG6 COAXIAL CABLE FROM SPLITTER TO EACH TELEVISION OUTLET (NO DASHY CHANNING) AND PROVIDE (1) RG6 COAXIAL CABLE FROM SPLITTER TO CABLE SERVICE DEMARCATION LOCATION. TERMINATE ALL CABLES ON APPROPRIATE TERMINATION POINTS. CLEARLY LABEL EACH PORT IDENTIFYING THE DESTINATION ADDRESS OF EACH CABLE. PROVIDE A MINIMUM OF 12" SLACK CABLE AT EACH OUTLET. PROVIDE (1) 20A DUPLEX RECEPTACLE MOUNTED WITHIN ENCLOSURE. MOUNT AT 72" TO TOP OF MEDIA ENCLOSURE. FIELD VERIFY. SEE TELE/CATV RISER DIAGRAM.

⑧ PROVIDE A FAN-RATED JUNCTION BOX RECESSED FLUSH WITHIN CEILING.

⑨ 1 SWITCH FOR FAN AND 1 FOR LIGHT.

⑩ MOUNT HORIZONTALLY 4" BELOW COUNTERTOP WHERE COUNTER OVERHANG DOES NOT EXTEND MORE THAN 6". COORDINATE WITH ARCHITECT. RECEPTACLE TO BE GFI PROTECTED.

⑪ PROVIDE HUBBLE USB1540S** SERIES TYPE COMBO RECEPTACLE. CIRCUIT DOWNSTREAM OF GFI-PROTECTED OUTLET IF LOCATED IN KITCHEN. WITHIN 6"-0" OF A SINK, OR NOTED AS "GFI". IF MOUNTED IN ISLAND OR PENINSULAR COUNTERTOPS, MOUNT RECEPTACLE HORIZONTALLY 4" BELOW COUNTERTOP WHERE COUNTER OVERHANG DOES NOT EXTEND MORE THAN 6". COORDINATE WITH ARCHITECT.

⑫ REFER TO KITCHEN CORNER DETAIL AND/OR FAIR HOUSING NOTES THIS SHEET.

⑬ CONNECT TO GFI BRANCH CIRCUIT.

⑭ MOUNT RECEPTACLE WITHIN 12" OF FRONT EDGE OF COUNTER. COORDINATE WITH THE MILL WORK CONTRACTOR FOR OUTLET LOCATION WHEN NO SIDE WALL IS AVAILABLE.

⑮ CONNECT UNIT CORRIDOR WALL SCONCE TO CORRIDOR BRANCH CIRCUIT.

⑯ PROVIDE DEDICATED CIRCUIT FOR CONNECTION TO FUTURE DEHUMIDIFIER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

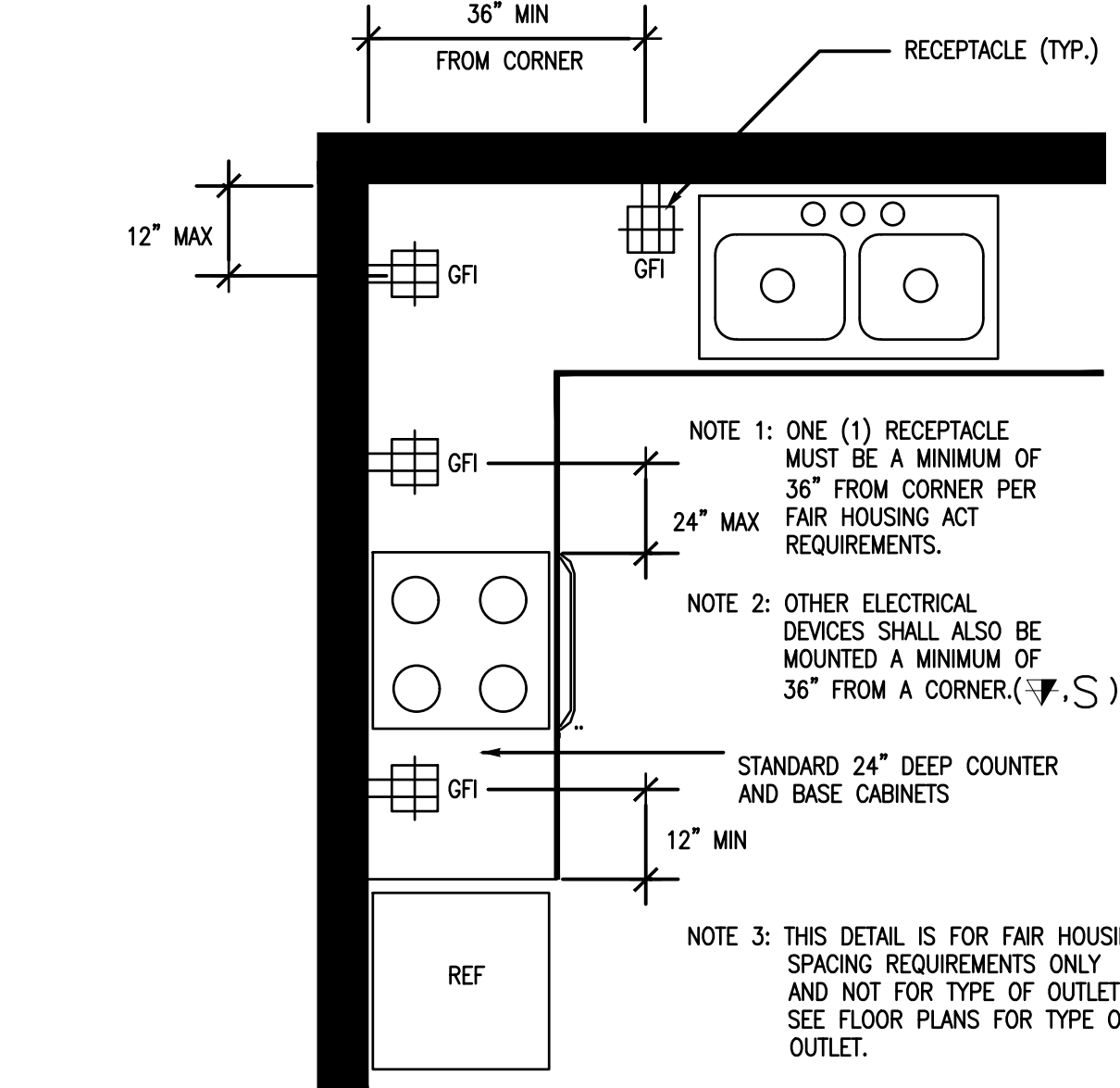
⑰ MOUNT SWITCHES 8" ABOVE COUNTERTOP. ONE SWITCH SHALL CONTROL HOOD, ONE SWITCH SHALL CONTROL RANGE HOOD LIGHT.

⑱ DOOR BELL AUDIO/ VISUAL DEVICE.

⑲ DOOR BELL PUSH BUTTON. MOUNT 48" AFF.

⑳ SEE DETAIL ON THIS SHEET FOR HEARING IMPAIRED UNIT.

㉑ PROVIDE DEDICATED 20A 1P 120V CIRCUIT FOR CONNECTION TO FUTURE DEHUMIDIFIER. MOUNT 6" BELOW CEILING TO TOP OF DEVICE COVER PLATE.



6 ELECTRICAL DEVICES - DWELLING UNIT KITCHEN

SCALE: NO SCALE

PHILLIPS GRADICK ENGINEERING, P.C. PGE # NC225038
1415 W. Morehead St. (204) 903-5810 (TX)
Charlotte, NC 28208

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Seal



2-19-26

2PRA

POOLE & MOORE ARCHITECTURE

4240 Park Place Court
Glen Allen, Virginia 23060
Telephone 804.225.0215
www.2pa.net

Project: 2501
CADD File:
Drawn By: AG
Checked By: LP

Permit Release:
Construction Release Set:

Revisions
No. Date Description

ASI / RFI Revisions
No. Date Description

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Daleville Town Center Apartments III

an Apartment Community by

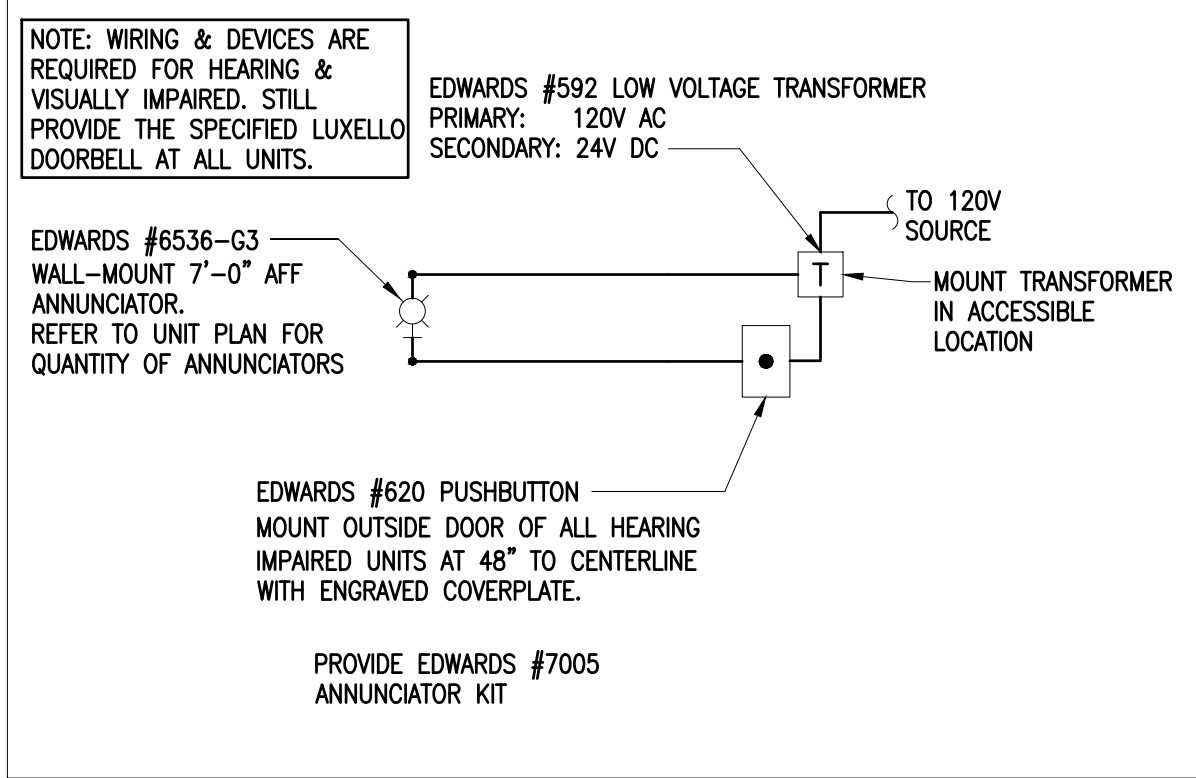
Daleville Town Center Apartments III, LLC

in Daleville, Virginia

Drawing Title:
Unit Plans

E1.02

NOT RELEASED FOR CONSTRUCTION



5 HEARING IMPAIRED DOORBELL DETAIL

SCALE: NO SCALE

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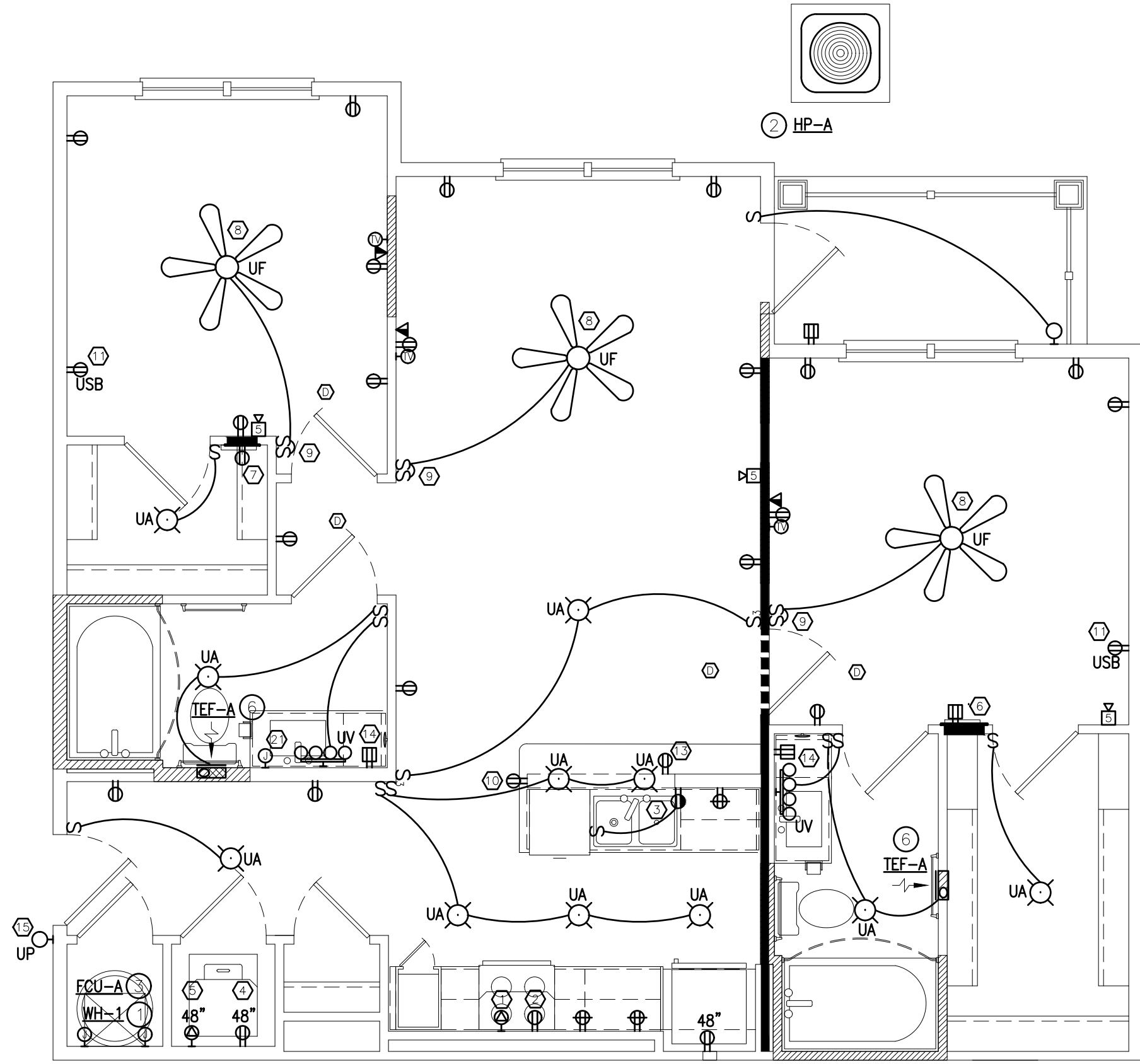
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FLOOR PLAN GENERAL NOTES

