

ISSUED FOR TENDER
07/05/2021



Public Services and
Procurement Canada

Services publics et
Approvisionnement Canada

AIR HANDLER #4 REFURBISHMENT
THE VALOUR BUILDING
151 SPARKS ST. OTTAWA, ONTARIO

Canada

Public Services and
Procurement Canada

Services publics et
Approvisionnement Canada

Real Property
Branch

Direction générale
des biens immobiliers

LEGEND	
SYMBOL	DESCRIPTION
SINGLE LINE SYMBOL	
	MOULDED-CASE CIRCUIT BREAKER
	FUSE
	SOLENOID
	OVERLOAD
	ISOLATION SWITCH
	FUSIBLE ISOLATION SWITCH
	FUSIBLE ISOLATION SWITCH UNIT
	TRANSFORMER
	"DELTA" CONNECTION
	"WYE" (OR "STAR") CONNECTION
	GROUND
LEGEND	
SYMBOL	DESCRIPTION
POWER	
	DIRECT CONNECTION
	DISCONNECT SWITCH

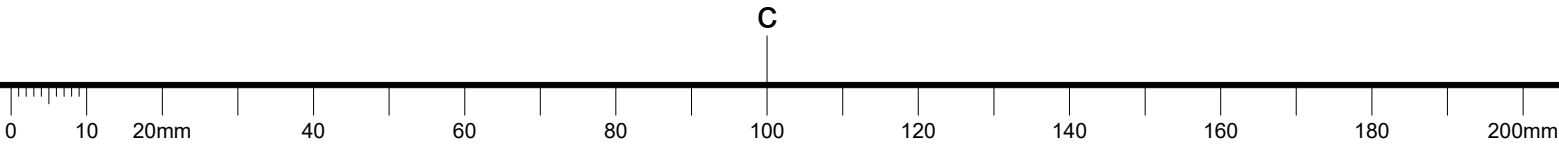
LEGEND	
SYMBOL	DESCRIPTION
PIPING	
	HYDRONIC SUPPLY PIPING
	HYDRONIC RETURN PIPING
	NEW PIPING
	EXISTING PIPING
	PIPING TO BE REMOVED
LEGEND	
SYMBOL	DESCRIPTION
PIPING ACCESSORIES	
	ISOLATION VALVE - BUTTERFLY
	CONTROL VALVE
	STRAINER

SHEET LIST - MECHANICAL	
SHEET NUMBER	SHEET NAME
-	COVER SHEET, LIST OF DRAWINGS, LEGEND
M100	FLOOR PLAN; EXISTING MECHANICAL ROOM, LOWER VIEW
M101	FLOOR PLAN; EXISTING MECHANICAL ROOM, UPPER VIEW
M200	REFURBISHMENT ACTIVITIES; IMAGES, DETAILS, & SCOPE
M201	REFURBISHMENT ACTIVITIES; IMAGES, DETAILS, & SCOPE
SHEET LIST - ELECTRICAL	
SHEET NUMBER	SHEET NAME
E100	FLOOR PLAN; EXISTING ELECTRICAL
E101	FLOOR PLAN; NEW ELECTRICAL
E200	DETAILS & SCHEMATICS



Contractor to verify all dimensions & conditions on site and immediately notify the departmental representative of all discrepancies.

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<div><div>A</div><div>C</div></div>	A detail no. no. du détail B location drawing no. sur dessin no. C drawing no. dessin no.	<div><div>A</div><div>B</div><div>C</div></div>
project	AHU 4 REFURBISHMENT	
	THE VALOUR BUILDING (151 SPARKS ST. OTTAWA ON.	
drawing	FRONT PAGE LIST OF DRAWINGS LEGEND	
Designed By	G. HEBB	Conçu par
Date	2020-12-01	(yyyy/mm/dd)
Drawn By	S. GAGNON	Dessiné par
Date	2020-12-01	(yyyy/mm/dd)
Reviewed By	G. HEBB	Examiné par
Date		(yyyy/mm/dd)
Approved By	B. MICHELS	Approuvé par
Date		(yyyy/mm/dd)
Tender		Soumission
Project Manager	Administrateur de projets	
Project no.		No. du projet
	R.101143.001	(2021852)
Drawing no.		No. du dessin
	-	



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AHU 4 REFURBISHMENT

drawing	dessin
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FLOOR PLAN
EXISTING MECHANICAL
LOWER VIEW

	(continued)
3	National

M100

M100







CORRODED DRAIN PAN TO BE CLEANED AND COATED WITH BRUSH-ON POLYMER TO RESTORE WATER TIGHTNESS.

