

- GENERAL NOTES:
- ALL SHOWN EQUIPMENT IS EXISTING TO REMAIN UNLESS SHOWN OTHERWISE.
 - FOR EQUIPMENT TO BE DEMOLISHED: ALL EXISTING CONDUIT AND WIRING SHALL BE REMOVED BACK TO SOURCE OR AS INDICATED.

- KEYNOTES:
- EXISTING CHILLER OIL PUMP AND CONTROLLER EQUIPMENT TO BE DEMOLISHED BY MECHANICAL CONTRACTOR. DISCONNECT AND REMOVE WIRING AND CONDUIT BACK TO EXISTING CHILLER STARTER.
 - EXISTING CHILLER STARTER TO BE DEMOLISHED. DISCONNECT AND REMOVE WIRING AND CONDUIT BACK TO SWITCHBOARD "MDPC".
 - EXISTING UNIT HEATER TO BE DEMOLISHED BY MECHANICAL CONTRACTOR. DISCONNECT AND REMOVE CONDUIT AND WIRING BACK TO PANEL "CP".
 - EXISTING CHEMICAL FEEDER EQUIPMENT TO BE REMOVED BY MECHANICAL CONTRACTOR. DISCONNECT AND REMOVE ASSOCIATED POWER CONDUIT AND WIRING BACK TO PANEL "CPL".
 - EXISTING PUMP MOTOR TO BE DEMOLISHED BY MECHANICAL CONTRACTOR. DISCONNECT AND REMOVE ASSOCIATED STARTER, WIRING AND CONDUIT BACK TO MCC CHP-A06.
 - EXISTING COOLING TOWER FAN VFD TO BE DISCONNECTED AND REMOVED (CURRENTLY USED AS FEED-THROUGH FOR COOLING TOWER FAN WIRING. REROUTE AND RECONNECT WIRING TO ASSOCIATED MCC CHP-A06 CIRCUIT.
 - EXISTING PANEL "CPL" TO BE DEMOLISHED. PRESERVE EXISTING CIRCUITS FOR RECONNECTION TO NEW PANEL IN THE SAME LOCATION.