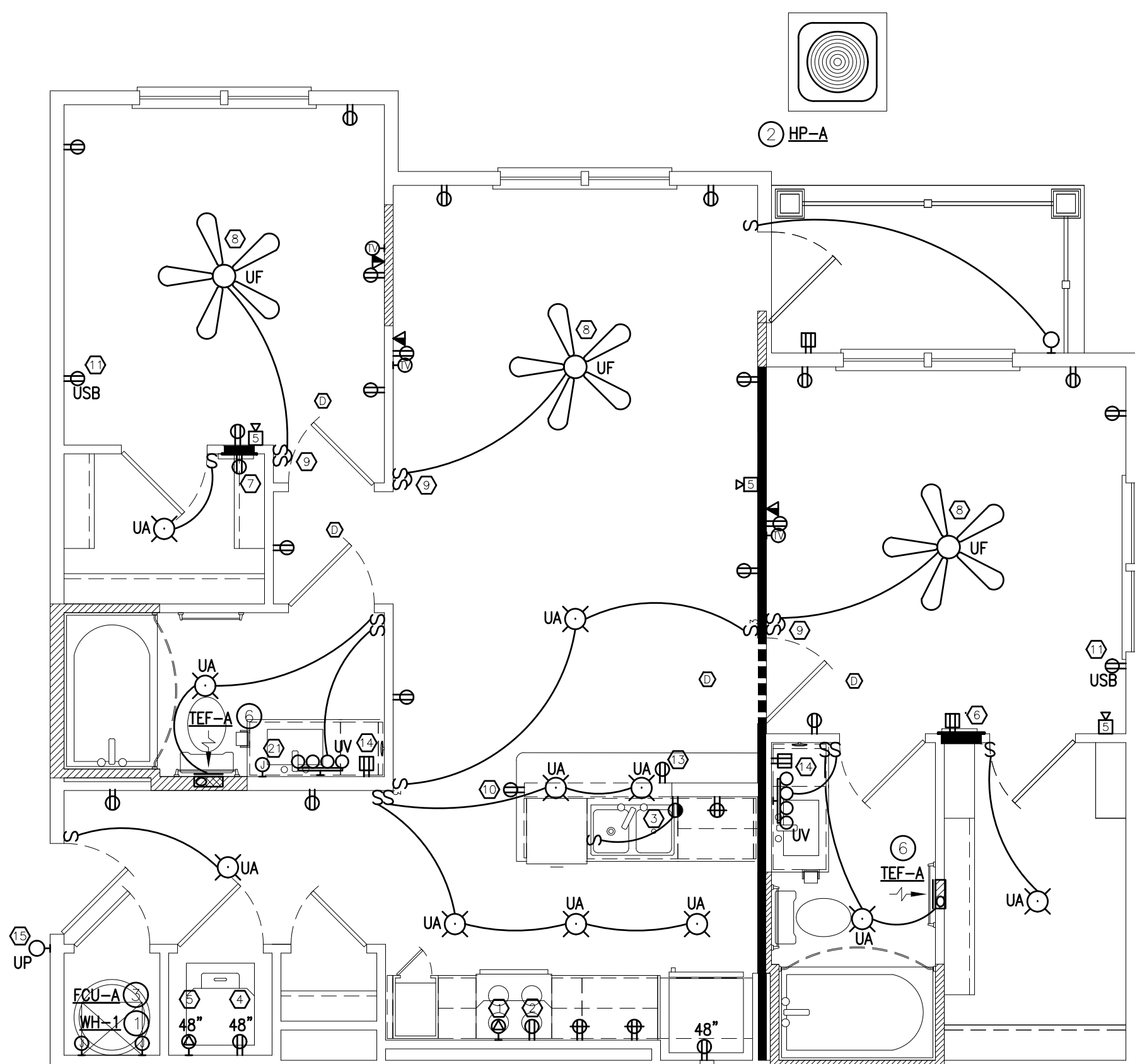
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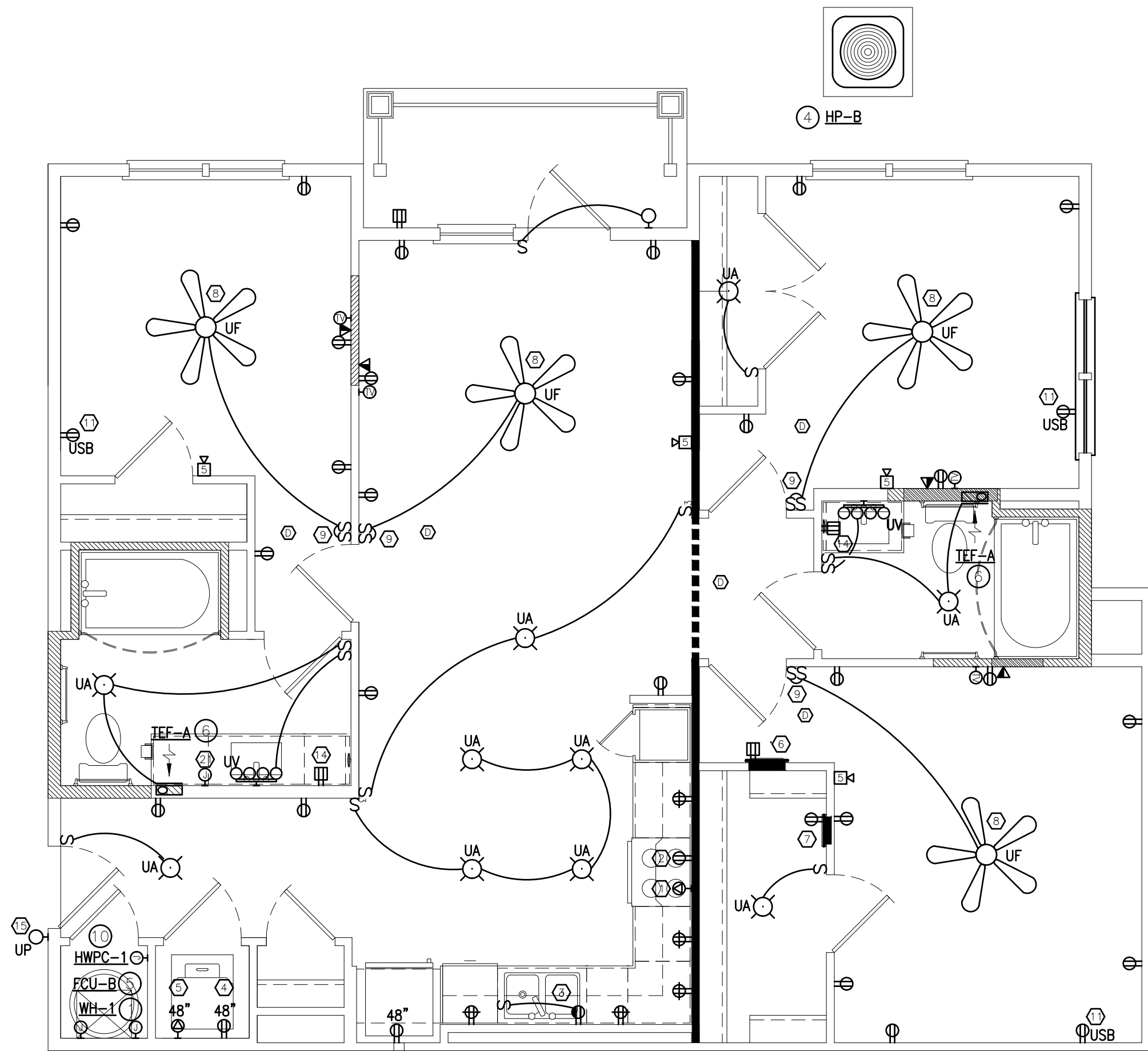
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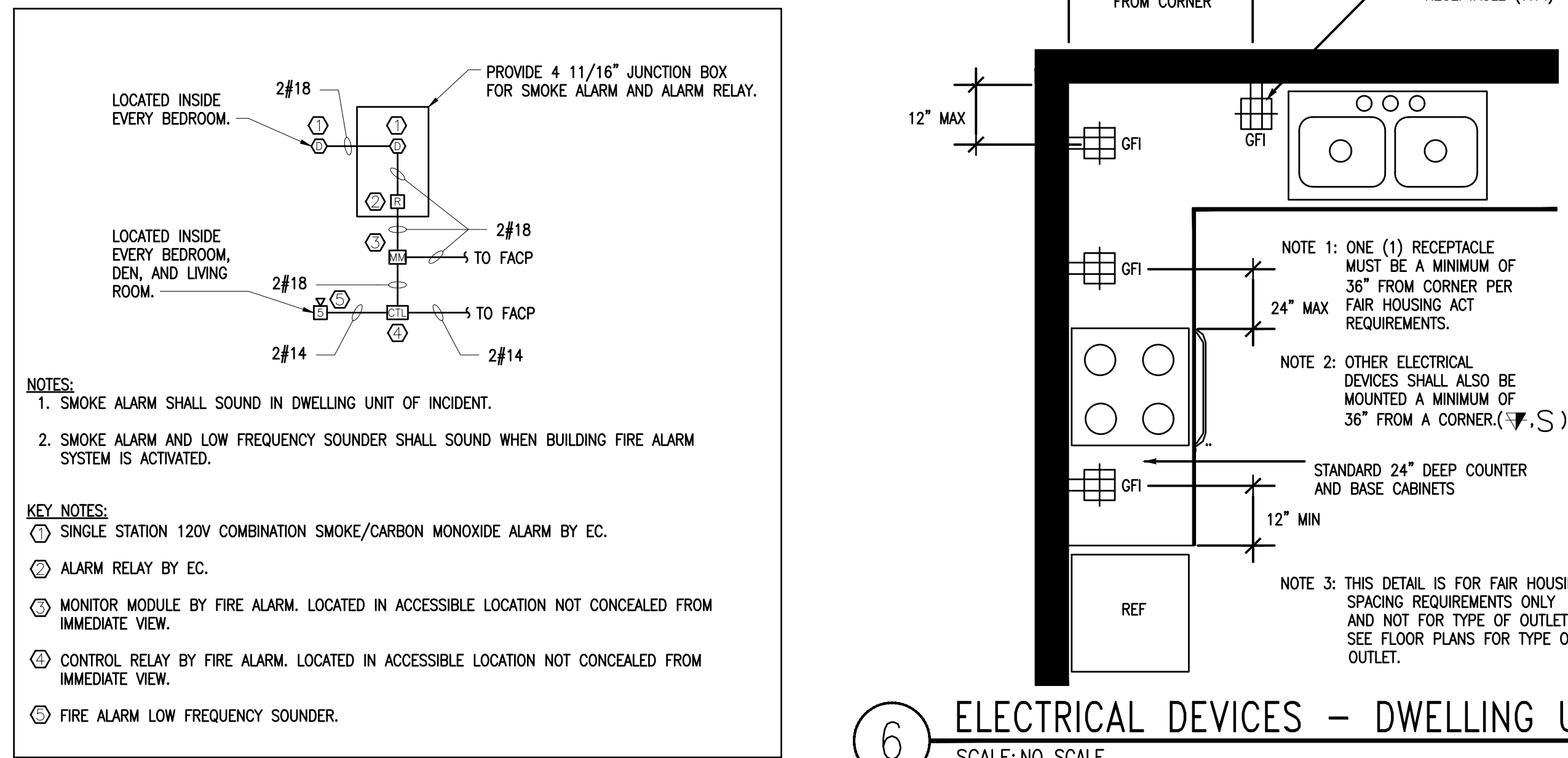
1 Unit B1 Alt-3 - Electrical
Scale: 1/4"= 1'-0" Plan



2 Unit B1 Alt-4 - Electrical
Scale: 1/4"= 1'-0" Plan



3 Unit C1 Alt-1 - Electrical
Scale: 1/4"= 1'-0" Plan



6 ELECTRICAL DEVICES - DWELLING UNIT KITCHEN
SCALE: NO SCALE



Permit Release:

Construction Release Set:

No.	Date	Description
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SI / RFI Revisions	
No. Date	Description

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Daleville Town Center Apartments III
an Apartment Community by
Daleville Town Center Apartments III, LLC
in Daleville, Virginia


Drawing Title:
Building 1 - Roof

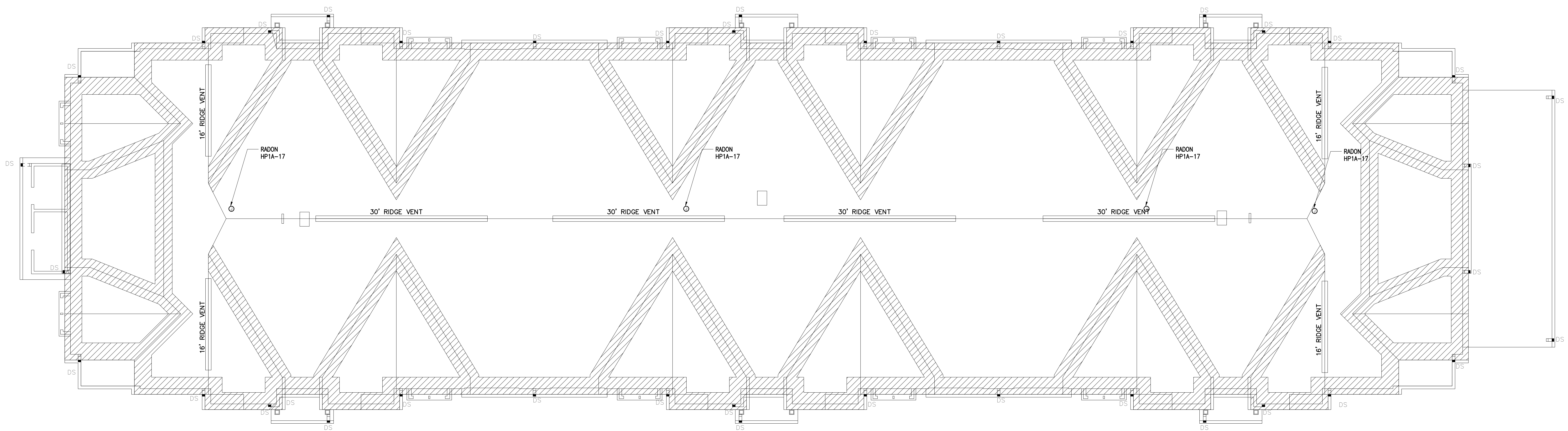
E2.14

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GENERAL NOTES

(THIS SHEET ONLY)

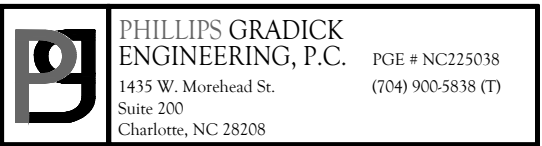
1.  INDICATES HVAC EQUIPMENT. SEE E6.01 FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
2. DO NOT INSTALL DEVICES BACK TO BACK IN ANY FIRE RATED WALL. PROVIDE MINIMUM 24" HORIZONTAL SPACE BETWEEN SUCH OUTLETS
3. SEAL ALL PENETRATIONS IN EVERY FIRE RATED WALL AND FLOOR PER UL TO MAINTAIN THE WALL AND FLOOR ORIGINAL RATING
4. FINAL LIGHTING LOCATIONS AND SELECTIONS TO BE DETERMINED BY ARCHITECT/INTERIOR DESIGNER
5. PROVIDE #10 CONDUCTORS FOR ANY 120V CIRCUIT OVER 100'. PROVIDE #8 CONDUCTOR FOR ANY CIRCUIT OVER 150'
6. PROVIDE CONNECTION TO FIRE ALARM CONTROL PANEL FROM ALL FIRE ALARM DEVICES
7. TYPE N.M. WIRING FOR ALL CIRCUIT WIRING FOR TYPE II, III, IV AND V CONSTRUCTION IF ACCEPTABLE TO LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE M.C. CABLE OR WIRE/EMT CONDUIT FOR BRANCH CIRCUITS IN ALL OTHER CONSTRUCTION TYPES AND IN RETURN AIR PLenum ROOMS OR SPACES.
8. ALL EXTERIOR EQUIPMENT AND DEVICES THAT ARE EXTERIOR SHALL BE "GFI" PROTECTED AND NEMA 3R RATED.



1 Building Plan - Building 1 - Roof
Scale: 1/8" = 1'-0"

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

Plan



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- GENERAL NOTES
(THIS SHEET ONLY)
1. INDICATES HVAC EQUIPMENT. SEE E6.01 FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE.

2. DO NOT INSTALL DEVICES BACK TO BACK IN ANY FIRE RATED WALL. PROVIDE MINIMUM 24" HORIZONTAL SPACE BETWEEN SUCH OUTLETS

3. SEAL ALL PENETRATIONS IN EVERY FIRE RATED WALL AND FLOOR PER UL TO MAINTAIN THE WALL AND FLOOR ORIGINAL RATING

4. FINAL LIGHTING LOCATIONS AND SELECTIONS TO BE DETERMINED BY ARCHITECT/INTERIOR DESIGNER

5. PROVIDE #10 CONDUCTORS FOR ANY 120V CIRCUIT OVER 100'. PROVIDE #8 CONDUCTOR FOR ANY CIRCUIT OVER 150'

6. PROVIDE CONNECTION TO FIRE ALARM CONTROL PANEL FROM ALL FIRE ALARM DEVICES

7. TYPE N.M. WIRING FOR BRANCH CIRCUIT WIRING FOR TYPE III, IV AND V CONSTRUCTION IF ACCEPTABLE TO LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE M.C. CABLE OR WIRE/EMT CONDUIT FOR BRANCH CIRCUITS IN ALL OTHER CONSTRUCTION TYPES AND IN RETURN AIR PLENUM ROOMS OR SPACES.

8. COORDINATE LOCATION AND QUANTITY OF FIRE/SMOKE AND/OR SMOKE DAMPERS WITH MECHANICAL CONTRACTOR PRIOR TO BID. COORDINATION OF LOCATIONS AND QUANTITIES WILL OVERRIDE LOCATIONS AND QUANTITIES INDICATED ON ELECTRICAL DRAWINGS. PROVIDE A 120V UNSWITCHED CIRCUIT TO EACH FIRE/SMOKE DAMPER AND/OR SMOKE DAMPER. PROVIDE A DUCT MOUNTED SMOKE DETECTOR IN FIRE/SMOKE DAMPER SHAFT. CONNECT DUCT MOUNTED SMOKE DETECTOR AND FIRE/SMOKE AND/OR SMOKE DAMPER TO FIRE ALARM SYSTEM. A CHANGE ORDER WILL NOT BE ALLOWED FOR LACK OF COORDINATION BETWEEN THE ELECTRICAL AND MECHANICAL CONTRACTOR FOR LOCATION AND QUANTITY OF FIRE/SMOKE DAMPER AND/OR SMOKE DAMPERS.

9. SEE SHEETS E1.01 THRU E1.03 FOR TYPICAL UNIT PLANS.

10. ALL CEILING MOUNTED CORRIDOR LIGHTING FIXTURES ARE TYPE 'A'.

11. ALL UNIT ENTRY WALL SCONCE LIGHTING FIXTURES ARE TYPE 'B'.

12. ALL STRIP FIXTURES ARE TYPE 'C/CE'.

13. ALL EMERGENCY LIGHTING FIXTURES ARE TYPE 'EM'.

14. ALL EXIT SIGNS ARE TYPE 'X'.

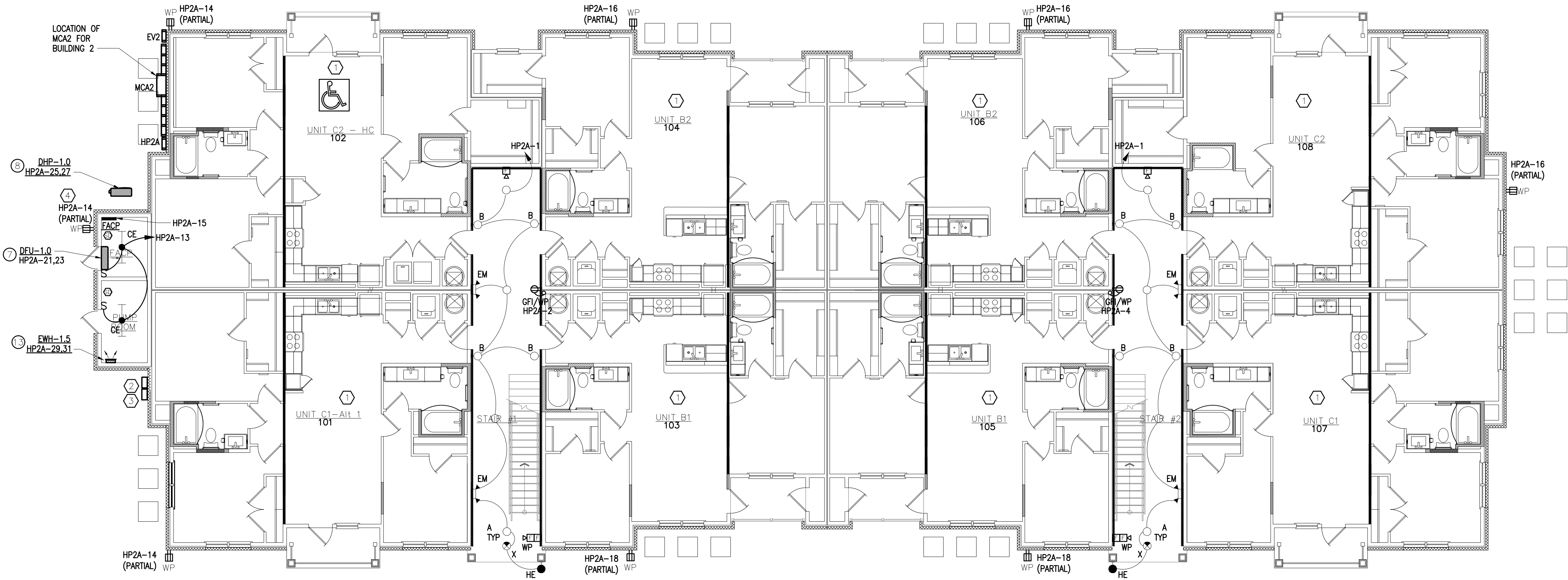
16. ALL EXTERIOR EQUIPMENT AND DEVICES THAT ARE EXTERIOR SHALL BE 'GR' PROTECTED AND NEMA 3R RATED.

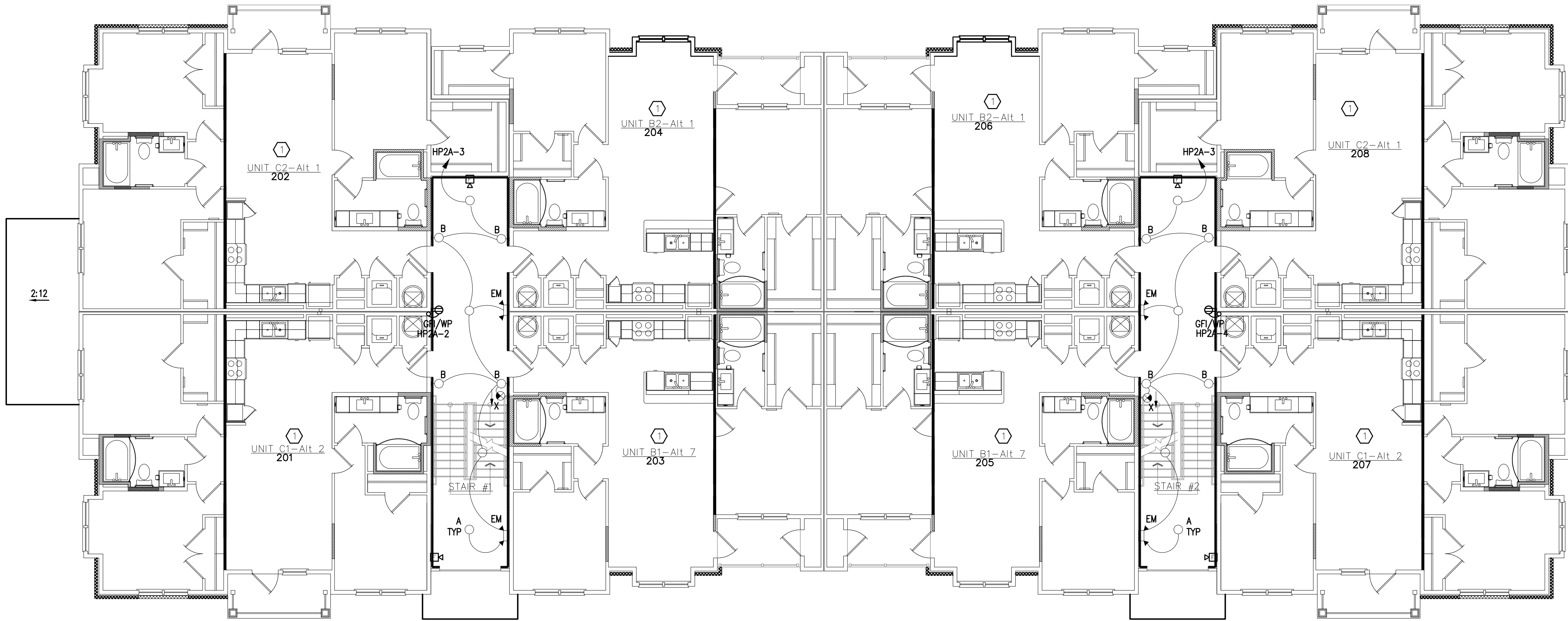
- KEY NOTES
- THIS UNIT SERVED FROM METER CENTER MCA2.

