
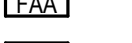
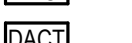

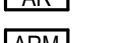

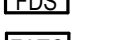



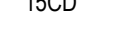




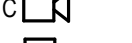







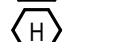
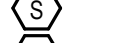
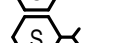



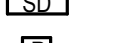














ABBREVIATIONS	
(E)	EXISTING ITEM
(ED)	EXISTING ITEM TO BE DEMOLISHED
(ER)	EXISTING ITEM TO BE RELOCATED
(F)	FUTURE
(N)	NEW
(RL)	EXISTING ITEM RELOCATED
A	AMP AMPERE
AV, AV	AUDIO VISUAL
AV, AV	AIR CONDITIONING
AF AT	AMP FRAME / AMP TRIP
AF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ANC	AMPS INTERRUPTING CURRENT
AL	ALUMINUM
ARF	ABOVE BASED FLOOR
ARF	ARC FAULT
ASJ	AMP SWITCH / AMP FUSE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CORRUG
CAB	CABINET
CB	CIRCUIT BREAKER
CO	CIRCUIT
CL	CENTER LINE
CLF	CURRENT LIMITING FUSE
CLG	CEILING
CONTR	CONTRACTOR
CONV	CONVENIENCE
CT	CURRENT TRANSFORMER
CJ	COPPER
D.O.	DRAWOUT
DC	DOOR CONTACT
DISC	DISCONNECT
DIST	DISTRIBUTION
DW	DESHADER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRICAL
EM, EMERG	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
FA	FIRE ALARM
FEEDER	FEEDER
FIXT	FIXTURE
FL	FLOOR
FP	FIRE PROTECTION
G, GND	GROUND
GEN	GENERATOR
GF	GROUND FAULT
GFI	GROUND FAULT INTERRUPTOR
HOA	HAND OFF AUTOMATIC SWITCH
HP	HORSE POWER
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HW	HOT WATER HEATER
HZ	HERTZ
IG	ISOLATED GROUND
J	JUNCTION BOX
KAC	KILO AMPERE INTERRUPTING CURRENT
KMILS	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPS
KW	KILOWATTS
LSIG	LONG, SHORT INSTANTANEOUS AND GROUND FAULT TRIP FUNCTION LIGHTING
LTD	LIGHTING
MAX	MAXIMUM
MB	MOTORIZED BACKBOARD
MC	METAL CLAD
MC	MOTORIZED CURTAIN
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MFG	MANUFACTURERS
MNT	MOUNTING HEIGHT
MI	MINERAL INSULATED
MLO	MAIN LUGS ONLY
MOD	MOTORIZED OVERHEAD DOOR
MPS	MOTORIZED PROJECTION SCREEN
MS	MOTORIZED SHADES
MTD	MOUNTED
MW	MICROWAVE
N	NEUTRAL
NC	NORMALLY CLOSED
NC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
N	NUMBER
NTS	NOT TO SCALE
OFE	OWNER FURNISHED EQUIPMENT
P	POLES
PC	PUMPING CONTRACTOR
PH	PHASE
PL	OUTLET DEVICE WITH PLATE ONLY
PLN	PANEL
PRE	PRE-PURCHASED EQUIPMENT
PRT	PRINTER
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
QUAD	QUADRAPLEX
REC	RECESSED
RECEPT	RECEPTACLE
REF	REFRIGERATOR
RF	RETURN FAN
RGS	RIGID GALVANIZED STEEL
RM	ROOM
SB	SCORE BOARD
SEC	SECONDARY
SF	SUPPLY FAN
SRU	SELEND KEY RELEASE UNIT
SFD	SURGE PROTECTION DEVICE
SSCAF	SHORT CIRCUIT COORDINATION ARC FLASH
ST	SHUNT TRIP
SW	SWITCH
SWD	SWITCH BOARD
SWGR	SWITCH GEAR
TC	(TEL/COM) TELECOMMUNICATIONS
TR	TIME DELAY RELAY
TEL	TELEPHONE
TF	TRANSFER FAN
TP	TAMPER PROOF
TPS	TWISTED PAIR SHIELDED
TP	TYPICAL
UC	UNDERCOUNTER
UCR	UNDER COUNTER REFRIGERATOR
UF	UNDERFLOOR
UH	UNIT HEATER
UN	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPS
W	WATTS
WP	WEATHER PROOF
WTR	TRANSFORMER

GENERAL NOTES	
1. THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL EQUIPMENT, MATERIALS, LABOR AND SERVICES AND PERFORMING ALL OPERATIONS TO COMPLETE THE CONSTRUCTION WORK FOR THIS PROJECT. ANY WORK NOT SPECIFICALLY COVERED BY THESE SPECIFICATIONS OR INDICATED ON THE CONTRACT DRAWINGS, BUT NECESSARY TO COMPLETE OR PERFECT ANY PART OF THIS INSTALLATION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER.	2. THE WORK SHALL CONFORM TO THE MORE STRINGENT OF ALL APPLICABLE CODES & REGULATIONS, AS GUIDELINES, MANUFACTURERS LITERATURE AND RECOMMENDATIONS, AND TO THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL REGULATORY AGENCIES AND AUTHORITIES HAVING JURISDICTION.
3. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE EXTENT, GENERAL CHARACTER, LOCATION AND ARRANGEMENT OF THE WORK UNDER THIS CONTRACT. WHERE JOB CONDITIONS REQUIRE MINOR CHANGES OR ADJUSTMENTS IN THE INDICATED LOCATIONS OR ARRANGEMENT OF THE WORK, SUCH CHANGES SHALL BE PROVIDED WITHOUT EXTRA COST. THE CONTRACTOR SHALL RE-INSTALL EQUIPMENT THAT HAS INADEQUATE OR UNSAFE ACCESSIBILITY.	4. INSTALLATION OF WORK SHALL PROVIDE REASONABLE ACCESSIBILITY FOR OPERATION, INSPECTION AND MAINTENANCE OF EQUIPMENT AND ACCESSORIES. PROVIDE CLEARANCES REQUIRED BY MANUFACTURERS AND APPLICABLE CODES. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO EQUIPMENT AND RELATED ACCESSORIES.
5. THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "MECHANICAL WORK," "ELECTRICAL WORK," "PLUMBING WORK," ETC. SHALL MEAN ALL LABOR, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.	6. THE CM/CA SHALL MAKE SETS OF THE BID DOCUMENTS CONSISTING OF COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS, AND ISSUE THEM TO EACH OF THE PRIME AND SUB-CONTRACTORS. EVERY PRIME AND SUB-CONTRACTOR ON EACH BIDDING TEAM SHALL RECEIVE COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS. THERE ARE NOTES AND VARIOUS REPRESENTATIONS TO OBTAIN THESE DRAWINGS FROM MULTIPLE TRADE OR DISCIPLINE DRAWINGS AND SPECIFICATIONS. THIS EACH CONTRACTOR IS TO RECEIVE COMPLETE SETS OF THE BID DOCUMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN THESE DRAWINGS FROM CM/CA. EACH CONTRACTOR IS RESPONSIBLE FOR THEIR WORK, AS NOTED ON THE OTHER DISCIPLINE DOCUMENTS. BIDDERS ARE RESPONSIBLE FOR ALL COSTS FOR EACH SET OF BID DOCUMENTS REQUESTED.
7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL COORDINATION EFFORT IN ORDER TO CREATE A FINALIZED COORDINATED LAYOUT OF ALL EQUIPMENT, PIPING, SYSTEMS, DUCTWORK, AND OTHER ITEMS WITHIN THEIR RESPECTIVE SCOPE. THE CONTRACTORS COORDINATION EFFORT SHALL INCLUDE COORDINATED INFORMATION FROM ALL OTHER TRADE CONTRACTORS INVOLVED IN THE PROJECT AND IN ORDER TO PROVIDE COORDINATION BETWEEN TRADES AND ALL CONDITIONS. ALL ERRORS MADE AS A RESULT OF A LACK OF COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND CORRECTED AT NO ADDITIONAL COST TO THE PROJECT. MINOR RELOCATIONS AND SHIFTS OF EQUIPMENT, DUCTWORK, AND PIPING WHICH DO NOT CHANGE THE DESIGN INTENT INDICATED ON THE CONTRACT DOCUMENTS, REQUIRED TO ACCOMMODATE FIELD CONDITIONS ARE AT THE CONTRACTORS DISCRETION AND DO NOT REQUIRE ENGINEER APPROVAL.	8. CONTRACTOR SHALL ARRANGE AND OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS, AND PAY ALL RELATED FEES.
9. THE DRAWINGS INDICATE APPLICABLE LOCATIONS BASED UPON INFORMATION OBTAINED WITHOUT REMOVING CEILING TILES OR WALLS. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS TO ADDRESS CONFLICTS BETWEEN THE DRAWINGS AND CONDITIONS. ANY CHANGES AND MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.	10. FOR ANY DISCREPANCY BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BASE THEIR BID UPON THE MOST STRINGENT REQUIREMENT (QUALITY, QUANTITY, SIZE, ETC.). THE CONTRACTOR SHALL IDENTIFY DISCREPANCIES AS PART OF THEIR BID.
11. THE CONTRACTOR SHALL EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE ITEMS DAMAGED.	12. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK AND/OR PIPING, CAREFULLY COORDINATE SIZES AND LOCATIONS OF THE ELEMENTS BEFORE FABRICATION, COORDINATE WITH FINAL LOCATION OF BEAM PENETRATIONS AND SHEAR WALL PENETRATIONS.
13. CONTRACTOR SHALL COORDINATE LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS WITH STRUCTURAL AND OTHER TRADES.	14. WHEN WORK INVOLVES CONTACT WITH MATERIALS CONTAINING ASBESTOS, PCB, OR OTHER TOXIC MATERIALS, NOTIFY OWNER, WHO WILL ESTABLISH PROCEDURES FOR REMEDIATION AND REMOVAL.
15. CONTRACTOR SHALL SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO DELAY THE OVERALL PROGRESS OF THE PROJECT.	16. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS.
17. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER SPECIFICATIONS PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INDICATED ON CONTRACT DOCUMENTS. PRIOR TO SUBMITTAL, CONTRACTOR SHALL VERIFY THAT ADEQUATE SPACE EXISTS FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED BY ARCHITECT/ENGINEER.	18. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY OTHER TRADES DUE TO SUBSTITUTION OF OTHER THAN SCHEDULED EQUIPMENT. WHEN EQUIPMENT FURNISHED IS DIFFERENT THAN INDICATED, THE COST OF ADDITIONAL ELECTRICAL SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR.
19. ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE DONE IN ACCORDANCE WITH GOOD TRADE PRACTICE AND IN CONFORMANCE WITH APPLICABLE MANUFACTURERS' RECOMMENDATIONS.	20. CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS AND MATERIAL FROM PREMISES AT THE END OF EACH DAY.
21. RESTORE ALL SURFACES (WALLS, CEILINGS, FLOORS AND ROOFS) THAT ARE DAMAGED BY THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER.	22. PRIOR TO EQUIPMENT STARTUP, CONTRACTOR SHALL PERFORM THE SPECIFIED STARTUP AND COMMISSIONING PROCEDURES.
23. IN THE ABSENCE OF OTHER SPECIFIC INSTRUCTIONS, ALL WORK AND MATERIALS SUPPLIED SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER.	24. BALA CONSULTING ENGINEERS, INC. (BALA) WILL PROVIDE CONTRACTOR WITH ELECTRONIC CAD/D FILES OF THE ENGINEERING DESIGNS FOR THE SOLE USE IN EXISTING SHOP DRAWINGS. BALA'S FILES SHALL NOT BE DIRECTLY COPIED AND ISSUED AS SHOP DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE SPECIFICATIONS. SHOULD THE SHOP DRAWINGS SUBMITTED PROVE TO BE A DIRECT COPY OF OUR FILES WITHOUT THE NECESSARY FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE SPECIFICATIONS, THESE SHOP DRAWINGS WILL BE RETURNED AS REJECTED. BALA'S ELECTRONIC FILES ARE SAVED IN VERSION REVIT 2021 AND ARE COMPATIBLE WITH ALL VERSIONS AFTER THAT. BALA MAKES NO REPRESENTATION AS TO THE COMPATIBILITY OF THESE FILES WITH THE CONTRACTORS HARDWARE OR THEIR SOFTWARE. DATA CONTAINED ON THESE ELECTRONIC FILES ARE PART OF BALA'S "INSTRUMENTS OF SERVICE" AND ARE COPYRIGHTED. CONTRACTORS USE OF FILES IS FOR THE SOLE PURPOSE AS A CONVENIENCE IN THE PREPARATION OF DRAWINGS FOR THE REFERENCED PROJECT. ANY OTHER USE OR REUSE BY CONTRACTOR IS UNLAWFUL.