INSTALL NEW CONDENSATE TRAP. SEE DETAIL 2/M200.

300

1 DRAIN PAN REFURBISHMENT

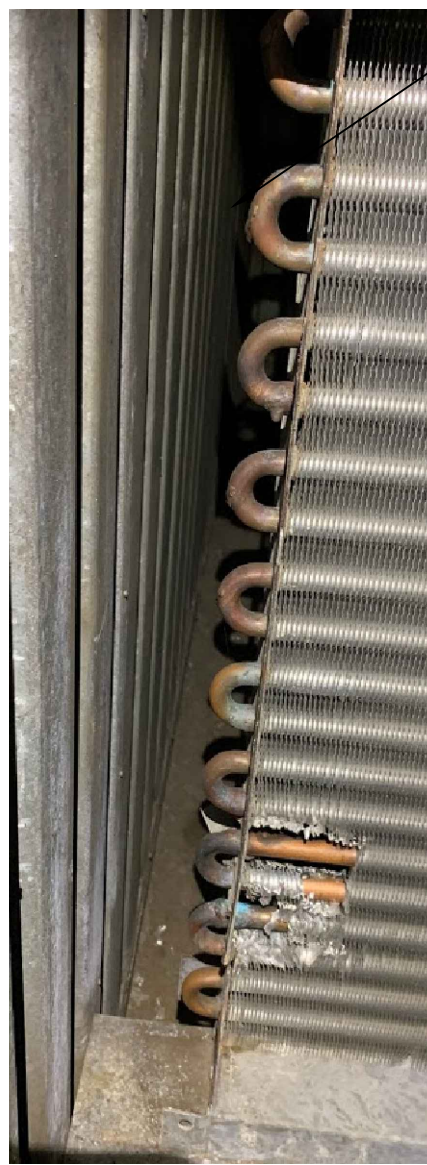
NTS



REPLACE BAG FILTERS.
REPLACE PLEATED FILTERS ON
OPPOSITE SIDE.