TELEPHONE SERVICE ENTRANCE PEDESTAL. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS WITH TELEPHONE SERVICE PROVIDER, ARCHITECT AND OWNER PRIOR TO BID/ROUGH-IN.

CABLE TELEVISION SERVICE ENTRANCE PEDESTAL. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS WITH CATV SERVICE PROVIDER, ARCHITECT, AND OWNER PRIOR TO BID/ROUGH-IN.

RECEPTACLE SHALL BE MOUNTED WITHIN 25' RADIUS OF ANY EXTERIOR HVAC EQUIPMENT.





1 Building Plan - Building 2 - Level 2
Scale: 1/8"= 1'-0"

Plan

- ### GENERAL NOTES (THIS SHEET ONLY)
1. **(P)** INDICATES HVAC EQUIPMENT. SEE E6.01 FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
 2. DO NOT INSTALL DEVICES BACK TO BACK IN ANY FIRE RATED WALL. PROVIDE MINIMUM 24" HORIZONTAL SPACE BETWEEN SUCH OUTLETS
 3. SEAL ALL PENETRATIONS IN EVERY FIRE RATED WALL AND FLOOR PER UL TO MAINTAIN THE WALL AND FLOOR ORIGINAL RATINGS
 4. FINAL LIGHTING LOCATIONS AND SELECTIONS TO BE DETERMINED BY ARCHITECT/INTERIOR DESIGNER
 5. PROVIDE #10 CONDUCTORS FOR ANY 120V CIRCUIT OVER 100'. PROVIDE #8 CONDUCTOR FOR ANY CIRCUIT OVER 150'
 6. PROVIDE CONNECTION TO FIRE ALARM CONTROL PANEL FROM ALL FIRE ALARM DEVICES
 7. TYPE N.M. WIRING FOR BRANCH CIRCUIT WIRING FOR TYPE III, IV AND V CONSTRUCTION IF ACCEPTABLE TO LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE W.C. CABLE OR WIRE/EMT CONDUIT FOR BRANCH CIRCUITS IN ALL OTHER CONSTRUCTION TYPES AND IN RETURN AIR PLENUM ROOMS OR SPACES.
 8. COORDINATE LOCATION AND QUANTITY OF FIRE/SMOKE AND/OR SMOKE DAMPERS WITH MECHANICAL CONTRACTOR PRIOR TO BID. COORDINATION OF LOCATIONS AND QUANTITIES WILL OVERRIDE LOCATIONS AND QUANTITIES INDICATED ON ELECTRICAL DRAWINGS. PROVIDE A 120V UNSWITCHED CIRCUIT TO EACH FIRE/SMOKE DAMPER AND/OR SMOKE DAMPER. PROVIDE A DUCT MOUNTED SMOKE DETECTOR IN FIRE/SMOKE DAMPER SHAFT. CONNECT DUCT MOUNTED SMOKE DETECTOR AND FIRE/SMOKE AND/OR SMOKE DAMPER TO FIRE ALARM SYSTEM. A CHANGE ORDER WILL NOT BE ALLOWED FOR LACK OF COORDINATION BETWEEN THE ELECTRICAL AND MECHANICAL CONTRACTOR FOR LOCATION AND QUANTITY OF FIRE/SMOKE DAMPER AND/OR SMOKE DAMPERS.
 9. SEE SHEETS E1.01 THRU E1.03 FOR TYPICAL UNIT PLANS.
 10. ALL CEILING MOUNTED CORRIDOR LIGHTING FIXTURES ARE TYPE 'A'.
 11. ALL UNIT ENTRY WALL SCONCE LIGHTING FIXTURES ARE TYPE 'B'.
 12. ALL STRIP FIXTURES ARE TYPE 'C/CE'.
 13. ALL EMERGENCY LIGHTING FIXTURES ARE TYPE 'EM'.
 14. ALL EXIT SIGNS ARE TYPE 'X'.
 16. ALL EXTERIOR EQUIPMENT AND DEVICES THAT ARE EXTERIOR SHALL BE 'GFI' PROTECTED AND NEMA 3R RATED.

- ### KEY NOTES
1. THIS UNIT SERVED FROM METER CENTER MCA2.
 2. TELEPHONE SERVICE ENTRANCE. PEDESTAL. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS WITH TELEPHONE SERVICE PROVIDER, ARCHITECT AND OWNER PRIOR TO BID/ROUGH-IN.
 3. CABLE TELEVISION SERVICE ENTRANCE. PEDESTAL. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS WITH CATV SERVICE PROVIDER, ARCHITECT, AND OWNER PRIOR TO BID/ROUGH-IN.
 4. RECEPTACLE SHALL BE MOUNTED WITHIN 25' RADIUS OF ANY EXTERIOR HVAC EQUIPMENT.

Seal

2-19-26

POOLE & MOORE ARCHITECTURE
4240 Park Place Court
Glen Allen, Virginia 23060
Telephone 804.225.0215
www.zpa.net

Project: 2501
CADD File:
Drawn By: AG
Checked By: WLP
Permit Release:
-
Construction Release Set:
-

Revisions
No. Date Description

ASI / RFI Revisions
No. Date Description

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Daleville Town Center Apartments III
an Apartment Community by
Daleville Town Center Apartments III, LLC
in Daleville, Virginia

Drawing Title:
Building 2 - Level 2

E2.22

PHILLIPS GRADICK ENGINEERING, P.C.
1415 W. Morehead St.
Charlotte, NC 28208
PGE # NC225038
(704) 930-5850 (T)
June 2023

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NOT RELEASED FOR CONSTRUCTION

- GENERAL NOTES
- (THIS SHEET ONLY)
1. (E) INDICATES HVAC EQUIPMENT. SEE E6.01 FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE.

2. DO NOT INSTALL DEVICES BACK TO BACK IN ANY FIRE RATED WALL. PROVIDE MINIMUM 24" HORIZONTAL SPACE BETWEEN SUCH OUTLETS

3. SEAL ALL PENETRATIONS IN EVERY FIRE RATED WALL AND FLOOR PER UL TO MAINTAIN THE WALL AND FLOOR ORIGINAL RATING

4. FINAL LIGHTING LOCATIONS AND SELECTIONS TO BE DETERMINED BY ARCHITECT/INTERIOR DESIGNER

5. PROVIDE #10 CONDUCTORS FOR ANY 120V CIRCUIT OVER 100'. PROVIDE #8 CONDUCTOR FOR ANY CIRCUIT OVER 150'

6. PROVIDE CONNECTION TO FIRE ALARM CONTROL PANEL FROM ALL FIRE ALARM DEVICES

7. TYPE N.M. WIRING FOR BRANCH CIRCUIT WIRING FOR TYPE III, IV AND V CONSTRUCTION IF ACCEPTABLE TO LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE M.C. CABLE OR WIRE/EMT CONDUIT FOR BRANCH CIRCUITS IN ALL OTHER CONSTRUCTION TYPES AND IN RETURN AIR PLENUM ROOMS OR SPACES.

8. COORDINATE LOCATION AND QUANTITY OF FIRE/SMOKE AND/OR SMOKE DAMPERS WITH MECHANICAL CONTRACTOR PRIOR TO BID. COORDINATION OF LOCATIONS AND QUANTITIES WILL OVERRIDE LOCATIONS AND QUANTITIES INDICATED ON ELECTRICAL DRAWINGS. PROVIDE A 120V UNSWITCHED CIRCUIT TO EACH FIRE/SMOKE DAMPER AND/OR SMOKE DAMPER. PROVIDE A DUCT MOUNTED SMOKE DETECTOR IN FIRE/SMOKE DAMPER SHAFT. CONNECT DUCT MOUNTED SMOKE DETECTOR AND FIRE/SMOKE AND/OR SMOKE DAMPER TO FIRE ALARM SYSTEM. A CHANGE ORDER WILL NOT BE ALLOWED FOR LACK OF COORDINATION BETWEEN THE ELECTRICAL AND MECHANICAL CONTRACTOR FOR LOCATION AND QUANTITY OF FIRE/SMOKE DAMPER AND/OR SMOKE DAMPERS.

9. SEE SHEETS E1.01 THRU E1.03 FOR TYPICAL UNIT PLANS.

10. ALL CEILING MOUNTED CORRIDOR LIGHTING FIXTURES ARE TYPE 'A'.

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14. ALL EXIT SIGNS ARE TYPE 'X'.

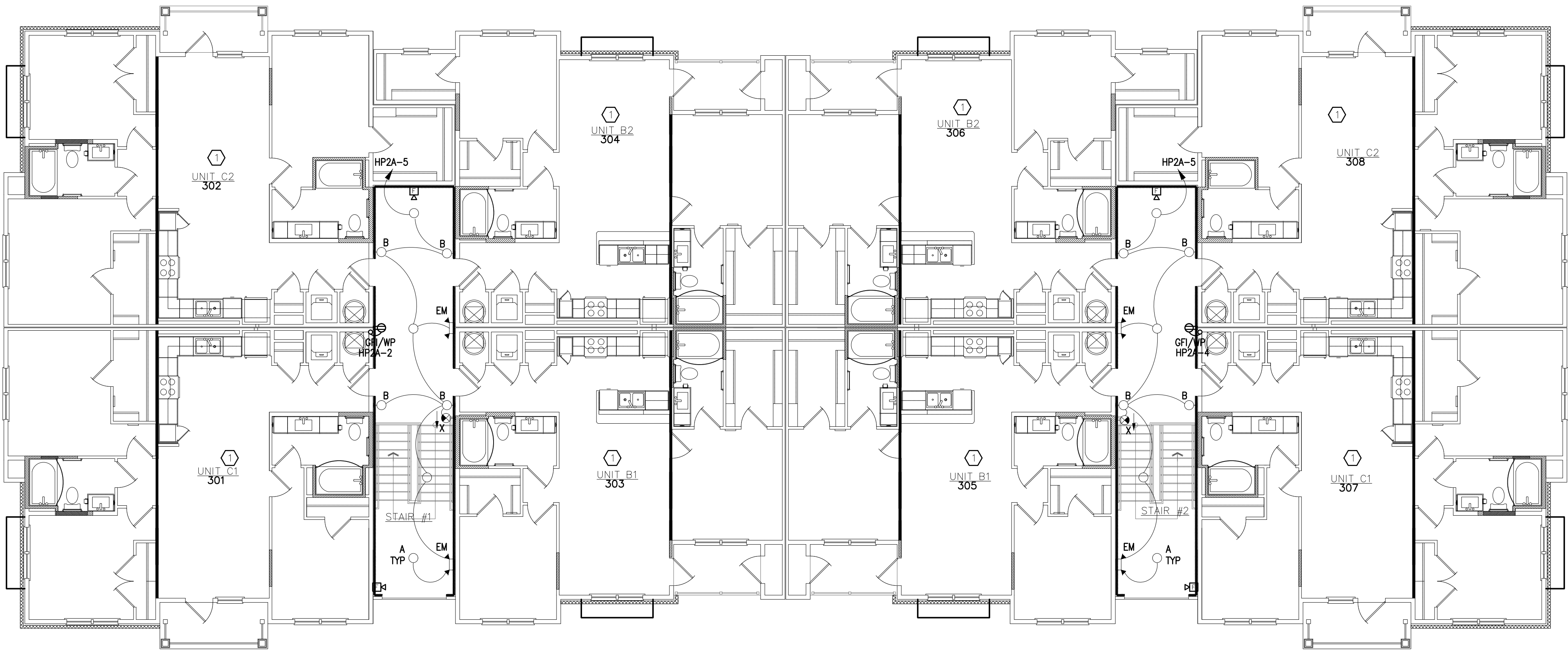
15. ALL EXTERIOR EQUIPMENT AND DEVICES THAT ARE EXTERIOR SHALL BE 'GFI' PROTECTED AND NEMA 3R RATED.

- KEY NOTES
- (E) THIS UNIT SERVED FROM METER CENTER MCA2.

(E) TELEPHONE SERVICE ENTRANCE PEDESTAL. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS WITH TELEPHONE SERVICE PROVIDER, ARCHITECT AND OWNER PRIOR TO BID/ROUGH-IN.

(E) CABLE TELEVISION SERVICE ENTRANCE PEDESTAL. FIELD COORDINATE EXACT LOCATION AND REQUIREMENTS WITH CATV SERVICE PROVIDER, ARCHITECT, AND OWNER PRIOR TO BID/ROUGH-IN.

(E) RECEPTACLE SHALL BE MOUNTED WITHIN 25' RADIUS OF ANY EXTERIOR HVAC EQUIPMENT.



1

Building Plan - Building 2 - Level 3

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

Plan

PHILLIPS GRADICK
ENGINEERING, P.C.

