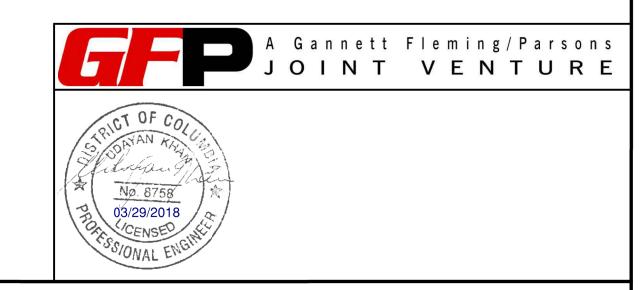


KEYNOTES:

- 1 CHILLER VFD/DISCONNECT SUPPLIED WITH CHILLER, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
- THE VFD'S FOR CHILLED WATER AND CONDENSER WATER PUMPS ARE EXISTING. PROVIDE AND INSTALL WIRING FROM MOTOR TO VFD AND FROM VFD TO MCC.
- 3 PROVIDE LINE AND LOAD REACTORS FOR EACH VFD AND MOUNT IN A CONVENIENT PLACE.
- 4 PROVIDE 100A, 120/240, 18CKT DISTRIBUTION PANEL(CP2).
- (5) PROVIDE 100A, 277/480, 12CKT DISTRIBUTION PANEL(CP3).
- 6 RECONNECT POWER TO NEW EQUIPMENTS, USE EXISTING CKTS AND CONDUITS. PROVIDE NEW WIRING.

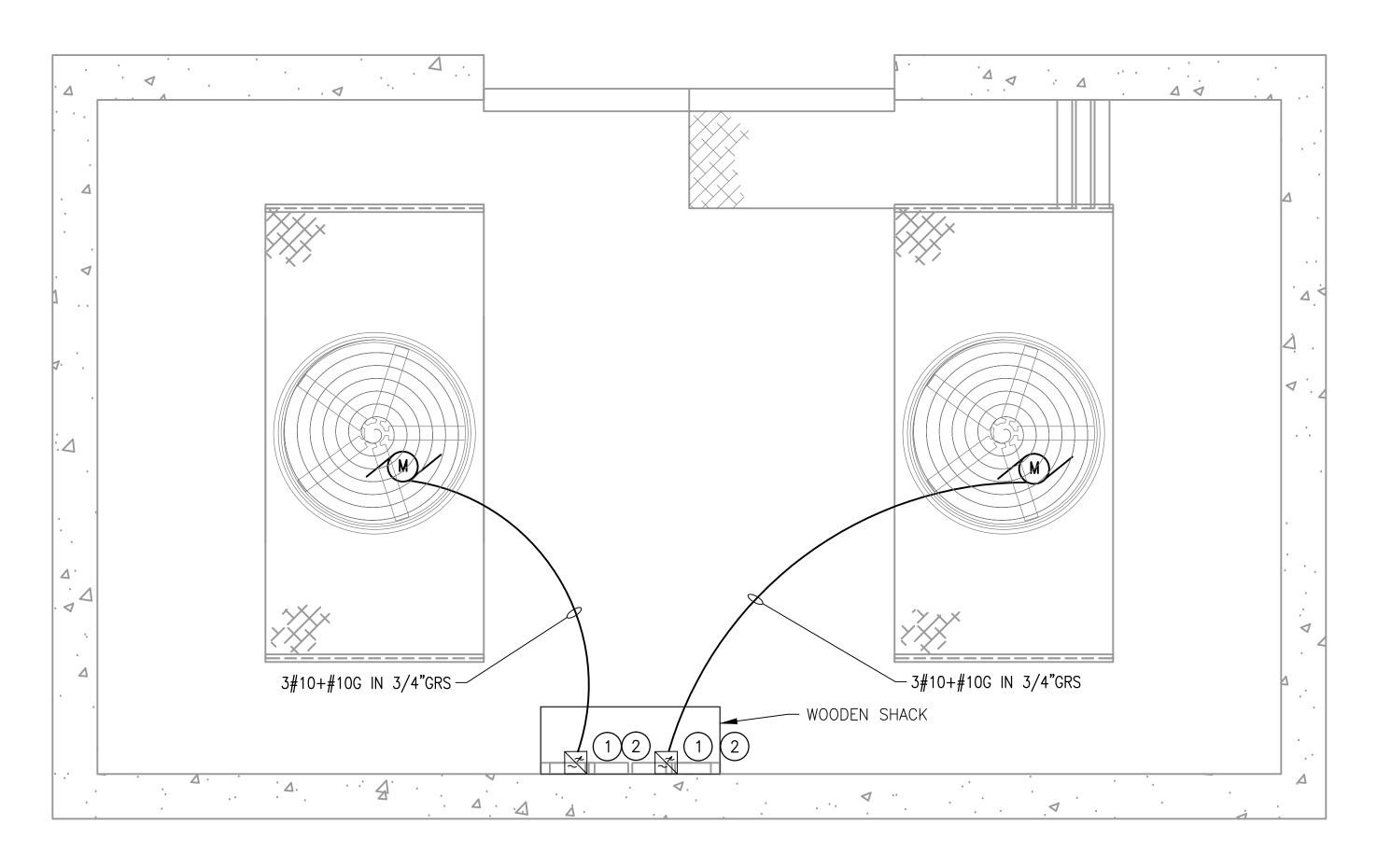
SHEET NOTES:

- 1. PROVIDE FILTERS FOR VFD'S AS REQUIRED.
- 2. ALL WIRING FOR VFD'S SHALL BE VFD RATED CABLES.
- 3. RUN NEW RGS FROM CABLE TROUGH AND STOP AT A CONVENIENT PLACE NEAR MOTOR. CONTINUE WITH LTFC TO MOTOR.