FIRE ALARM GENERAL NOTES	
1. PROVIDE ALL EQUIPMENT, MATERIALS, LABOR AND PERFORM ALL OPERATIONS ASSOCIATED WITH THE INSTALLATION OF FIRE ALARM NOTIFICATION DEVICES (AUDIO AND VISUAL), SMOKE DETECTORS, HEAT DETECTORS AND SMOKE DUCT DETECTORS FOR ALL UNITS AND OTHER RELATED FIRE ALARM DEVICES AS REQUIRED.	2. PROVIDE FIRE ALARM SYSTEM COVERAGE FOR THE NEW TENANT AREA.
3. THE SYSTEM SHALL BE COMPLETELY WIRED, CONNECTED, TESTED AND VERIFIED TO BE IN GOOD OPERATING CONDITION.	4. COORDINATE WITH THE BUILDING'S FIRE ALARM VENDOR FOR CONNECTION OF NEW FIRE ALARM DEVICES TO THE BUILDING FIRE ALARM SYSTEM.
5. THE CONTRACTOR SHALL PAY ALL CHARGES FOR THE CONNECTION TO, MODIFICATIONS TO THE SYSTEM AND REPROGRAMMING OF THE BUILDING FIRE ALARM SYSTEM. FIRE ALARM VENDORS FEE SHALL BE INCLUDED IN THE BID.	6. ALL EQUIPMENT SHALL BE UL LISTED.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, AMERICANS DISABILITY ACT (ADA), NFPA 72 NATIONAL FIRE ALARM CODE, FIRE DEPARTMENT RULES AND REGULATIONS, APPLICABLE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE WITH AMENDMENTS AND THE LANDLORDS DESIGN CRITERIA REQUIREMENTS FOR TENANT ALTERATIONS.	8. UPON COMPLETION OF ALL FIRE ALARM WORK AND ASSOCIATED TESTS, THE CONTRACTOR SHALL FILE AN APPLICATION WITH THE FIRE DEPARTMENT FOR A CERTIFICATE OF APPROVAL OF THE SYSTEM.
9. SUBMIT CERTIFICATE OF APPROVAL TO THE BUILDING ENGINEER OR OWNERS REPRESENTATIVE BEFORE REQUESTING FINAL PAYMENT AND ACCEPTANCE OF WORK.	10. ALL ITEMS AND EQUIPMENT SHALL BE COMPATIBLE WITH THE BUILDING FIRE ALARM SYSTEM. CONTRACTOR SHALL COORDINATE WITH BUILDINGS FIRE ALARM VENDOR FOR EXACT EQUIPMENT SPECIFICATION.
11. FIRE ALARM SPEAKER, WHETHER IN COMBINATION WITH A STROBE LIGHT UNIT OR AS A STAND ALONE DEVICE SHALL BE COMPATIBLE WITH THE BUILDING FIRE ALARM SYSTEM AND SHALL BE UL/FM LISTED. COLORS AND FINISHES SHALL BE COORDINATED WITH ARCHITECT.	12. FIRE ALARM STROBE LIGHTS, WHETHER IN COMBINATION WITH A SPEAKER UNIT OR AS A STAND ALONE DEVICE, SHALL HAVE A XENON STROBE OR EQUIVALENT, WITH A CLEAR WHITE LENS, MAXIMUM PULSE DURATION OF 0.2 SECONDS MAX DUTY CYCLE OF 40%, 7% CANDELLA MINIMUM, FLASH RATE MINIMUM OF 1 HOD/MINIMUM 1/42 AND WITH ADA AND SHALL BE UL/FM LISTED. UNIT SHALL BE MANUFACTURED BY FARADAY, WHEELOCK OR APPROVED EQUAL.
13. AREA AND SMOKE DETECTORS SHALL BE BUILDING STANDARD.	14. CONTROL MODULES SHALL BE BUILDING STANDARD.
15. PROVIDE #14 AWG WIRING (MINIMUM) FOR ALL DEVICES, U.O.N. BY BUILDINGS FIRE ALARM VENDOR. ALL SPEAKER CABLING SHALL BE TWISTED SHIELDED TYPE OR AS SPECIFIED BY BUILDINGS FIRE ALARM VENDOR. FIRE ALARM CABLING SHALL BE UL/FM APPROVED, COLORED FIRE DEPARTMENT RED, PLENUM RATED, CABLE PRINTING AS PER UL 1424, MUST BEAR ADDITIONAL DESCRIPTION "ALSO CLASSIFIED CERT. FIRE."	16. WIRING SHALL BE INSTALLED IN HEAVY WALL THREADED RIGID GALVANIZED CONDUIT IN VERTICAL RISERS AND AREA WHERE SUBJECT TO MECHANICAL DAMAGE.
17. ALL WIRING IN EXPOSED DUCT SHALL BE IN HEAVY WALL THREADED RIGID GALVANIZED STEEL CONDUIT.	18. ALL WIRING IN MECHANICAL ROOM AND ELEVATOR ROOM SHALL BE IN HEAVY WALL THREADED RIGID GALVANIZED STEEL CONDUIT.
19. WIRING MAY BE RUN EXPOSED IN HANG CEILING, PROVIDED IT IS UL LISTED AND APPROVED POWER LIMITED/PROTECTIVE SIGNALING CABLE PPL OR E22 (TEFLON COATED) E22/MIN RATED.	20. ALL LOW VOLTAGE WIRING SHALL COMPLY WITH NFPA 72 AND LOCAL AND STATE BUILDING CODES.
21. THE FIRE ALARM DEVICES SHALL BE INSTALLED IN A WORKMANLIKE MANNER, IN ACCORDANCE WITH APPROVED MANUFACTURERS WIRING DIAGRAM. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRING, WIRING, OUTLET BOXES, JUNCTION BOXES AND SIMILAR DEVICES NECESSARY FOR THE COMPLETE FIRE ALARM INSTALLATION.	22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL NEW LIFE SAFETY DEVICES AND ASSOCIATED CABLING AND CONDUIT. THE CONTRACTOR SHALL COORDINATE AND PAY FOR ALL REQUIRED MODIFICATIONS AND CONNECTIONS TO THE FIRE ALARM SYSTEM WHICH INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING: a. HARDWARE MODIFICATIONS TO THE FIRE COMMAND STATION PANEL. b. MODIFICATIONS/REPROGRAMMING OF FIRE ALARM SYSTEM SOFTWARE c. INCORPORATE FIRE ALARM PANELS OR DEVICES TO DATA GATHERING PANELS. d. ADDITIONAL POWER FROM NEW FUSE CUT-OUTS TO SERVE ADDITIONAL SYSTEM OR SUB-SYSTEM.
23. STROBE LIGHTS SHALL BE INSTALLED 8' ABOVE FINISHED FLOOR, OR 6" INCHES BELOW THE CEILING, WHICHEVER IS LOWER.	24. THE CONTRACTOR SHALL SEPARATELY ZONE LIFE SAFETY DEVICES SHOWN ON RISER DIAGRAM AND CONNECT TO THE BUILDING FIRE ALARM SYSTEM.
25. SECURELY FASTEN IN POSITION ALL DEVICES AND WIRES USED IN THE FIRE ALARM SYSTEM, SUPPORT WIRING INDEPENDENTLY FROM BUILDING STRUCTURE. DO NOT USE HVAC DUCT, PIPES, LIGHTS, HUNG CEILING TO SUPPORT FIRE ALARM WIRING.	26. TWO OR MORE VISIBLE APPLIANCE IN THE SAME FIELD OF VIEW SHALL BE SYNCHRONIZED.
27. ALL CABLE AND CONDUIT PENETRATIONS THRU FIRE RATED WALLS AND FLOORS SHALL BE FIRESTOPPED IN ACCORDANCE WITH LOCAL AND STATE BUILDING CODE.	28. WHERE SHIELDED WIRING IS USED, SPlice AND INSULATE DRAIN WIRE FOR THE FULL LENGTH OF THE WIRE RUN. SHIELDS TO BE GROUNDED ONLY AS INDICATED. ALL SHIELDED CABLE SHALL HAVE INSULATING JACKET.
29. SPICES IN VERTICAL RISERS ARE PROHIBITED EXCEPT WHEN THE LENGTH OF CONDUCTORS EXCEEDS 150 FT. IN WHICH CASE AN APPROVED TERMINAL CABINET MAY BE USED. SPICES IN HORIZONTAL RUNS SHALL BE AVOIDED, IF NECESSARY, THEY SHALL BE MADE IN APPROVED JUNCTION BOXES. SPICES SHALL BE MADE WITH UL LISTED MECHANICAL CONNECTOR OR SOLDERED AND TAPED.	30. IDENTIFY FIRE ALARM SYSTEM TERMINAL AND JUNCTION LOCATIONS IN ACCORDANCE WITH NFPA STANDARD 70, SECTION 760.3. TERMINAL AND JUNCTION BOXES SHALL BE PAINTED RED AND STENCILED IN WHITE LETTERS "FIRE ALARM".
31. A TRAINED MANUFACTURERS TECHNICAL REPRESENTATIVE SHALL TEST THE COMPLETED SYSTEM FOR PROPER OPERATION IN THE PRESENCE OF THE OWNERS REPRESENTATIVE, ANY SYSTEM, EQUIPMENT, DEVICE OR WIRING FAILURE DISCOVERED DURING THE TEST SHALL BE REPAIRED OR REPLACED BEFORE REQUESTING A SCHEDULE FOR A FINAL ACCEPTANCE TEST.	32. THE CONTRACTOR SHALL FILE FORM APPLICATION FOR ELECTRICAL INSPECTION AND SUMMARY OF CONTRACT EQUIPMENT TO BE INSTALLED, WITH THE DIVISION OF FIRE DEPARTMENT. THIS FORM SHALL BE FILED IN PREPARATION FOR THE FINAL TEST OF THE SYSTEM.
33. PERFORM ANY ADDITIONAL TESTS REQUESTED BY THE FIRE DEPARTMENT.	

MOUNTING HEIGHTS - FIRE ALARM EQUIPMENT	
9" BELOW FINISH CEILING	<ul style="list-style-type: none">WALL MOUNTED BELLS AND FIRE ALARM SOUNDING DEVICE OR AS SHOWN ON ARCHITECTURAL DETAILSTV MONITOR OUTLET AND SERVICE RECEPTACLE FOR SHELF MOUNTED TV
CENTERED ABOVE DOOR OR WINDOW OPENING	<ul style="list-style-type: none">WARNING AND SIGNALING FIXTURES / SIGNS
6'-6"	<ul style="list-style-type: none">FIRE ALARM STROBES OR COMBINATION DEVICES WITH STROBES SHALL BE MOUNTED SO THAT THE ENTIRE LENS IS NOT LESS THAN 8'0" AND NOT GREATER THAN 8'0" ABOVE FINISHED FLOOR. IF CEILING DOES NOT PERMIT A MOUNTING HEIGHT OF AT LEAST 8'0" ABOVE FINISHED FLOOR, THE LENS OF THE DEVICE SHALL BE 6" OFF THE FINISHED CEILING.
MOUNTING HEIGHT NOTES	
1. MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE ARCHITECTURE DRAWING OR SPECIFICATIONS. 2. ALL DEVICES SHOWN ON DRAWINGS ARE DIAGRAMMATIC IN LOCATION AND SHOWN FOR GENERAL WIRING PURPOSES ONLY. ALL DEVICES INDICATED TO BE INSTALLED IN THE SAME LOCATIONS WITH DIFFERENT ELEVATIONS SHALL BE ALIGNED VERTICALLY AND HORIZONTALLY. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE ALARM NOTIFICATION DEVICES AND FIRE ALARM PULL STATIONS. 3. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH AHJ, ADA REQUIREMENTS AND OTHER TRADES.	
FIRE ALARM SYSTEM	
	FIRE ALARM CONTROL PANEL
	REMOTE ANNUNCIATOR
	REMOTE TEST STATION FOR DUCT SMOKE DETECTOR
	DIGITAL ALARM COMMUNICATOR TRANSMITTER
	BOOSTER PANEL
	TWO-WAY FIRE DEPARTMENT COMMUNICATION STATION
	TWO-WAY FIRE DEPARTMENT COMMUNICATION MASTER STATION
	MAGNETIC DOOR HOLDER
	REMOTE FIRE ALARM DRILL SWITCH - CENTER LINE 4'-0" A.F.F.
	FIRE ALARM TERMINAL CABINET
	BI-DIRECTIONAL AMPLIFIER
	AUDIO / VISUAL NOTIFICATION APPLIANCE - BOTTOM OF LENS 7'-6" A.F.F. NUMBER INDICATES CANDELLA RATING IF OTHER THAN 75CD
	AUDIO / VISUAL NOTIFICATION APPLIANCE - CEILING MOUNTED NUMBER INDICATES CANDELLA RATING IF OTHER THAN 75CD
	VISUAL NOTIFICATION APPLIANCE - BOTTOM OF LENS 7'-6" A.F.F. NUMBER INDICATES CANDELLA RATING IF OTHER THAN 75CD
	VISUAL NOTIFICATION APPLIANCE - CEILING MOUNTED NUMBER INDICATES CANDELLA RATING IF OTHER THAN 75CD
	AUDIO ONLY NOTIFICATION APPLIANCE - WALL MOUNTED
	AUDIO ONLY NOTIFICATION APPLIANCE - CEILING MOUNTED
	PULL STATION
	RADIO BOX
	MASTER BOX
	KNOX BOX
	REMOTE INDICATING (LIGHTLED) TO DISPLAY ALARM CONDITION OF REMOTE DETECTOR, CENTERED ABOVE DOOR.
	EXTERIOR BEACON (LENS COLOR AS REQUIRED BY AHJ)
	CARBON MONOXIDE DETECTOR
	COMBINATION CARBON MONOXIDE - SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	DUCT SMOKE DETECTOR TEST RESET STATION
	HEAT DETECTOR FIXED AT 180° FARENHEIT
	SMOKE DETECTOR
	BEAM SMOKE DETECTOR (EMITTER)
	BEAM SMOKE DETECTOR (RECEIVER)
	ALARM BELL
	FLOW SWITCH
	PRESSURE SWITCH
	FIRE AND SMOKE DAMPER, PROVIDE CONTROL MODULE FOR INTERFACE TO FIRE ALARM
	SMOKE DAMPER
	REMOTE DUCT SMOKE DETECTOR INDICATOR WITH TEST SWITCH
	FIRE ALARM RELAY CONTROL
	FIRE ALARM RELAY MONITOR
	TAMPER SWITCH
	FIREFIGHTERS PHONE
	PHONE JACK FOR FIREFIGHTERS PORTABLE PHONE

AUDIBLE NOTIFICATION DESIGN CRITERIA		
AUDIBLE NOTIFICATION DEVICES DESIGN CRITERIA	AMBIENT LEVELS	DESIGN GOALS
OFFICES	55 dBA	70 dBA
CORRIDORS	55 dBA	70 dBA
CLASSROOMS	45 dBA	60 dBA
MECHANICAL ROOMS	65 dBA	100 dBA
PLACES OF ASSEMBLY	55 dBA	70 dBA
INSTITUTIONAL	50 dBA	65 dBA
MERCANTILE	40 dBA	55 dBA