1 ELECTRICAL PLAN - DEMOLITION
CWP A6-E-100
SCALE: 1/4" = 1'-0"

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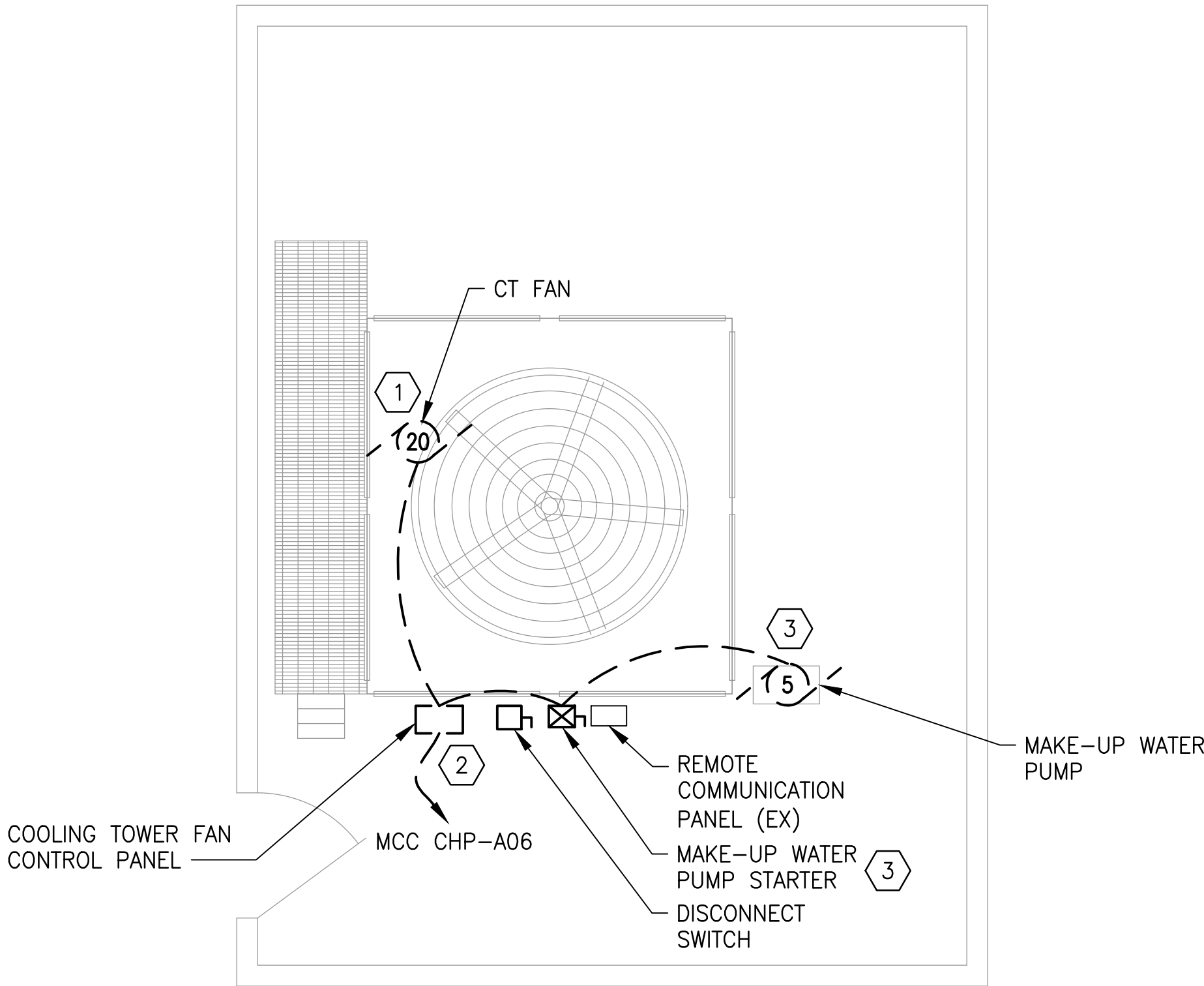
State of Maryland Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 030273, Expiration Date: 05/18/2018

03/29/2018

<div>DESIGNED <u>R. LAUFER</u> 03/16/18 DATE</div> <div>DRAWN <u>O. FAYEMI</u> 03/16/18 DATE</div> <div>CHECKED <u>D. KHAN</u> 03/23/18 DATE</div>			REFERENCE DRAWINGS		REVISIONS				<div><div><div>M</div><div>metro</div></div><div>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div><div>DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES</div><div>OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM GROUP</div><div><div>APPROVED <u>Mark H. Magnusson</u> 03/2018</div><div>MARK MAGNUSSEN MANAGER, ENV. PLANNING AND COMP</div><div>DATE</div></div><div><div>APPROVED <u>Graham Spiller</u> 03/2018</div><div>GRAHAM SPILLER GFP DEPUTY PROGRAM MANAGER</div><div>DATE</div></div></div>				REPLACEMENT OF CHILLERS AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STATIONS CWPA6 - MEDICAL CENTER (A10) ELECTRICAL PLAN - DEMOLITION				
			NUMBER	TITLE	DATE	NUM	DESCRIPTION	M NO.					CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.	
					03/30/2018	0	FINAL CONTRACT DRAWINGS	M1304	FQ-18102	1/4" = 1'-0"	CWPA6-E-100	67 of 173					

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 - FOR EQUIPMENT TO BE DEMOLISHED:
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- KEYNOTES:
- 1 EXISTING COOLING TOWER FAN MOTOR TO BE REMOVED AND SALVAGED BY MECHANICAL CONTRACTOR. DISCONNECT AND REMOVE WIRING AND CONDUIT BACK TO CONTROL PANEL.
 - 2 EXISTING CONTROL PANEL TO BE DEMOLISHED. DISCONNECT AND PRESERVE WIRING AND CONDUIT.
 - 3 EXISTING MAKE-UP WATER PUMP TO BE REMOVED AND SALVAGED BY MECHANICAL CONTRACTOR. EXISTING STARTER TO BE DEMOLISHED. DISCONNECT AND REMOVE WIRING AND CONDUIT BACK TO CONTROL PANEL.