3 BAG FILTER RE-ALIGNMENT

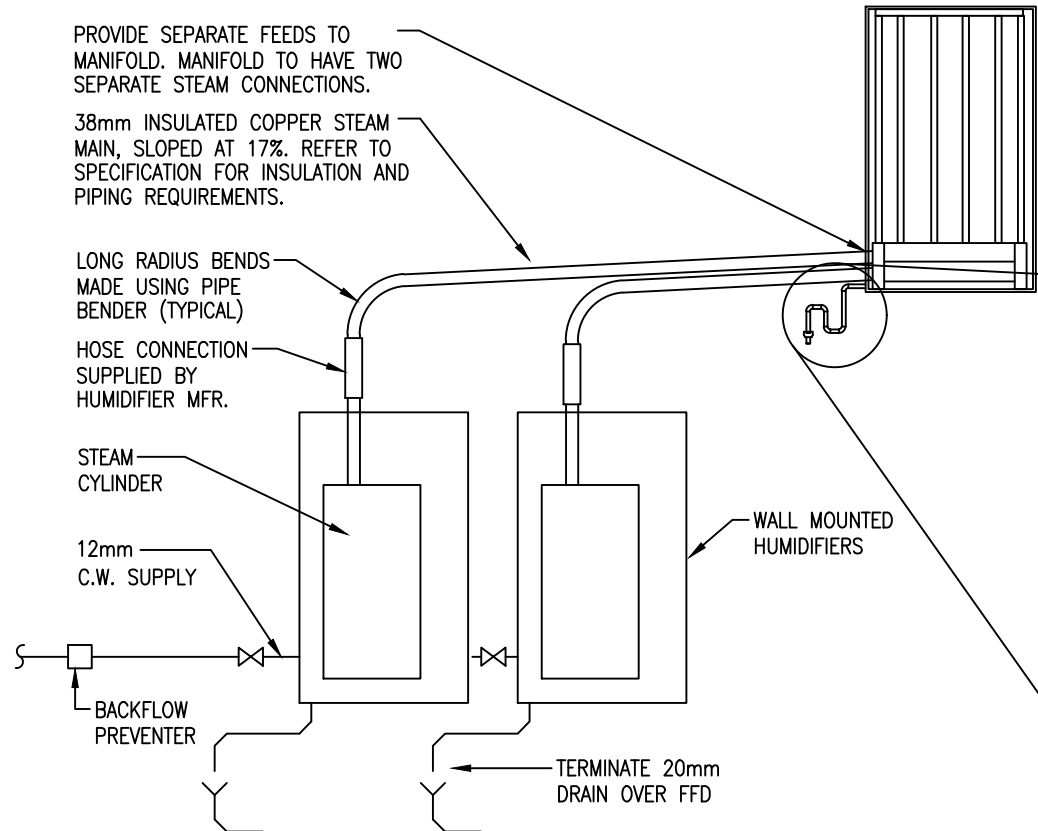
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INSTALL FULL HEIGHT
BLANKING PLATE TO PREVENT
BY-PASS AROUND HEATING
COIL.

4 HC BLANKING PLATE

NTS

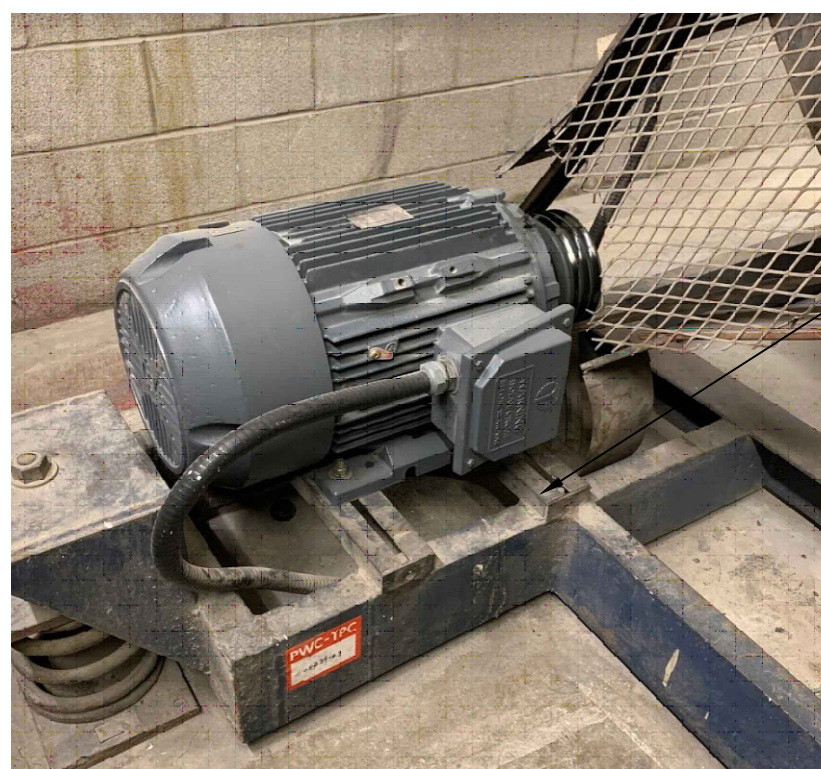


NOTES:

- HUMIDIFIERS TO BE INTERCONNECTED (LEAD/LAG) AND OPERATE TOGETHER AS A SINGLE HUMIDIFIER WITHOUT THE REQUIREMENTS FOR ADDITIONAL CONTROLLERS.