				REFERENCE DRAWINGS		REVISIONS		WASHINGTON	METROPOL	ITAN AREA TRANSIT AUTI	REPLACEMENT OF CHILLERS								
DESIGN	NED B. IDILBI	09/30/17	NUMBER	TITLE	DATE NUM	DESCRIPTION	metro	netro					AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STAT						
DESIGN	NLD <u></u>	DATE			03/30/2018 0 FINA	AL CONTRACT DRAWINGS				ID CONCEDUCATION OF DVICE			OOOLIIVOI						
DRAWN	J. ZHU	09/30/17						DEPARTMENT	JE DESIGN AN	ND CONSTRUCTION SERVICE	5			CWPD2 - FEDERA	AL CENTER SW (D	104)			
		DATE						OFFICE OF INFR	E RENEWAL PROGRAM GROU		<								
CHECKE	(ED <u>D. KHAN</u>	03/23/18						20 1 11 Many	me -							·			
		DATE					APPRO	OVED IS larke A. Trayfor	03/2018	APPROVED Me Alle	03/2018	M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.			
		}						MAGNUSSEN	DATE	GRAHAM SPILLER	DATE	 M1304	FQ-18102	1/4" = 1'-0"	CWPD2-E-102	88 of 173			
							MANAG	GER, ENV. PLANNING AND COMP		GFP DEPUTY PROGRAM MANAGER									

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



ELECTRICAL PLAN - NEW WORK (COOLING TOWER)

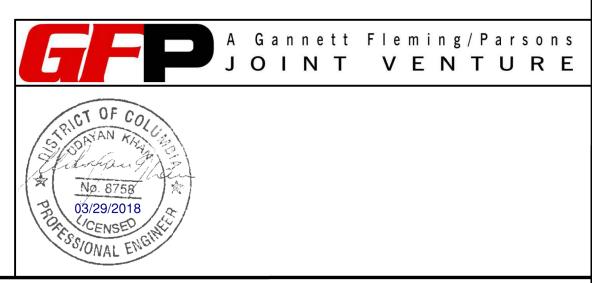
SCALE: 1/4" = 1'-0"

KEYNOTES:

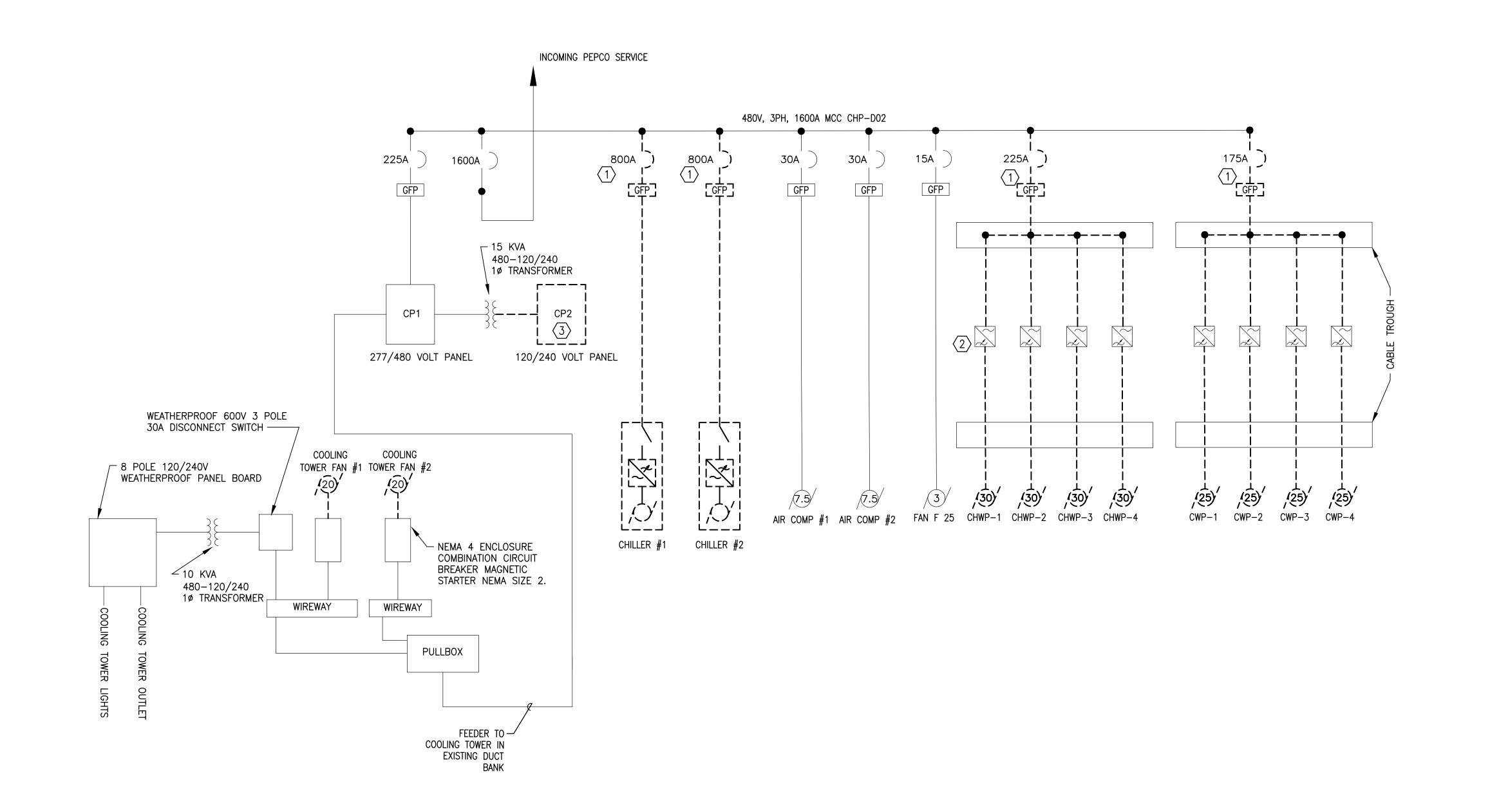
- 1) NEW COOLING TOWER FAN MOTOR TO BE PROVIDED BY MECHANICAL.
- 2 PROVIDE LINE AND LOAD REACTORS FOR THE EXISTING

SHEET NOTES:

- 1. PROVIDE FILTERS FOR VFD'S AS REQUIRED.
- 2. ALL WIRING FOR VFD'S SHALL BE VFD RATED CABLES.
- 3. THE CHILLER PLANT IS APPROX. 40' UNDERGROUND. THE COOLING TOWER IS LOCATED ON THE STREET LEVEL, A FEW BLOCKS AWAY. APPROXIMATE DISTANCE 500'.