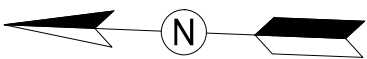
1 ELECTRICAL PLAN - DEMOLITION
CWPA6-E-101

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

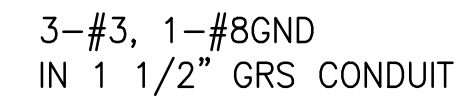


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			REFERENCE DRAWINGS		REVISIONS			<div><div><div></div><div>metro</div></div><div>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div><div>DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES</div><div>OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM GROUP</div><div><div>APPROVED <i>Mark H. Magnusson</i> 03/2018</div><div>MARK MAGNUSSEN MANAGER, ENV. PLANNING AND COMP</div><div>DATE</div><div>APPROVED <i>Graham Spiller</i> 03/2018</div><div>GRAHAM SPILLER GFP DEPUTY PROGRAM MANAGER</div><div>DATE</div></div></div>		REPLACEMENT OF CHILLERS AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STATIONS CWPA6 - MEDICAL CENTER (A10) ELECTRICAL PLAN - DEMOLITION				
DESIGNED	R. LAUFER	03/16/18 DATE	NUMBER	TITLE	DATE	NUM	DESCRIPTION			M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
DRAWN	O. FAYEMI	03/16/18 DATE			03/30/2018	0	FINAL CONTRACT DRAWINGS	M1304	FQ-18102	1/4" = 1'-0"	CWPA6-E-101	68 of 173		
CHECKED	D. KHAN	03/23/18 DATE												



1

CT FAN

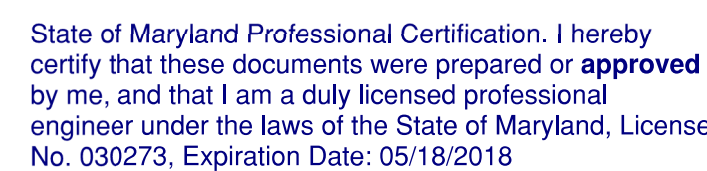
CWPA6-E-103

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

1. SEE DWG. E-602 FOR ONE-LINE DIAGRAM.
2. ALL WIRING FROM VFDs SHALL BE VFD RATED CABLE.

① PROVIDE AND INSTALL VFD; INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. EXTEND WIRING TO RECONNECT TO EXISTING FEEDER FROM MCC CHP-A06 (PREVIOUSLY CONNECTED TO FAN CONTROL PANEL). INSTALL CONDUIT AND WIRING TO NEW CT FAN MOTOR.

