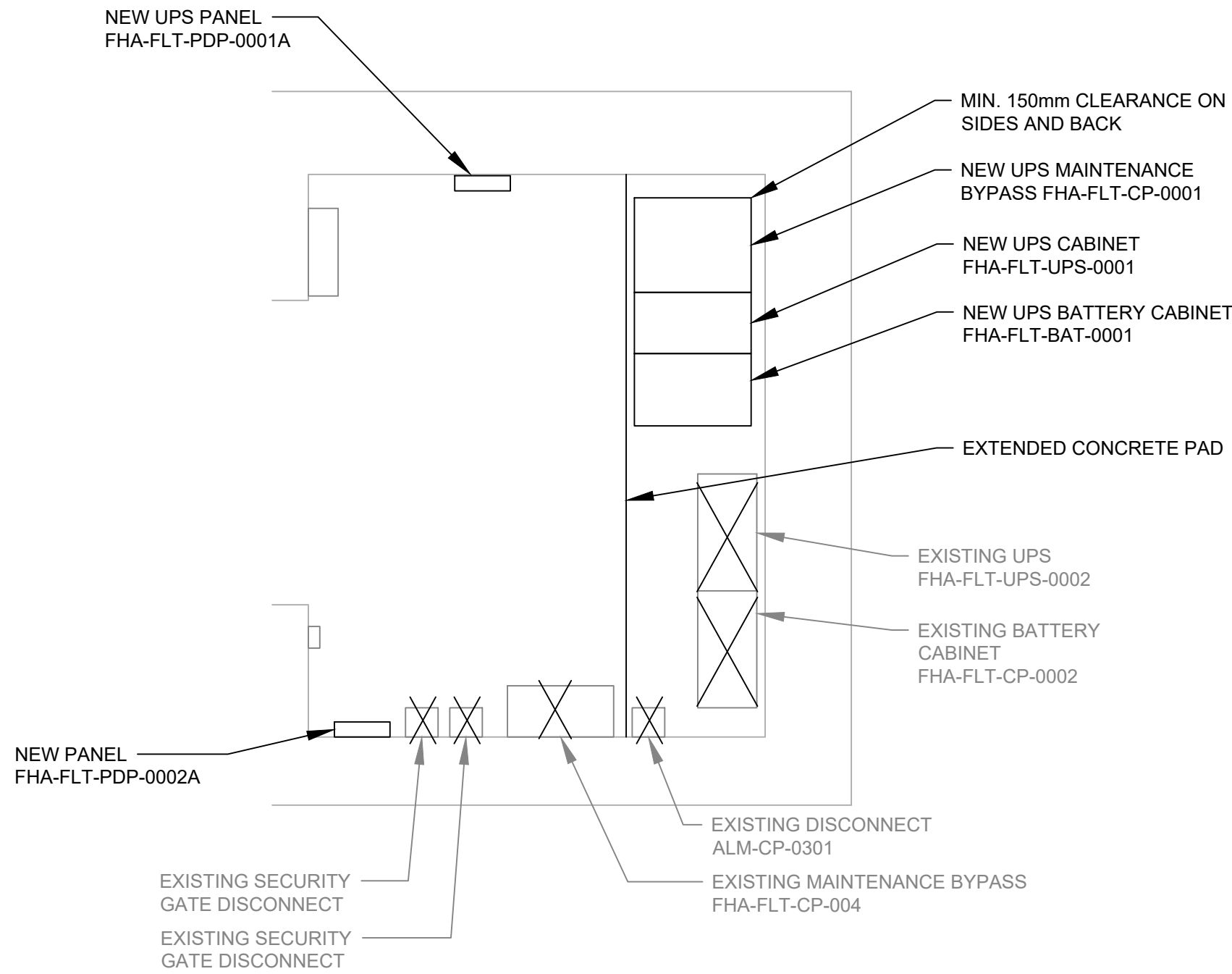


STAGE 1:

- PROVIDE ONE NEW 600V, 225A/3P/4W PANEL FHA-FLT-DPU-0002A ON SOUTH WALL. C/W ONE (1) 150A/3P MAIN BREAKER, (1) -100A/3P, (2) - 15A/3P AND (1) - 15A/3P.
- TIE NEW PANEL FHA-FLT-PDP-0002A INTO EXISTING FHA-FLT-UPS-0002 BYPASS FHA-FLT-CP-0004 OUTPUT. TRANSFER EXISTING OUTPUT CONNECTIONS FROM EXISTING FHA-FLT-UPS-0001 BYPASS FHA-FLT-CP-0003 TO NEW PANEL FHA-FLT-PDP-0002A, WHICH INCLUDES: FHA-FLT-PDP-0001 (PIPE GALLERY WEST), ALM-CP-0101, ALM-CP-0201, THICKENER 1 - 4 RAKE, EXTEND EXISTING CABLES/CONDUITS WHERE REQUIRED TO SUIT.
- DISCONNECT UPS FHA-FLT-UPS-0001 SCADA MONITORING AND FILTER VALVE CONTROL CONNECTIONS .
- DISCONNECT, REMOVE AND DISPOSE EXISTING UPS CABINET FHA-FLT-UPS-0001, BATTERY CABINET FHA-FLT-CP-0001, BYPASS FHA-FLT-CP-0003.  
  
DISCONNECT, REMOVE AND HANDOVER BACK TO CLIENT (3) EXISTING WALL DISCONNECT SWITCHES.
- COORDINATE WITH PLANT FOR POWER SHUT DOWN REQUIREMENT. UPS LOAD ON FHA-FLT-PDP-0001 (PIPE GALLERY WEST) AND FHA-FLT-PDP-0002 (PIPE GALLERY EAST) FOR FILTER VALVES WILL BE ADJUSTED DOWN TO 50% BY PLANT PRIOR TO STAGING.