1415 W. Main Street
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PGI # NC225018

(204) 900-5850 (TX)

Daleville Town Center Apartments III

an Apartment Community by

Daleville Town Center Apartments III, LLC

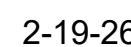
in Daleville, Virginia

Drawing Title:

Building 2 - Level 3

E2.23

NOT RELEASED FOR CONSTRUCTION



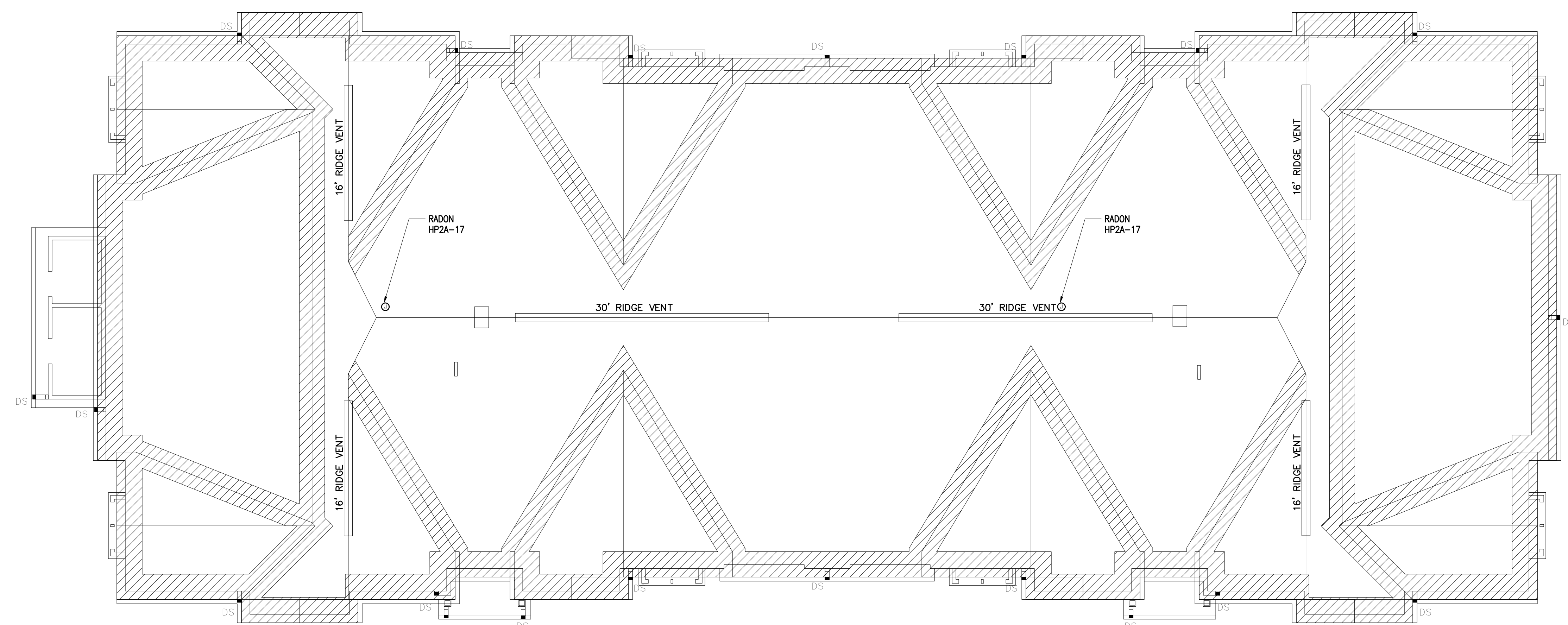
Daleville Town Center Apartments III

an Apartment Community by
Daleville Town Center Apartments III, LLC
in Daleville, Virginia

E2.24

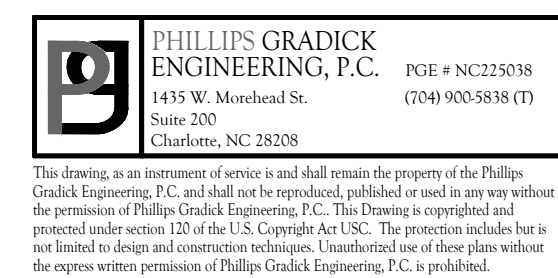
NOT RELEASED FOR CONSTRUCTION

- ## GENERAL NOTES
- (THIS SHEET ONLY)
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 2. DO NOT INSTALL DEVICES BACK TO BACK IN ANY FIRE RATED WALL. PROVIDE MINIMUM 24" HORIZONTAL SPACE BETWEEN SUCH OUTLETS
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 5. PROVIDE #10 CONDUCTORS FOR ANY 120V CIRCUIT OVER 100'. PROVIDE #8 CONDUCTOR FOR ANY CIRCUIT OVER 150'
 6. PROVIDE CONNECTION TO FIRE ALARM CONTROL PANEL FROM ALL FIRE ALARM DEVICES
 7. TYPE NML WIRING FOR BRANCH CIRCUIT WIRING FOR TYPE II, IV AND V CONSTRUCTION IF ACCEPTABLE TO LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE PVC OR CHLOR. P.V.C. OR WIRE-FT. CONDUIT FOR BRANCH CIRCUITS IN ALL OTHER CONSTRUCTION TYPES AND IN RETURN AIR PLenum ROOMS OR SPACES.
 8. ALL EXTERIOR EQUIPMENT AND DEVICES THAT ARE EXTERIOR SHALL BE "GFI" PROTECTED AND NEMA 3R RATED.



1 Building Plan - Building 2 - Roof
Scale: 1/8"= 1'-0"

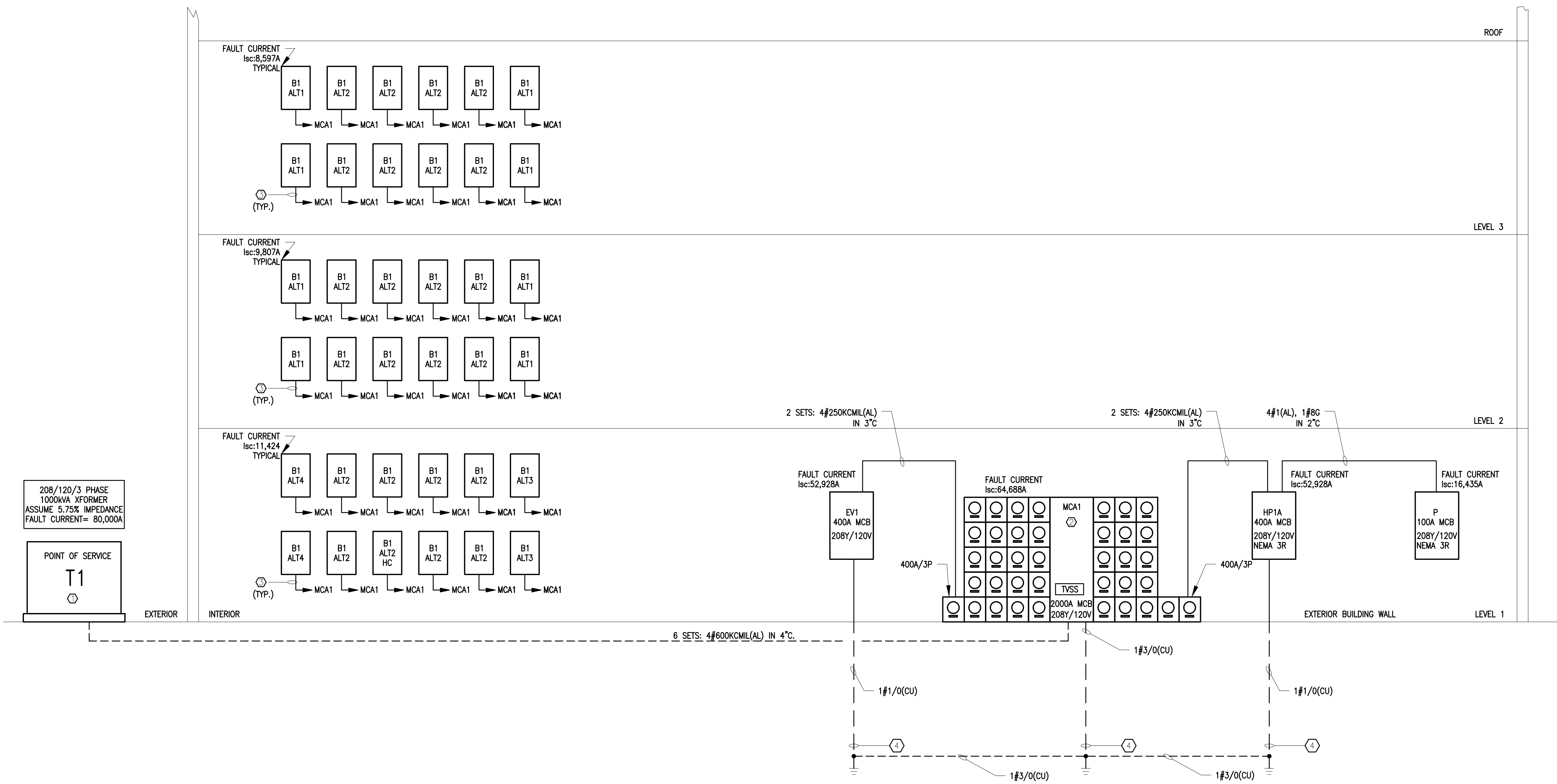
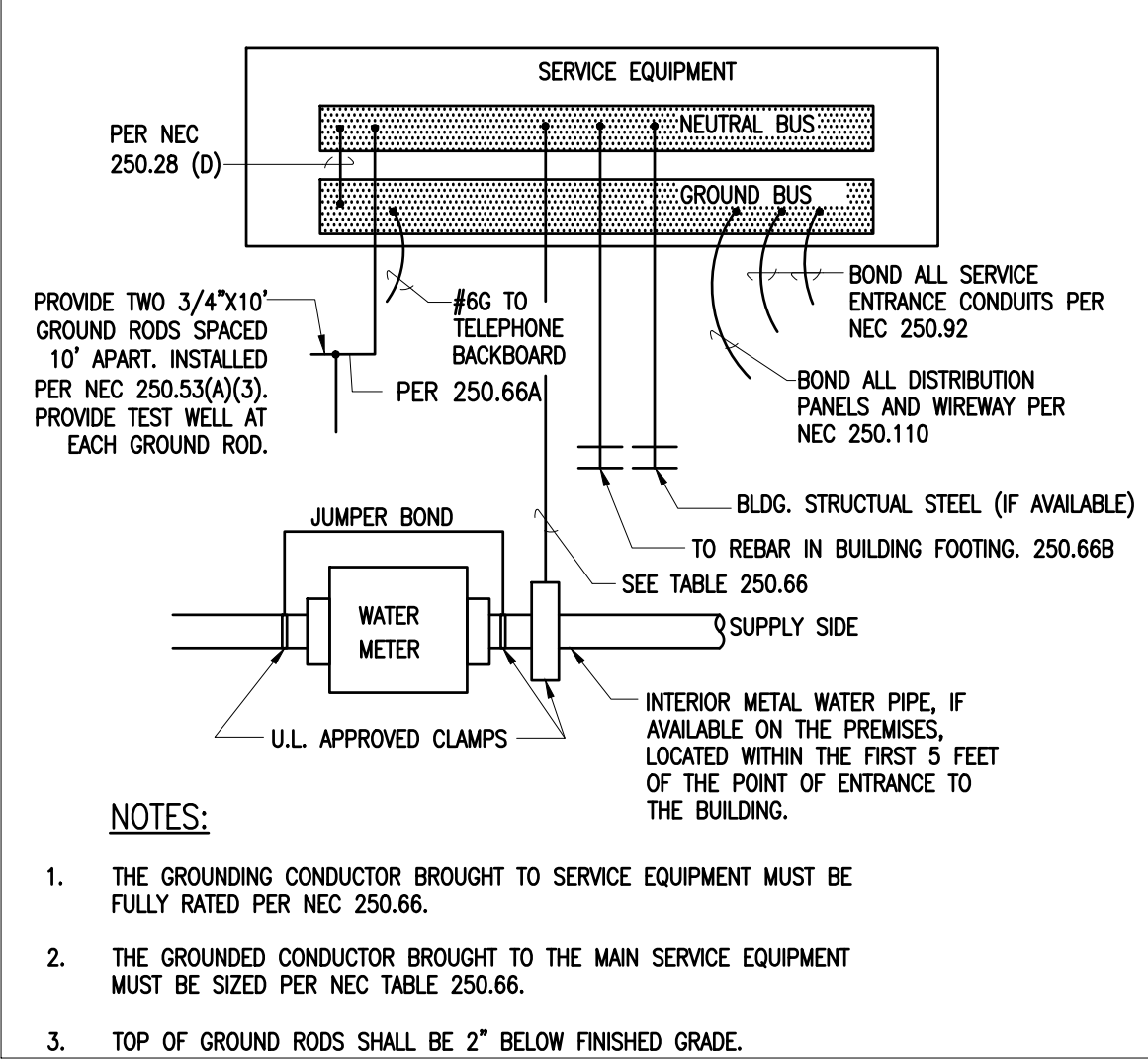
Plan



- KEY NOTES
- 1. PROVIDE TRANSFORMER PAD. COORDINATE REQUIREMENTS WITH POWER COMPANY PRIOR TO BID.
 - 2. PROVIDE 2000A/3P MCB, SERVICE ENTRANCE RATED METER CENTER NEMA 3R, 120/208V THREE PHASE 4 WIRE IN AND 120/208V SINGLE PHASE OUT. SURGE PROTECTION ON MAIN. PROVIDE QUANTITY OF METERS AS INDICATED. COORDINATE WITH POWER COMPANY FOR METER SOCKET REQUIREMENTS. (NUMBER OF JUMPS, BYPASS HANDLE, ETC). PROVIDE PLAQUE AT EACH METER SOCKET INDICATING APARTMENT NUMBER. (COORDINATE WITH POWER COMPANY FOR ANY MATERIAL REQUIREMENTS AND/OR ATTACHMENT REQUIREMENTS) . PROVIDE BREAKER AT EACH METER SOCKET.
 - 3. SEE LOAD CENTER CALC FOR FEEDER WIRE AND BREAKER SIZES. UNIT FEEDER SIZES ARE BASED ON THE 75 DEGREE COLUMN OF NEC 310.15(B)(16).
 - 4. PROVIDE GROUND WIRE AS INDICATED FOR BUILDING GROUND. SEE 2/E6.1 FOR DETAILS. ELECTRICAL CONTRACTOR SHALL BOND ALL GROUNDS TOGETHER AS INDICATED IN DETAIL.