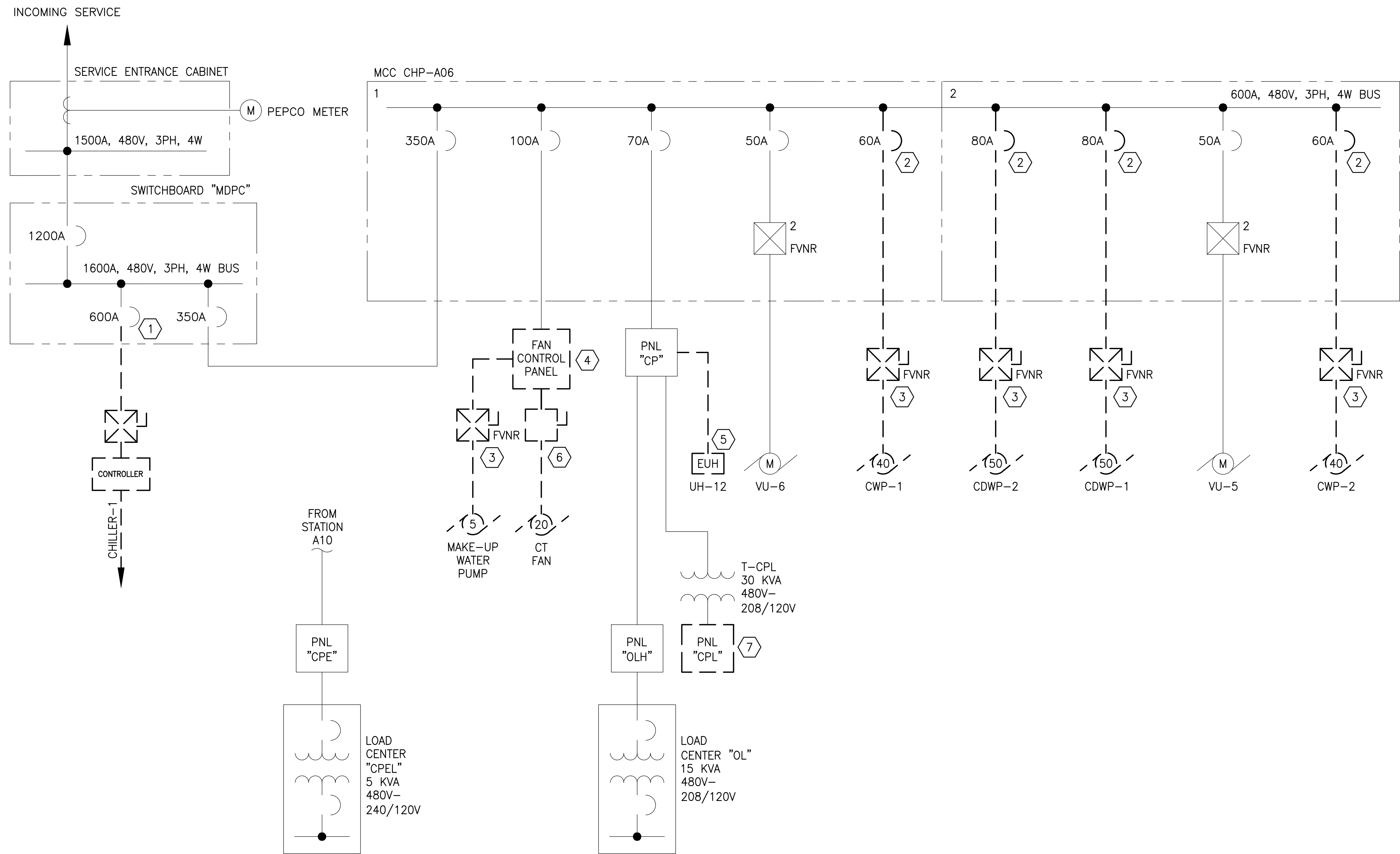
GF P



03/29/2018



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	NUMBER	TITLE	DATE	NUM	DESCRIPTION						
			03/30/2018	0	FINAL CONTRACT DRAWINGS						
<div><div>M NO.</div><div>M1304</div></div> <div><div>CONTRACT NO.</div><div>FQ-18102</div></div> <div><div>SCALE</div><div>1/4" = 1'-0"</div></div> <div><div>DRAWING NO.</div><div>CWPA6-E-103</div></div> <div><div>SHEET NO.</div><div>70 of 173</div></div>											




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 2. FOR EQUIPMENT TO BE DEMOLISHED: ALL EXISTING CONDUIT AND WIRING SHALL BE REMOVED BACK TO SOURCE OR AS INDICATED.
 3. PERMISSION TO USE EXISTING CONDUIT (WIRES REMOVED) SHALL BE REQUESTED FROM WMATA ENGINEER.


- KEYNOTES:
- 1 DISCONNECT AND REMOVE FEEDER; BREAKER TO REMAIN.
 - 2 EXISTING CIRCUIT BREAKER TO BE REMOVED.
 - 3 EXISTING STARTER AND ASSOCIATED WIRING TO BE REMOVED.
 - 4 EXISTING CONTROL PANEL TO BE REMOVED. PRESERVE FEEDER AND CONDUIT.
 - 5 EXISTING UNIT HEATER AND ASSOCIATED FEEDER TO BE REMOVED.
 - 6 EXISTING DISCONNECT SWITCH AND ASSOCIATED FEEDER TO BE REMOVED.
 - 7 EXISTING PANELBOARD TO BE DISCONNECTED AND REMOVED. PRESERVE FEEDER AND BRANCH CIRCUITING FOR RECONNECTION TO NEW PANELBOARD IN THE SAME LOCATION.