REVISION LEGEND		<input type="checkbox"/> NEW ISSUE	<input checked="" type="checkbox"/> REVISED ISSUE	<input checked="" type="checkbox"/> REVISED, NOT ISSUED				
		<input type="checkbox"/> REMOVED FROM DRAWING SET	<input type="checkbox"/> ISSUED, NOT REVISED					
DRAWING LIST - FIRE ALARM								
DRAWING NUMBER	DRAWING TITLE	05-18-2021 SCHEMATIC DESIGN	06-25-2021 DESIGN DEVELOPMENT COST ESTIMATE SET	08-09-21 MSBA 90% CD CONSTRUCTION DOCUMENT SUBMISSION	11-17-2022 80% CD COST ESTIMATE SET	01-13-2023 MSBA 90% CD SUBMISSION	02-28-2023 90% CD COST ESTIMATE	05-15-2023 MSBA 90% CD CONSTRUCTION DOCUMENT SUBMITTAL
FA0-1	FIRE ALARM LEGENDS, ABBREVIATIONS, AND GENERAL NOTES	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-10C	FIRE ALARM LOWER LEVEL FLOOR PLAN - AREA C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-10D	FIRE ALARM LOWER LEVEL FLOOR PLAN - AREA D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-100C	FIRE ALARM LOWER LEVEL MEZZANINE PLAN - AREA C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-10A	FIRE ALARM FIRST FLOOR PLAN - AREA A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-10B	FIRE ALARM FIRST FLOOR PLAN - AREA B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-10C	FIRE ALARM FIRST FLOOR PLAN - AREA C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-10D	FIRE ALARM FIRST FLOOR PLAN - AREA D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-10A	FIRE ALARM FIRST FLOOR MEZZANINE PLAN - AREA A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-12A	FIRE ALARM SECOND FLOOR PLAN - AREA A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-12B	FIRE ALARM SECOND FLOOR PLAN - AREA B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-12C	FIRE ALARM SECOND FLOOR PLAN - AREA C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-12D	FIRE ALARM SECOND FLOOR PLAN - AREA D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-13A	FIRE ALARM THIRD FLOOR PLAN - AREA A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-13B	FIRE ALARM THIRD FLOOR PLAN - AREA B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-13C	FIRE ALARM THIRD FLOOR PLAN - AREA C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-13D	FIRE ALARM THIRD FLOOR PLAN - AREA D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-14A	FIRE ALARM FOURTH FLOOR PLAN - AREA A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-14B	FIRE ALARM FOURTH FLOOR PLAN - AREA B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-14C	FIRE ALARM FOURTH FLOOR PLAN - AREA C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-14D	FIRE ALARM FOURTH FLOOR PLAN - AREA D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-20A	FIRE ALARM ROOF PLAN - AREA A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-20B	FIRE ALARM ROOF PLAN - AREA B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-20C	FIRE ALARM ROOF PLAN - AREA C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-20D	FIRE ALARM ROOF PLAN - AREA D	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-12B	FIRE ALARM CONCESSION BUILDING PLAN	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-11B	FIRE ALARM LOCKER BUILDING PLAN	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA1-1MB	FIRE ALARM MAINTENANCE BUILDING PLAN	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA0-1	SEQUENCE OF OPERATION MATRIX	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA0-2	FIRE ALARM HIGH SCHOOL BUILDING RISER DIAGRAM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FA0-3	FIRE ALARM RISER DIAGRAMS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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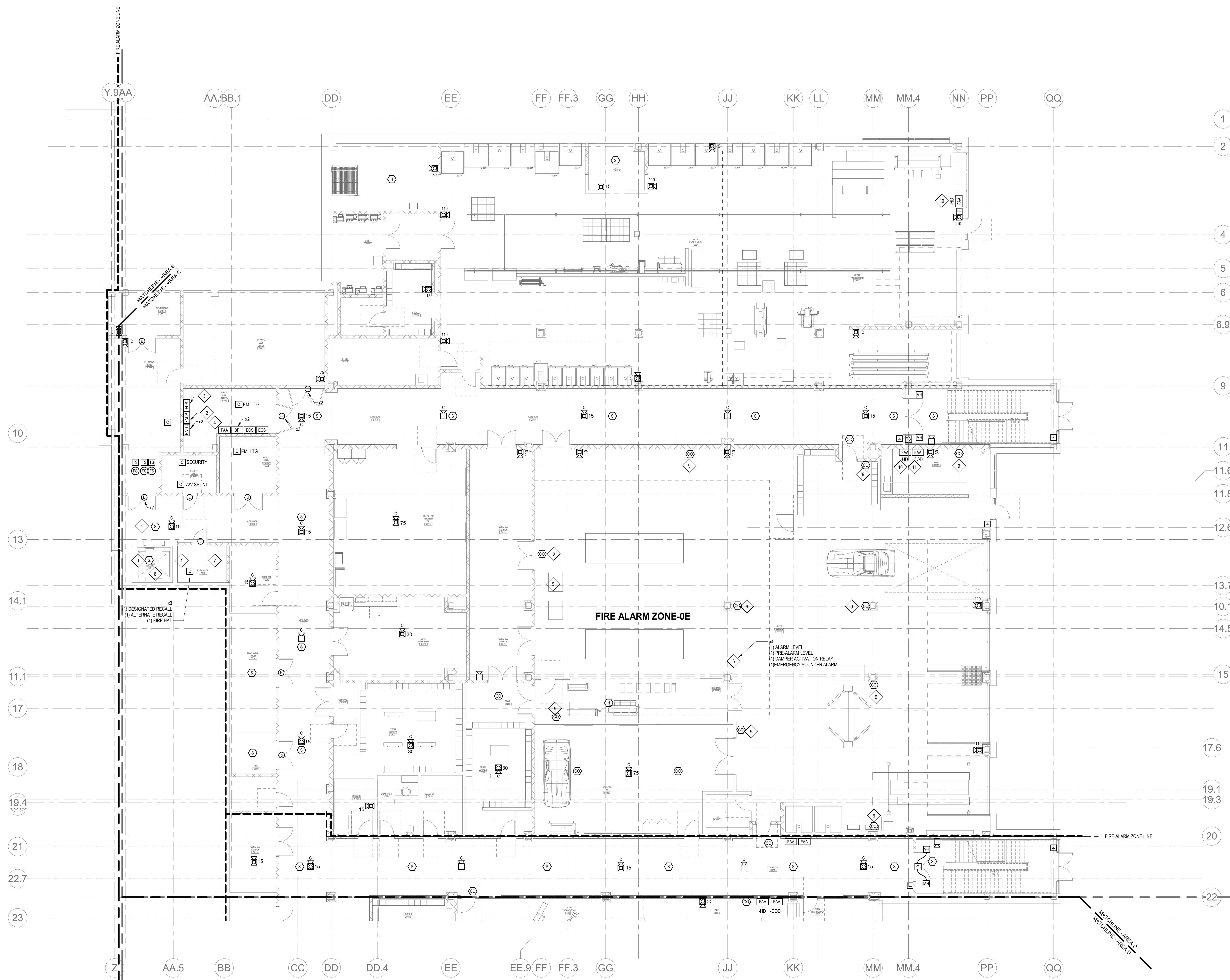
Wakefield, MA 01880

GENERAL FIRE ALARM NOTES

1. PROVIDE A FULLY OPERATIONAL, TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING TO BE ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.
2. COORDINATE LOCATION OF FIRE ALARM APPLIANCES AND DEVICES IN AREAS WITH CEILING SYSTEM, DUCTWORK, FIXTURES, FURNITURE, AND OTHER EQUIPMENT PRIOR TO CEILING SYSTEM INSTALLATION.
3. FINAL LOCATIONS AND ARRANGEMENTS OF FIRE ALARM DEVICES SHALL BE OBTAINED FROM THE ARCHITECTURAL, SELECTED CEILING PLAN AND ELEVATION VIEWS.
4. FOR EXACT LOCATIONS OF SMOKE-FIRE DAMPERS, DUCT-MOUNTED SMOKE DETECTOR, WATER FLOW SWITCHES AND WATER TAMPER SWITCHES, REFER TO FIRE PROTECTION, PLUMBING AND MECHANICAL VAV DRAWINGS.
5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM DEVICES. PROVIDE ALL CONNECTIONS TO (E) FIRE ALARM TRENCH, CABINET(S) OR FIRE ALARM CONTROL PANEL. FIRE ALARM DEVICES SHALL BE INSTALLED TO MEET MANUFACTURE REQUIREMENTS.
7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NETWORKED DEVICES.
8. PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.
9. PROVIDE NEW AV DEVICES WITH INTEGRAL SYNCHRONIZATION CAPABILITIES AND/OR PROVIDE SYNCHRONIZATION DEVICES FOR SYNCHRONIZATION OF ALL VISUAL DEVICES.
10. TO THE SCOPE OF THIS PROJECT SHALL NOT HAVE ANY IMPACT THE DAILY OPERATION OR SEQUENCE OF OPERATION OF THE EXISTING FIRE ALARM SYSTEM.
11. PROVIDE ALL PROGRAMMING/RE-PROGRAMMING PER REVISED SPACE DESIGNATIONS.
12. PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE DEPARTMENT.
13. PROVIDE FIRE ALARM INTERFACE TO BRING ALL DIMMED LUMINAIR(S) TO FULL BRIGHTNESS UPON ALARM.
14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL AV AND SOUND EQUIPMENT.
15. PROVIDE FIRE ALARM INTERFACE TO RELEASE ALL SECURITY DEVICES.
16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STANDPIPE/SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO FIRE PROTECTION DRAWINGS.
17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE SERVING THE COMBINATION STANDPIPE/SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO FIRE PROTECTION DRAWINGS.

FIRE ALARM KEYNOTES:

- | | |
|----|--|
| 1 | PROVIDE SMOKE DETECTION TO INITIATE ELEVATOR RECALL |
| 2 | PROVIDE A NEW ANNUNCIATOR FOR THE FIRE ALARM CONTROL PANEL UNIT IN THE FA ROOM
AN ANNUNCIATOR FOR THE FIRE ALARM CONTROL PANEL SHALL BE INSTALLED AT THE MAIN
ENTRANCE VESTIBULE, MAIN OFFICE, AND SHOP AREAS. |
| 3 | PROVIDE A FIRE ALARM DRILL SWITCH TO ACTIVATE A FIRE DRILL. |
| 4 | PROVIDE A REMOTE ANNUNCIATOR FOR THE BI-DIRECTIONAL AMPLIFICATION SYSTEM |
| 5 | PROVIDE AN EXPLOSION PROOF COMBINATION SPEAKER/STROBE. |
| 6 | PROVIDE MONITOR/RELAY MODULES TO MONITOR THE INPUTS OF THE VENTILATION
CONTROL PANEL. |
| 7 | NOT USED. |
| 8 | DETECTOR SHALL BE LOCATED AT THE PIT OF ELEVATOR SHAFT |
| 9 | CARBON MONOXIDE DETECTORS IN THE GARAGE/ SHOP AREA SHALL BE COLUMN OR WALL
MOUNTED AT THE HEIGHT OF 8'. |
| 10 | HEAT DETECTORS, LOCAL ANNUNCIATOR PANEL, (FA-HO) WALL MOUNTED, DESIGNATED FOR
ALL DETECTORS IN THE AUTO GOLDEN SHOP, RM 0202. |
| 11 | CO DETECTOR, LOCAL ANNUNCIATOR PANEL, (FA-CO) WALL MOUNTED, DESIGNATED FOR
ALL CO DETECTOR DETECTORS IN THE FA-CO GOLDEN SHOP, RM 0202. |

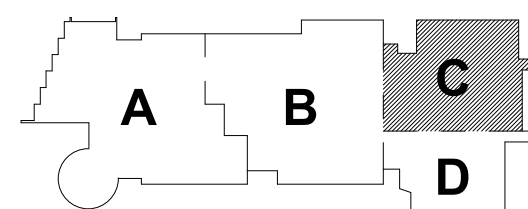


FIRE ALARM LOWER LEVEL FLOOR PLAN - AREA C

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ENGINEERS

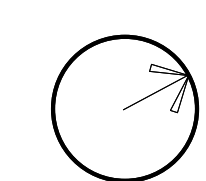
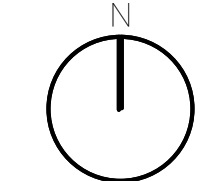
MSBA 90% CD
Construction Document
Submittal
May 12th, 2023



KEY PLAN

PROJECT NORTH

MAGNETIC NORTH



**FIRE ALARM
LOWER LEVEL
FLOOR PLAN -
AREA C**

Scale: 1/8" = 1'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023

FA1-1-0C

DRA

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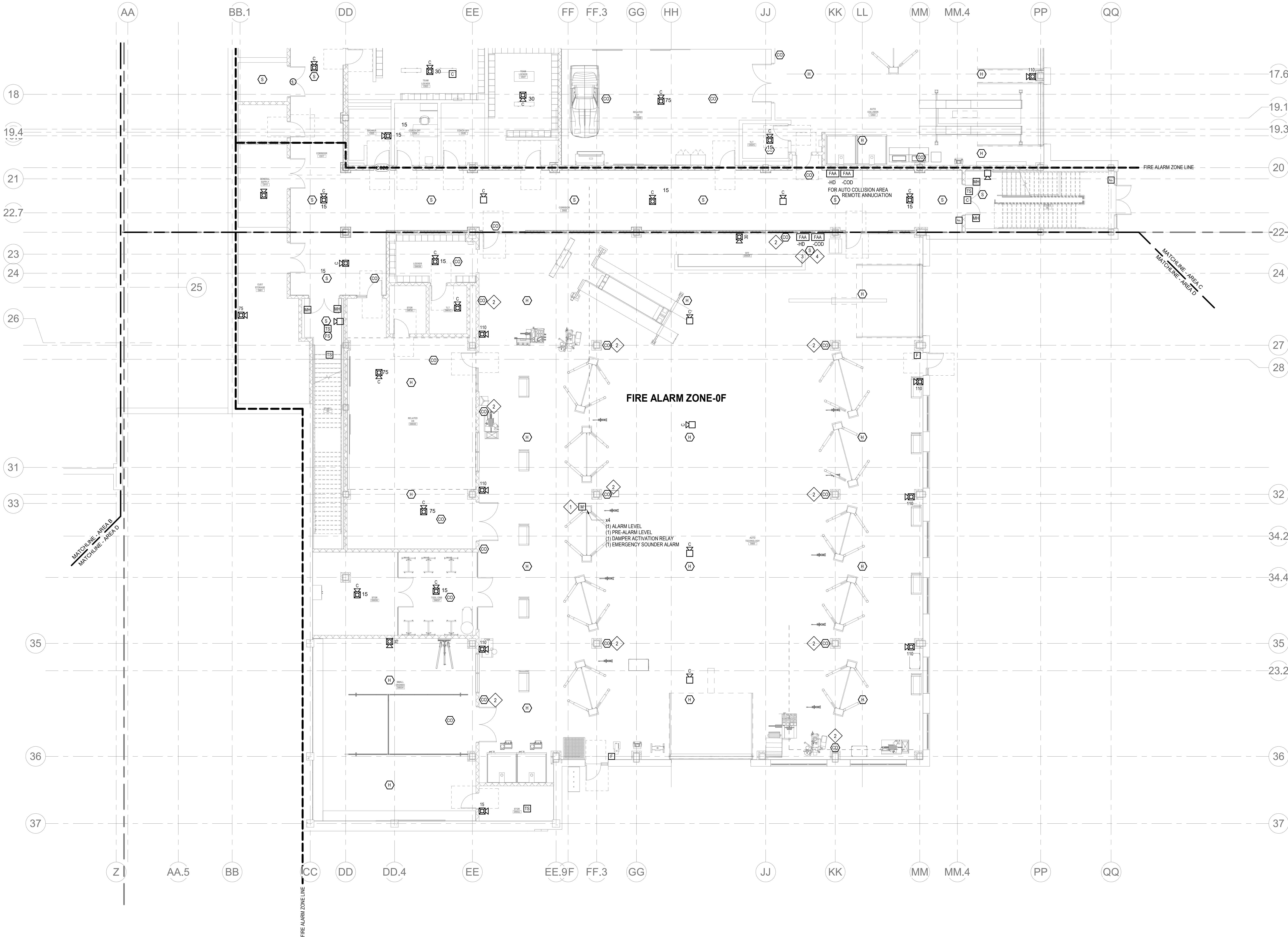
Wakefield, MA 01880

GENERAL FIRE ALARM NOTES:

1. PROVIDE A FULLY OPERATIONAL TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK. APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.
2. COORDINATE LOCATION OF FIRE ALARM APPLIANCES AND DEVICES IN AREAS WITH CEILING SYSTEM, DUCTWORK, FIXTURES, FURNITURE, AND OTHER EQUIPMENT PRIOR TO ALL WORK.
3. FINAL LOCATIONS AND ARRANGEMENTS OF FIRE ALARM DEVICES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATION VIEWS.
4. FOR EXACT LOCATIONS OF SMOKE/FIRE DAMPERS, DUCT-MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND VALVE TAMPER SWITCHES, REFER TO FIRE PROTECTION, PLUMBING AND MECHANICAL/RAC DRAWINGS.
5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICES TO FIRE ALARM TERMINAL CABINETS (OR FIRE ALARM CONTROL PANEL OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS).
7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADDED DEVICES.
8. PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.
9. PROVIDE NEW AV DEVICES WITH INTEGRAL SYNCHRONIZATION CAPABILITIES AND/OR PROVIDE SYNCHRONIZATION MODULES FOR SYNCHRONIZATION OF ALL VISUAL DEVICES.
10. THE SCOPE OF THIS PROJECT SHALL IN NO WAY IMPACT THE DAILY OPERATION OR THE SEQUENCE OF OPERATION OF THE EXISTING FIRE ALARM SYSTEM.
11. PROVIDE ALL PROGRAMMING/RE-PROGRAMMING PER REVISED SPACE DESIGNATIONS.
12. PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE DEPARTMENT.
13. PROVIDE FIRE ALARM INTERFACE TO BRING ALL DIMMED LUMINAIRES TO FULL BRIGHTNESS UPON ALARM.
14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL AV AND/OR SOUND EQUIPMENT.
15. PROVIDE FIRE ALARM INTERFACE TO RELEASE ALL SECURITY DEVICES.
16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STAMPING SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.
17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

FIRE ALARM KEYNOTES:

1. PROVIDE MONITOR RELAY MODULES TO MONITOR THE INPUTS OF THE VENTILATION CONTROL PANEL.
2. CARBON MONOXIDE DETECTORS IN THE GARAGE/ SHOP AREA SHALL BE COLUMN OR WALL MOUNTED AT THE HEIGHT OF 8'-0".
3. HEAT DETECTORS LOCAL ANNUNCIATOR PANEL (FAA-HD) WALL MOUNTED. DESIGNATED FOR ALL DETECTORS IN THE AUTO TECHNOLOGY, RM 0003.
4. CO DETECTORS LOCAL ANNUNCIATOR PANEL (FAA-CO) WALL MOUNTED. DESIGNATED FOR ALL CARBON MONOXIDE DETECTORS IN AUTO TECHNOLOGY, RM 0003.