- ARC ENERGY REDUCTION METHOD NOTES:
- 1. CIRCUIT BREAKERS 1200 AMP OR LARGER SHALL COMPLY WITH NEC 240.87, ARC FLASH ENERGY REDUCTION. METHOD TO BE USED IS AS PER NEC 240.87 (B) (3) (ENERGY-REDUCING MAINTENANCE SWITCHING WITH LOCAL STATUS INDICATOR)

- GENERAL NOTES
- 1. ALL FUSES TO BE UL SERIES RATED WITH SPECIFIC DOWNSTREAM BREAKERS. CONTRACTOR SHALL SUBMIT INFORMATION WITH SHOP DRAWINGS FOR ENGINEER'S REVIEW.
 - 2. ELECTRICAL ROOM LAYOUT IS BASED ON SIEMENS EQUIPMENT. IF EQUIPMENT OTHER THAN SIEMENS IS UTILIZED, CONTRACTOR SHALL BE RESPONSIBLE TO MAKE EQUIPMENT FIT IN ROOM AND MAINTAIN WORKING CLEARANCES
 - 3. PROVIDE TO SCALE ELECTRICAL EQUIPMENT PLAN LAYOUTS WITH SUBMITTALS
 - 4. BOND ALL SERVICE GROUNDS TOGETHER.
 - 5. PROVIDE FAULT CURRENT SIGN ON ALL GEAR PER NEC 110.24
 - 6. PROVIDE GRAPHIC PLAQUE INDICATING OTHER SERVICE LOCATIONS. MOUNT IN EACH ELECTRICAL ROOM
 - 7. MARK ALL PANELS AND LOAD CENTERS TO INDICATE WHERE THE POWER SUPPLY ORIGINATES PER NEC 408.4(B)
 - 8. ALL ALUMINUM CONDUCTORS SHALL BE COMPACT TYPE AND PROVIDE ANTIOXIDANT PASTE ON ALL ALUMINUM CONDUCTORS AT TERMINATION POINTS
 - 9. FOR METER CENTERS RATED FOR 1200 AMPS, WHEN TAP BOX IS IN THE MIDDLE, THE HORIZONTAL BUSSING IN EACH METER STACK SHALL BE RATED FOR 800 AMPS. IF TAP BOX IS AT THE END, THE HORIZONTAL BUSSING IN EACH METER STACK SHALL BE RATED FOR 1200 AMPS. FOR METER CENTERS RATED FOR MORE THAN 1200 AMPS, THE TAP BOX SHALL BE IN THE MIDDLE AND THE HORIZONTAL BUSSING IN EACH METER STACK SHALL BE RATED FOR 1200 AMPS
 - 10. CONTRACTOR TO COORDINATE WITH POWER COMPANY, PRIOR TO ANY WORK, AND OBTAIN REQUIREMENTS FOR ELECTRICAL SERVICE. CONTRACTOR TO PROVIDE POWER COMPANY LOAD FORMS, INCLUDING ALL ASSOCIATED DOCUMENTS REQUIRED BY THE POWER COMPANY, TO THE APPROPRIATE POWER COMPANY REPRESENTATIVE PRIOR TO ANY WORK
 - 11. CIRCUIT BREAKERS 1200 AMP OR LARGER SHALL COMPLY WITH NEC 240.87, ARC FLASH ENERGY REDUCTION
 - 12. PROVIDE SELECTIVE COORDINATION STUDY FOR ELEVATOR CIRCUIT PER NEC 620.62.



1 Building 1 - Riser Diagram
Scale: N.T.S.

Seal

2-19-26

2PRA

POOLE & MOORE ARCHITECTURE
4240 Park Place Court
Glen Allen, Virginia 23060
Telephone 804.225.0215
www.2pa.net

Project: 2501
CADD File:
Drawn By: AG
Checked By: LP

Permit Release:
-
Construction Release Set:
-

Revisions
No. Date Description

ASI / RFI Revisions
No. Date Description

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Daleville Town Center Apartments III
an Apartment Community by
Daleville Town Center Apartments III, LLC
in Daleville, Virginia

Drawing Title:
Partial Riser Diagram

PHILLIPS GRADICK ENGINEERING, P.C.
1415 W. Main Street
Charlotte, NC 28208

PGI # NC225018
(2040 X003550) (T)

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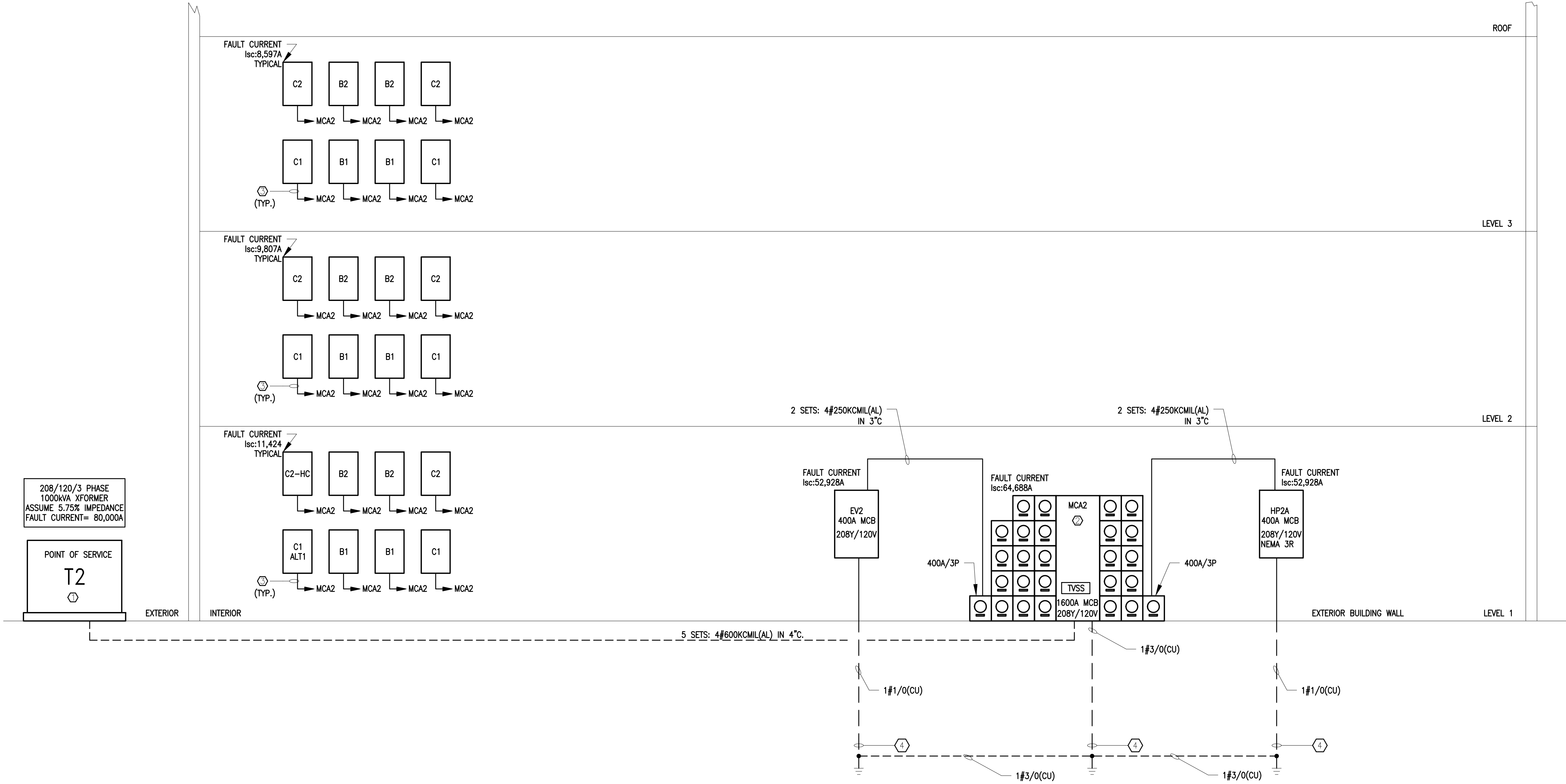
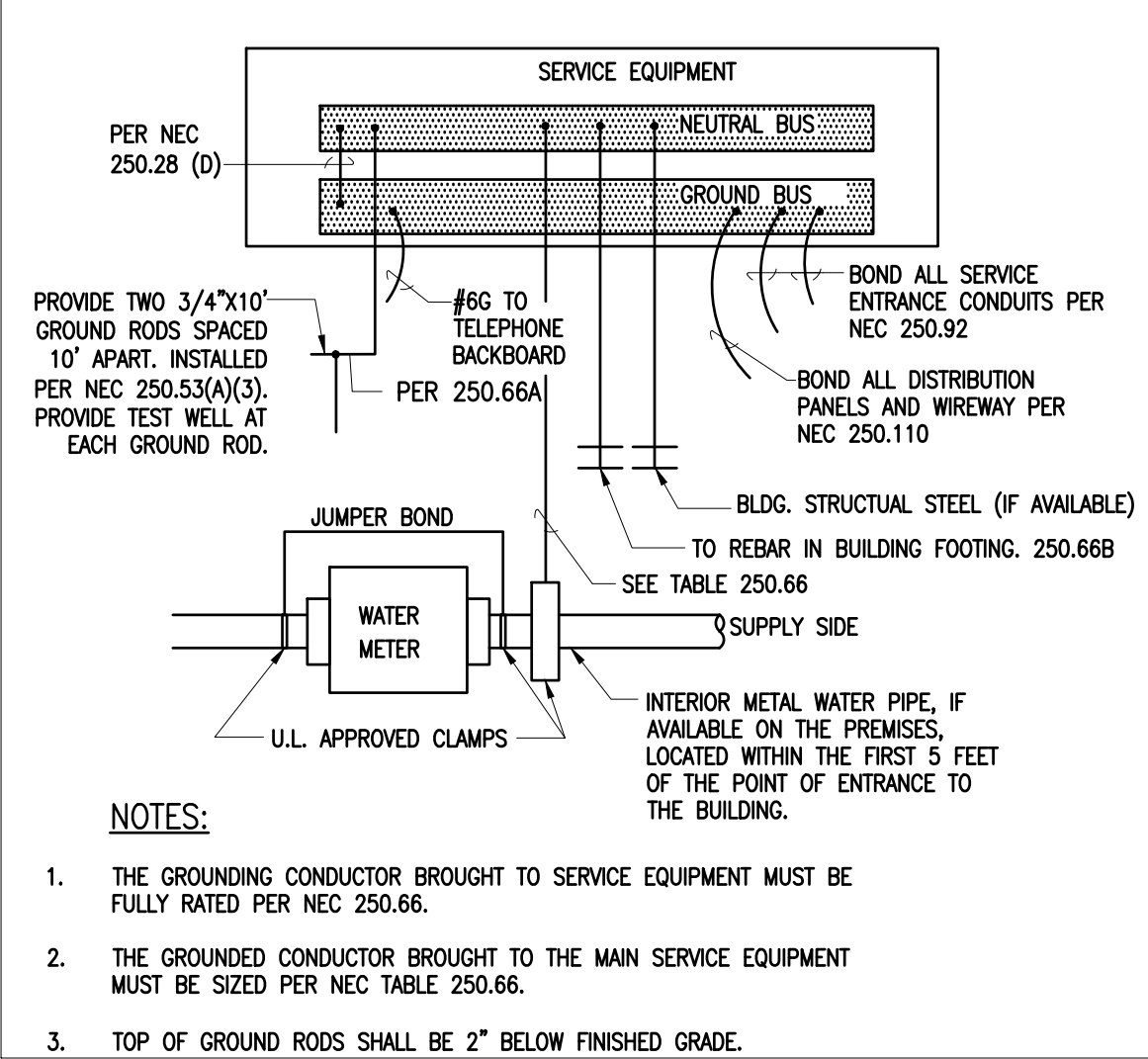
E5.01

NOT RELEASED FOR CONSTRUCTION

KEY NOTES
① PROVIDE TRANSFORMER PAD. COORDINATE REQUIREMENTS WITH POWER COMPANY PRIOR TO BID.
② PROVIDE 1600A/3P MCB, SERVICE ENTRANCE RATED METER CENTER NEMA 3R, 120/208V THREE PHASE 4 WIRE IN AND 120/208V SINGLE PHASE OUT. SURGE PROTECTION ON MAIN. PROVIDE QUANTITY OF METERS AS INDICATED. COORDINATE WITH POWER COMPANY FOR METER SOCKET REQUIREMENTS. (NUMBER OF JUMPS, BYPASS HANDLE, ETC). PROVIDE PLAQUE AT EACH METER SOCKET INDICATING APARTMENT NUMBER. (COORDINATE WITH POWER COMPANY FOR ANY MATERIAL REQUIREMENTS AND/OR ATTACHMENT REQUIREMENTS) . PROVIDE BREAKER AT EACH METER SOCKET.
③ SEE LOAD CENTER CALC FOR FEEDER WIRE AND BREAKER SIZES. UNIT FEEDER SIZES ARE BASED ON THE 75 DEGREE COLUMN OF NEC 310.15(B)(16).
④ PROVIDE GROUND WIRE AS INDICATED FOR BUILDING GROUND. SEE 2/E6.1 FOR DETAILS. ELECTRICAL CONTRACTOR SHALL BOND ALL GROUNDS TOGETHER AS INDICATED IN DETAIL.