1 ELECTRICAL SINGLE LINE DIAGRAM - DEMOLITION
CWPA6-E-601

SCALE: NTS

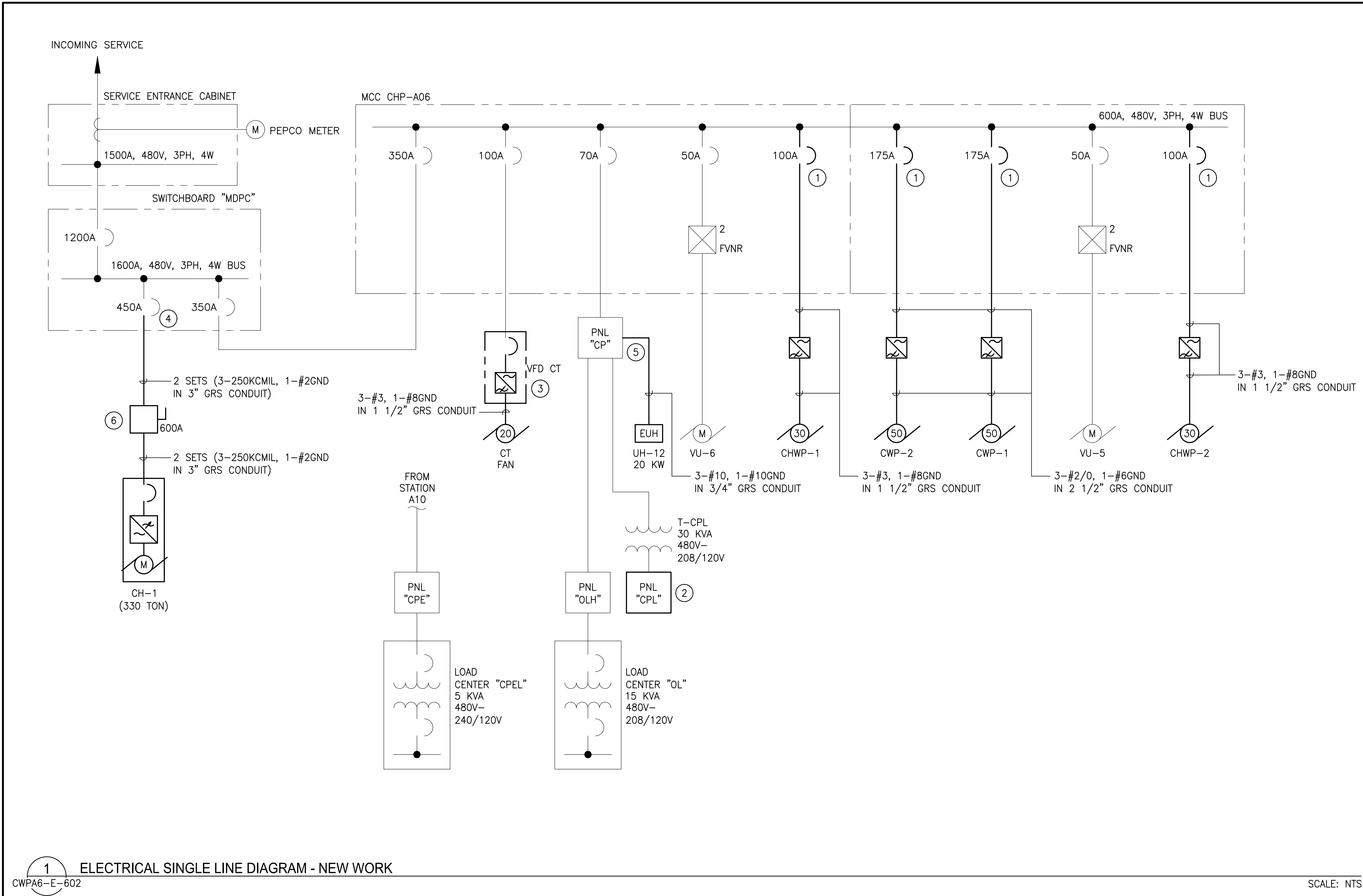


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	NUMBER	TITLE	DATE	NUM	DESCRIPTION						
			03/30/2018	0	FINAL CONTRACT DRAWINGS						
M NO.		CONTRACT NO.	SCALE	DRAWING NO.		SHEET NO.					
M1304		FQ-18102	NTS	CWPA6-E-601		71 of 173					