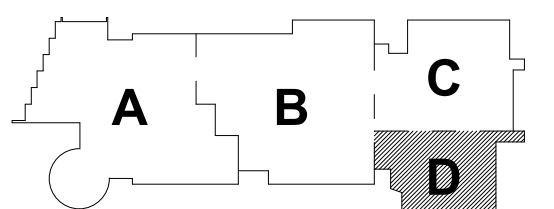


2 FIRE ALARM LOWER LEVEL FLOOR PLAN - AREA D
1/8" = 1'-0"

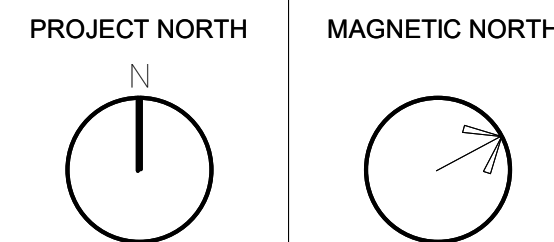
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May 12th, 2023



KEY PLAN



FIRE ALARM
LOWER LEVEL
FLOOR PLAN -
AREA D

Scale: 1/8" = 1'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023

FA1-1-0D



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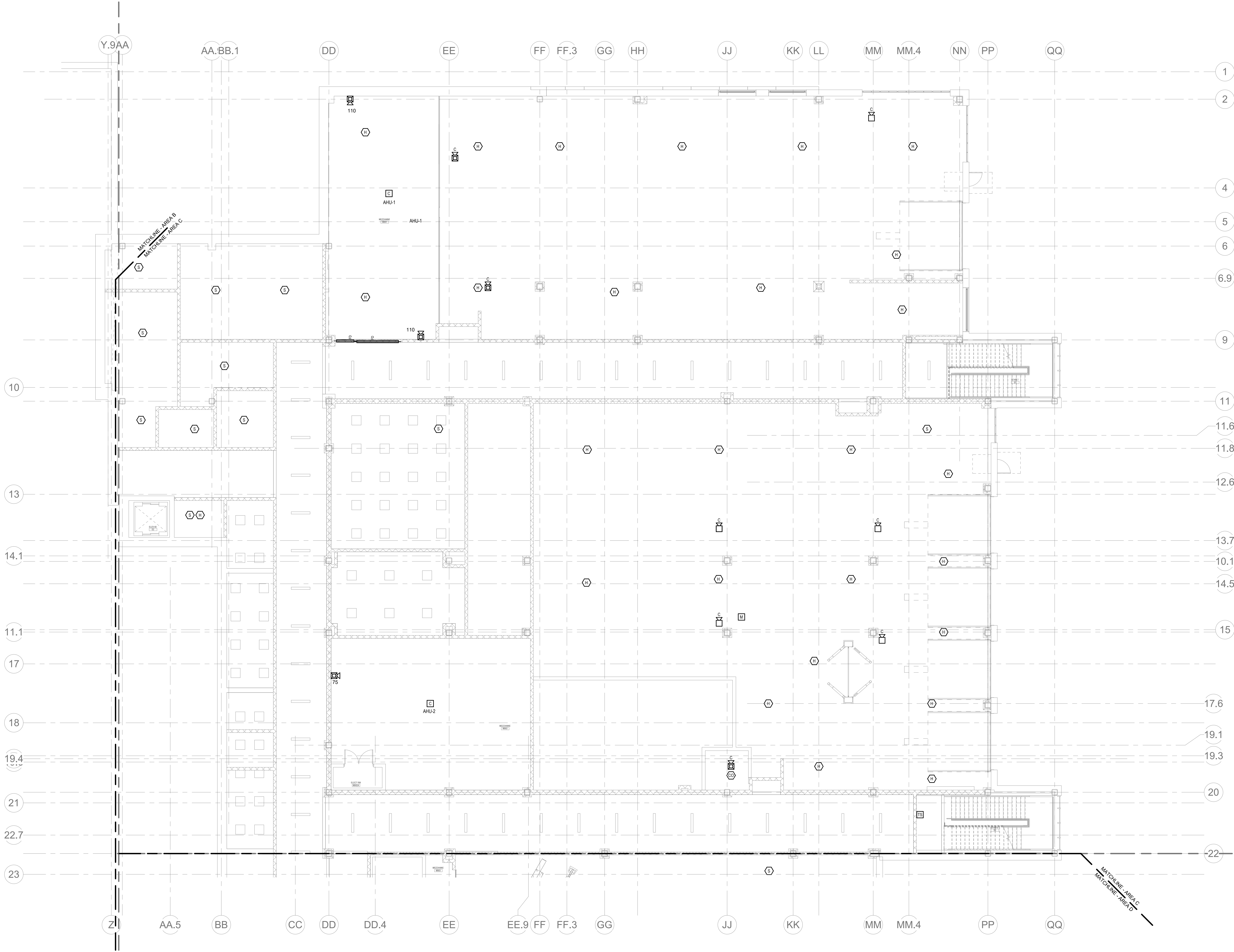
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Wakefield, MA 01880

GENERAL FIRE ALARM NOTES:

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2. COORDINATE LOCATION OF FIRE ALARM APPLIANCES AND DEVICES IN AREAS WITH CEILING SYSTEM, DUCTWORK, FIXTURES, FURNITURE, AND OTHER EQUIPMENT PRIOR TO ALL WORK.
3. FINAL LOCATIONS AND ARRANGEMENTS OF FIRE ALARM DEVICES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATION VIEWS.
4. FOR EXACT LOCATIONS OF SMOKE/FIRE DAMPERS, DUCT MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND VALVE TAMPER SWITCHES, REFER TO FIRE PROTECTION, PLUMBING AND MECHANICAL DRAWINGS.
5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICES TO FIRE ALARM TERMINAL CABINETS (OR FIRE ALARM CONTROL PANEL OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS).
7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADOPTED DEVICES.
8. PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.
9. PROVIDE NEW ANY DEVICES WITH INTEGRAL SYNCHRONIZATION CAPABILITIES AND/OR PROVIDE SYNCHRONIZATION MODULES FOR SYNCHRONIZATION OF ALL VISUAL DEVICES.
10. THE SCOPE OF THIS PROJECT SHALL IN NO WAY IMPACT THE DAILY OPERATION OR THE SEQUENCE OF OPERATION OF THE EXISTING FIRE ALARM SYSTEM.
11. PROVIDE ALL PROGRAMMING/RE-PROGRAMMING PER REVISED SPACE DESIGNATIONS.
12. PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE DEPARTMENT.
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17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

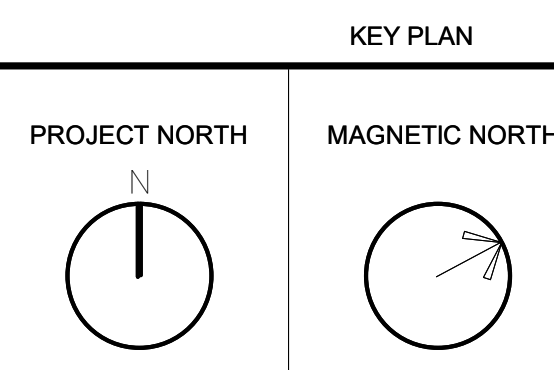
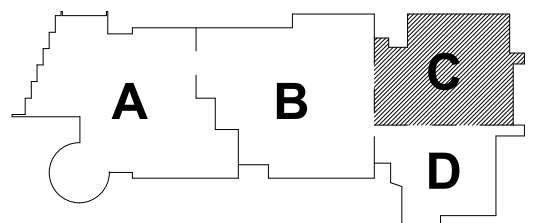


FIRE ALARM LOWER LEVEL MEZZANINE PLAN - AREA C

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Submittal
May 12th, 2023



**FIRE ALARM
LOWER LEVEL
MEZZANINE
PLAN - AREA C**

Scale: 1/8" = 1'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023

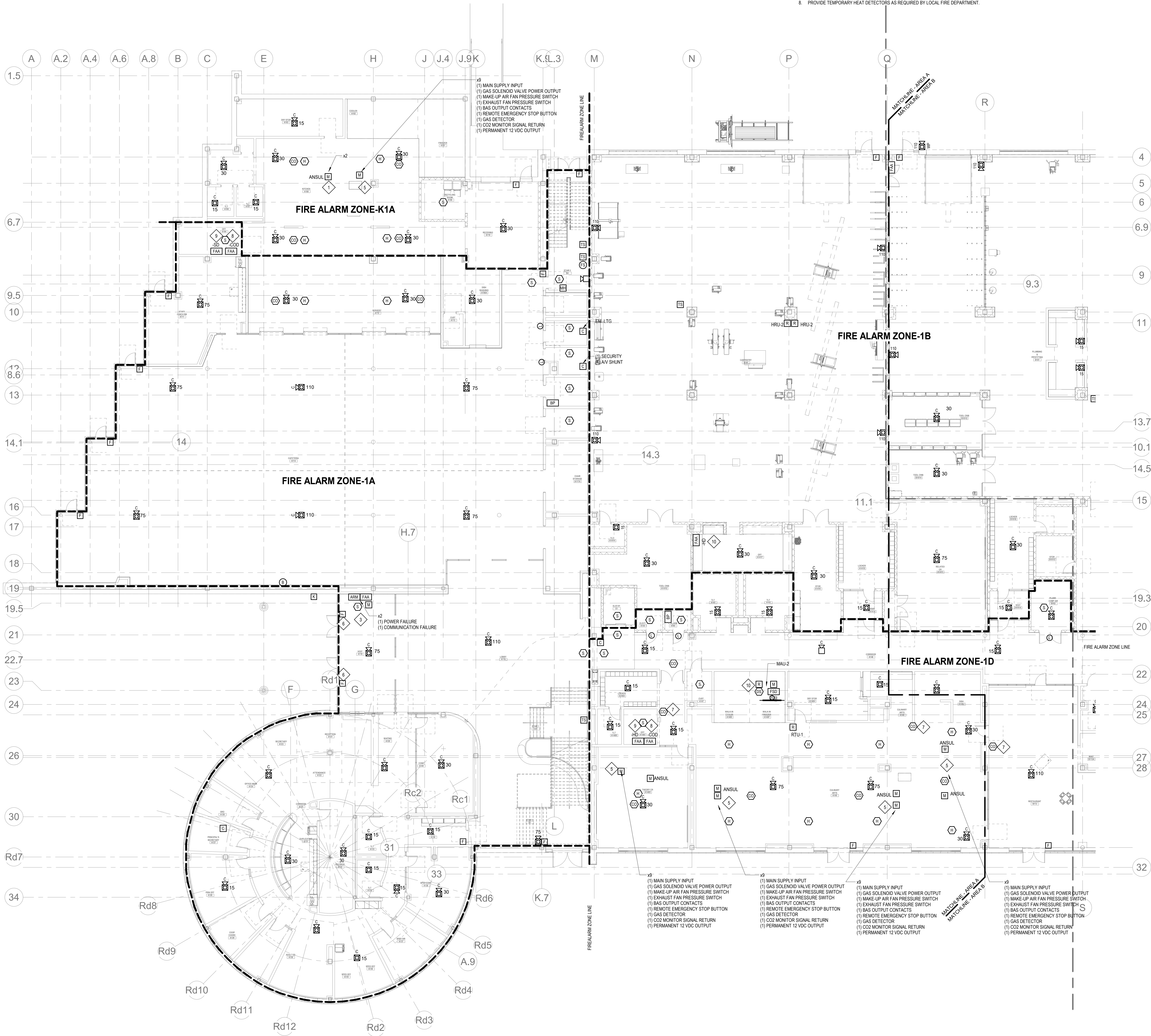
FA1-1-MC

GENERAL FIRE ALARM NOTES:

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3. FINAL LOCATIONS AND ARRANGEMENTS OF FIRE ALARM DEVICES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATION VIEWS.
4. FOR EXACT LOCATIONS OF SMOKE/FIRE DAMPERS, DUCT-MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND VALVE TAMPER SWITCHES, REFER TO FIRE PROTECTION, PLUMBING AND MECHANICAL/HVAC DRAWINGS.
5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICES TO FIRE ALARM TERMINAL CABINET(S) OR FIRE ALARM CONTROL PANEL OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS.
7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADOPTED DEVICES.
8. PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.
9. PROVIDE NEW AV DEVICES WITH INTEGRAL SYNCHRONIZATION CAPABILITIES AND/OR PROVIDE SYNCHRONIZATION MODULES FOR SYNCHRONIZATION OF ALL VISUAL DEVICES.
10. THE SCOPE OF THIS PROJECT SHALL IN NO WAY IMPACT THE DAILY OPERATION OR THE SEQUENCE OF OPERATION OF THE EXISTING FIRE ALARM SYSTEM.
11. PROVIDE ALL PROGRAMMING/RE PROGRAMMING PER REVISED SPACE DESIGNATIONS.
12. PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE DEPARTMENT.
13. PROVIDE FIRE ALARM INTERFACE TO BRING ALL DIMMED LUMINAIRES TO FULL BRIGHTNESS UPON ALARM.
14. PROVIDE FIRE ALARM INTERFACE TO SHUT ALL AV AND/OR SOUND EQUIPMENT.
15. PROVIDE FIRE ALARM INTERFACE TO RELEASE ALL SECURITY DEVICES.
16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STANDPIPE SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.
17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

KEYNOTES:

1. MONITOR THE CONTACTS OF THE ANSUL SYSTEM PROVIDED BY OTHERS.
2. PROVIDE A WEATHERPROOF SPEAKER/STROBE.
3. MONITOR THE CONTACTS OF THE TWO WAY FIRE DEPARTMENT COMMUNICATION SYSTEM.
4. PROVIDE WEATHER PROOF DEVICE NOTE.
5. PROVIDE MONITOR RELAY MODULES TO MONITOR THE INPUTS OF THE HOOD GAS SHUT OFF SYSTEM.
6. PULL STATION SHALL BE INSTALLED IN THE MULLION WITH WIRING INSIDE THE MULLION CHANNEL.
7. WALL MOUNTED CO DETECTOR AT 5'4" AFF.
8. LOCAL ANNUNCIATOR PANEL DEDICATED FOR CARBON MONOXIDE (CO) DETECTORS.
9. LOCAL ANNUNCIATOR PANEL DEDICATED FOR SMOKE DETECTORS.
10. LOCAL ANNUNCIATOR PANEL DEDICATED FOR HEAT DETECTORS.
11. REMOTE DUCT SMOKE DETECTOR INDICATOR AND TEST SWITCH SHALL BE INSTALLED ON THE CEILING DIRECTLY BELOW DUCT SMOKE DETECTOR OR ON THE WALL IF THE CEILING INSTALLATION IS NOT POSSIBLE.



