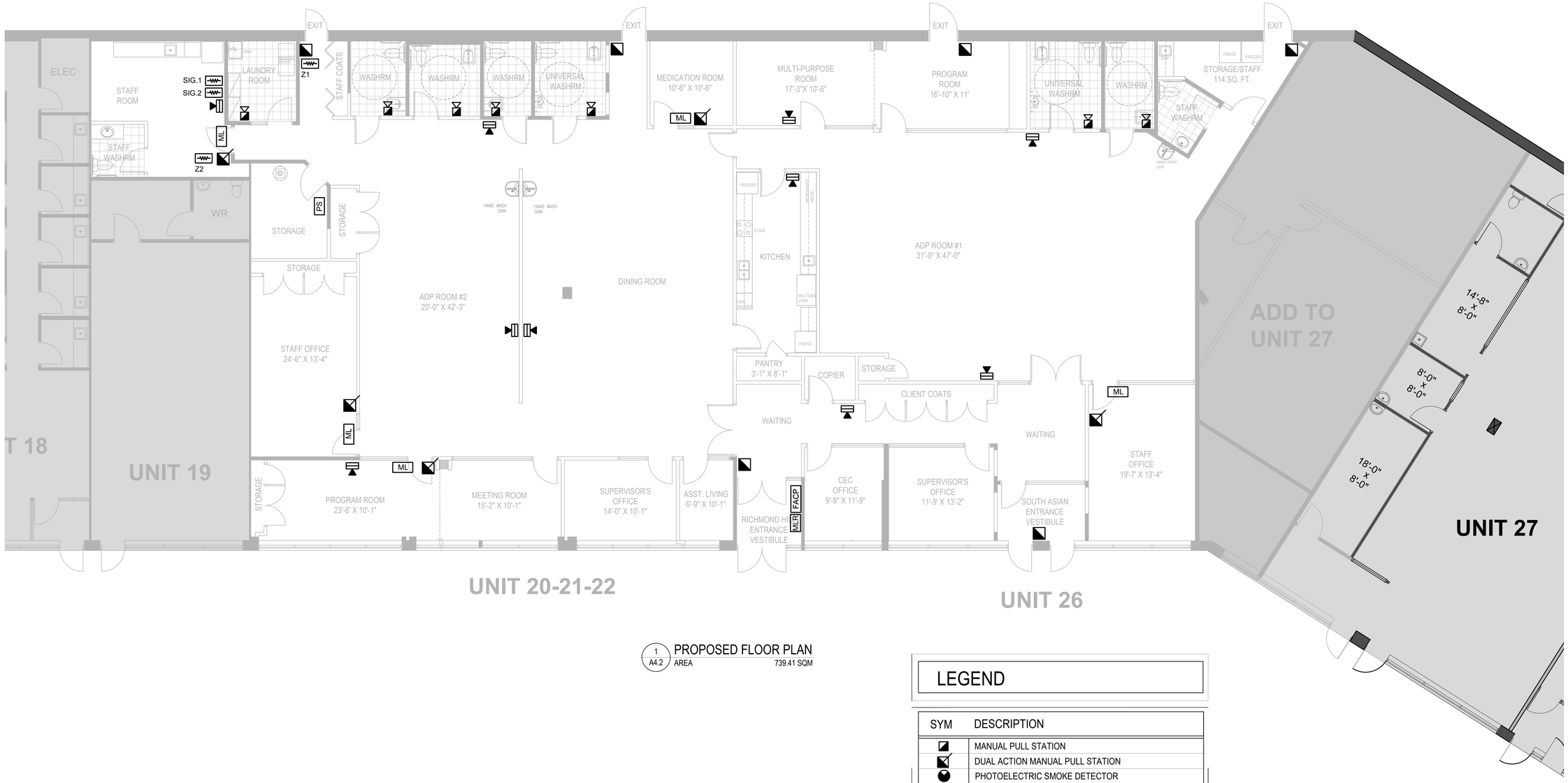


1 / A4.2 PROPOSED FLOOR PLAN

AREA 739.41 SQM

LEGEND

SYM	DESCRIPTION
	MANUAL PULL STATION
	DUAL ACTION MANUAL PULL STATION
	PHOTOELECTRIC SMOKE DETECTOR
	57 ℃ FIXED TEMPERATURE HEAT DETECTOR
FACP	FIRE ALARM CONTROL PANEL
	FIRE ALARM STROBE
	COMBINATION FIRE ALARM HORN/STROBE
	END OF LINE DEVICE
ML	ELCTROMAGNETIC LOCKING DEVICE (MAG LOCK)
PS	MAG LOCK POWER SUPPLY
MLR	MAG LOCK RELEASING KEY
	MAG LOCK RELEASING PUSH BUTTON

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NO.	ISSUED FOR	DATE
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DRAWING
FIRE ALARM SYSTEM FLOOR PLAN

DRAWN	MNGR.
TIN	KBK

PLOTTED DATE
AUG 27, 2026

SCALE @24"X36"