DESIGNED <u>B. IDILBI</u>	09/30/17	NUMBER	REFERENCE DRAWINGS TITLE	DATE NUM				WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY							REPLACEMENT OF CHILLERS AND COOLING TOWER ACCESSORIES AT EIGHT MET					
DRAWN <u>J. ZHU</u> CHECKED <u>D. KHAN</u>	DATE 09/30/17 DATE			03/30/2018 0	FINAL CONTRA	ACT DRAWINGS	DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM GROUP							CWPD2 - FEDI	ERAL CENTER SW (I AL PLAN - NEW WOR	D04)				
GIIEGILED	DATE							YED Marke H. IT lagrum AGNUSSEN ER, ENV. PLANNING AND COMP	03/2018 DATE	APPROVED GRAHAM SPILLER GFP DEPUTY PROGRAM MA	MANAGER	03/2018 DATE	м NO. М1304	CONTRACT NO. FQ-18102	SCALE 1/4" = 1'-0"	DRAWING NO. CWPD2-E-103	SHEET NO. 89 of 173			



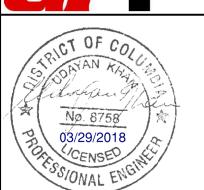
SHEET NOTE:

1. FOR EQUIPMENT TO BE DEMOLISHED: ALL EXISTING CONDUIT AND WIRING SHALL BE REMOVED. PERMISSION TO USE EXISTING CONDUIT (WIRES REMOVED) SHALL BE REQUIRED FROM WMATA ENGINEER.

PLAN NOTE:

- (1) EXISTING CIRCUIT BREAKER TO BE REMOVED.
- 2 EXISTING VFD'S TO REMAIN
- (3) EXISTING PANEL CP2 TO BE REMOVED.





B ELECTRICAL SINGLE LINE DIAGRAM - DEMOLITION

SCALE: NONE

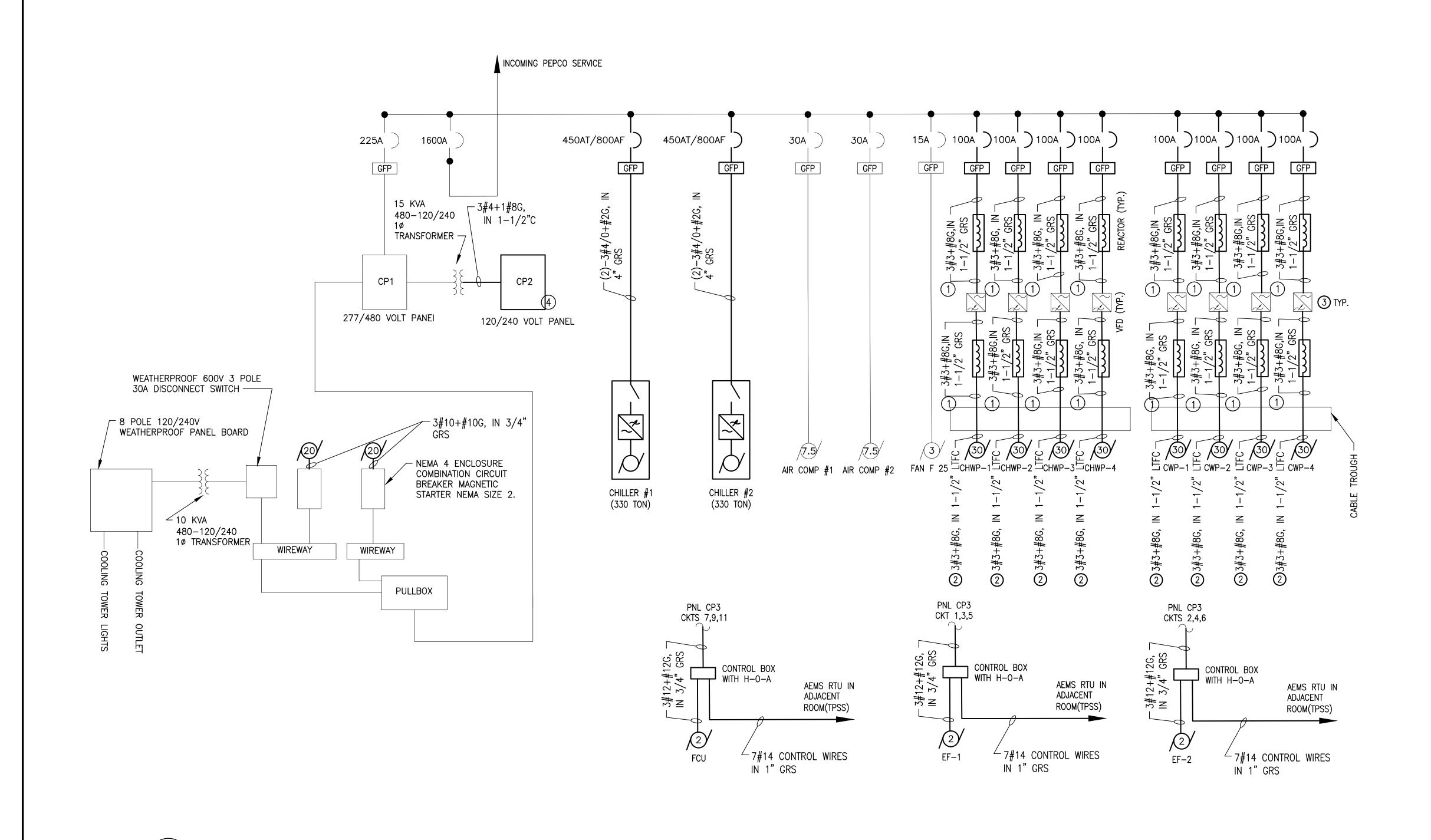
		REFERENCE DRAWINGS			REVISIONS	M WA	SHINGTON M
DESIGNED B. IDILBI 09/30/17	NUMBER	TITLE	DATE	NUM	DESCRIPTION	metro	
DESIGNED <u>B. IBIEBI</u> <u>00/00/11</u> DATE	_		03/30/2018	0	FINAL CONTRACT DRAWINGS		
DRAWN <u>J. ZHU</u> 09/30/17						Di	EPARTMENT OF
DATE						OF	FICE OF INFRAS
CHECKED D. KHAN 03/23/18						0.	· 11 Management
DATE						APPROVED // Da	sk H. Magnusse
						MARK MAGNUSSEN	