FIRE ALARM FIRST FLOOR PLAN - AREA A

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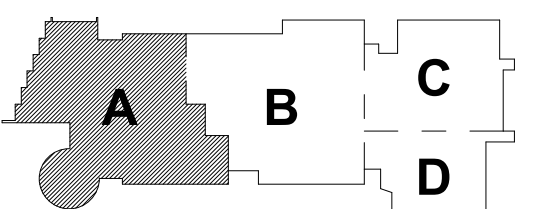
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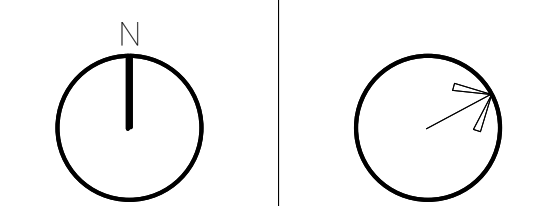
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Construction Document
Submittal
May 12th, 2023



PROJECT NORTH

MAGNETIC NORTH



**FIRE ALARM
FIRST FLOOR
PLAN - AREA A**

Scale: 1" = 10'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023

FA1-1-1A



GENERAL FIRE ALARM NOTES:

1. PROVIDE A FULLY OPERATIONAL TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK, APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.
2. COORDINATE LOCATION OF FIRE ALARM APPLIANCES AND DEVICES IN AREAS WITH CEILING SYSTEM, DUCTWORK, FIXTURES, FURNITURE, AND OTHER EQUIPMENT PRIOR TO ALL WORK.
3. FINAL LOCATIONS AND ARRANGEMENTS OF FIRE ALARM DEVICES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATION VIEWS.
4. FOR EXACT LOCATIONS OF SMOKE/FIRE DAMPERS, DUCT-MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND VALVE TAMPER SWITCHES, REFER TO FIRE PROTECTION, PLUMBING AND MECHANICAL/HVAC DRAWINGS.
5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICES TO FIRE ALARM TERMINAL CABINET(S) OR FIRE ALARM CONTROL PANEL OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS.
7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADDED DEVICES.
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11. PROVIDE ALL PROGRAMMING/RE-PROGRAMMING PER REVISED SPACE DESIGNATIONS.
12. PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE DEPARTMENT.
13. PROVIDE FIRE ALARM INTERFACE TO BRING ALL DIMMED LUMINAIRES TO FULL BRIGHTNESS UPON ALARM.
14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL AV AND/OR SOUND EQUIPMENT.
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16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STANDPIPE-SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.
17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

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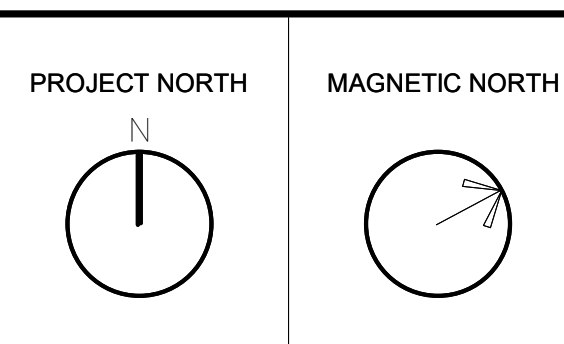
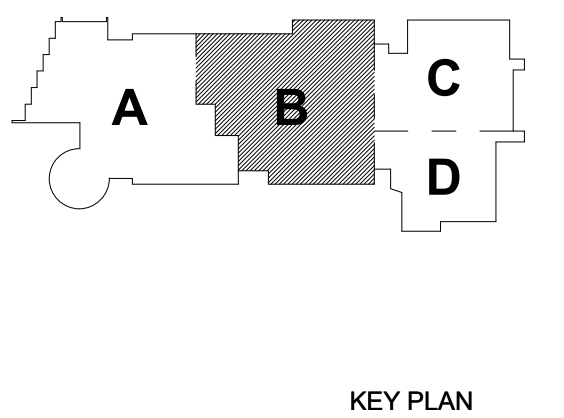
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Submittal
May 12th, 2023



**FIRE ALARM
FIRST FLOOR
PLAN - AREA B**

Scale: 1/8" = 1'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023

FA1-1-1B

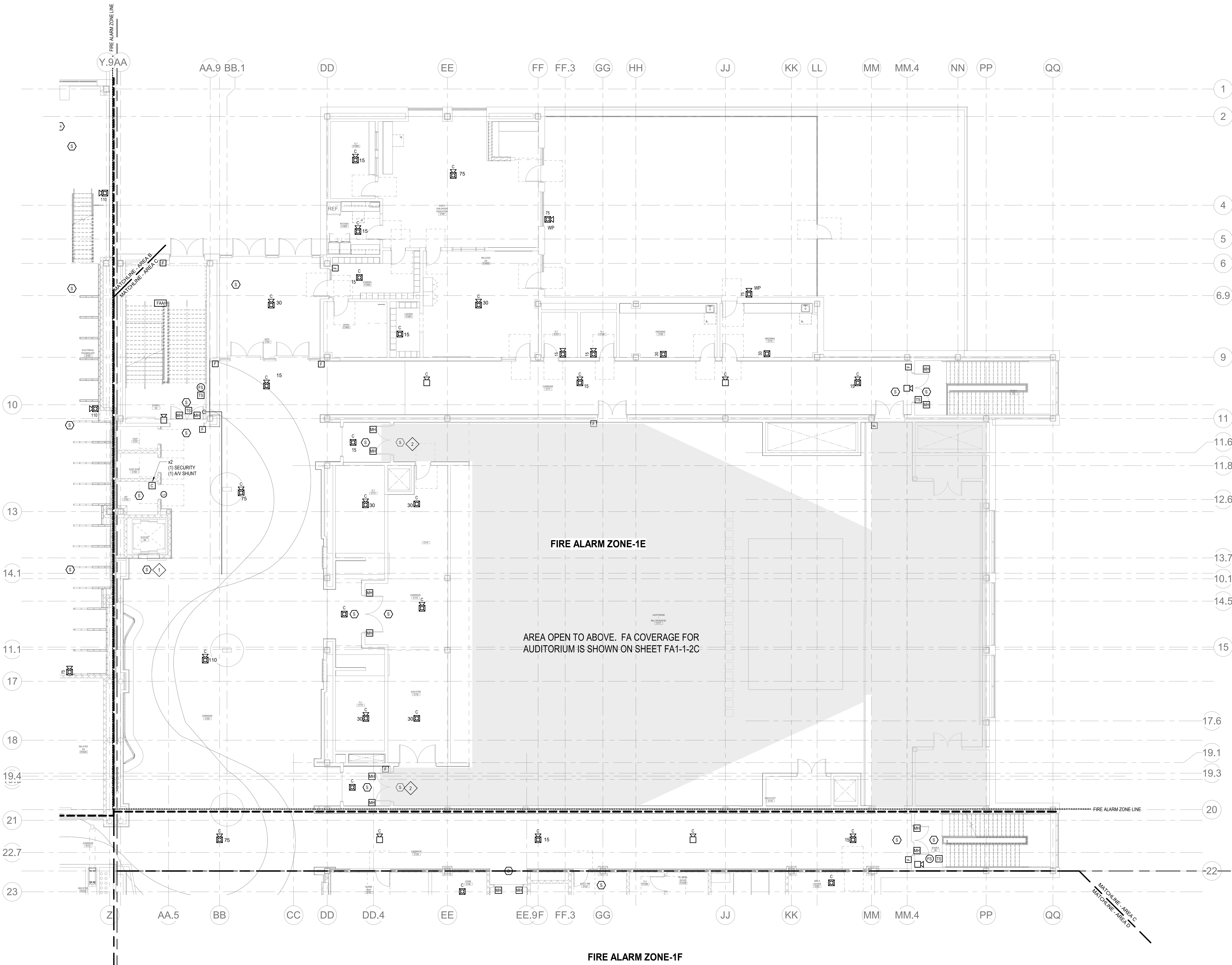
FIRE ALARM FIRST FLOOR PLAN - AREA B
FA1-1-1B
1/8" = 1'-0"

GENERAL FIRE ALARM NOTES:

1. PROVIDE A FULLY OPERATIONAL, TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK, APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.
2. COORDINATE LOCATION OF FIRE ALARM APPLIANCES AND DEVICES IN AREAS WITH CEILING SYSTEM, DUCTWORK, FIXTURES, FURNITURE, AND OTHER EQUIPMENT PRIOR TO ALL WORK.
3. FINAL LOCATIONS AND ARRANGEMENTS OF FIRE ALARM DEVICES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATION VIEWS.
4. FOR EXACT LOCATIONS OF SMOKE/FIRE DAMPERS, DUCT-MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND VALVE TAMPER SWITCHES, REFER TO FIRE PROTECTION, PLUMBING AND MECHANICAL HVAC DRAWINGS.
5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICES TO FIRE ALARM TERMINAL CABINET(S) OR FIRE ALARM CONTROL PANEL OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS.
7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADDED DEVICES.
8. PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.
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12. PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE DEPARTMENT.
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14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL AV AND/OR SOUND EQUIPMENT.
15. PROVIDE FIRE ALARM INTERFACE TO RELEASE ALL SECURITY DEVICES.
16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION ST AND PIPE SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.
17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

FIRE ALARM KEYNOTES:

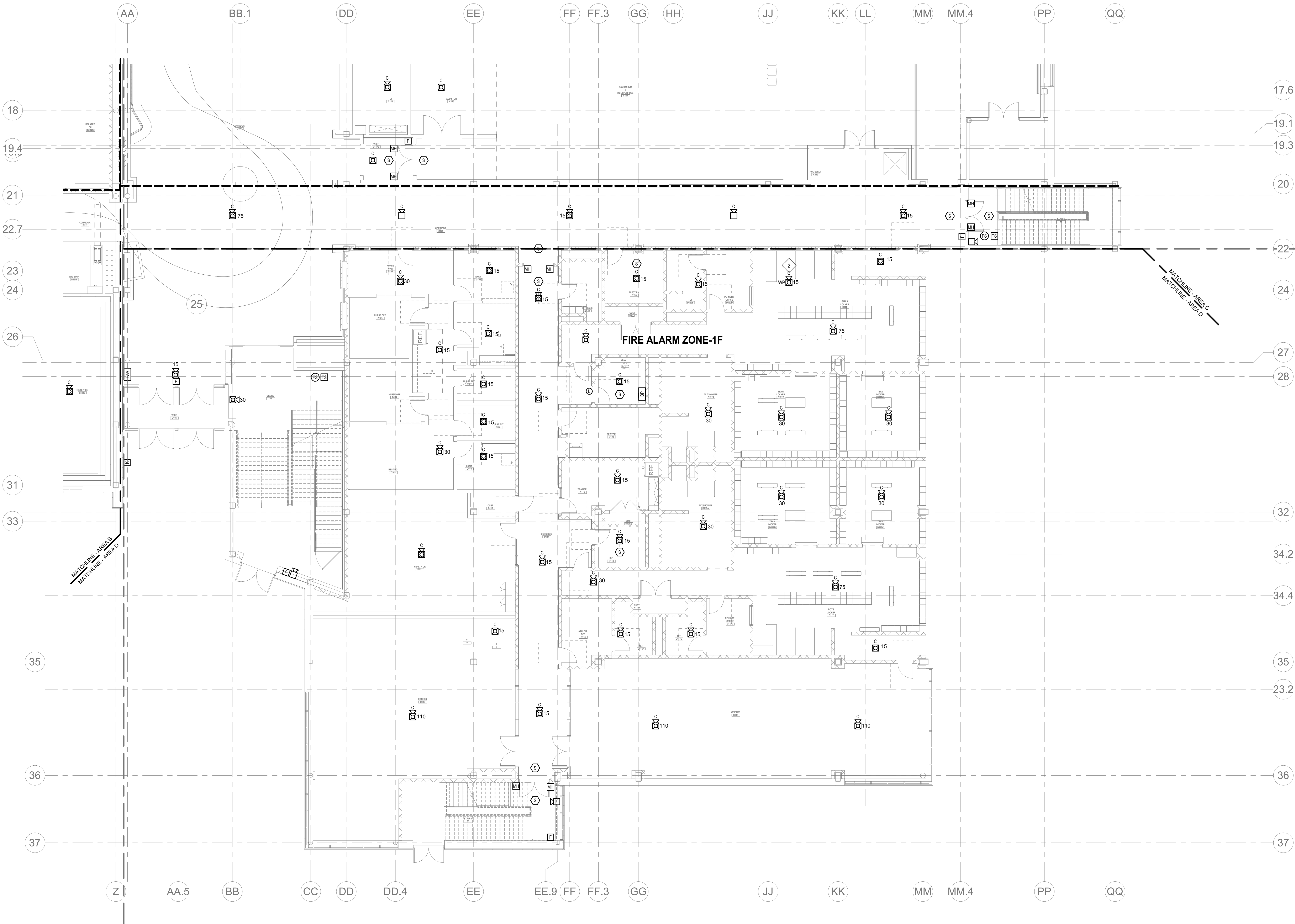
1. PROVIDE SMOKE DETECTION TO INITIATE ELEVATOR RECALL.
2. SMOKE DETECTOR TO BE MOUNTED ON THE WALL ABOVE THE DOOR.



