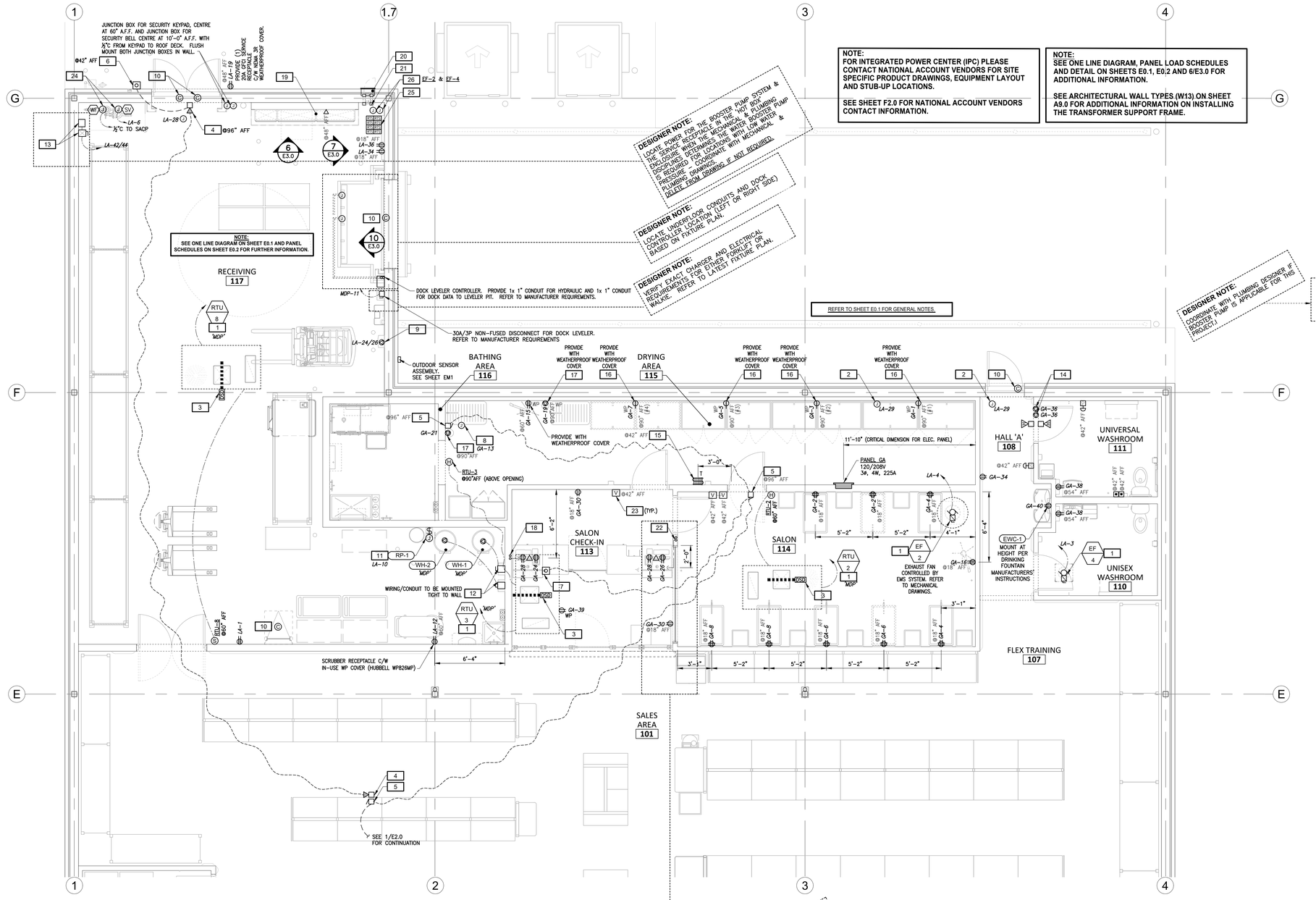
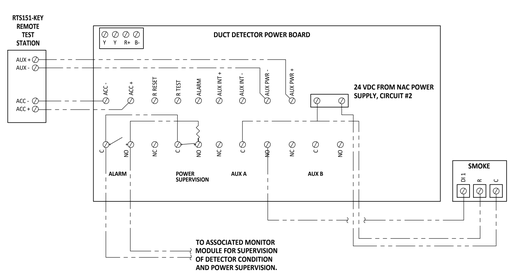