2 NEW HUMIDIFIER INSTALLATION

NTS



RETURN FAN MOTOR

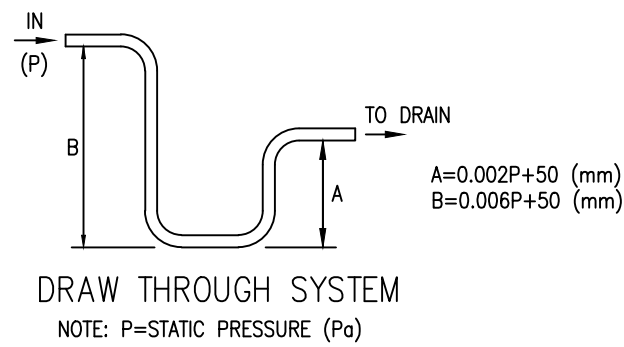
REPLACE MOTOR MOUNTINGS WITH
NEW MOUNTINGS OFFERING 2-AXIS
(HORIZONTAL) DEGREE OF FREEDOM
FOR ADJUSTMENTS.



SUPPLY FAN MOTOR

5 MOTOR MOUNTING REPLACEMENT

NTS



DRAW THROUGH SYSTEM
NOTE: P=STATIC PRESSURE (Pa)

6 NEW CONDENSATE DRAIN

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MORRISON HERSHFIELD



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project

AHU 4 REFURBISHMENT

THE VALOUR BUILDING
(151 SPARKS ST. OTTAWA ON.

drawing

REFURBISHMENT
ACTIVITIES
IMAGES, DETAILS, & SCOPE

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M200			



REMOVE EXISTING INLET VANES (BOTH SIDES)

REMOVE AND REPLACE BELT GUARD

1. CLEAN COMPLETE FAN ASSEMBLY INCLUDING COMPLETE SQUIRREL CAGE BLOWER FAN ASSEMBLY AND IMPELLERS.
2. REPLACE FAN BEARINGS.
3. RETAIN THE SERVICE OF A DYNAMIC BALANCING SPECIALIST TO DYNAMICALLY BALANCE SUPPLY FAN.
4. OBTAIN BALANCING REPORT BY DYNAMIC BALANCER AND ENSURE UNIT IS BALANCED TO INDUSTRY STANDARDS.



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REMOVE AND REPLACE BELT GUARD

RECALIBRATE AIRFLOW STATION



1

RETURN FAN FURBISHMENT


NTS

2

SUPPLY FAN REFURBISHMENT

NTS

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B

C

projectproject

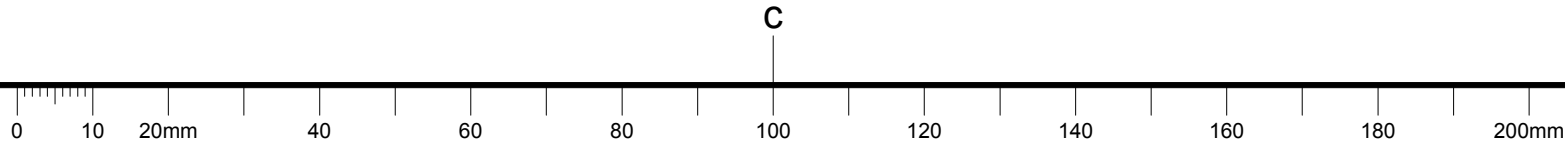
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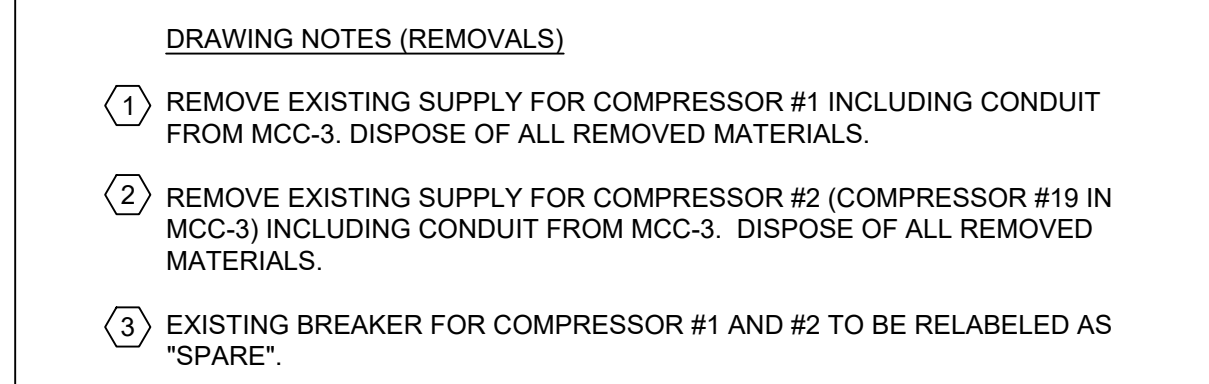
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drawingdessin