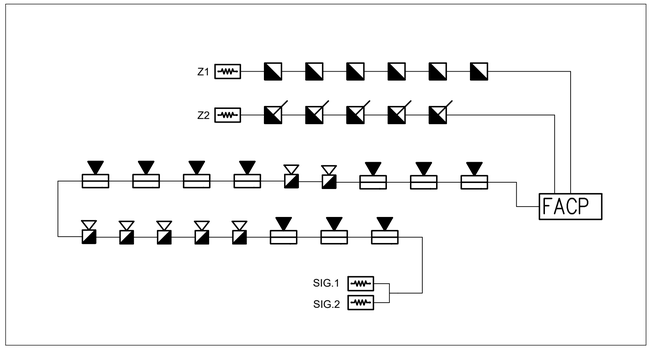
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DRAWING NO
FA-01

FIRE ALARM GENERAL SPECIFICATIONS AND NOTES

1. FIRE ALARM CONTROL PANEL: SUPPLY AND INSTALL A MIRCOM FA–300 SERIES CONVENTIONAL FIRE ALARM CONTROL PANEL, OR APPROVED EQUIVALENT, ULC LISTED, COMPLETE WITH POWER SUPPLY, BATTERIES, NOTIFICATION APPLIANCE CIRCUITS, MODULES AND ALL ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. PROVIDE COMPATIBLE INITIATING AND NOTIFICATION DEVICES THAT ARE LISTED FOR USE WITH, AND APPROVED BY, THE FIRE ALARM CONTROL PANEL MANUFACTURER. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS, CAN/ULC–S524 AND ALL APPLICABLE CODES AND STANDARDS.
2. SUPPLY AND INSTALL ALL MATERIALS, EQUIPMENT AND ACCESSORIES SHOWN ON THE DRAWINGS AND REQUIRED FOR THE SATISFACTORY COMPLETION OF THE FIRE ALARM WORK. ALL EQUIPMENT SHALL BE FULLY OPERATIONAL, TESTED AND VERIFIED TO THE SATISFACTION OF THE ENGINEER. COMPLY WITH ALL APPLICABLE REQUIREMENTS AND CONDITIONS OF THE CONTRACT.
3. THE CONTRACTOR SHALL SUBMIT A LUMP–SUM PRICE BASED ON THE DRAWINGS AND SPECIFICATIONS. WHERE ALTERNATIVE MATERIALS OR EQUIPMENT ARE PROPOSED, THE BID SHALL CLEARLY IDENTIFY THE PROPOSED MANUFACTURER AND MODEL, TOGETHER WITH ANY COST ADJUSTMENT FROM THE SPECIFIED SYSTEM.
4. PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT AND INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING BUILDING CONSTRUCTION, CONDITIONS AND SITE CONSTRAINTS. THE CONTRACTOR SHALL INCLUDE ALL LABOUR, MATERIALS, EQUIPMENT AND WORK NECESSARY FOR A COMPLETE INSTALLATION.
5. ALL WORK SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF THE ONTARIO BUILDING CODE, ONTARIO FIRE CODE, CAN/ULC STANDARDS, CANADIAN ELECTRICAL CODE, APPLICABLE LOCAL BY–LAWS, AND THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION (AHJ).
6. OBTAIN ALL REQUIRED PERMITS AND APPROVALS, PAY ALL APPLICABLE FEES, AND FURNISH CERTIFICATES AND DOCUMENTATION CONFIRMING THAT THE COMPLETED INSTALLATION COMPLIES WITH THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
7. THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS AND SPECIFICATIONS AND SHALL PROMPTLY REPORT ANY ERRORS, INCONSISTENCIES OR OMISSIONS TO THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED WORK. DO NOT PROCEED WHERE CONDITIONS OR REQUIREMENTS ARE UNCLEAR.
8. CUTTING AND PATCHING: INCLUDE ALL CUTTING, CORING, DRILLING AND PATCHING REQUIRED FOR THE COMPLETE INSTALLATION OF THE FIRE ALARM SYSTEM. FINAL ARCHITECTURAL FINISHES TO MATCH EXISTING CONDITIONS SHALL BE BY OTHERS UNLESS SPECIFICALLY INDICATED OTHERWISE.
9. WARRANTY: THE CONTRACTOR SHALL WARRANT ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING, AT NO ADDITIONAL COST TO THE OWNER, DEFECTS ATTRIBUTABLE TO THE CONTRACTOR'S OR SUBCONTRACTOR'S WORK, MATERIALS OR EQUIPMENT DURING THE WARRANTY PERIOD.
10. COORDINATE ALL CONDUIT ROUTING AND INSTALLATION WITH THE OWNER AND OTHER TRADES PRIOR TO INSTALLATION. CONCEAL CONDUITS WHERE INDICATED OR WHERE PRACTICAL.
11. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS FOR THE FIRE ALARM CONTROL PANEL, INITIATING DEVICES, NOTIFICATION APPLIANCES, MODULES AND ASSOCIATED EQUIPMENT TO THE OWNER/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR INSTALLATION. SHOP DRAWINGS SHALL INCLUDE PRODUCT DATA, SYSTEM CONFIGURATION, BATTERY CALCULATIONS, NAC LOADING AND VOLTAGE–DROP CALCULATIONS, AS APPLICABLE.