1 E2.1 POWER PLAN - BACK OF STORE AREA

SCALE: 1/4" = 1'-0"

NORTH



2 E2.1 DUCT DETECTOR WIRING DETAIL

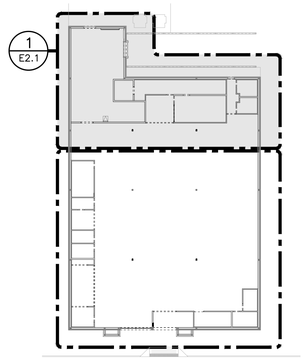
SCALE: NTS

NOTES:

1. DUCT SMOKE DETECTORS SHALL BE POWERED FROM THE FIRE ALARM SYSTEM AND MONITORED BY THE FIRE ALARM CONTROL UNIT (FACU).
2. THE FACU SHALL SUPERVISE ALL POWER CONNECTIONS AND TROUBLE CONDITIONS.
3. LOSS OF POWER TO A DUCT DETECTOR (AHU SUPPLIED POWER) SHALL TRANSMIT A TROUBLE CONDITION TO THE FACU.
4. LOCATE A CONTROL RELAY WITHIN THREE FEET (3') OF THE ASSOCIATED RTU CONTROLLER. PROVIDE ANY REQUIRED WIRING AND CONNECTIONS FOR GLOBAL RTU SHUTDOWN. COORDINATE CONNECTIONS WITH TEMPERATURE CONTROLS, MECHANICAL, ELECTRICAL AND GENERAL CONTRACTORS. THE MODULA SHALL BE WIRED TO THE NORMALLY CLOSED CONTACTS AND PROGRAMMED TO LATCH OPEN UPON ACTIVATION OF ANY DUCT DETECTORS AND REMAIN LATCHED UNTIL DEACTIVATED. UPON ACTIVATION OF ANY DUCT DETECTOR, THE FACU SHALL ACTIVATE RELAYS TO SHUTDOWN ALL RTU'S.
5. REMOTE TEST STATIONS/ANNUNCIATORS SHALL BE PROVIDED FOR EACH DUCT SMOKE DETECTOR. PROVIDE ALL REQUIRED CABLING CONNECTIONS AND CONDUIT FROM DETECTORS TO REMOTE TEST STATIONS/ANNUNCIATORS. MOUNT THE REMOTE TEST STATIONS/ANNUNCIATORS ON AN ADJACENT COLUMN OR WALL, DIRECTLY BELOW THE THERMOSTAT (THERMOSTAT PROVIDED AND INSTALLED BY OTHERS) AND AT AN ACCESSIBLE LOCATION THAT DOES NOT CONFLICT WITH STORE FIXTURES. COORDINATE EXACT MOUNTING LOCATIONS WITH THE OWNER'S REPRESENTATIVE AND THE AHU PRIOR TO INSTALLATION.
6. SEE MECHANICAL PLANS FOR ADDITIONAL WIRING DETAILS.

ELECTRICAL KEY NOTES:

#	
1	RTU'S & EXHAUST FANS: CONDUITS FOR POWER AND ANY CONTROL WIRING TO EQUIPMENT ON THE ROOF MUST BE RUN INSIDE THE ROOF CURB. DO NOT PENETRATE THE ROOF WITH ANY CONDUITS. SEE EQUIPMENT SCHEDULE ON E0.2.
2	EXTERIOR SIGNS: PROVIDE WEATHERPROOF J-BOXES AND CONNECTIONS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH SIGN MANUFACTURER AND PETSMART CONSTRUCTION MANAGER. CONTRACTOR TO PROVIDE AND COORDINATE ACCESS FOR POWER TO SIGN.
3	CONNECT/WIRE DUCT SMOKE DETECTOR IN ROOFTOP UNIT MAIN SUPPLY AIR DUCT TO FIRE ALARM SYSTEM, AND ENSURE PROPER FUNCTION OF RELAY TO SHUTDOWN ROOFTOP UNIT.
4	DOOR HORN: PROVIDE HORN. CEILING MOUNT TO BOTTOM CHORD OF JOIST IN SALES AREA. WALL MOUNT OTHER AREAS AT HEIGHT INDICATED ON DRAWINGS. VERIFY LOCATION WITH PETSMART. CONNECT TO REAR PUSHBUTTON AS SHOWN ON DRAWINGS (SEE KEY NOTE 6).
5	DOOR BUZZER: PROVIDE BUZZER, CEILING MOUNT TO BOTTOM CHORD OF JOIST IN SALES AREA. WALL MOUNT OTHER AREAS AT HEIGHT INDICATED ON DRAWINGS. VERIFY LOCATION WITH PETSMART. CONNECT TO FRONT PUSHBUTTON AS SHOWN ON DRAWINGS.
6	(EXTERIOR) DOOR PUSH-BUTTON: PROVIDE PUSH-BUTTON. CONNECT TO APPROPRIATE BUZZERS OR HORNS AS SHOWN ON DRAWINGS (SEE KEY NOTES 4 AND 5). PROVIDE LAMACOID LABEL ABOVE BUTTON, "PETSMART".
7	INSTALL NEW PUSHBUTTON SURFACE MOUNTED ON TOP OF MILLWORK COUNTER, LOCATED IN FRONT CORNER ADJACENT TO CASH DESK. BUTTON PROVIDED BY NATIONAL MILLWORK VENDOR. CONNECT TO APPROPRIATE BUZZERS OR HORNS AS SHOWN ON DRAWINGS (SEE KEY NOTES 4 & 5).
8	LOW VOLTAGE TRANSFORMER: EDWARDS EDW592 LOW VOLTAGE (12V) TRANSFORMER FOR DOOR BUZZER. LOCATE ABOVE CEILING.
9	BATTERY CHARGER: SEE DETAIL 8/E3.0.
10	DOOR SECURITY: SEE DETAIL 5/E3.0.
11	RECIRCULATING PUMP (RP-1): PROVIDE TOGGLE DISCONNECT SWITCH FOR PUMP. LABEL SWITCH "PUMP". WALL MOUNT SWITCH ADJACENT TO PUMP. COORDINATE WORK WITH MECHANICAL CONTRACTOR.
12	WATER HEATER DISCONNECTS: PROVIDE 30A/2P DISCONNECTS AND ¾" FLEXIBLE SEAL TIGHT CONNECTIONS TO WATER HEATER.
13	DOMESTIC WATER BOOSTER PUMP: PROVIDE A RATED WALL SWITCH AND ALL FINAL CONNECTIONS TO BOOSTER PUMP SYSTEM. PROVIDE ALL EQUIPMENT NECESSARY TO COMPLETE INSTALLATION PER MANUFACTURER'S SPECIFICATIONS. THE BOOSTER PUMP SYSTEM IS FACTORY WIRED INCLUDING (1) 2HP, 208V, 1ø MOTOR. COORDINATE WITH PLUMBING CONTRACTOR AND DRAWINGS. FED FROM PANEL 'LA'.
14	DOOR OPERATOR: PROVIDE AND INSTALL 120V POWER CONNECTION TO DOOR OPERATOR AND EMERGENCY CALL SYSTEM. PROVIDE ¾" EMT CONDUIT AND BACK BOXES FOR ALL DOOR OPERATOR PUSHBUTTONS, DOOR LOCK BUTTON, ELECTRIC STRIKE, EMERGENCY CALL BUTTON AND SOUNDER HORN/LIGHT. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR ALL LOCATIONS.