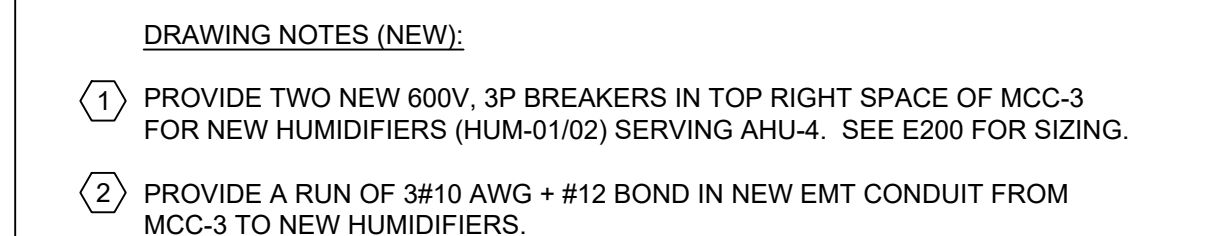
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M201		

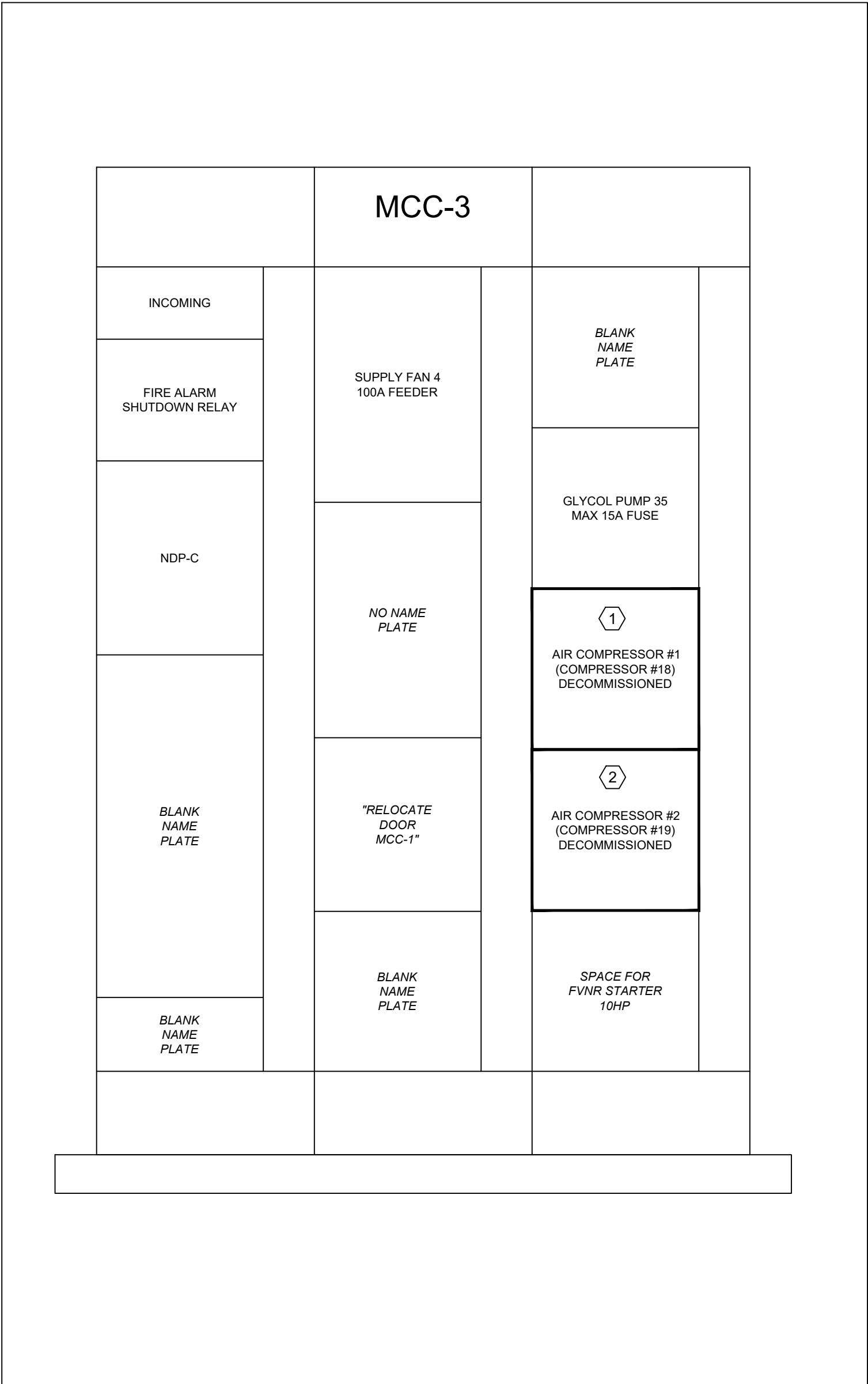




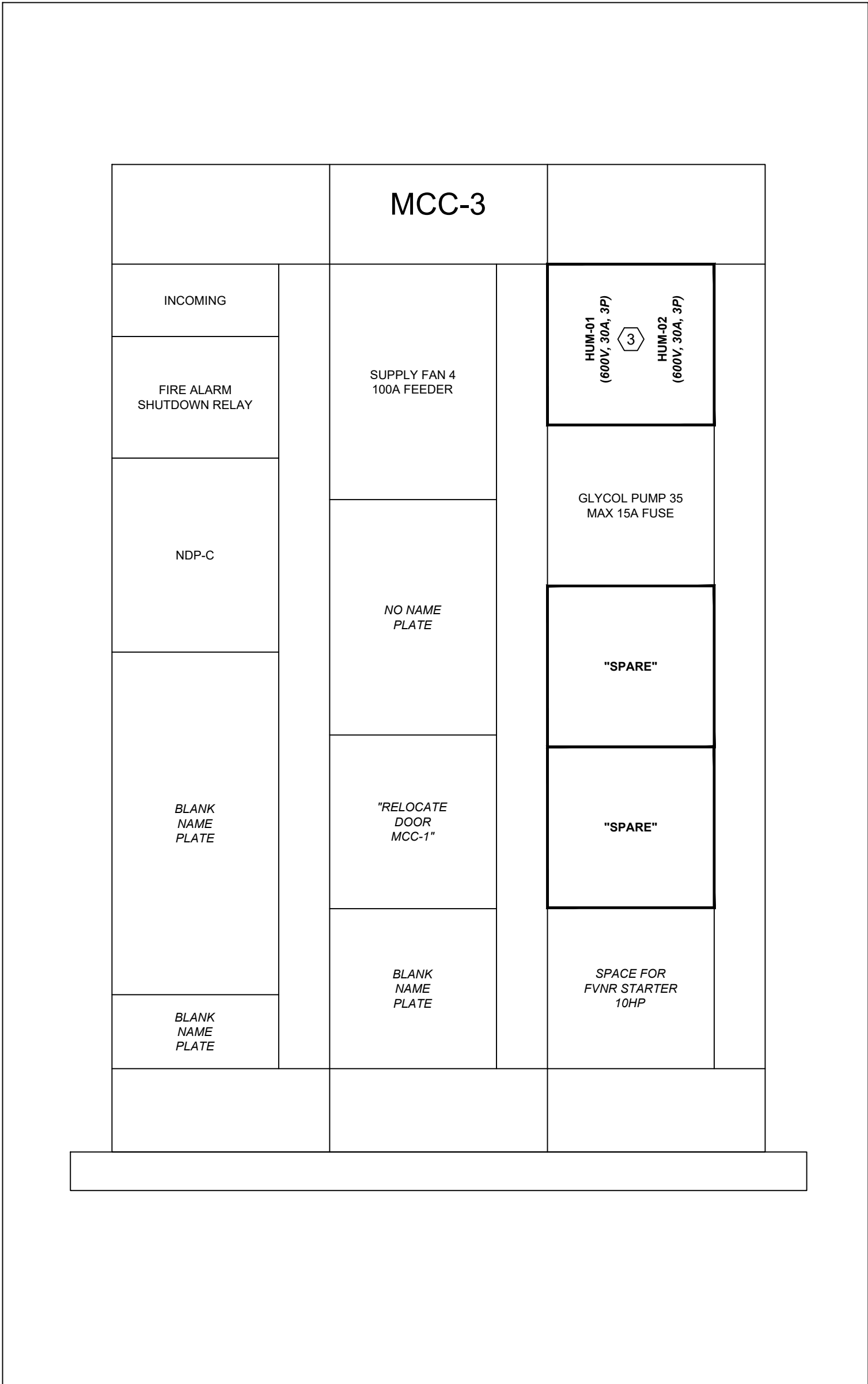
0 10 20mm 40 60 80 100 120 140 160 180 200mm