ELECTRICAL FLOOR PLAN - STAGE 1  
SERVICE BUILDING BASEMENT (EL.75.59)  
SCALE: 1:50

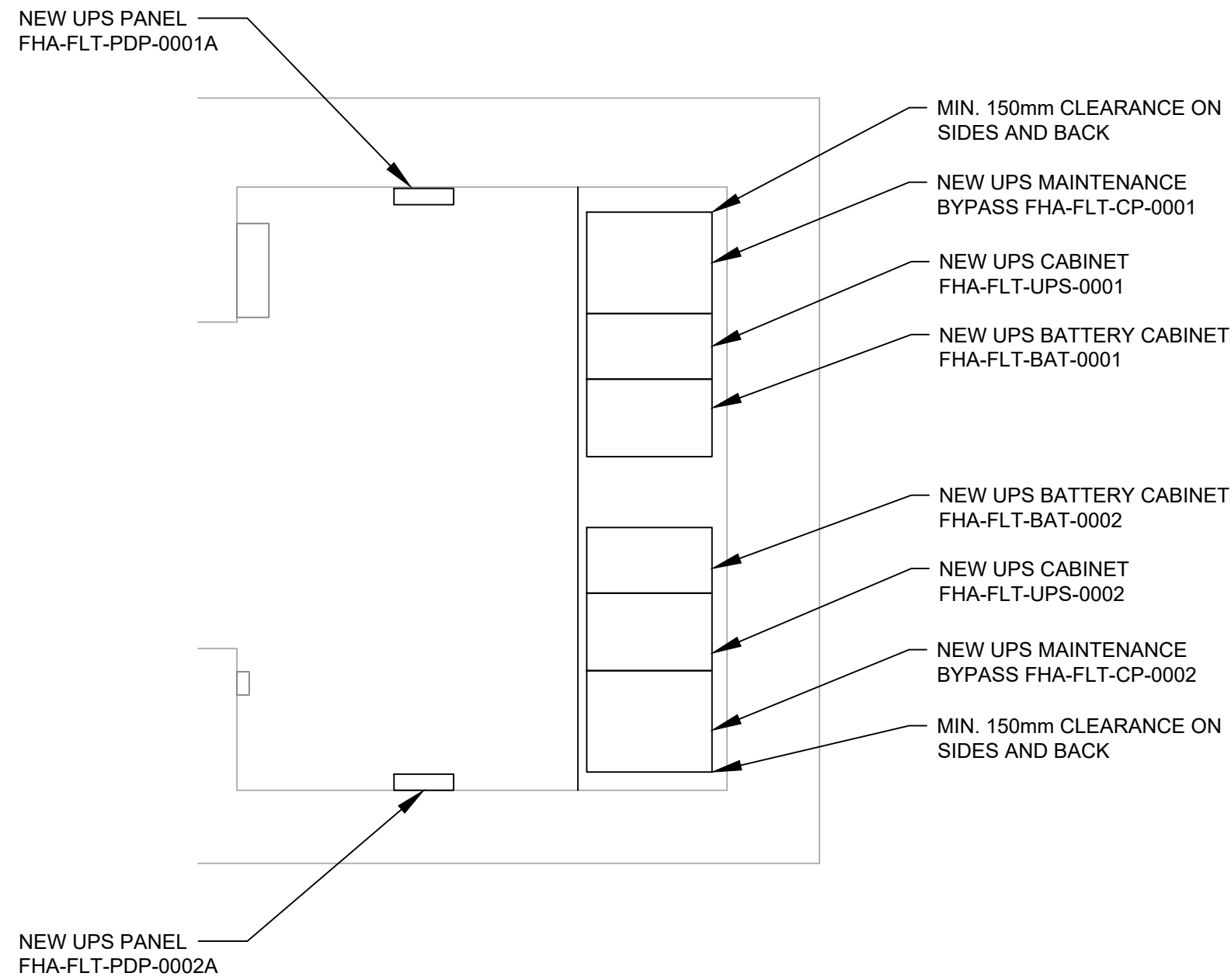


STAGE 2:

- EXTEND EXISTING HOUSE-KEEPING CONCRETE PAD TO ACCOMMODATE NEW UPS CABINET DIMENSIONS.
- INSTALL NEW UPS SYSTEM #1 WHICH INCLUDES: UPS CABINET FHA-FLT-UPS-0001, BATTERY CABINET FHA-FLT-BAT-0001, BYPASS FHA-FLT-CP-00013. EXTEND EXISTING UPS FHA-FLT-UPS-0001 FEEDER CABLE VIA TERMINAL JUNCTION BOX TO ACCOMMODATE NEW UPS BYPASS LOCATION.
- RE-CONNECT AND UPGRADE UPS FHA-FLT-UPS-0001 SCADA MONITORING AND FILTER VALVE CONTROL CONNECTIONS.
- PROVIDE UPS PROGRAMMING, COMMISSIONING AND SAT (SITE ACCEPTANCE TEST).
- PROVIDE ONE NEW 600V, 225A/3P/4W PANEL FHA-FLT-PDP-0001A ON NORTH WALL, FED FROM NEW UPS BYPASS FHA-FLT-CP-0001. PANEL C/W ONE (1) 150A/3P MAIN BREAKER, (1) -100A/3P, (1)-15A/3P AND (2) -30A/3P .
- TRANSFER EXISTING OUTPUT CONNECTIONS FROM EXISTING FHA-FLT-UPS-0002 BYPASS FHA-FLT-CP-004 TO NEW PANEL FHA-FLT-DPU-0001, WHICH INCLUDE: FHA-FLT-PDP-0002 (PIPE GALLERY EAST), ALM-CP-0301, SECURITY GATE #1, SECURITY GATE #2, EXTEND EXISTING CABLES/CONDUITS WHERE REQUIRED TO SUIT.
- TRANSFER ALL LOAD CONNECTIONS (ORIGINALLY ON EXISTING FHA-FLT-UPS-0001) FROM PANEL FHA-FLT-PDP-0002A BACK TO NEW PANEL FHA-FLT-PDP-0001A C/W ASSOCIATED BREAKERS, WHICH INCLUDES: FHA-FLT-PDP-0001 (PIPE GALLERY WEST), ALM-CP-0101, ALM-CP-0201, THICKENER 1 - 4 RAKE.
- DISCONNECT UPS FHA-FLT-UPS-0002 SCADA MONITORING AND FILTER VALVE CONTROL CONNECTIONS.
- DISCONNECT, REMOVE AND DISPOSE EXISTING UPS CABINET FHA-FLT-UPS-0002, BATTERY CABINET FHA-FLT-CP-0002, BYPASS FHA-FLT-CP-0004.  
  
DISCONNECT, REMOVE AND HANDOVER BACK TO CLIENT (3) EXISTING WALL DISCONNECT SWITCHES.
- COORDINATE WITH PLANT FOR POWER SHUT DOWN REQUIREMENT. UPS LOAD ON FHA-FLT-PDP-0001 (PIPE GALLERY WEST) AND FHA-FLT-PDP-0002 (PIPE GALLERY EAST) FOR FILER VALVES WILL REMAIN AT 50% DURING STAGING WINDOW.