15	TIMER SWITCH: SEE DETAIL 9/E3.0.
16	DRYER RECEPTACLE: SEE DETAIL 9/E3.0.
17	MASTER BLASTER DRYER RECEPTACLE: PROVIDE A 30A NEMA L5-30R SINGLE RECEPTACLE, COLOUR WHITE, C/W WEATHERPROOF COVER. MOUNT AT HEIGHT INDICATED.
18	PROVIDE 2x 1" RIGID CONDUITS DOWN IN WALL TO 2" AFF TO LOCATIONS OF POWER AND DATA OUTLETS IN MILLWORK, C/W PULLSTRING.
19	NATIONAL ACCOUNT VENDOR INTEGRATED POWER CENTER (IPC):. REFER TO DETAIL 1/E0.1 (PANELS MDP, LDP, TRANSFORMER T1 AND NATIONAL ACCOUNT EMS VENDOR EQUIPMENT). INTEGRATED POWER CENTER (IPC) SHALL CONTAIN ALL EQUIPMENT AS INDICATED PER THE ONE LINE DIAGRAM. ALL EQUIPMENT SHALL BE FACTORY WIRED AS INDICATED. PROVIDE 4" CONCRETE HOUSEKEEPING PAD, REFER TO ARCHITECTURAL.
20	MOBILE GENERATOR ACCESS BOX, NEMA 4, 12"x12"x6" FLUSH MOUNT ENCLOSURE W/ (2) PADLOCKING HANDLES, HOFFMAN #CFM12126LG (QTY 1) & #CWHPTO (QTY 2). IF SPACE IS UNAVAILABLE BETWEEN INTEGRATED POWER CENTER (IPC) AND DOCK DOOR, LOCATE ACCESS BOX IN OPEN AREA ABOVE THE RIGHT SIDE OF INTEGRATED POWER CENTER (IPC). COORDINATE EXACT LOCATION WITH PETSMART. ACCESS BOX SUPPLIED BY NATIONAL ACCOUNT VENDOR, SEE DETAIL 11/E3.0.
21	4" CHASE NIPPLES C/W INSIDE CAPS AND LOCKNUTS INSULATED BUSHINGS, (TYP 2 EA.)
22	PROVIDE 2x 1" RIGID CONDUITS DOWN IN WALL TO 2" AFF AND ACROSS IN WALL BELOW WINDOW (APPROX. 2'-0" FROM WINDOW FRAME) TO LOCATIONS OF POWER AND DATA OUTLETS IN MILLWORK, C/W PULLSTRING.
23	VOLUME CONTROL BY OTHERS. ELECTRICAL CONTRACTOR TO ROUGH-IN BOX AT 42" A.F.F. (U.N.O.), TYPICAL.
24	APPROXIMATE LOCATION OF SPRINKLER VALVE AREA FOR PETSMART SPACE. PROVIDE FLOW SWITCH AND SUPERVISORY FIRE ALARM CONNECTIONS TO SPRINKLER VALVE.
25	WIRE REMOTE DUCT SMOKE TEST STATIONS TO LOCATION ON PHONE BOARD, REFER TO ELEVATION 7/E3.0 AN DETAIL 2/E2.1.
26	J-BOX FOR RELAY SERVING EXHAUST FANS: PROVIDE 8"x8"x4" J-BOX ON WALL @80" A.F.F FOR EXHAUST FAN CONTROL RELAY. SEE 2/EM2 FOR WIRING. LABEL CIRCUIT NUMBER AND EXHAUST FAN NUMBER ON BOX COVER.



KEY PLAN

1/32" = 1'-0"

CLIENT:

PETSMART

19601 North 27th Avenue
Phoenix, Arizona 85027 - (623) 580-6100

CLIENT REF #: 1234

PROJECT:

14K 2025 CANADIAN INSTRUCTION SET

FEBRUARY 12, 2025

CONSULTANT:

ARCHITECT:

SEAL:

CITY SEAL:

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THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR:

NUMBER	ISSUE	DATE

PROJECT NO: CA0045686.0146

DATE: 02.12.25

ORIGINAL SCALE: AS NOTED

IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE. 1"

DESIGNED BY:

DRAWN BY:

CHECKED BY:

PAGE #: 50 OF: 53

DISCIPLINE: ELECTRICAL

TITLE:

ENLARGED POWER FLOOR PLAN

SHEET NUMBER:

E2.1