ARC ENERGY REDUCTION METHOD NOTES:
1. CIRCUIT BREAKERS 1200 AMP OR LARGER SHALL COMPLY WITH NEC 240.87, ARC FLASH ENERGY REDUCTION. METHOD TO BE USED IS AS PER NEC 240.87 (B) (3) (ENERGY-REDUCING MAINTENANCE SWITCHING WITH LOCAL STATUS INDICATOR)

GENERAL NOTES
1. ALL FUSES TO BE UL SERIES RATED WITH SPECIFIC DOWNSTREAM BREAKERS. CONTRACTOR SHALL SUBMIT INFORMATION WITH SHOP DRAWINGS FOR ENGINEER'S REVIEW.
2. ELECTRICAL ROOM LAYOUT IS BASED ON SIEMENS EQUIPMENT. IF EQUIPMENT OTHER THAN SIEMENS IS UTILIZED, CONTRACTOR SHALL BE RESPONSIBLE TO MAKE EQUIPMENT FIT IN ROOM AND MAINTAIN WORKING CLEARANCES
3. PROVIDE TO SCALE ELECTRICAL EQUIPMENT PLAN LAYOUTS WITH SUBMITTALS
4. BOND ALL SERVICE GROUNDS TOGETHER.
5. PROVIDE FAULT CURRENT SIGN ON ALL GEAR PER NEC 110.24
6. PROVIDE GRAPHIC PLAQUE INDICATING OTHER SERVICE LOCATIONS. MOUNT IN EACH ELECTRICAL ROOM
7. MARK ALL PANELS AND LOAD CENTERS TO INDICATE WHERE THE POWER SUPPLY ORIGINATES PER NEC 408.4(B)
8. ALL ALUMINUM CONDUCTORS SHALL BE COMPACT TYPE AND PROVIDE ANTIOXIDANT PASTE ON ALL ALUMINUM CONDUCTORS AT TERMINATION POINTS
9. FOR METER CENTERS RATED FOR 1200 AMPS, WHEN TAP BOX IS IN THE MIDDLE, THE HORIZONTAL BUSSING IN EACH METER STACK SHALL BE RATED FOR 800 AMPS. IF TAP BOX IS AT THE END, THE HORIZONTAL BUSSING IN EACH METER STACK SHALL BE RATED FOR 1200 AMPS. FOR METER CENTERS RATED FOR MORE THAN 1200 AMPS, THE TAP BOX SHALL BE IN THE MIDDLE AND THE HORIZONTAL BUSSING IN EACH METER STACK SHALL BE RATED FOR 1200 AMPS
10. CONTRACTOR TO COORDINATE WITH POWER COMPANY, PRIOR TO ANY WORK, AND OBTAIN REQUIREMENTS FOR ELECTRICAL SERVICE. CONTRACTOR TO PROVIDE POWER COMPANY LOAD FORMS, INCLUDING ALL ASSOCIATED DOCUMENTS REQUIRED BY THE POWER COMPANY, TO THE APPROPRIATE POWER COMPANY REPRESENTATIVE PRIOR TO ANY WORK
11. CIRCUIT BREAKERS 1200 AMP OR LARGER SHALL COMPLY WITH NEC 240.87, ARC FLASH ENERGY REDUCTION
12. PROVIDE SELECTIVE COORDINATION STUDY FOR ELEVATOR CIRCUIT PER NEC 620.62.



1 Building 2 - Riser Diagram
Scale: N.T.S.

Seal

2-19-26

2PRA

POOLE & MOORE ARCHITECTURE
4240 Park Place Court
Glen Allen, Virginia 23060
Telephone 804.225.0215
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Partial Riser Diagram

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Chapel Hill, NC 27514

PGC # NC225018
(1040) 900.5850 (T)

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E5.02

NOT RELEASED FOR CONSTRUCTION

PANEL BOARD "TP" SCHEDULE																							
VOLTAGE: 208/120V BUS SIZE: 400A										3 Ph, 4 Wire		MAIN		--		MLO		MOUNTING: 13.5 KVA		SURFACE FAULT CUTOFF SEE RISER		REMARKS:	
TOTAL LOAD										TOTAL LOAD		PHASE		LOAD (KVA)		LOAD (KVA)		LOAD (KVA)		Provide copper ground bus			
CKT NO	DESCRIPTION	CONT	REC	MTR	AC	HTG	MSC	KIT	BKR	A	B	C	BKR	KIT	MSC	HTG	AC	MTR	REC	CONT	DESCRIPTION	CKT NO	
1	POOL LIGHTING (2)	1.0							20/1	2.5			20/1		1.5						POOL FUTURE EQUIPMENT	2	
3	SPARE								20/1	1.5			20/1		1.5						POOL FUTURE EQUIPMENT	4	
5	POOL FILTER PUMP (2)			1.0					30/2			2.5	20/1		1.5						POOL FUTURE EQUIPMENT	6	
7				1.0					20/1	2.5			20/1		1.5						POOL FUTURE EQUIPMENT	8	
9	CHLORINE PUMP (2)			1.0					20/1	2.5			20/1		1.5						POOL FUTURE EQUIPMENT	10	
11	SKIMMER (2)					0.5			20/1			2.0	20/1		1.5						POOL FUTURE EQUIPMENT	12	
13	SPARE								20/1	0.0			20/1								SPARE	14	
15	SPARE								20/1	0.0			20/1								SPARE	16	
17	SPARE								20/1		0.0		20/1								SPARE	18	
19	SPARE								20/1	0.0			20/1								SPARE	20	
21	SPARE								20/1	0.0			20/1								SPARE	22	
23	SPARE								20/1		0.0		20/1								SPARE	24	
25	SPARE								20/1	0.0			20/1								SPARE	26	
27	SPARE								20/1		0.0		20/1								SPARE	28	
29	SPARE								20/1				20/1								SPARE	30	
31	SPARE								20/1	0.0			20/1								SPARE	32	
33	SPARE								20/1	0.0			20/1								SPARE	34	
35	SPARE								20/1	0.0			20/1								SPARE	36	
37	SPARE								20/1	0.0			20/1								SPARE	38	
39	SPARE								20/1	0.0			20/1								SPARE	40	
41	SPARE								20/1	0.0			20/1								SPARE	42	
CONNECTED KVA		1.0	0.0	3.0	0.0	0.0	0.5	0.0		5.0	4.0	4.5		0.0	9.0	0.0	0.0	0.0	0.0	0.0	CONNECTED KVA		
AMPERES/PHASE										41.6	33.3	37.5									AMPERES/PHASE		
NOTES:																							
T Continuous:		1.0	X 125% =	1.3																			
O Receptacles:		0.0	NEC 220.44	0.0																			
T Motors:		3.0	NEC 220.18(A)	3.0																			
A Largest Motor:		0.0	NEC 430.24	0.0																			
L A/C:		0.0	X 100% =	0.0																			
S Heating:		0.0	X 100% =	0.0																			
Miscellaneous:		9.5	X 100% =	9.5																			
Kitchen:		0.0	NEC 220.56	0.0																			
Not Used:		--	Not Used:	--																			
Not Used:		--	Not Used:	--																			
CONNECTED KVA		13.5		13.8	CODE KVA																		
TOTAL AMPS		37.5		38.2	CODE AMPS																		

PANELBOARD "EV2" SCHEDULE																										
VOLTAGE: 208/120V 3 Ph 4 Wire										MNN		---		MLO		MOUNTING		SURFACE		REMARKS:						
BUS SIZE: 400A										TOTAL LOAD		30A		KVA		FAULT CURTY		SEE RISER		Provide copper ground bus						
LOAD (KVA)										PHASE		KBT		LOAD (KVA)												
CKT NO	DESCRIPTION	CONT	REC	MTR	AC	HTG	MSC	KBT	KRR	A	B	C	KBT	MSC	HTG	AC	MTR	REC	CONT	DESCRIPTION	CKT NO					
1	FUTURE EV CHARGER	3.8							40/2	7.6			40/2						3.8	FUTURE EV CHARGER	4					
3		3.8									7.6								3.8		6					
5	FUTURE EV CHARGER	3.8							40/2	7.6		7.6	40/2						3.8	FUTURE EV CHARGER	8					
7		3.8																	3.8		10					
9	SPARE								20/1	0.0			20/1							SPARE	12					
11	SPARE								20/1		0.0	0.0	20/1							SPARE	14					
13	SPARE								20/1	0.0			20/1							SPARE	16					
15	SPARE								20/1		0.0		20/1							SPARE	18					
17	SPARE								20/1											SPARE	20					
19	SPARE								20/1	0.0			20/1							SPARE	22					
21	SPARE								20/1		0.0		20/1							SPARE	24					
23	SPARE								20/1			0.0	20/1							SPARE	26					
25	SPARE								20/1	0.0			20/1							SPARE	28					
27	SPARE								20/1		0.0		20/1							SPARE	30					
29	SPARE								20/1			0.0	20/1							SPARE	32					
31	SPARE								20/1	0.0			20/1							SPARE	34					
33	SPARE								20/1				20/1							SPARE	36					
35	SPARE								20/1			0.0	20/1							SPARE	38					
37	SPARE								20/1	0.0			20/1							SPARE	40					
39	SPARE								20/1		0.0		20/1							SPARE	42					
41	SPARE								20/1				20/1							SPARE						
CONNECTED KVA		15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2	7.6	7.6		0.0	0.0	0.0	0.0	0.0	15.2	CONNECTED KVA						
AMPERES/PHASE																			AMPERES/PHASE							
T	Continuous:	30.4	X 125% =				38.0	NOTES:																		
O	Receptacles:	0.0	NEC 220.44				0.0	1) This circuit breaker to have pad lockable device.																		
A	Motors:	0.0	NEC 220.16(A)				0.0	2) This shall be a GFI type circuit breaker.																		
L	Largest Motor:	0.0	NEC 430.24				0.0	3) Provide shut trip type circuit breaker.																		
S	L.V.C.	0.0	X 100% =				0.0	4) Per NEC 2023, 210.4 Each multi-wire branch circuit shall be provided with a means that will simultaneously disconnect all ungrounded conductors at the point where the branch circuit originates. This means that any circuit that shares a neutral shall be disconnected by a common means. Utilize 2-pole, 3-pole, or wire-tied circuit breakers where necessary.																		
	Heating:	0.0	X 100% =				0.0	5) Demand load for guest room light receptacles calculated by area per 2023 NEC Table 220.12, 220.14(J), & Table 220.42.																		
	Miscellaneous:	0.0	X 100% =				0.0	6) Diversity in accordance with 2023 NEC Table 220.64, 0 Units @ 100%.																		
	Kitchen:	0.0	NEC 220.56				0.0	7) Not used.																		
	Not Used:	--	Not Used				--	8) Not used.																		
	Not Used:	--	Not Used				--	9) Not used.																		
CONNECTED KVA		34.5					38.0	CODE KVA																		
TOTAL AMPS		80.5					105.6	CODE AMPS																		

IP2A* SCHEDULE													
MLO		MOUNTING		SURFACE		FAULT DUTY		SEE RISER		REMARKS:			
KVA										Provide copper ground bus			
BASE				LOAD (KVA)									
B	C	BKR	KIT	MSC	HTG	A/C	MTR	REC	CONT	DESCRIPTION			
1.6		20/1						0.6		CORRIDOR RECEPTALS			
1.0		20/1						0.6		CORRIDOR RECEPTALS			
0.0		20/1								SPARE			
0.0		20/1								SPARE			
0.0		20/1								SPARE			
0.0		20/1								SPARE			
2.1		20/1						0.6		EXTERIOR RECEPTALS			
0.8		20/1						0.6		EXTERIOR RECEPTALS			
0.8		20/1					0.4			EXTERIOR RECEPTALS			
0.8		20/1								SPARE			
0.8		20/1								SPARE			
0.8		20/1								SPARE			
1.0		20/1								SPARE			
0.8		20/1								SPARE			
0.8		20/1								SPARE			
0.3		20/1								SPARE			
0.3		20/1								SPARE			
0.0		20/1								SPARE			
0.0		20/1								SPARE			
5.8	3.2		0.0	0.0	0.0	0.0	0.0	2.8	0.0	CONNECTED KVA			
6.3	26.6									AMPERES/PHASE			

This circuit breaker to have pad lockable device.

This shall be a GF type circuit breaker.

Provide 24H time clock and photo cell.

Provide 24H time clock and photo cell.