0 10 20mm 40 60 80 100 120 140 160 180 200mm



1 MCC-3 ELEVATION - EXISTING
NTS



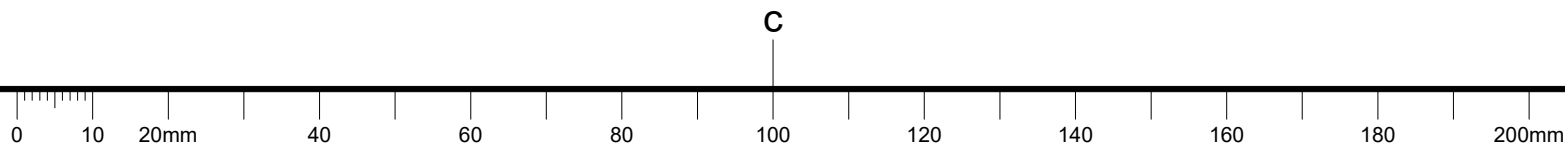
2 MCC-3 ELEVATION - NEW
NTS

GENERAL NOTES

- 1. DESIGN IS BASED ON 100% RATED BREAKERS. 80% RATED BREAKERS ARE ACCEPTABLE IF SIZED SO THAT 80% RATING OF BREAKER MEETS OR EXCEEDS AMPERAGE SHOWN. TRIP SETTING TO MATCH AMPERAGE SHOWN.

DRAWING NOTES

- 1 RELABEL BREAKER FOR AIR COMPRESSOR #1 "SPARE".
- 2 RELABEL BREAKER FOR AIR COMPRESSOR #2 "SPARE".
- 3 PROVIDE TWO NEW 600V, 30A, 3P BREAKERS IN THE TOP-RIGHT SPACE OF MCC-3 AS SHOWN ON DETAIL 2 FOR TWO NEW HUMIDIFIERS (HUM-1 AND HUM-2) SERVING AHU-4. PROVIDE LOCKABLE OPERATING HANDLES MOUNTED ON THE DOOR FOR NEW BREAKERS.



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