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM GROUP

	701110010	THE NENEWALT ROOMAIN GROOF	
m. 1 H Magnu	ser		
APPROVED & Davk A. " 1297000	03/2018	APPROVED Me Alle	03/2018
MARK MAGNUSSEN	DATE	GRAHAM SPILLER	DATE
MANAGER, ENV. PLANNING AND COMP		GFP DEPUTY PROGRAM MANAGER	

	ELECTRIC	JAL SINGLE LIN	E DIAGRAM - DEMOLITIC	JIN .
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1304	FQ-18102	NONE	CWPD2-E-601	90 of 173

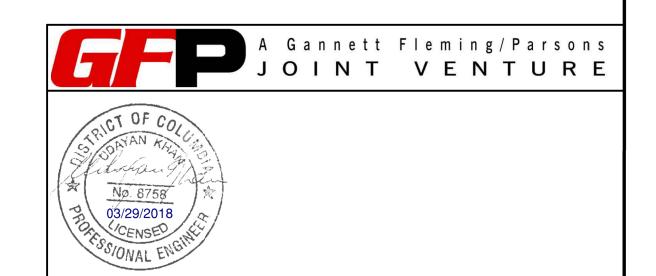


SHEET NOTES:

1. PROVIDE NEW CIRCUIT WITH GROUND FAULT PROTECTION IN EXISTING MCC.

PLAN NOTES:

- 1 LINE AND LOAD REACTORS FOR EACH VFD SHALL BE PROVIDED AND MOUNTED ABOVE THE VFD IN A SINGLE NEMA 4X ENCLOSURE
- 2 RUN NEW RGS FROM CABLE TROUGH AND STOP NEAR MOTOR. RUN LTFC FROM RGS TO MOTOR.
- 3 EXISTING VFD'S TO REMAIN
- 4) PROVIDE DISTRIBUTION PANEL CP2.



		REFERENCE DRAWINGS			REVISIONS	
DESIGNED B. IDILBI 09/30/17	NUMBER	TITLE	DATE	NUM	DESCRIPTION	IV met
DESIGNED B. IDILBI 09/30/17 DATE			03/30/2018	0	FINAL CONTRACT DRAWINGS	IIIeti
DRAWN <u>J. ZHU</u> 09/30/17]
DATE						
CHECKED <u>D. KHAN</u> 03/23/18						
DATE						APPR
	1					l

ELECTRICAL SINGLE LINE DIAGRAM - NEW WORK

CWPD2-E-602

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM GROUP

APPROVED Mark H. Magnusu 03/2018

MARK MAGNUSSEN DATE

MANAGER, ENV. PLANNING AND COMP

APPROVED SILLER

GRAHAM SPILLER

GFP DEPUTY PROGRAM MANAGER

REPLACEMENT OF CHILLERS
AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STATIONS
CWPD2 - FEDERAL CENTER SW (D04)
ELECTRICAL SINGLE LINE DIAGRAM - NEW WORK

	ELECTRI	CAL SINGLE LIN	E DIAGRAM - NEW WOR	XTX
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M1304	FQ-18102	NONE	CWPD2-E-602	91 of 173

SCALE: NONE

03/2018

										PA	NEL: (CP2								
MAIN BUS:100A				MAIN	DEVI	CE:50	DA									ı	NEUTRA	L BUS: 100%		
208/120 VOLT				3 PH	ASE,	4 W	IRE +	GROU	JND							1	RMS AIG	C: 10,000A		
ENCLOSURE: NEMA 1		MOUNTING: SURFACE										LOCATION: CHILLER PLANT								
LOAD	LOAD	W	IRE	RCWY	C,	/B	CKT	Pŀ	IASE K	(VA	CKT	C	/B	RCWY	WIF	RΕ	LOAD	LOAD		
DESCRIPTION	VA		GND	SIZE	TRIP	PL	NMBR	Α	В	С	NMBR	PL	TRIP	SIZE	GND	CKT	VA	DESCRIPTION		
AIR COOLER	300	12	12	3/4"	30	1	1	1300			2	1	20	3/4"	10	10	1000	FLOAT SWITCHES		
AIR COMPRESSOR	-	_		3/4"		1	3		600		4	1	-	3/4"				CHEMICAL TREATMENT		
WATER TREATMENT	200	12	12	3/4"	20	1	5			1200	6	1	20	_	-	1		SPARE		
1 CONDENSER WATER TREATMENT PACKAGE	-	12	12	3/4"	20	1	7	1000			8	1	20	3/4"	12	12	1000	AHU		
1 REFRIGERANT LEAK DETECTION SYSTEM,INCLUDING IR SENSORS	700	12	12	3/4"	20	1	9		700		10	1	20	3/4"	12	12	-	AHU		
1 FLOW MONITORING BANEL	700	12	12	3/4"	20	1	11			700	12	1	20	3/4"	12	12	-	INSTANTANEOUS WATER HEATER		
I I FLOW MONITORING PANEL				7 / 4 22	20	1	13	1000			14	1	20	3/4"	12	12	_	MOD-2		
1 FLOW MONITORING PANEL 1 CHILLER PLANT MONITORING PANE	700	12	12	3/4"	20	l l														
	L 700 –			3/4"	20	1	15	, 000	700		16	1	20	3/4"	12	12	_	INSTANTANEOUS WATER HEATER		