Not used.

Not used.

PANELBOARD "EV1" SCHEDULE																															
VOLTAGE: 208/120V BUS SIZE: 400A										3 PH 4 Wire				MNN		---		MLO		MOUNTING:		SURFACE		REMARKS:							
LOAD (KVA)										TOTAL LOAD				FAULT DUTY / SEE RISER LOAD (KVA)													Provide copper ground bus				
CKT NO	DESCRIPTION	CONT	REC	MTR	AC	HTG	MISC	CKT	BKR	PHASE						KIT	MISC	HTG	AC	MTR	REC	CONT	DESCRIPTION	CKT NO							
										A	B	C	BKR																		
1	FUTURE EV CHARGER	3.8							40/2	7.6			40/2									3.8	FUTURE EV CHARGER	2							
3		3.8									7.6											3.8		4							
5	FUTURE EV CHARGER	3.8							40/2			7.6	40/2									3.8	FUTURE EV CHARGER	8							
7		3.8								7.6												3.8		10							
9	SPARE								20/1	0.0		0.0	20/1										SPARE	12							
11	SPARE								20/1				20/1										SPARE	14							
13	SPARE								20/1	0.0													SPARE	16							
15	SPARE								20/1		0.0												SPARE	18							
17	SPARE								20/1			0.0	20/1										SPARE	20							
19	SPARE								20/1	0.0			20/1										SPARE	22							
21	SPARE								20/1		0.0												SPARE	24							
23	SPARE								20/1			0.0	20/1										SPARE	26							
25	SPARE								20/1	0.0													SPARE	28							
27	SPARE								20/1		0.0												SPARE	30							
29	SPARE								20/1			0.0	20/1										SPARE	32							
31	SPARE								20/1	0.0													SPARE	34							
33	SPARE								20/1		0.0		20/1										SPARE	36							
35	SPARE								20/1			0.0	20/1										SPARE	38							
37	SPARE								20/1	0.0													SPARE	40							
39	SPARE								20/1		0.0		20/1										SPARE	42							
41	SPARE								20/1			0.0	20/1										SPARE								
CONNECTED KVA		15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2	7.6	7.6		0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2	CONNECTED KVA									
AMPERES/PHASE										126.1				63.3								AMPERES/PHASE									
T O T A L S	Continuous:	30.4	X 125% =				38.0																NOTES:								
	Receptacles:	0.0	NEC 220.41				0.0																1) This circuit breaker to have per lockable device.								
	Motors:	0.0	NEC 220.18(a)				0.0																2) This shall be a GFI type circuit breaker.								
	Largest Motor:	0.0	NEC 430.24				0.0																3) Provide short trip type circuit breaker.								
	LAC:	0.0	X 100% =				0.0																4) Per NEC 220.124 (E) Each multi-wire branch circuit shall be provided with a means that will simultaneously disconnect all ungrounded conductors at the point where the branch circuit originates. This means that any circuit that shares a neutral shall be disconnected by a common means. Utilize 2-pole, 3-pole, or wire-tied circuit breakers where necessary.								
	Heating:	0.0	X 100% =				0.0																								
	Miscellaneous:	0.0	X 100% =				0.0																								
	Kitchen:	0.0	NEC 220.56				0.0																								
	Not Used:	--	Not Used				--																5) Demand load for guest room 1/3recept calculated by area per 2023 NEC Table 220.12, 220.14(J), & Table 220.42								
	Not Used:	--	Not Used				--																6) Diversity in accordance with 2023 NEC Table 220.84 0 Units @ 100%.								
CONNECTED KVA		30.4					38.0																7) Not used.								
TOTAL AMPS		84.5					105.6																8) Not used.								
																							9) Not used.								

IP1A1 SCHEDULE											REMARKS:	
M.O		MOUNTING				SURFACE						
KVA		FAULT DUTY				SEE RISER		Provide copper ground bus				
BASE	C	BKR	LOAD (KVA)						DESCRIPTION	CKT NO		
			KIT	MSC	HTC	AC	MIR	REC			CONT	
6	20/1							0.6		CORRIDOR RECEPTACLES		
1.6	20/1							0.6		CORRIDOR RECEPTACLES	6	
20/1								0.4		MENS ROOM RECS	8	
0.2	20/1							0.4		WOMENS ROOM RECS	10	
20/1								1.2		POOL ROOM REC	12	
20/1								0.0		EXTERIOR RECEPTACLES	14	
1.2	20/1							1.0		EXTERIOR RECEPTACLES	16	
20/1								1.0		EXTERIOR RECEPTACLES	18	
20/1										SPARE	20	
20/1										SPARE	22	
2.2	20/2			1.4						DFC-1.1	24	
				1.4							26	
2.2	20/2			1.4						DFC-1.2	28	
						3.0					30	
	50/2					3.0				DHP-2.0	32	
2.1	30/2			1.5						ERW-3.0	36	
				1.5							38	
10.0	60/2			5.0						WH-2 (1)	40	
				5.0							42	
0	0.5											
1.1	20.0		0.0	0.0	18.6	6.0	0.0	5.8	0.0	CONNECTED KVA		
0.7	241.5									AMPERES/PHASE		

NOTES:

1. Circuit breaker to have pad lockable device.
2. Provide a GFI type circuit breaker.
3. Provide small trip type circuit breaker.
4. NEC 2023, 210.4 Each multi-wire branch circuit shall be provided with a means that will simultaneously disconnect all ungrounded conductors at the point where the branch circuit originates. This means that any circuit that shares a neutral will be disconnected by a ground means. Utilize 2-pole, 3-pole, or wire-tied circuit breakers where necessary.
5. Demand load for guest room I_{pR} Receptacles calculated by area per 2023 NEC Table 220.12, 220.14(j), & Table 220.42.
6. Vary in accordance with 2023 NEC Table 220.64, 0 Units @ 100%.

provide 24Hr time and photobolt.

used

LOAD CENTER C2 HC SCHEDULE											
VOLTAGE	208/120	1 Ph	3 Wire	MAIN: 125A	MLO	MOUNTING	FLUSH	REMARKS	Provide		
BUS SIZE	125	AMP		TOTAL LOAD	(2)	KVA	FAULT DUTY	See note	copper ground bus		
CKT NO.	DESCRIPTION	LOAD(KVA)	BKR	A	B	BKR	LOAD(KVA)	DESCRIPTION	CKT NO.		
1	Refrigerator (7)	1.2	20/1	3/5		25/2	2.3	WH-1	2		
3	Bathroom	1.2	20/1	3/5		25/2	2.3	"(B)	4		
5	Appliance (7)	1.5	20/1	4/3		50/2	2.8	FCU-B	6		
7	Appliance (7)	1.5	20/1	4/3		50/2	2.8	"(I)	8		
9	Clothes Washer (7)	1.5	20/1	2/9		20/2	1.4	HP-B	10		
11	Lg/Rec (5)	1.0	15/1			20/2	1.4	"(I)	12		
13	Lg/Rec (5)	1.0	15/1	5/0		50/2	4.0	Range(4)	14		
15	Disposal (7)	0.5	15/2		4/5	4/0	4.0	"	16		
17	Dishwasher (7)	0.7		1/7		20/1	1.0	Microwave/Hood (7)	18		
19	Lg/Rec (5)	1.0	15/1	3/5		30/2	2.5	Dryer(4)	20		
21	Lg/Rec (5)	1.0	15/1	3/5		30/2	2.5	"	22		
23	Bathroom	1.2	20/1	1/4		20/1	0.2	Hwp-1	24		
(1) Provide HACR type breaker for outdoor HVAC equipment. (2) See Load Center calculations below. (3) Short Trip Breaker. (4) Provide GFI type circuit breaker.											
(5) Provide AFCI circuit breaker per 2020 NEC 210.12(A). Loads to be distributed evenly per 2020 NEC 210.11(B). (6) Provide lock-off breaker for water heater w/ pad lock per 2020 NEC 422.31. (7) Provide AFIO/GFI circuit breaker. Label all receptacles AFIO/GFI protected.											
LOADCENTER "C2 HC" CALCULATION (PER 2020 NEC 220.82)											
LIGHTING AND RECEPTACLE LOAD										1182 SF x 3VA/SF	3,546 VA
TWO 20A APPLIANCE CIRCUITS											3,000 VA
LAUNDRY CIRCUIT											1,500 VA
RANGE											8,000 VA
WATER HEATER											4,500 VA
DISHWASHER											744 VA
CLOTHES DRYER											4,400 VA
DISPOSAL											480 VA
HOOD											300 VA
FURNACE FAN											752 VA
SUBTOTAL											27,222 VA
FIRST 10KVA @ 100%											10,000 VA
40% OF REMAINDER										17,222 VA x 0.4	6,889 VA
SUBTOTAL PER NEC 220.82(B)											16,889 VA
HVAC											
COMPRESSOR											2,800 VA
HEAT											5,600 VA
TOTAL HVAC											8,400 VA
HEAT @65% & COMP @100% PER NEC 220.82(C)											6,440 VA
SUBTOTAL PER NEC 220.82(B)											16,889 VA
HVAC PER NEC 220.82(C)											6,440 VA
TOTAL DEMAND LOAD											23,329 VA
23,329 VA/208V=										112.16 AMPS	125 AMP SERVICE
TOTAL CONNECTED LOAD										35,622 VA	
NUMBER OF 15A LIGHTING/RECEPTACLE BRANCH CIRCUITS											4
FEEDER SIZE:										3#10(AL)&1#2(AL)/G	FOR LOADCENTER WITHIN 120 FEET
										3#20(AL)&1#10(AL)/G	FOR LOADCENTER OVER 120 FEET

LOAD CENTER C1 ALT 1 SCHEDULE											
VOLTAGE	208/120	1Ph	3 Wire	MAIN	125A	MLO	MOUNTING	FLUSH	REMARKS	Provide	
BUS SIZE	125	AMP		TOTAL LOAD	(2)	KVA	FAULT DUTY	See note	copper ground bus		
CKT NO.	DESCRIPTION	LOAD(KVA)	CKT BKR	PHASE A	B	CKT BKR	LOAD(KVA)	DESCRIPTION	CKT NO.		
1	Refrigerator (7)	1.2	20/1	3/5		25/2	2.3	WH-1	2		
3	Bathroom	1.2	20/1	3/5			2.3	""(B)	4		
5	Appliance (7)	1.5	20/1	4/3		50/2	2.8	FCU-B	6		
7	Appliance (7)	1.5	20/1	4/3			2.8	""(I)	8		
9	Clothes Washer (7)	1.5	20/1	2/9		20/2	1.4	HP-B	10		
11	Lg/Rec (5)	1.0	15/1	2/4		20/2	1.4	""(I)	12		
13	Lg/Rec (5)	1.0	15/1	5/0			4.0	Range(4)	14		
15	Disposal (7)	0.5	15/2	4/5		40/2	4.0	""	16		
17	Dishwasher (7)	0.7	15/2	1/7		20/1	1.0	Microwave/Hood (7)	18		
19	Lg/Rec (5)	1.0	15/1	3/5		30/2	2.5	Dryer(4)	20		
21	Lg/Rec (5)	1.0	15/1	3/5		30/2	2.5	""	22		
23	Bathroom	1.2	20/1	1/4		20/1	0.2	Hwp-1	24		
(1) Provide HACR type breaker for outdoor HVAC equipment. (2) See Load Center calculations below. (3) Short Trip Breaker (4) Provide GFI type circuit breaker. (5) Provide AFCI circuit breaker per 2020 NEC 210.12(A). Loads to be distributed evenly per 2020 NEC 210.11(B). (6) Provide lock-off breaker for water heater w/ pad lock per 2020 NEC 422.31 (7) Provide AFIO/GFI circuit breaker. Label all receptacles AFIO/GFI protected.											
LOADCENTER "C1 ALT 1" CALCULATION (PER 2020 NEC 220.82)											
LIGHTING AND RECEPTACLE LOAD						1182 SF x 3VA/SF	3,546 VA				
TWO 20A APPLIANCE CIRCUITS							3,000 VA				
LAUNDRY CIRCUIT							1,500 VA				
RANGE							8,000 VA				
WATER HEATER							4,500 VA				
DISHWASHER							744 VA				
CLOTHES DRYER							4,400 VA				
DISPOSAL							480 VA				
HOOD							300 VA				
FURNACE FAN							752 VA				
SUBTOTAL							27,222 VA				
FIRST 10KVA @ 100%							10,000 VA				
40% OF REMAINDER						17,222 VA x 0.4	6,889 VA				
SUBTOTAL PER NEC 220.82(B)							16,889 VA				
HVAC											
COMPRESSOR							2,800 VA				
HEAT							5,600 VA				
TOTAL HVAC							8,400 VA				
HEAT @65% & COMP @100% PER NEC 220.82(C)							6,440 VA				
SUBTOTAL PER NEC 220.82(B)							16,889 VA				
HVAC PER NEC 220.82(C)							6,440 VA				
TOTAL DEMAND LOAD							23,329 VA				
23,329 VA/208V=						112.16 AMPS	125 AMP SERVICE				
TOTAL CONNECTED LOAD						35,622 VA					
NUMBER OF 15A LIGHTING/RECEPTACLE BRANCH CIRCUITS 4											
FEEDER SIZE 3#2/AL+1#14/AL/G FOR LOADCENTER WITHIN 120 FEET											
3#2/AL+1#14/AL/G FOR LOADCENTER OVER 120 FEET											