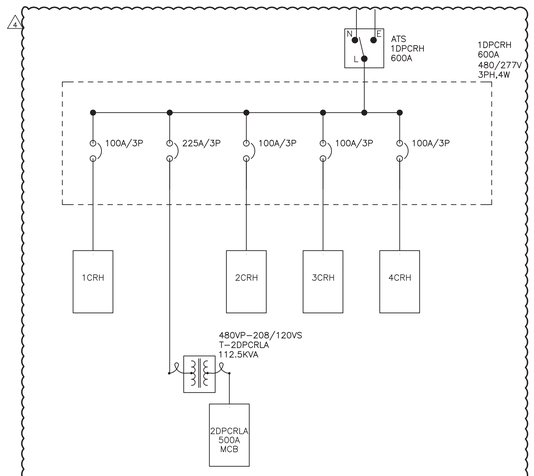


2 ELECTRICAL RISER DIAGRAM

N.T.S.

NOTES:

1. EXISTING ONE-LINE DIAGRAM SHOWN FOR REFERENCE ONLY. NEW LOAD TO BE FED FROM EXISTING PANEL 4CRH; NO NEW ELECTRICAL DISTRIBUTION IS TO BE PROVIDED AS PART OF THIS PROJECT.

Install electrical connections per 2020 NEC 110.14, Identify disconnects per 2020 NEC 110.22 and provide working space around Electrical equipment per 2020 NEC 110.26

Service Equipment shall be permanently And legibly marked to show the available Fault current and date. 2020 NEC 110.24(A)(B)