12. OPERATION AND MAINTENANCE MANUALS: UPON COMPLETION, PROVIDE THE OWNER WITH TWO (2) COPIES OF OPERATION AND MAINTENANCE MANUALS FOR THE FIRE ALARM SYSTEM, INCLUDING THE CONTROL PANEL, DEVICES, MODULES AND ASSOCIATED EQUIPMENT.
13. THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH CAN/ULC–S524 AND SHALL BE TESTED AND VERIFIED IN ACCORDANCE WITH CAN/ULC–S537, USING THE EDITIONS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
14. THE FIRE ALARM CONTRACTOR SHALL PROVIDE RED–LINE AS–BUILT DRAWINGS SHOWING THE FINAL INSTALLED LOCATIONS, DEVICE IDENTIFICATION, CIRCUIT/ZONE CONNECTIONS AND ROUTING OF FIRE ALARM WIRING AND CONDUIT. SUBMIT AS–BUILT DRAWINGS TO THE ENGINEER/OWNER UPON COMPLETION OF THE WORK.
15. FIRE ALARM WIRING: PROVIDE ALL FIRE ALARM CIRCUIT WIRING USING FPLR (OR FPL WHERE PERMITTED) FIRE ALARM CABLE, WITH RED JACKET, SUITABLE FOR THE APPLICATION AND INSTALLED IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE (OESC), SECTION 32, CAN/ULC–S524, THE FIRE ALARM SYSTEM MANUFACTURER'S REQUIREMENTS AND ALL APPLICABLE CODES AND STANDARDS.
16. INITIATING DEVICE CIRCUITS (IDC) AND NOTIFICATION APPLIANCE CIRCUITS (NAC): PROVIDE CLASS B CIRCUITS UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR REQUIRED BY THE APPROVED FIRE ALARM SYSTEM CONFIGURATION. INSTALL AND CONNECT ALL CIRCUITS IN ACCORDANCE WITH THE MIRCOM FA–300 MANUFACTURER'S APPROVED WIRING DIAGRAMS AND INSTALLATION REQUIREMENTS. PROVIDE THE REQUIRED END–OF–LINE (EOL) DEVICES AT THE ELECTRICALLY LAST DEVICE ON EACH CLASS B CIRCUIT.
17. WIRING SEPARATION: FIRE ALARM SYSTEM CONDUCTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE OESC SECTION 32 REQUIREMENTS FOR SEPARATION FROM OTHER CIRCUITS. PROVIDE SEPARATE RACEWAYS FOR FIRE ALARM CIRCUITS WHERE REQUIRED BY THE OESC, CAN/ULC–S524, OR THE AHJ. FIRE ALARM CONDUCTORS SHALL NOT BE INSTALLED IN THE SAME RACEWAY WITH POWER OR OTHER CIRCUITS EXCEPT WHERE SPECIFICALLY PERMITTED BY THE OESC.
18. CONDUCTOR SIZING AND VOLTAGE DROP: SIZE FIRE ALARM CIRCUIT CONDUCTORS IN ACCORDANCE WITH THE OESC, CAN/ULC–S524 AND THE FIRE ALARM SYSTEM MANUFACTURER'S REQUIREMENTS. NAC CONDUCTOR SIZES SHALL BE VERIFIED BY VOLTAGE–DROP CALCULATIONS BASED ON THE MAXIMUM CONNECTED NOTIFICATION APPLIANCE LOAD AND THE LONGEST CIRCUIT RUN. DO NOT ASSUME 18 AWG CONDUCTORS ARE ACCEPTABLE WITHOUT VERIFICATION. PROVIDE CONDUCTORS OF SUFFICIENT SIZE TO MAINTAIN THE MINIMUM OPERATING VOLTAGE REQUIRED AT THE MOST REMOTE NOTIFICATION APPLIANCE AND TO COMPLY WITH THE FIRE ALARM SYSTEM MANUFACTURER'S MAXIMUM CIRCUIT RESISTANCE REQUIREMENTS.
19. END–OF–LINE DEVICES: PROVIDE END–OF–LINE RESISTORS OR OTHER REQUIRED END–OF–LINE DEVICES OF THE **CORRECT TYPE AND VALUE SPECIFIED BY MIRCOM FOR EACH CLASS B CIRCUIT. EOL DEVICES SHALL BE INSTALLED AT THE ELECTRICALLY LAST DEVICE ON THE CIRCUIT AND IN ACCORDANCE WITH THE **MIRCOM FA–300 APPROVED WIRING DIAGRAMS.

RISER DIAGRAM



ALARM ZONES

Z#	DESCRIPTION
Z1	INITIATING DEVICES
Z2	MAGLOCK MANUAL PULL STATIONS

SIGNAL CIRCUITS

SIG #	DESCRIPTION
SIG. 1	HORNS
SIG. 2	STROBES

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DRAWING
FIRE ALARM SYSTEM NOTES AND NOTES

DRAWN	MNGR.	DRAWING NO
TN	KBK	FA-02

PLOTTED DATE
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