- GENERAL NOTES:
- ALL CONDUCTORS BETWEEN VFD'S AND ASSOCIATED MOTOR LOADS TO BE VFD-RATED CABLES.
- KEYNOTES:
- INSTALL IN EXISTING SPACE.
 - INSTALL PANEL IN EXISTING LOCATION (REPLACE EXISTING 24 CIRCUIT PANEL WITH 42 CIRCUIT PANEL). REWIRE ALL EXISTING CIRCUITS AS SHOWN ON PANEL SCHEDULE ON DRAWING E-603.
 - INSTALL IN EXISTING CONTROL PANEL LOCATION. EXTEND POWER FEEDER AS NEEDED.
 - WESTINGHOUSE SELTRONIC CIRCUIT BREAKER. REPLACE 600A RATING PLUG WITH 450A. ADJUST TRIPS ACCORDINGLY.
 - REPLACE EXISTING 20A/3P BREAKER #2 (SERVING UNIT HEATER) WITH 30A/3P BREAKER. MATCH EXISTING PANEL DEVICE TYPE AND RATING. PANEL MANUFACTURED BY FPE; BREAKERS BY GENERAL ELECTRIC.
 - 600A/3 POLE NON-FUSED DISCONNECT SWITCH IN NEMA 12 ENCLOSURE.

1 ELECTRICAL SINGLE LINE DIAGRAM - NEW WORK

CWPA6-E-602




SCALE: NTS

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			REFERENCE DRAWINGS		REVISIONS			WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY		REPLACEMENT OF CHILLERS AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STATIONS CWPA6 - MEDICAL CENTER (A10) ELECTRICAL SINGLE LINE DIAGRAM - NEW WORK				
DESIGNED	R. LAUFER	03/16/18	NUMBER	TITLE	DATE	NUM	DESCRIPTION	 DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM GROUP APPROVED  03/2018 MARK MAGNUSSEN MANAGER, ENV. PLANNING AND COMP DATE	 03/2018 GRAHAM SPILLER GFP DEPUTY PROGRAM MANAGER DATE	M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
		DATE			03/30/2018	0	FINAL CONTRACT DRAWINGS			M1304	FQ-18102	1/4" = 1'-0"	CWPA6-E-602	72 of 173
DRAWN	O. FAYEMI	03/16/18												
		DATE												
CHECKED	D. KHAN	03/23/18												
		DATE												