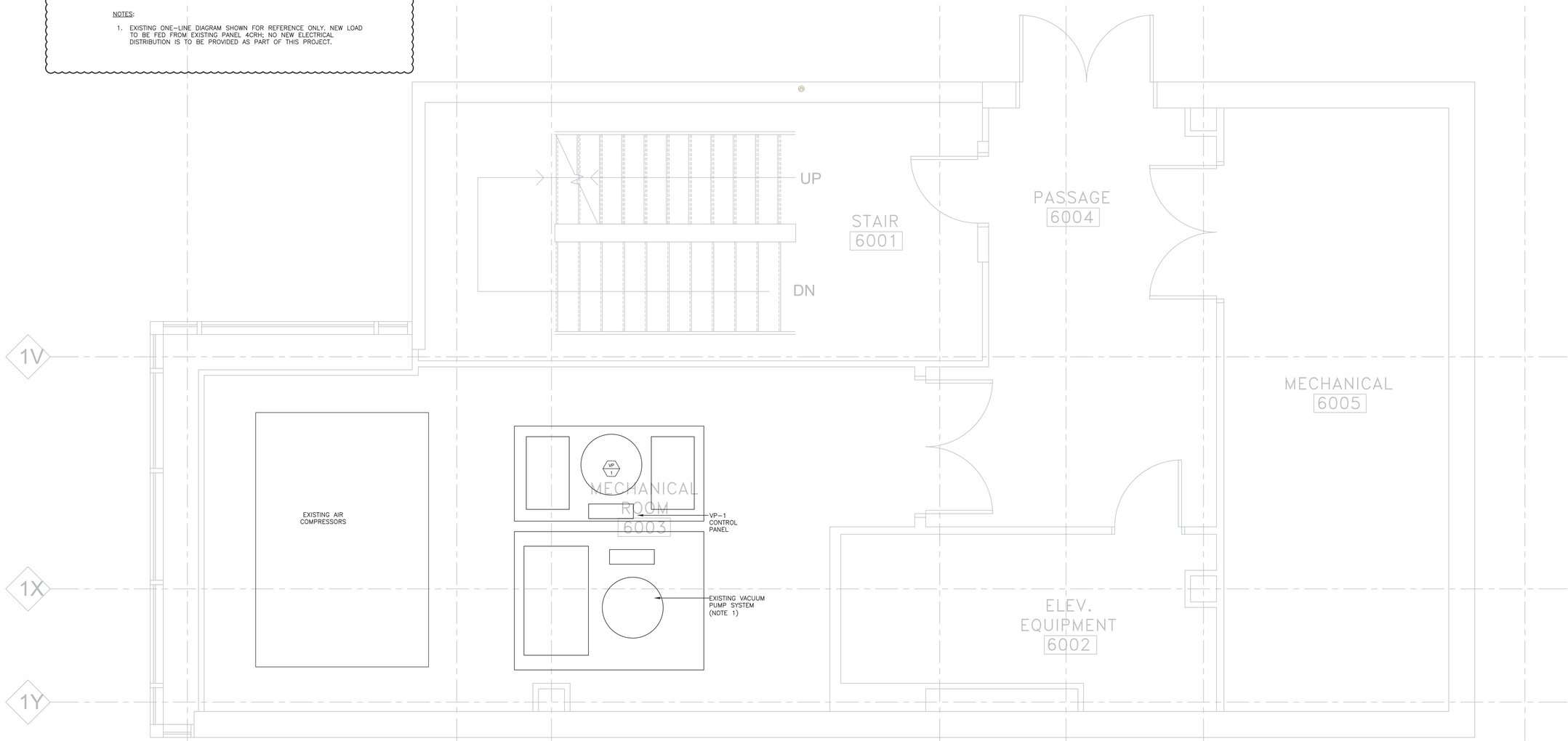
MOTOR/EQUIPMENT SCHEDULE

TAG	DESCRIPTION	LOCATION	ELECTRICAL RATING					FEEDER/SOURCE				DISCONNECT		STARTER		NOTES
			KW	FLA	HP	VOLT	PH	PANEL	CCT	OCPD	WIRING	INTEGRAL	BY EC	SIZE	TYPE	
VP-1	QUADRAPLEX VACUUM PUMP SYSTEM	PENTHOUSE	38.9	46.8	(4) 7.5	480	3	4CRH	-	60A/3P	3P-3W+G	X	-	-	-	1,2,3

NOTES:
1. TERMINATE CIRCUIT IN SYSTEM CONTROL PANEL MOUNTED ON THE UNIT.
2. REFER TO RISER DIAGRAM FOR MORE INFORMATION.
3. PROVIDE WIRING FROM NEW SYSTEM CONTROL PANEL TO MASTER ALARM PANEL LOCATION. COORDINATE EXACT REQUIREMENTS WITH PLUMBING CONTRACTOR.

PANEL 1DPCRH LOAD SUMMARY	
EXISTING DEMAND LOAD (30-DAY LOAD STUDY):	154 KVA
ADD 25% OF EXISTING DEMAND LOAD	39 KVA
NEW LOAD:	38.9 KVA
REMOVED LOAD:	-23 KVA
DESIGN LOAD:	208 KVA 251 AMPS
PANEL RATING:	600 AMPS

PANEL 4CRH LOAD SUMMARY	
EXISTING DEMAND LOAD (30-DAY LOAD STUDY):	5.2 KVA
ADD 25% OF EXISTING DEMAND LOAD	1 KVA
NEW LOAD:	38.9 KVA
REMOVED LOAD:	0 KVA
DESIGN LOAD:	45 KVA 55 AMPS
PANEL RATING:	100 AMPS



1 ELECTRICAL PENTHOUSE PLAN

1/2"=1'-0"

0 1 2 4

NOTES:
1. DISCONNECT AND REMOVE EXISTING BRANCH CIRCUIT SERVING THE EXISTING VACUUM PUMP SYSTEM BACK TO EXISTING PANEL 5CRH (45A/3P CB) LOCATED IN 5TH FLOOR ELECTRICAL ROOM 5094. NEW VACUUM PUMP SYSTEM SHALL BE INSTALLED AND FULLY OPERATIONAL PRIOR TO DEMOLITION OF THE ELECTRICAL FEED TO THE EXISTING VACUUM PUMP SYSTEM. VERIFY ALL EXISTING CONDITIONS ON SITE.

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

City of Aurora Building Division
Project: *Plan Revisions*
Address: *1501 S Potomac St.*
Occupancy Group: *IBC I-2*
Construction Type: *IBC IA-SPK*
RSN: *1607494*
Permit: *22-2110796*

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Erick M. Bumpass*
Date: *Mar 01, 2022*
2015 INTERNATIONAL CODES & 2020 NEC

COLORADO LICENSED MICHAEL P. THOMPSON 53150 PROFESSIONAL ENGINEER

THE MEDICAL CENTER OF AURORA
CARDIAC TOWER VACUUM PUMP REPLACEMENT
1501 S. POTOMAC ST.
AURORA, CO 80012

REVISION		
MARK	DATE	DESCRIPTION
1	03.22.2021	99% CONSTRUCTION DOCUMENTS
2	03.29.2021	100% CONSTRUCTION DOCUMENTS
3	06.24.2021	EQUIPMENT COORDINATION
4	02.02.2022	PERMIT REVISIONS

SALAS O'BRIEN
815 South Wabash Avenue Chicago, IL 60605
9250 East Costilla Avenue Greenwood Village, CO 80112

SHEET TITLE:
ELECTRICAL PENTHOUSE PLAN

PROJECT NUMBER:
2021-00498-00

SHEET NUMBER:
E1.01

RSN: *1607494*
Permit #: *22-2110796*

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