		ELECTRICAL EQUIPMENT SCHEDULE										
ITEM	QTY	DESCRIPTION										
1	8	MCC BUCKET TO MATCH EXISTING WITH 100AT/100AF BREAKER										
2	2	MCC BUCKET TO MATCH EXISTING WITH 450AT/800AF BREAKER										
3	16	REACTOR/FILTER 480V, 3PH, 55A, 30HP, 60HZ, NEMA 4X ENCLOSURE										
4	LOT	#2 AWG RHW-2 WIRE (GND)										
5	LOT	#3 AWG RHW-2 WIRE (VFD RATED)										
6	LOT	#3 AWG RHW-2 WIRE										
7	LOT	#4 AWG RHW-2 WIRE										
8	LOT	#8 AWG RHW-2 WIRE (GND)										
9	LOT	#10 AWG RHW-2 WIRE (VFD RATED)										
10	LOT	#10 AWG RHW-2 WIRE										
11	LOT	#10 AWG RHW-2 WIRE (GND)										
12	LOT	#12 AWG RHW-2 WIRE										
13	LOT	#12 AWG RHW-2 WIRE (GND)										
14	LOT	#4/0 AWG RHW-2 WIRE										
15	LOT	3/4" GRS CONDUIT										
16	LOT	1" GRS CONDUIT										
17	LOT	1-1/2" GRS CONDUIT										
18	LOT	1-1/2" LTFC										
19	LOT	4" GRS CONDUIT										
20	1	100A, 120/240V, 1PH, 18CKT DISTRIBUTION PANEL(CP2). WITH 50A MAIN BREAKER										
21	1	100A, 277/480V, 3PH, 12CKT DISTRIBUTION PANEL(CP3). WITH 50A MAIN BREAKER										

				ENTER: 77V, 3ø,		R GND BUS			,	OCATION: CHILLER PLANT AVAILABLE SHORT CIRCUIT: : ENCLOSURE TYPE: NEMA 12		AMPS	RMS SY	′M				
	SEC.	ITEM		UIT BRE		MCP CONTIN.	CONNECTED LOAD	HP OR	DESCRIPTION	CONTROL DIAGRAM	ELEVATION							
	NO.	NO.	POLES	FRAMES AMP.	AMP.	RATING AMP.	KVA	KW		DWG NO.				SECTION	3 SECT	ION4 SE	CTION5	SECTION6
	1	1A	3	1600	1600	_	_	-	MAIN LUGS									
		2A	3	100	15	_	100	3HP	FAN F25									
		2B	3	100	100	_	_	30HP	CHILLER WATER PUMP #1									
	2	2C	3	100	100	_	_	30HP	CHILLER WATER PUMP #2									
		2D	3	100	100	_	_	30HP	CHILLER WATER PUMP #3					7.4		5A		
		2E	3	100	100	_	_	30HP	CHILLER WATER PUMP #4				2A	3A 3B				
		3A	3	300	225	_	_	_	MAIN BREAKER FOR PANEL CP1				2B		4A	5B	6A	
		3B	3	_	_	_	_	_	SPACE			1A	20	3C		5C		
OTE:1	3	3C	3	_	_	_	_	_	SPACE				2C	3D	4B	5D		
OTE:1	J	3D	3	_	_	_	_	_	SPACE			ľ	2D	3E		5E	6B	
DTE:1		3E	3	100	30	_	100	7.5HP	AIR COMPRESSOR 2				2E	3F	4C	5F	6C	
		3F	3			_	_	_	SPACE									
		4A	3	800	450	_	_	_	CHILLER #1		MAN	UFACTI	URER: C	CULTER-I	HAMMER			
	4	4B	3			_	_	_	SPACE					REEDOM				
		4C	3	100	30	_	100	7.5HP	AIR COMPRESSOR 1									
		5A	3	100	100	_	_	30HP	CONDENSER WATER PUMP #1									
		5B	3	100	100	_	_	30HP	CONDENSER WATER PUMP #2									
	_ [5C	3	100	100	_	_	30HP	CONDENSER WATER PUMP #3									
	5	5D	3	100	100	_	_	30HP	CONDENSER WATER PUMP #4									
		5E	-	_	_	_	_	_	SPACE									
		5F	1	_	_	-	_	_	SPACE									
		6A	3	800	450	1	_	_	CHILLER #2									
	6	6B	_	_	_	_	-	_	SPACE									
		6C	_	_	_	_	_	_	SPACE									

NOTE: 2 PANEL: CP3 MAIN BUS: 100A NEUTRAL BUS: 100% MAIN DEVICE:50A 480/277 VOLT 3 PHASE, 4 WIRE + GROUND RMS AIC: 10,000A ENCLOSURE: NEMA 1 MOUNTING: SURFACE LOCATION: CHILLER PLANT
 LOAD
 WIRE
 RCWY
 C/B
 CKT
 PHASE KVA
 CKT
 C/B
 RCWY
 WIRE
 LOAD

 VA
 CKT
 GND
 SIZE
 TRIP
 PL
 NMBR
 A
 B
 C
 NMBR
 PL
 TRIP
 SIZE
 GND
 CKT
 VA
 DESCRIPTION DESCRIPTION 12 12 3/4" 20 3 3 1 - 2 4 3 20 3/4" 12 12 - EF-2 12 12 3/4" 20 3 9 11 8 1 20 - - - SPARE
10 1 20 - - - SPARE
- 12 1 20 - - - SPARE CONNECTED LOAD: -VA NOTES:

ELECTRICAL PNL , EQUIP'T SCHEDULES AND MCC SCHEDULE CWPD2-E-603

REVISIONS

03/30/2018 0 FINAL CONTRACT DRAWINGS

DATE NUM

REFERENCE DRAWINGS

DESIGNED B. IDILIBI

CHECKED D. KHAN

09/30/17 DATE

03/23/18 DATE

A Gannett Fleming/Parsons
JOINT VENTURE Np. 8758 03/29/2018 CENSED 108/58/0NAL EV

M metro	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
	DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES

REPLACEMENT OF CHILLERS AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STATIONS CWPD2 - FEDERAL CENTER SW (D04)

SHEET NOTE:

12 CKTS.

1. PROVIDE 20A, 1P CIRCUIT BREAKER TO MATCH

2. INSTALL NEW DISTRIBUTION PANEL CP3, 277/480V,

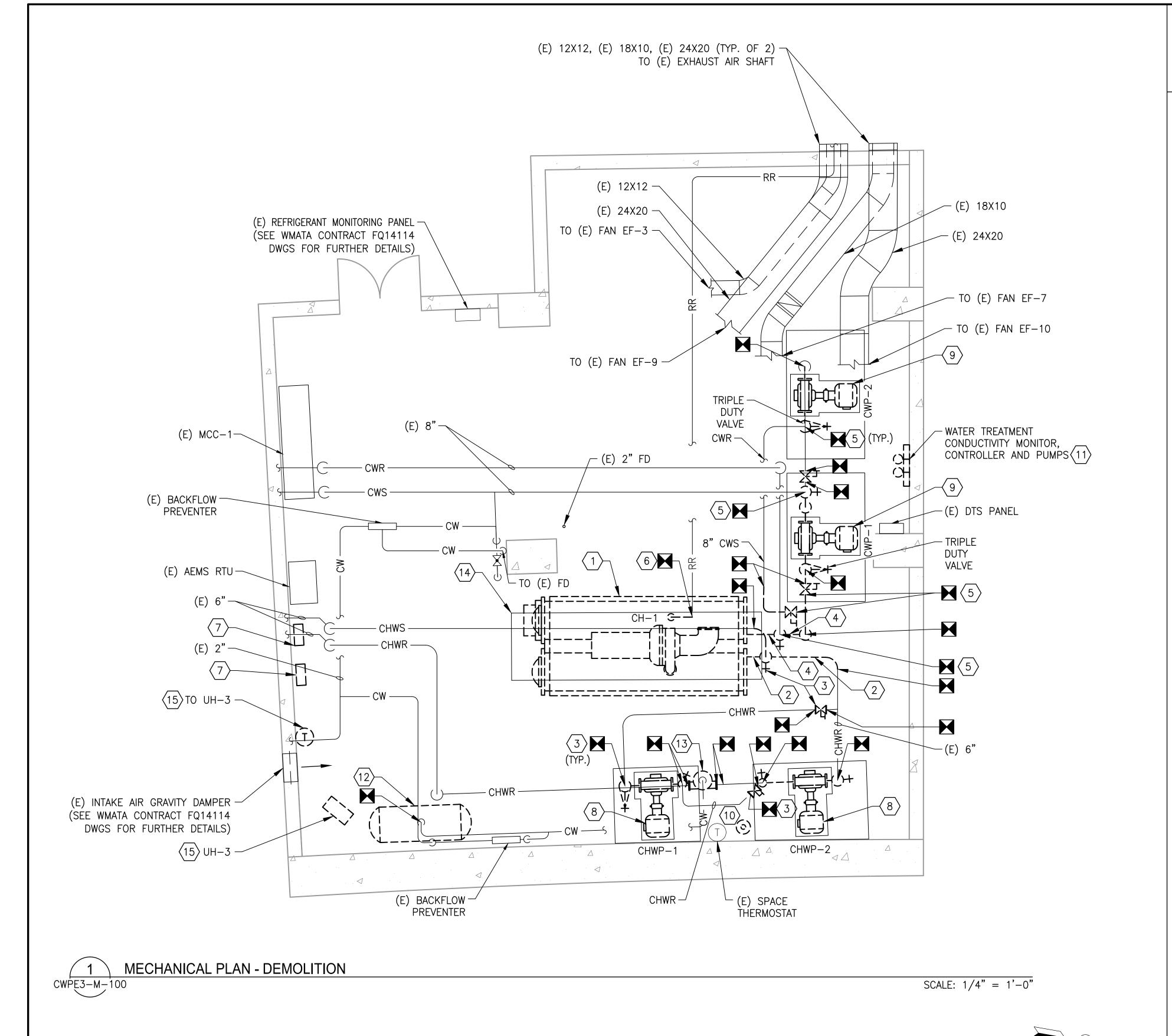
3. IN PANEL CP1, INSTALL 1-3P, 50A CIRCUIT BREAKER IN AVAILABLE BUSSED SPACE AND WIRE TO IT THE

EXISTING AND WIRE NEW LOAD.

NEWLY INSTALLED PNL CP3.

OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM GROUP						ELECTRICAL EQUIPMENT AND PANEL SCHÉDULE					
4	APPROVED Mark H. Il lagr	03/2018	APPROVED	Ode Sle	03/2018	M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.	
	MARK MAGNUSSEN MANAGER, ENV. PLANNING AND COMP	DATE	GRAHAM SPILLE GFP DEPUTY PR	ER ROGRAM MANAGER	DATE	M1304	FQ-18102	NONE	CWPD2-E-603	92 of 173	

SCALE: NONE



GENERAL NOTES:

A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND QUANTITIES OF EQUIPMENT, PIPING, VALVES, DUCTWORK, ELECTRICAL AND CONTROL WIRING PRIOR TO DEMOLITION. ITEMS SHOWN ON THIS PLAN ARE APPROXIMATE.

B. REFER TO LEGEND SHEET FOR GENERAL ABBREVIATIONS AND SYMBOLS.

KEYNOTES:

- REMOVE AND DISPOSE OF CHILLER, CHILLER SUPPORT, STARTER, WIRING, CONDUIT, JUNCTION AND PULL BOXES, DISCONNECT, AEMS SENSORS, AND CONTROLS. REMOVAL SHALL INCLUDE R-134a EVACUATION BY A CERTIFIED COMPANY. RECOVERED REFRIGERANT SHALL BE CLEANED AND THEN BE RETURNED TO WMATA PLANT MAINTENANCE IN 125 POUND BULLET CONTAINERS.
- REMOVE AND DISPOSE OF CHILLED WATER PIPING (CHWS, CHWR), INSULATION, SUPPORT, TEMPERATURE AND PRESSURE GAUGES. EXTENT OF PIPING REMOVAL SHALL BE, IN GENERAL, TO THE INDICATED ISOLATION VALVE FLANGE FROM THE CHILLER. EXACT DEMOLITION POINT SHALL BE FIELD COORDINATED BY CONTRACTOR TO ACCOMMODATE NEW PIPING CONNECTIONS.
- REMOVE AND DISPOSE OF CHILLED WATER PIPING VALVES AS IDENTIFIED TO BE DEMOLISHED. EXACT QUANTITY OF VALVES SHALL BE VERIFIED BY INSTALLING CONTRACTOR. THE EXTENT OF ALL VALVE REPLACEMENTS SHALL BE INCLUSIVE OF THE CONNECTION FLANGES (TYPICAL).
- REMOVE AND DISPOSE OF CONDENSER WATER PIPING (CWR, CWS), INSULATION, TEMPERATURE AND PRESSURE GAUGES. EXTENT OF PIPING REMOVAL SHALL BE, IN GENERAL, TO THE INDICATED ISOLATION VALVE FLANGE FROM THE CHILLER. EXACT DEMOLITION POINT SHALL BE FIELD COORDINATED BY CONTRACTOR TO ACCOMMODATE NEW PIPING CONNECTIONS.
- The state of the s
- 6 REMOVE EXISTING 2" REFRIGERANT RELIEF (VENT) PIPING TO EXTENT SHOWN.
- 7 REMOVE AND DISPOSE OF EXISTING JOHNSON CONTROLS PANEL AND PUMP CONTROL PANEL.
- REMOVE AND DISPOSE OF CHILLED WATER PUMPS, CHWP-1 AND CHWP-2. REMOVAL SHALL INCLUDE PUMP, MOTOR, CONTROL AND POWER WIRING, CONDUIT, JUNCTION AND PULL BOXES, PIPING, SUPPORT, ISOLATION VALVES, STRAINER AND CHECK VALVE, WITH ALL INSTRUMENTATION AND CONTROLS. EXISTING VIBRATION SUPPORT, INERTIAL PAD AND EQUIPMENT TO REMAIN AND BE RE-USED. EXTENT OF PIPING REMOVAL SHALL BE, IN GENERAL, TO THE INDICATED ISOLATION VALVE FLANGE FROM THE PUMPS. EXACT DEMOLITION POINT SHALL BE FIELD COORDINATED BY CONTRACTOR TO ACCOMMODATE NEW PIPING CONNECTIONS.
- REMOVE AND DISPOSE OF CONDENSER WATER PUMPS, CWP-1 AND CWP-2 UP TO THE PIPE CONNECTION FLANGES. REMOVAL SHALL INCLUDE PUMP, MOTOR, CONTROL AND POWER WIRING, CONDUIT, AND JUNCTION AND PULL BOXES. EXISTING VIBRATION SUPPORT, INERTIAL PAD, AND EQUIPMENT PAD TO REMAIN. EXTENT OF PIPING REMOVAL SHALL BE, IN GENERAL, TO THE INDICATED ISOLATION VALVE FLANGE FROM THE PUMPS. EXACT DEMOLITION POINT SHALL BE FIELD COORDINATED BY CONTRACTOR TO ACCOMMODATE NEW PIPING CONNECTIONS.
- REMOVE AND DISPOSE OF CHEMICAL POT FEEDER & ACCESSORIES FOR CHILLED WATER SYSTEM.

- REMOVE AND DISPOSE OF EXISTING CONDENSER WATER TREATMENT SYSTEM AND CONDUCTIVITY MONITOR (INCLUDING VALVES, PIPING, SUPPORTS, CHEMICAL DRUMS, METERING PUMPS, AND RELATED ELECTRICAL/CONTROL ACCESSORIES).
- REMOVE AND DISPOSE OF EXISTING EXPANSION TANK. TANK SUPPORT SHALL REMAIN AND BE REUSED.
- (13) REMOVE AND DISPOSE OF EXISTING AIR SEPERATOR. AIR SEPERATOR SUPPORT SHALL REMAIN AND BE REUSED.
- EXISTING CHILLER EQUIPMENT PAD TO REMAIN. SEE CWPE3-M-102 FOR NEW WORK REQUIREMENTS.
- (15) REMOVE AND DISPOSE OF UNIT HEATER UH-3, INCLUDING SUPPORTS, WIRING, CONDUIT, JUNCTION AND PULL BOXES AND ASSOCIATED THERMOSTAT.



		REVISIONS			M	
NI 09/19/17	NUMBER	TITLE	DATE	NUM	DESCRIPTION	metr
JED B. VISWANATHAN 08/18/17 DATE			03/30/2018	0	FINAL CONTRACT DRAWINGS	IIIGU
R 08/18/17						
DATE						
03/23/18						
DATE						APPR
	DATE R 08/18/17 DATE 03/23/18	AN 08/18/17 DATE R 08/18/17 DATE 03/23/18	AN 08/18/17 DATE R 08/18/17 DATE 03/23/18	NUMBER TITLE DATE 03/30/2018 R 08/18/17 DATE 03/23/18	NUMBER TITLE DATE NUM 03/30/2018 0 R 08/18/17 DATE 03/23/18	NUMBER TITLE DATE NUM DESCRIPTION 03/30/2018 0 FINAL CONTRACT DRAWINGS 03/23/18 NUMBER TITLE DATE NUM DESCRIPTION 03/30/2018 0 FINAL CONTRACT DRAWINGS