ELECTRICAL FLOOR PLAN - STAGE 2  
SERVICE BUILDING BASEMENT (EL.75.59)  
SCALE: 1:50

THE UPS LAYOUT IS BASED ON EATON 93PM SYSTEM AS BASE DESIGN.  
OTHER UPS VENDER OPTIONS TO PROVIDE COMPATIBLE CONFIGURATION  
WITH SIMILAR FOOTPRINT TO BE ABLE TO FIT INTO EXISTING SPACE, INCLUDE  
COST FOR ANY MODIFICATION REQUIRED

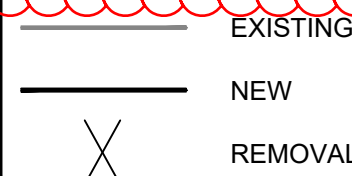


STAGE 3:

- INSTALL NEW UPS SYSTEM #2 WHICH INCLUDES: UPS CABINET FHA-FLT-UPS-0002, BATTERY CABINET FHA-FLT-BAT-0002, BYPASS FHA-FLT-CP-0002. EXTEND EXISTING UPS FHA-FLT-UPS-0002 FEEDER CABLE TO ACCOMMODATE NEW UPS BYPASS LOCATION.
- RE-CONNECT AND UPGRADE UPS FHA-FLT-UPS-0002 SCADA MONITORING AND FILTER VALVE CONTROL CONNECTIONS.
- PROVIDE UPS PROGRAMMING, COMMISSIONING AND SAT (SITE ACCEPTANCE TEST).
- RELOCATE PANEL FHA-FLT-PDP-0002A TO MIRROR THE LOCATION OF PANEL FHA-FLT-PDP-0001A, FEED PANEL FROM NEW UPS BYPASS FHA-FLT-CP-0002.
- TRANSFER FOLLOWING LOAD CONNECTIONS (ORIGINALLY ON EXISTING FHA-FLT-UPS-0002) FROM PANEL FHA-FLT-PDP-0001A BACK TO PANEL FHA-FLT-PDP-0002A, WHICH INCLUDES: FHA-FLT-PDP-0002 (PIPE GALLERY EAST), ALM-CP-0301, SECURITY GATE #1, SECURITY GATE #2, EXTEND EXISTING CABLES/CONDUITS WHERE REQUIRED.
- COORDINATE WITH PLANT FOR ANY POWER SHUT DOWN REQUIREMENT. UPS LOAD ON FHA-FLT-PDP-0001 (PIPE GALLERY WEST) AND FHA-FLT-PDP-0002 (PIPE GALLERY EAST) FOR FILTER VALVES WILL BE ADJUSTED BACK TO 100% BY PLANT AFTER STAGING.

ELECTRICAL FLOOR PLAN - STAGE 3  
SERVICE BUILDING BASEMENT (EL.75.59)  
SCALE: 1:50

NEW SHEET



								TORONTO WATER ENGINEERING AND CONSTRUCTION SERVICES				R.C. HARRIS WATER TREATMENT PLANT INSTALLATION OF A STANDBY GENERATOR FOR CRITICAL LOADS ELECTRICAL FLOOR PLAN - SERVICE BUILDING BASEMENT - STANGING PLAN					
 100-175 GALAXY BOULEVARD TORONTO, ONTARIO, M9W 0C9 TEL 416 679 1930 FAX 416 675 4620 www.arcadis.com	COPYRIGHT: <small>This drawing has been prepared solely for the intended use. Thus any reproduction or distribution for any purpose other than authorized by ARCADIS is forbidden. Written dimensions shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job, and ARCADIS shall be informed of any variations from the dimensions and conditions shown on the drawing. Shop drawings shall be submitted to IRI Group for general conformance before proceeding with fabrication.</small>								WILLIAM FERNANDES, P.ENG DIRECTOR WATER TREATMENT AND SUPPLY	SIMON HOPTON, P. ENG. DIRECTOR DESIGN & CONSTRUCTION MAJOR INFRASTRUCTURE	ELECTRICAL						
											DESIGN:	SC	DRAFTING:	SC	CHECK:	TS	CONTRACT No. 25ECS-MI-03HA
	B	2025-06-10	ISSUED FOR ADDENDUM #1				T.S.					SCALE:	1:50		DRAWING NUMBER:	2F-2017-08-72A	E211A
	A	2025-03-18	ISSUED FOR TENDER				T.S.					DATE:	2024-09-30				
		NO.	DATE	REVISIONS			INITIAL	SIGNED									