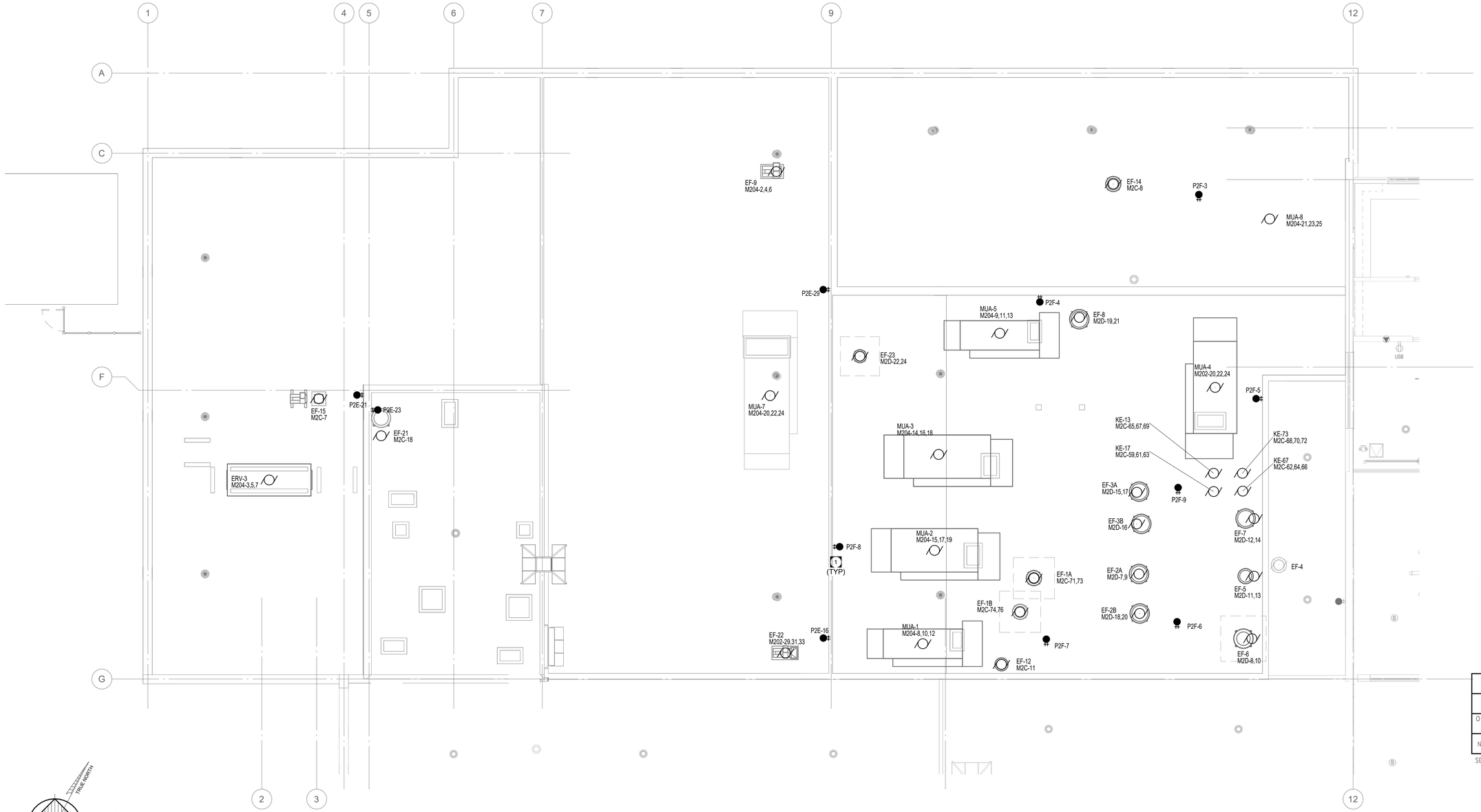

2 EP2.3 ROOF - POWER AND SYSTEMS PLAN

SCALE 1 : 100

KEY NOTES

1 EXTERIOR MAINTENANCE RECEPTACLE TO SUIT REQUIREMENTS OF CEC 2-316 AND 26-710. REFER TO ROOF MOUNTED RECEPTACLE DETAIL(S). REFER TO ELECTRICAL PENETRATIONS THROUGH ROOF DETAIL(S).