PANEL: CPL																						
MAIN BUS: 100A							MAIN DEVICE: 100A							NEUTRAL BUS: 100%								
208/120 VOLT							3 PHASE, 4 WIRE + GROUND							RMS AIC: 10,000A								
ENCLOSURE: NEMA 1							MOUNTING: SURFACE							LOCATION: CHILLER ROOM								
LOAD DESCRIPTION	LOAD VA	WIRE	RCWY	C/B	CKT	PHASE KVA			CKT	C/B	RCWY	WIRE	LOAD VA	LOAD DESCRIPTION								
		CKT	GND	SIZE	TRIP	PL	NMBR	A	B	C	NMBR	PL	TRIP	SIZE	GND	CKT						
CHEMICAL WATER TREATMENT	1000	—	—	—	20	1	1	1500			2	1	20	—	—	—	500	BALCO DOOR ENTRY				
EF-14	1000	—	—	—	20	1	3		1500		4	1	20	—	—	—	500	LTG CONTROL PNL CONT PWR				
FCU-1	900	12	12	3/4"	20	1	5			1900	6	1	20	—	—	—	1000	LIGHTING-PIPE TUNNEL AND VU				
SUBSTATION RECEPTACLES	600	—	—	—	20	1	7	1100			8	1	20	—	—	—	500	SUBSTATION RECEPTACLES				
SUBSTATION & ENTRY RECEPT.	800	—	—	—	20	1	9		1300		10	1	20	—	—	—	500	SUBSTATION&ENTRY RECEPT.				
CW PLANT RECEPTACLES	800	—	—	—	20	1	11			800	12	1	20	—	—	—	—	SPARE				
REFRIGERANT MONITORING PNL	200	—	—	—	20	1	13	200			14	1	20	—	—	—	—	SPACE				
SUBSTATION RECEPTACLES	500	—	—	—	20	1	15		1500		16	1	20	—	—	—	1000	EF-13				
SUBSTATION RECEPTACLES	500	—	—	—	20	1	17			700	18	1	20	—	—	—	200	VENTILATION CONTROL PANEL				
SUBSTATION RECEPTACLES	500	—	—	—	20	—	19	1500			20	1	20	—	—	—	1000	INVERTER				
AC 95 HEATERS	1000	—	—	—	30	—	21		1500		22	—	20	—	—	—	500	PEPCO METERING				
HX CC RECEPTACLES	2000	—	—	—	30	—	23			4000	24	—	20	—	—	—	2000	AC SWITCHGEAR HEATER				
WATER TREATMENT CONTR PNL	600	12	12	3/4"	20	1	25	3000			26	1	25	3/4"	10	10	2400	WATER HEATER - IWH-1				
CWP/CHP MONITORING SYSTEM	800	12	12	3/4"	20	1	27		1000		28	1	20	3/4"	12	12	200	BIOCIDE FEEDERS				
CHILLER PLANT CONTROL PNL	800	12	12	3/4"	20	1	29			900	30	1	20	3/4"	12	12	100	INHIBITOR FEED PUMP				
SPARE					20	1	31				32	1	20					SPARE				
SPARE					20	1	33				34	1	20					SPARE				
SPARE					20	1	35				36	1	20					SPARE				
SPARE					20	1	37				38	1	20					SPARE				
SPACE					—	—	39				40	—	—					SPACE				
SPACE					—	—	41				42	—	—					SPACE				
								7300	6800	8300												
											CONNECTED LOAD: 22,400 VA											
											DEMAND LOAD: 22,400 VA											

1

ELECTRICAL PANEL "CPL" SCHEDULE - NEW WORK

CWPA6-E-603

SCALE: NTS

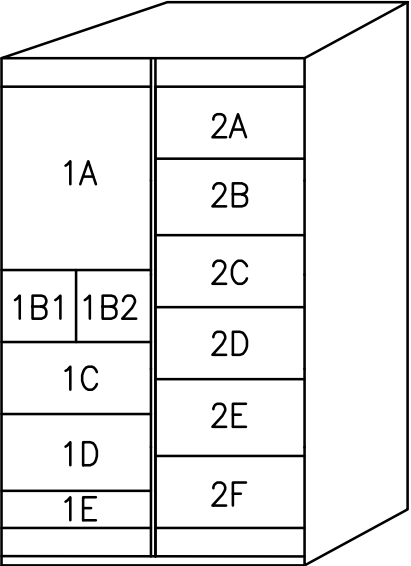
ELECTRICAL EQUIPMENT SCHEDULE		
ITEM	QTY	DESCRIPTION
1	2	MCC BUCKET TO MATCH EXISTING WITH 175AT/250AF BREAKER
2	2	MCC BUCKET TO MATCH EXISTING WITH 100AT/100AF BREAKER
3	1	VFD, 480V, 3PH, 20HP, 60HZ, NEMA 4X ENCLOSURE WITH BYPASS AND FILTERS
4	2	VFD, 480V, 3PH, 30HP, 60HZ, NEMA 4X ENCLOSURE WITH BYPASS AND FILTERS
5	2	VFD, 480V, 3PH, 50HP, 60HZ, NEMA 4X ENCLOSURE WITH BYPASS AND FILTERS
6	1	DISCONNECT SWITCH, 480V, 3PH, 600A, NEMA 12 ENCLOSURE
7	1	PANELBOARD CIRCUIT BREAKER, 30A, 3 POLE
8	1	PANELBOARD, UP TO 100A MCB, 24 CIRCUITS, 1P/20A BRANCH, 208/120V, 3P, 4W
9	LOT	3/4" GRS CONDUIT
10	LOT	1 1/2" GRS CONDUIT
11	LOT	1 1/2" LIQUIDTIGHT FLEXIBLE CONDUIT
12	LOT	2 1/2" GRS CONDUIT
13	LOT	2 1/2" LIQUIDTIGHT FLEXIBLE CONDUIT
14	LOT	3" GRS CONDUIT
15	LOT	3" LIQUIDTIGHT FLEXIBLE CONDUIT
16	LOT	#12 AWG RHW-2 WIRE
17	LOT	#10 AWG RHW-2 WIRE
18	LOT	#8 AWG RHW-2 WIRE
19	LOT	#8 AWG RHW-2 WIRE (VFD RATED)
20	LOT	#6 AWG RHW-2 WIRE
21	LOT	#6 AWG RHW-2 WIRE (VFD RATED)
22	LOT	#3 AWG RHW-2 WIRE
23	LOT	#3 AWG RHW-2 WIRE (VFD RATED)
24	LOT	#2 AWG RHW-2 WIRE
25	LOT	#2/0 AWG RHW-2 WIRE
26	LOT	#2/0 AWG RHW-2 WIRE (VFD RATED)
27	LOT	250 KCMIL RHW-2 WIRE