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM GROUP

APPROVED Mark W. Magrusse 03/2018

MARK MAGNUSSEN DATE

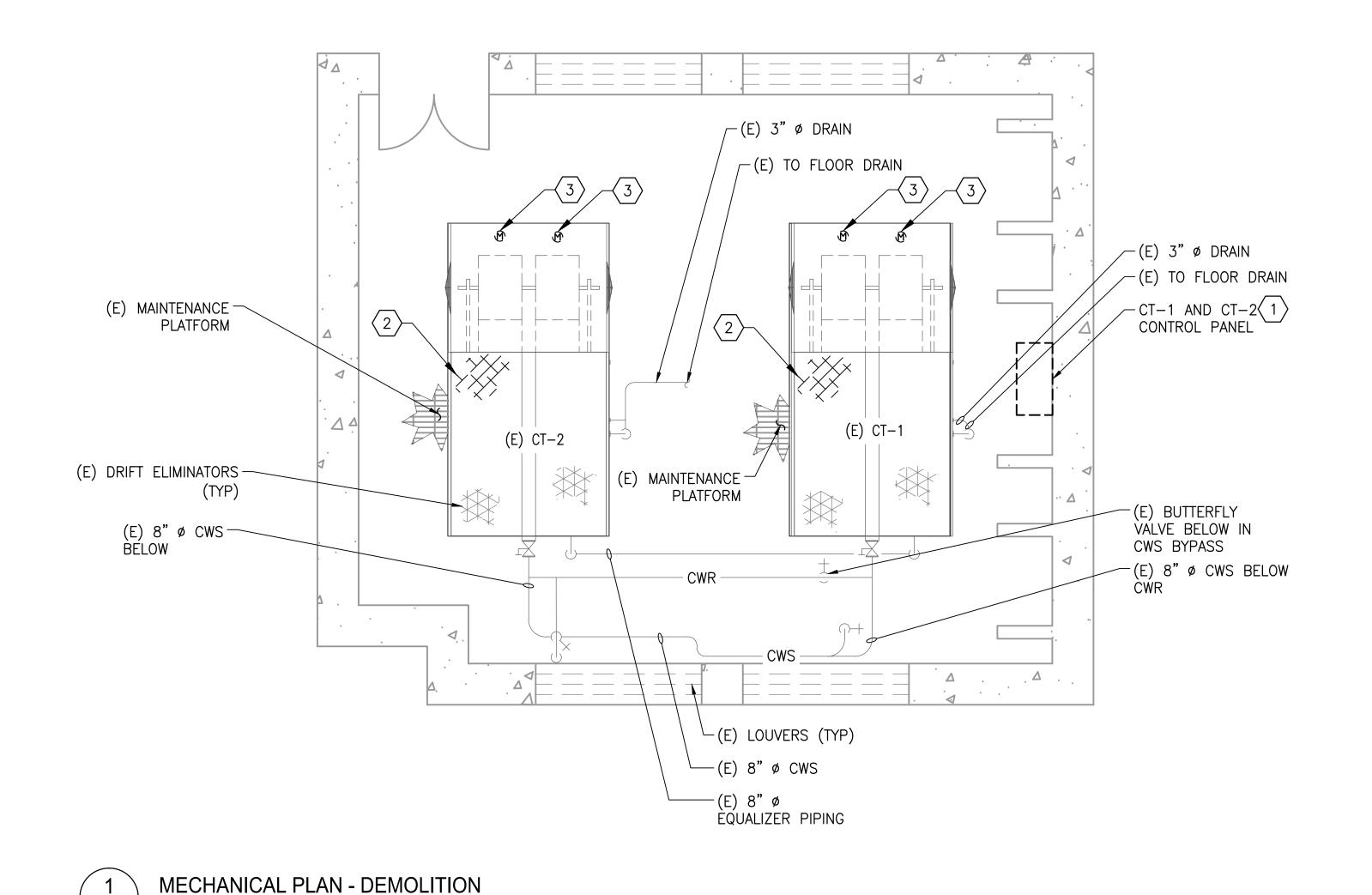
MANAGER, ENV. PLANNING AND COMP

APPROVED 03/2018 M
GRAHAM SPILLER DATE
GFP DEPUTY PROGRAM MANAGER

REPLACEMENT OF CHILLERS
AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STATIONS
CWPE3 - COLUMBIA HEIGHTS (E04)
MECHANICAL PLAN - DEMOLITION

 M NO.
 CONTRACT NO.
 SCALE
 DRAWING NO.
 SHEET NO.

 M1304
 FQ-18102
 1/4" = 1'-0"
 CWPE3-M-100
 93 of 173

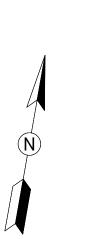


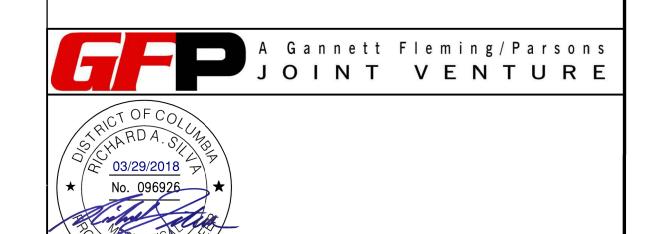
GENERAL NOTES:

- A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND QUANTITIES OF EQUIPMENT, PIPING, VALVES, DUCTWORK, ELECTRICAL AND CONTROL WIRING PRIOR TO DEMOLITION. ITEMS SHOWN ON THIS PLAN ARE APPROXIMATE.
- B. REFER TO LEGEND SHEET FOR GENERAL ABBREVIATIONS AND SYMBOLS
- C. COOLING TOWERS LOCATED ON THE ROOF OF BUILDING 3030 14TH ST NW, WASHINGTON D.C. (HIGHLAND PARK BUILDING).
- D. ALL COOLING TOWER COMPONENTS THAT ARE REMOVED ARE TO BE REPLACED IN KIND. INSTALLING CONTRACTOR SHALL COORDINATE WITH COOLING TOWER MANUFACTURER PRIOR TO REMOVAL.

KEYNOTES:

- REMOVE COOLING TOWER FAN CONTROLLER, STARTER, AND DISCONNECT.
- 2 REMOVE AND DISPOSE OF EXISTING FILL IN THE COOLING TOWER.
- REMOVE EXISTING FAN MOTOR, BELT DRIVEN FAN DRIVE ASSEMBLY, BELTS, SHEAVES, AND MOUNTING HARDWARE. RETURN ALL SALVAGED MATERIALS TO THE AR.





			REFERENCE DRAWINGS			REVISIONS	
DEGLONED B VISWA	ANATHAN 08/18/17	NUMBER	TITLE	DATE	NUM	DESCRIPTION	
DESIGNED B. VISW	DATE			03/30/2018	0	FINAL CONTRACT DRAWINGS	
DRAWN K. STOC	KINGER 08/18/17			1			
	DATE						
CHECKED D. ROM							
	DATE						<u>_A</u> F
				-			1 7 1

CWPE3-M-101

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

1/4" = 1'-0"

DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM GROUP

APPROVED Mark W. 17 Jagrusse 03/2018

MARK MAGNUSSEN DATE

MANAGER, ENV. PLANNING AND COMP

APPROVED 03/2018 M I GRAHAM SPILLER DATE M1

REPLACEMENT OF CHILLERS
AND COOLING TOWER ACCESSORIES AT EIGHT METRO-RAIL STATIONS
CWPE3 - COLUMBIA HEIGHTS (E04)
MECHANICAL PLAN - DEMOLITION

WEOTH WITH DEWICETTION									
л NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.					
M1304	FQ-18102	1/4" = 1'-0"	CWPE3-M-101	94 of 173					