GENERAL NOTES

A. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
B. PROVIDE LOCKABLE ENCLOSURES WITH COMMON KEY ON ALL STARTERS AND DISCONNECT SWITCHES LOCATED IN PUBLIC AREAS. KEYS SHALL BE HANDED OVER TO OWNER AT END OF PROJECT.
C. FINAL CONNECTION TO ALL MECHANICAL EQUIPMENT SHALL BE FLEXIBLE. CONFIRM FINAL CIRCUIT BREAKER AND WIRE SIZE WITH MECHANICAL EQUIPMENT SHOP DRAWINGS. ADJUST CIRCUIT BREAKER AND WIRE SIZE AS REQUIRED WITHOUT ADDITIONAL COST TO OWNER.
D. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 100mm (4"),HIGH, 4% AIR ENTRAINED, POLY FIBER REINFORCED CONCRETE, 100mm (4") LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO STRUCTURAL DETAIL DRAWINGS FOR HOUSEKEEPING PADS THAT MAY EXCEED THESE REQUIREMENTS.
E. COORDINATE LOCATION AND MOUNTING HEIGHT OF ELECTRICAL DEVICES IN CRAWLSPACE WITH ALL DISCIPLINES AND TRADES PRIOR TO INSTALLATION.
F. COORDINATE FINAL LOCATION OF ELECTRICAL WITH FURNITURE LAYOUTS PRIOR TO ROUGH-IN.
G. HOMERUN ALL COMMUNICATIONS CABLING BACK TO NEAREST IDC ROOM UNLESS SPECIFICALLY NOTED OTHERWISE.
H. COMMUNICATIONS CABLING SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.
I. COMMUNICATIONS CONDUIT SHALL BE INSTALLED WITH NO MORE THAN TWO (2) 90° BENDS BETWEEN PULL BOXES, AND NO MORE THAN 30m (100 '-0") BETWEEN PULL BOXES. PULL BOXES SHALL BE INSTALLED FOR STRAIGHT THRU PULLS ONLY.
J. ELECTRICAL CONTRACTOR SHALL COORDINATE QUANTITIES AND LOCATIONS OF ALL FLOW SWITCHES AND SUPERVISED VALVES REQUIRING CONNECTION TO FIRE ALARM SYSTEM WITH SPRINKLER CONTRACTOR.
K. PROVIDE TESTING AND VERIFICATION FOR ALL NEW AND MODIFIED FIRE ALARM DEVICES.
L. REFER TO FIRE ALARM RISER DIAGRAM FOR FURTHER REQUIREMENTS.
M. HEAT DETECTORS WITHIN CRAWLSPACE SHALL BE NON-ADDRESSABLE MOISTURE PROOF TYPE.
N. ALL MANUAL STATIONS SHALL BE INSTALLED COMPLETE WITH VANDAL GUARD.
O. COORDINATE FINAL LOCATION OF ELECTRICAL WITH FURNITURE LAYOUTS PRIOR TO ROUGH-IN.
P. HOMERUN ALL SYSTEMS CABLING BACK TO NEAREST IDC ROOM UNLESS SPECIFICALLY NOTED OTHERWISE.

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Epp Siepman Engineering Inc.
No. 4035

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No.	REVISION/DESCRIPTION	BY	DATE
0	ISSUED FOR TENDER	JS/MP	24-04-01

SEAL

PROVINCE OF MANITOBA
M.G. PENNER
Member
23792
2024-04-01
LICENSED PROFESSIONAL ENGINEER

DRAWN	CHECKED	DESIGNED	APPROVED
EW	MP/KG	KG	MP/KG

DATE 2024-04-01 USER APPROVAL

Winnipeg
THE CITY OF WINNIPEG
ASSETS & PROJECT MANAGEMENT DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3-65 GARRY STREET, R3C 4K4

PROJECT
PEMBINA TRAILS COLLEGIATE
VOCATIONAL WING
TENDER NO. 954-2023B
50 FRONTIER TRAIL, WINNIPEG, MANITOBA, R3Y 2H1

SHEET TITLE
Roof - Power & Systems Plan

SCALE	PROJECT No:	SHEET No:
As indicated	2020-127	EP2.3

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