1 FIRE ALARM FIRST FLOOR PLAN - AREA C

18" = 1'-0"

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GENERAL FIRE ALARM NOTES:

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7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NONWAGED DEVICES.
8. PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.
9. PROVIDE NEW AV DEVICES WITH INTEGRAL SYNCHRONIZATION CAPABILITIES AND/OR PROVIDE SYNCHRONIZATION MODULES FOR SYNCHRONIZATION OF ALL VISUAL DEVICES.
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17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

FIRE ALARM KEYNOTES:

1. PROVIDE SMOKE DETECTOR TO INITIATE ELEVATOR RECALL.
2. PROVIDE WEATHER PROOF DEVICE.

1 FIRE ALARM FIRST FLOOR PLAN - AREA D
1/8" = 1'-0"



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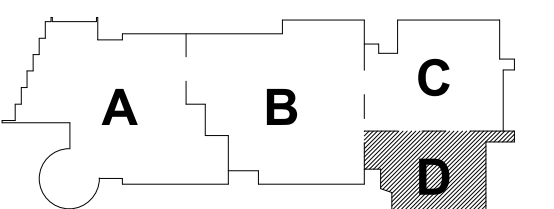
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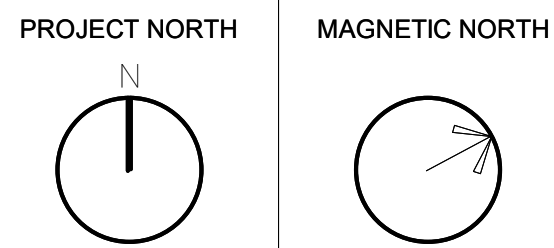
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May 12th, 2023



KEY PLAN



**FIRE ALARM
FIRST FLOOR
PLAN - AREA D**

Scale: 1/8" = 1'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023
FA1-1-1D

DRA

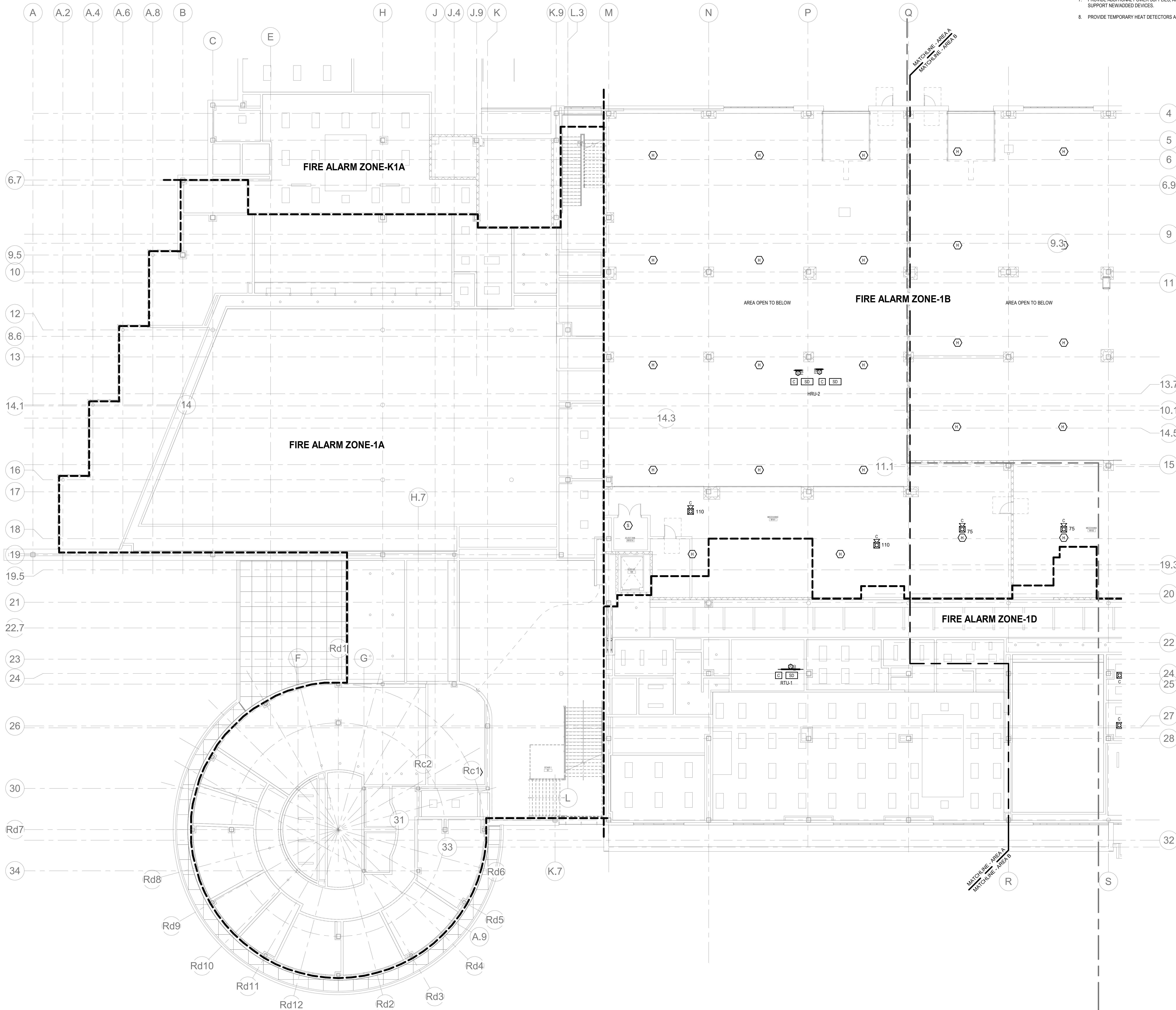
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GENERAL FIRE ALARM NOTES:

1. PROVIDE A FULLY OPERATIONAL TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.
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4. FOR EXACT LOCATIONS OF SMOKE/FIRE DAMPERS, DUCT MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND VALVE TAMPER SWITCHES, REFER TO FIRE PROTECTION, PLUMBING AND MECHANICAL/HVAC DRAWINGS.
5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTIONS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICES(S) TO FIRE ALARM TERMINAL CABINET(S) OR FIRE ALARM CONTROL PANEL OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS.
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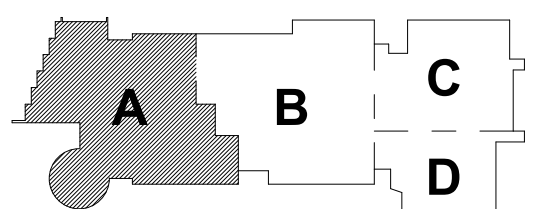


FIRE ALARM FIRST FLOOR MEZZANINE PLAN - AREA A

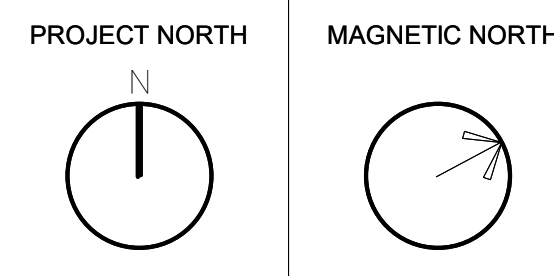
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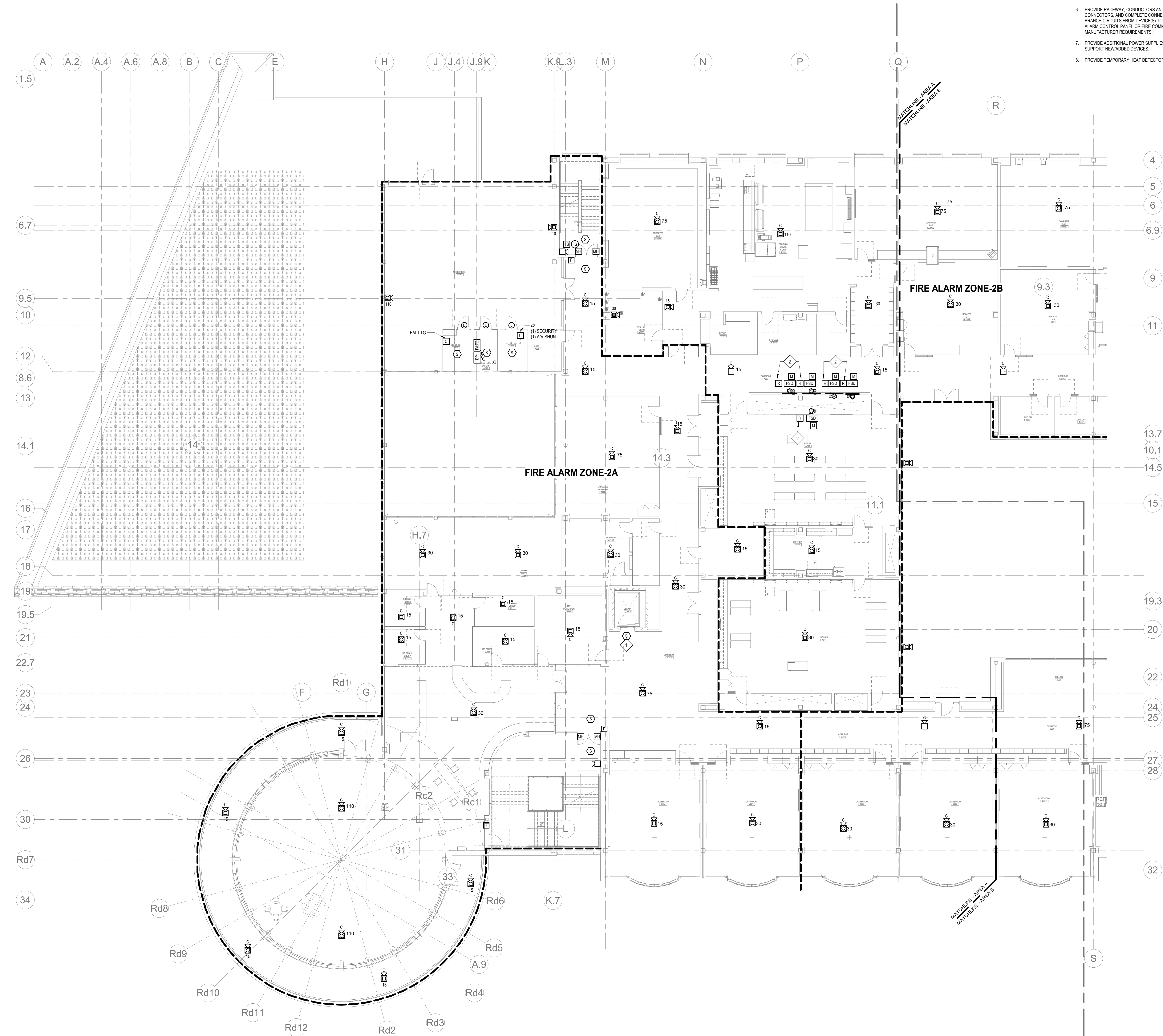
KEY PLAN



**FIRE ALARM
FIRST FLOOR
MEZZANINE
PLAN - AREA A**

Scale: 1" = 10'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023

FA1-1-1MA



1 FIRE ALARM SECOND FLOOR PLAN - AREA A
FA1-1-2A
1" = 10'-0"

GENERAL FIRE ALARM NOTES:

1. PROVIDE A FULLY OPERATIONAL TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.
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5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
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16. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

FIRE ALARM KEYNOTES:

1. PROVIDE SMOKE DETECTION TO INITIATE ELEVATOR RECALL.
2. REMOTE DUCT SMOKE DETECTOR INDICATOR SAND TEST SWITCH SHALL BE INSTALLED ON THE CEILING DIRECTLY BELOW DUCT SMOKE DETECTOR.

DRA

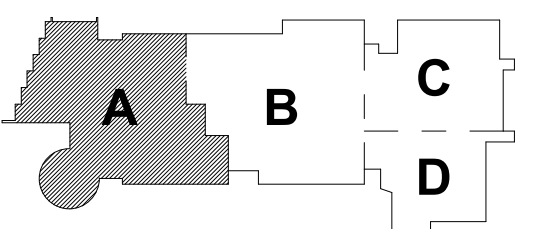
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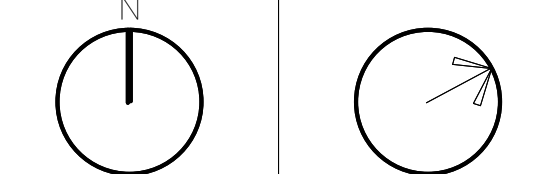
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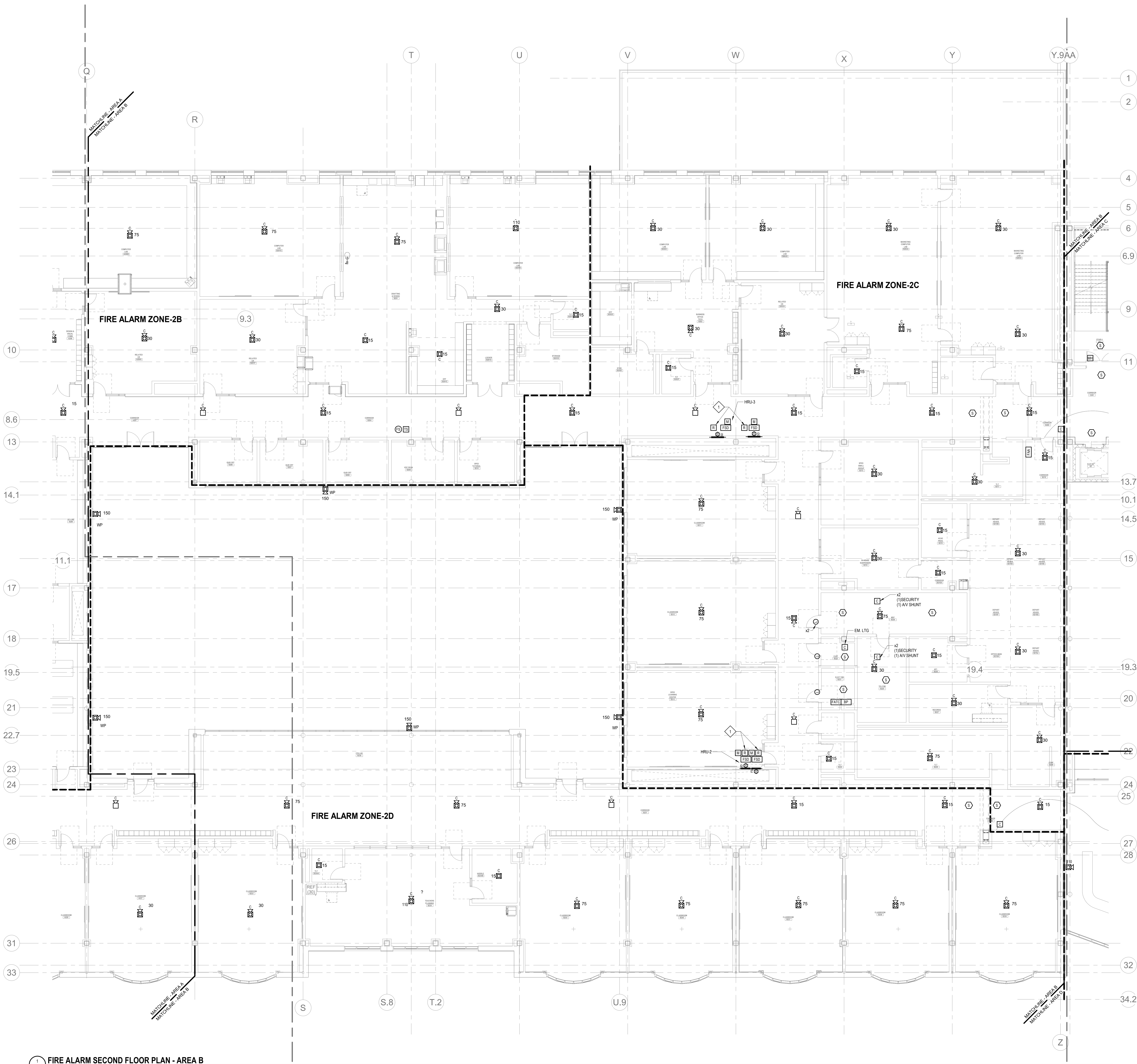
KEY PLAN