2

ELECTRICAL EQUIPMENT SCHEDULE - NEW WORK

CWPA6-E-603

SCALE: NTS




MOTOR CONTROL CENTER: MCC CHP-A06 600 AMPS, 480/277V, 3Ø, 4W, GND BUS SECT. 1-2-600A, NEUTRAL 600A										LOCATION: CHILLER PLANT AVAILABLE SHORT CIRCUIT: 65,000 AMPS RMS SYM ENCLOSURE TYPE: NEMA 12				
SEC. NO.	ITEM NO.	CIRCUIT BREAKER			MCP CONTIN. RATING AMP.	CONNECTED LOAD KVA	HP OR KW	DESCRIPTION	NOTES	ELEVATION				
		POLES	FRAMES AMP.	TRIP AMP.						SECTION 1	SECTION 2			
1	A	3	400	350	—	EX	—	MAIN BREAKER						
	B1	3	100	100	—	23	20HP	CT FAN VFD FEEDER						
	B2	3	70	70	—	EX	—	PANEL "CP"						
	C	3	50	50	50A	EX	—	VU-6 FVNR STARTER SIZE 2						
	D	3	100	100	—	33	30HP	CHWP-1 VFD FEEDER						
	E	3	—	—	—	—	—	SPACE						
2	A	3	175	175	—	54	50HP	CWP-2 VFD FEEDER						
	B	3	—	—	—	—	—	SPACE						
	C	3	175	175	—	54	50HP	CWP-1 VFD FEEDER						
	D	3	—	—	—	—	—	SPACE						
	E	3	50	50	50A	EX	—	VU-5 FVNR STARTER SIZE 2						
	F	3	100	100	—	33	30HP	CHWP-2 VFD FEEDER						

3

MCC SCHEDULE - NEW WORK

CWPA6-E-603

SCALE: NONE

<div>DESIGNED <u>R. LAUFER</u> 03/16/18 DATE</div> <div>DRAWN <u>O. FAYEMI</u> 03/16/18 DATE</div> <div>CHECKED <u>D. KHAN</u> 03/23/18 DATE</div>			REFERENCE DRAWINGS		REVISIONS			<div> WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div> <div>DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES</div> <div>OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM GROUP</div> <div><div>APPROVED  03/2018</div><div>MARK MAGNUSSEN MANAGER, ENV. PLANNING AND COMP</div><div>DATE</div></div> <div><div>APPROVED  03/2018</div><div>GRAHAM SPILLER GFP DEPUTY PROGRAM MANAGER</div><div>DATE</div></div>	REPLACEMENT OF CHILLERS AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STATIONS CWPA6 - MEDICAL CENTER (A10) ELECTRICAL EQUIPMENT AND PANEL SCHEDULES				
			NUMBER	TITLE	DATE	NUM	DESCRIPTION		M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
					03/30/2018	0	FINAL CONTRACT DRAWINGS		M1304	FQ-18102	NTS	CWPA6-E-603	73 of 173

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