PROJECT NORTH MAGNETIC NORTH



FIRE ALARM
SECOND FLOOR
PLAN - AREA A

Scale: 1" = 10'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023
FA1-1-2A



1 FIRE ALARM SECOND FLOOR PLAN - AREA B
1/8" = 1'-0"

GENERAL FIRE ALARM NOTES:

1. PROVIDE A FULLY OPERATIONAL TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK, APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.
2. COORDINATE LOCATION OF FIRE ALARM APPLIANCES AND DEVICES IN AREAS WITH CEILING SYSTEM, DUCTWORK, FIXTURES, FURNITURE, AND OTHER EQUIPMENT PRIOR TO ALL WORK.
3. FINAL LOCATIONS AND ARRANGEMENTS OF FIRE ALARM DEVICES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATION VIEWS.
4. FOR EXACT LOCATIONS OF SMOKE/FIRE DAMPERS, DUCT MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND VALVE TAMPER SWITCHES, REFER TO FIRE PROTECTION, PLUMBING AND MECHANICAL/MEV DRAWINGS.
5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICES TO FIRE ALARM TERMINAL CABINETS (OR FIRE ALARM CONTROL PANEL OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS).
7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADDED DEVICES.
8. PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.
9. PROVIDE NEW AV DEVICES WITH INTEGRAL SYNCHRONIZATION CAPABILITIES AND/OR PROVIDE SYNCHRONIZATION MODULES FOR SYNCHRONIZATION OF ALL VISUAL DEVICES.
10. THE SCOPE OF THIS PROJECT SHALL IN NO WAY IMPACT THE DAILY OPERATION OR THE SEQUENCE OF OPERATION OF THE EXISTING FIRE ALARM SYSTEM.
11. PROVIDE ALL PROGRAMMING/RE-PROGRAMMING PER REVISED SPACE DESIGNATIONS.
12. PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE DEPARTMENT.
13. PROVIDE FIRE ALARM INTERFACE TO BRING ALL DIMMED LUMINAIRES TO FULL BRIGHTNESS UPON ALARM.
14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL AV AND/OR SOUND EQUIPMENT.
15. PROVIDE FIRE ALARM INTERFACE TO RELEASE ALL SECURITY DEVICES.
16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STANDPIPE/SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.
17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

FIRE ALARM KEYNOTES:

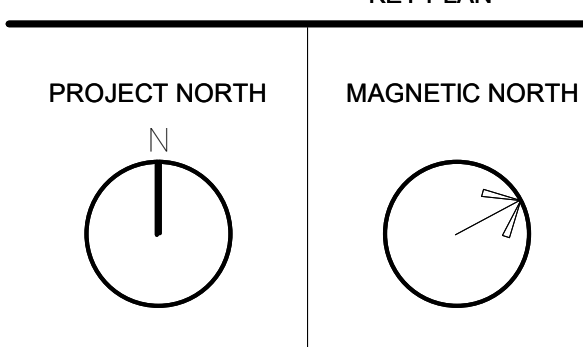
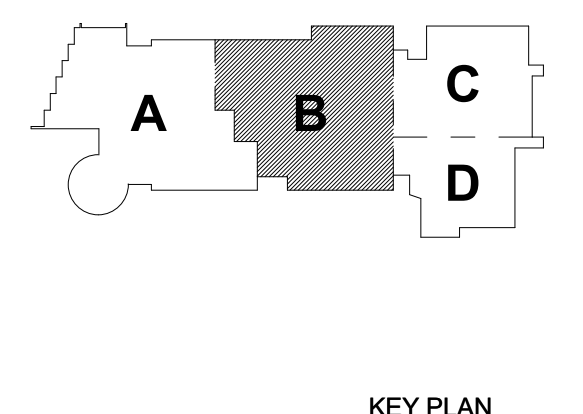
1. REMOTE DUCT SMOKE DETECTOR MONITORING AND RESET SWITCH MOUNTED ON THE CEILING DIRECTLY BELOW DUCT SMOKE DETECTOR.

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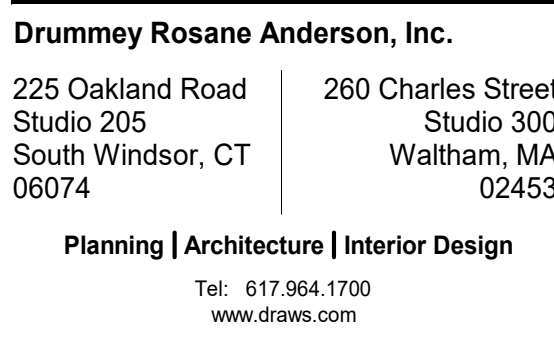
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May 12th, 2023



FIRE ALARM SECOND FLOOR PLAN - AREA B

Scale: 1/8" = 1'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023

FA1-1-2B



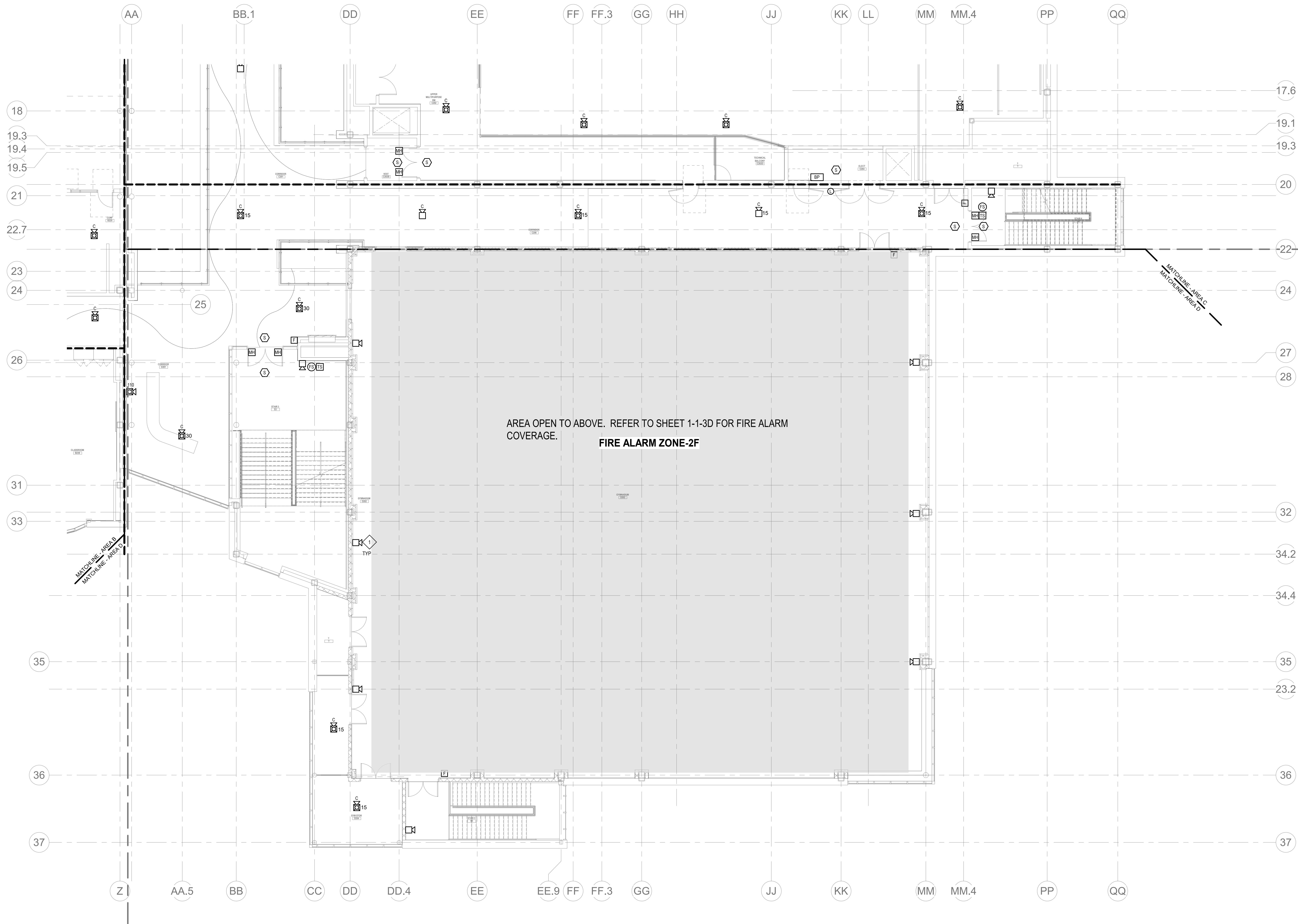
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1. PROVIDE SMOKE DETECTION TO INITIATE ELEVATOR RECALL



Scale: 1/8" = 1'-0"
 Job No.: 60-20-409
 Drawn By: WAM
 Date: May 12th, 2023

FA1-1-2



GENERAL FIRE ALARM NOTES:

1. PROVIDE A FULLY OPERATIONAL TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK, APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.
2. COORDINATE LOCATION OF FIRE ALARM APPLIANCES AND DEVICES IN AREAS WITH CEILING SYSTEM, DUCTWORK, FIXTURES, FURNITURE, AND OTHER EQUIPMENT PRIOR TO ALL WORK.
3. FINAL LOCATIONS AND ARRANGEMENTS OF FIRE ALARM DEVICES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATION VIEWS.
4. FOR EXACT LOCATIONS OF SMOKE/FIRE DAMPERS, DUCT-MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND VALVE TAMPER SWITCHES, REFER TO FIRE PROTECTION, PLUMBING AND MECHANICAL/PLUMBING DRAWINGS.
5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICES TO FIRE ALARM TERMINAL CABINETS (S) OR FIRE ALARM CONTROL PANEL OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS.
7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADDED DEVICES.
8. PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.
9. PROVIDE NEW AND DEVICES WITH INTEGRAL SYNCHRONIZATION CAPABILITIES AND/OR PROVIDE SYNCHRONIZATION MODULES FOR SYNCHRONIZATION OF ALL VISUAL DEVICES.
10. THE SCOPE OF THIS PROJECT SHALL IN NO WAY IMPACT THE DAILY OPERATION OR THE SEQUENCE OF OPERATION OF THE EXISTING FIRE ALARM SYSTEM.
11. PROVIDE ALL PROGRAMMING/RE-PROGRAMMING PER REVISED SPACE DESIGNATIONS.
12. PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE DEPARTMENT.
13. PROVIDE FIRE ALARM INTERFACE TO BRING ALL DIMMED LUMINAIRES TO FULL BRIGHTNESS UPON ALARM.
14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL AV AND/OR SOUND EQUIPMENT.
15. PROVIDE FIRE ALARM INTERFACE TO RELEASE ALL SECURITY DEVICES.
16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STANDPIPE/SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.
17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

FIRE ALARM KEYNOTES:

1. PROVIDE TOPA-10 SINGLE COIL HYPERSPIKE MEDIUM POWERED SIGNALING AND NOTIFICATION SPEAKER. COORDINATE WITH MANUFACTURER HYPERSPIKE CONTRACTOR SHALL COORDINATE THE MOUNTING HEIGHTS OF THE HYPERSPIKE SPEAKER WITH THE ARCHITECT.

1 FIRE ALARM SECOND FLOOR PLAN - AREA D
1/8" = 1'-0"

DRA

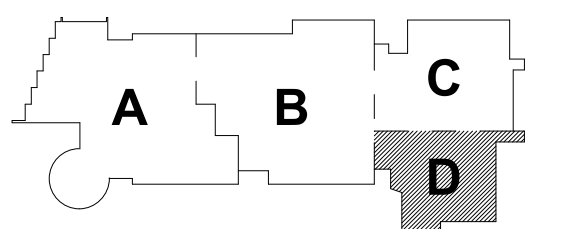
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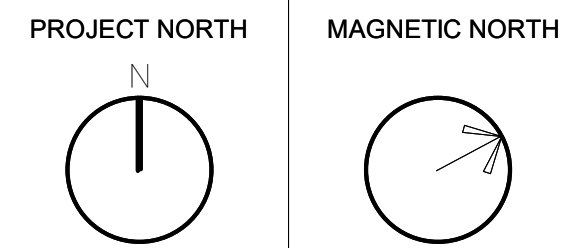
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May 12th, 2023**



KEY PLAN



**FIRE ALARM
SECOND FLOOR
PLAN - AREA D**

Scale: 1/8" = 1'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023

FA1-1-2D

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2. COORDINATE LOCATION OF FIRE ALARM APPLIANCES AND DEVICES IN AREAS WITH CEILING SYSTEM, DUCTWORK, FIXTURES, FURNITURE, AND OTHER EQUIPMENT PRIOR TO ALL WORK.

3. FINAL LOCATIONS AND ARRANGEMENTS OF FIRE ALARM DEVICES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATION VIEWS.

4. FOR EXACT LOCATIONS OF SMOKE/FIRE DAMPERS, DUCT-MOUNTED SMOKE DETECTOR WATER FLOW SWITCHES AND VALVE TAMPER SWITCHES, REFER TO FIRE PROTECTION, PLUMBING AND MECHANICAL/HVAC DRAWINGS.

5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.

6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICE(S) TO FIRE ALARM TERMINAL CABINET(S) OR FIRE ALARM CONTROL PANEL OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS.

7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADDED DEVICES.

9. PROVIDE NEW AV DEVICES WITH INTEGRAL SYNCHRONIZATION CAPABILITIES AND/OR

10. THE SCOPE OF THIS PROJECT SHALL IN NO WAY IMPACT THE DAILY OPERATION OR THE SEQUENCE OF OPERATION OF THE EXISTING FIRE ALARM SYSTEM.

12. PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE DEPARTMENT.

13. PROVIDE FIRE ALARM INTERFACE TO BRING ALL DIMMED LUMINAIRES TO FULL BRIGHTNESS UPON ALARM.

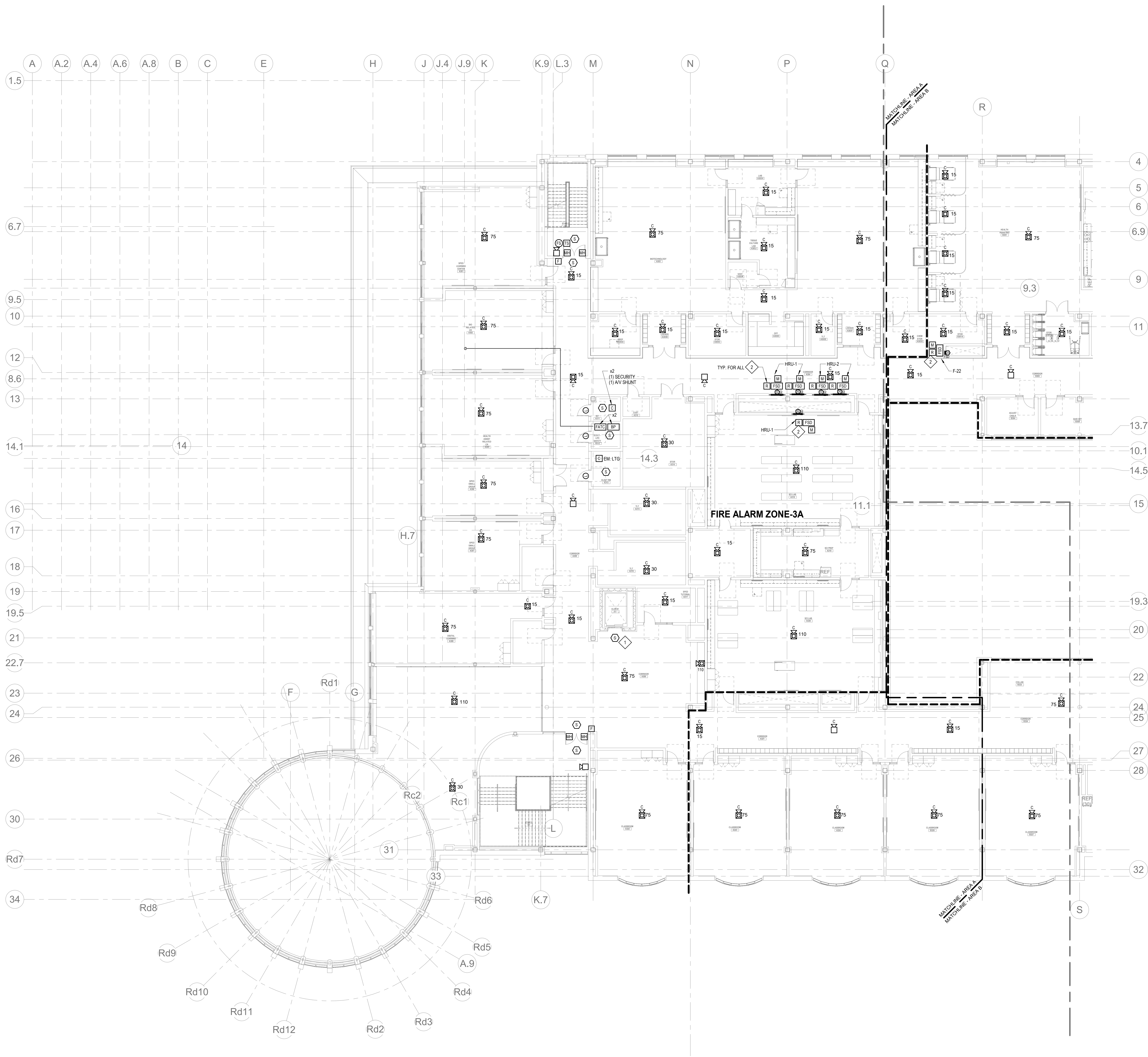
15. PROVIDE FIRE ALARM INTERFACE TO RELEASE ALL SECURITY DEVICES.

16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STANDPIPE/SPRINKLER SYSTEM. FOR MORE INFORMATION

17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

PROVIDE SMOKE DETECTION TO INITIATE ELEVATOR RECALL

REMOTE DUCT SMOKE DETECTOR INDICATOR WITH TEST SWITCH, SHALL BE INSTALLED ON THE CEILING DIRECTLY BELOW DUCT SMOKE DETECTOR.



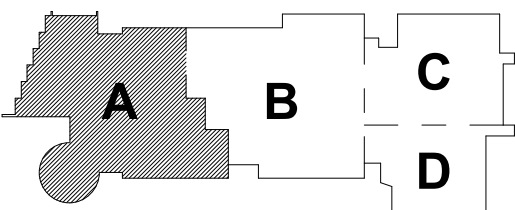
1 FIRE ALARM THIRD FLOOR PLAN - AREA A
FA1-1-34 1" = 10'-0"

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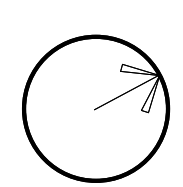
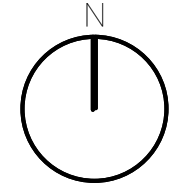
May 12th, 2023



KEY PLAN

PROJECT NORTH

MAGNETIC NORTH



**FIRE ALARM
THIRD FLOOR
PLAN - AREA A**

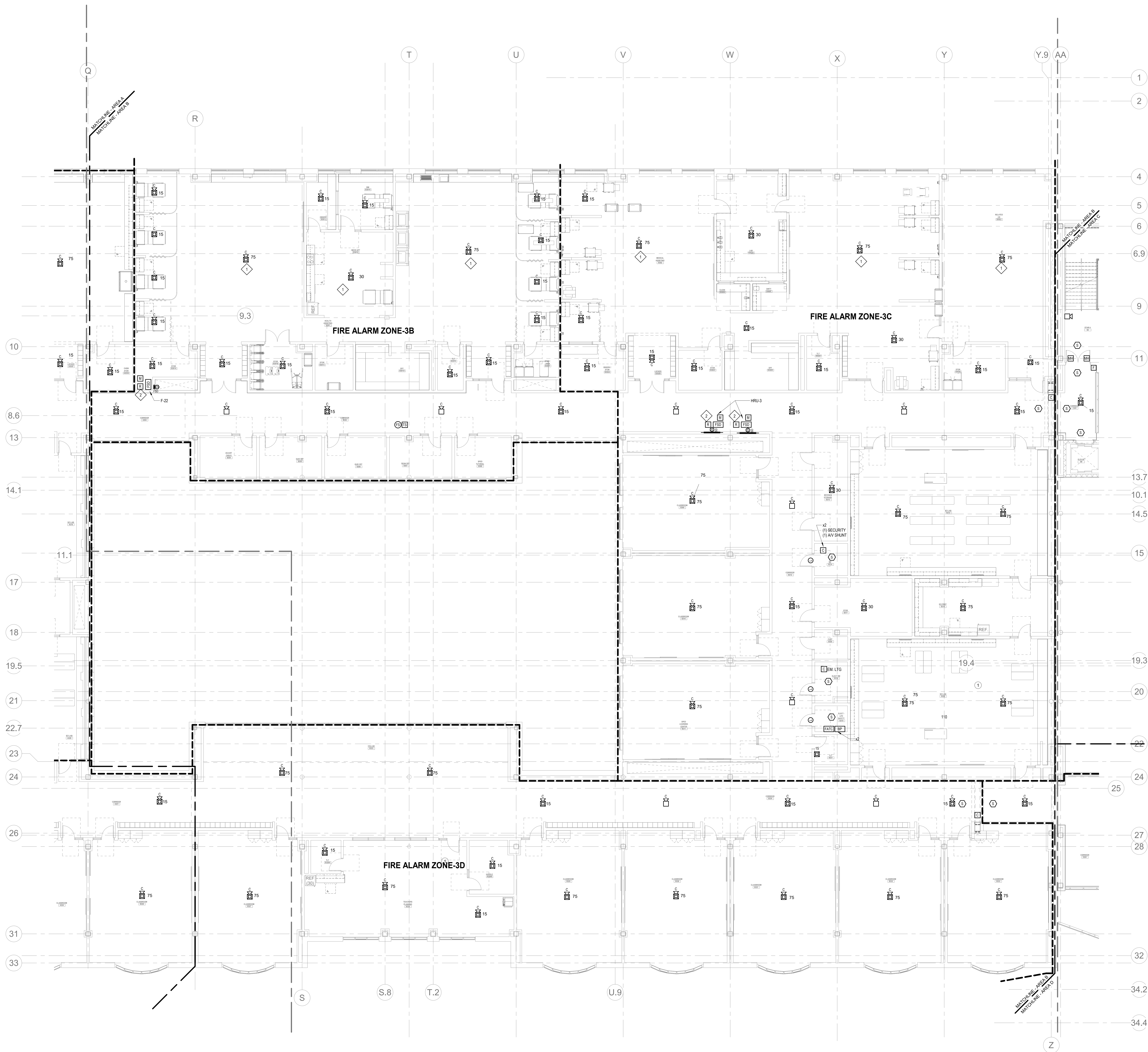
Scale: 1" = 10'-0"

Job No.: 60-20-409

Drawn By: WAM

Date: May 12th, 200

FA1-1-3A



GENERAL FIRE ALARM NOTES:

1. PROVIDE A FULLY OPERATIONAL TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK. APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.
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5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH (CIRCUITS FROM DEVICES) TO FIRE ALARM TERMINAL CABINET(S) OR FIRE ALARM CONTROL PANEL OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS.
7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADDED DEVICES.
8. PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.
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13. PROVIDE FIRE ALARM INTERFACE TO BRING ALL DIMMED LUMINAIRES TO FULL BRIGHTNESS UPON ALARM.
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15. PROVIDE FIRE ALARM INTERFACE TO RELEASE ALL SECURITY DEVICES.
16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STANDPIPE/SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.
17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

FIRE ALARM KEYNOTES:

- 1. CONTRACTOR SHALL PROVIDE CEILING MOUNTED NOTIFICATION APPLIANCES NOT TO EXCEED THE HEIGHT OF THE FLOATING CEILING. COORDINATE WITH ARCHITECT ABOUT THE FINAL MOUNTING HEIGHTS.
- 2. REMOTE DUCT SMOKE DETECTOR INDICATOR WITH TEST SWITCH, SHALL BE INSTALLED ON THE CEILING DIRECTLY BELOW DUCT SMOKE DETECTOR.



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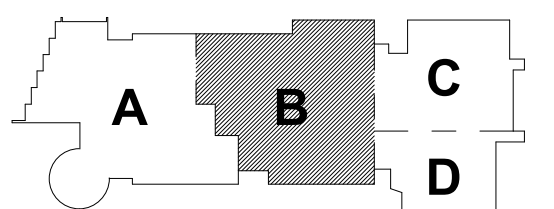
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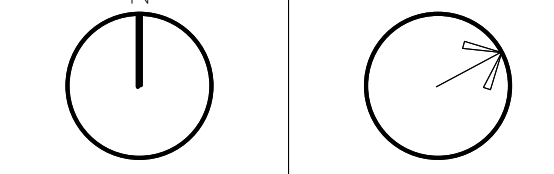


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May 12th, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



**FIRE ALARM
THIRD FLOOR
PLAN - AREA B**

Scale: 1/8" = 1'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023

FA1-1-3B



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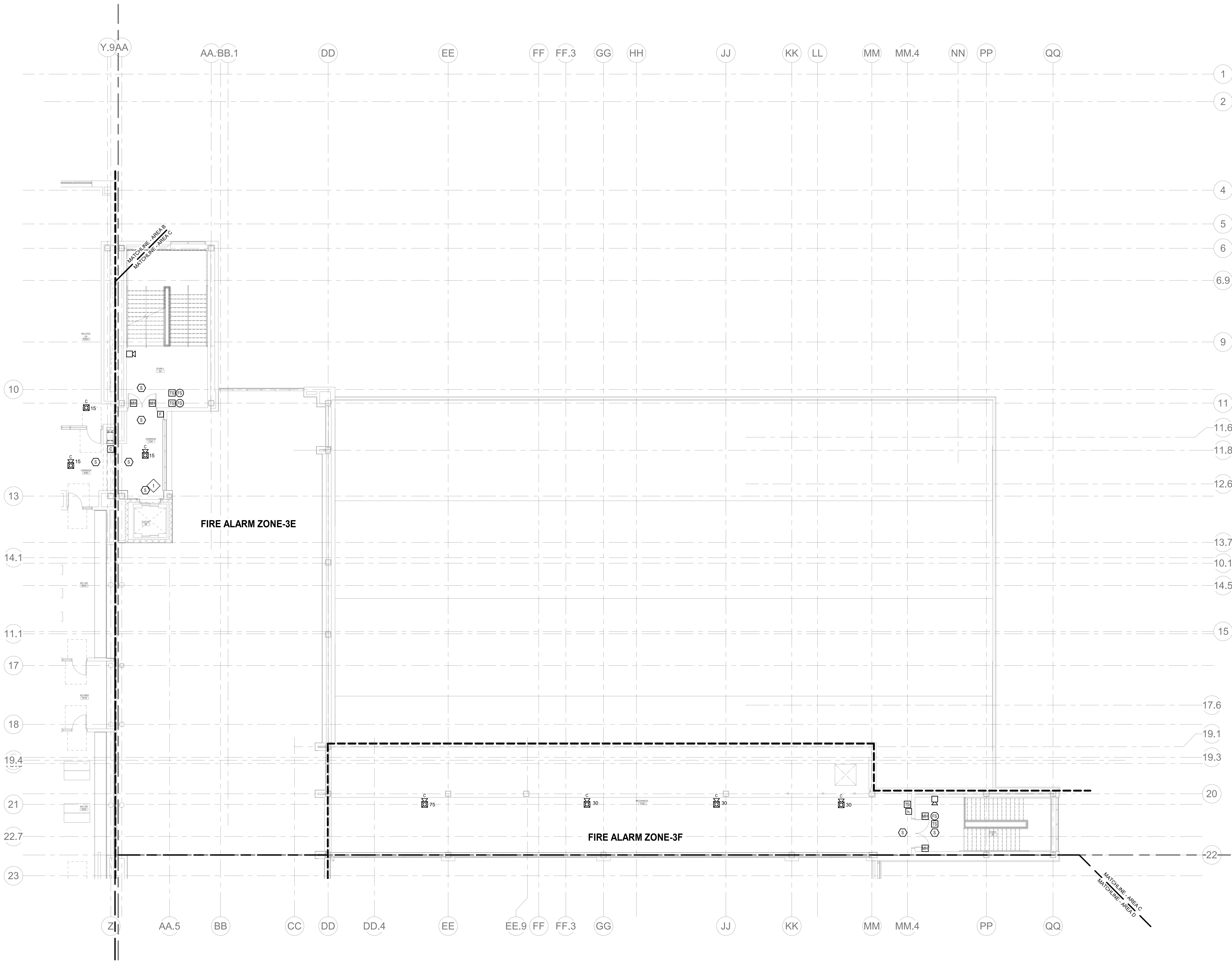
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GENERAL FIRE ALARM NOTES:

1. PROVIDE A FULLY OPERATIONAL TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK, APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.
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4. FOR EXACT LOCATIONS OF SMOKE/FIRE DAMPERS, DUCT MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND VALVE TAMPER SWITCHES, REFER TO FIRE PROTECTION, PLUMBING AND MECHANICAL/HVAC DRAWINGS.
5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICE(S) TO FIRE ALARM TERMINAL CABINET(S) OR FIRE ALARM CONTROL PANEL, OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS.
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9. PROVIDE NEW AV DEVICES WITH INTEGRAL SYNCHRONIZATION CAPABILITIES AND/OR PROVIDE SYNCHRONIZATION MODULES FOR SYNCHRONIZATION OF ALL VISUAL DEVICES.
10. THE SCOPE OF THIS PROJECT SHALL IN NO WAY IMPACT THE DAILY OPERATION OR THE SEQUENCE OF OPERATION OF THE EXISTING FIRE ALARM SYSTEM.
11. PROVIDE ALL PROGRAMMARE-PROGRAMMING PER REVISED SPACE DESIGNATIONS.
12. PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE DEPARTMENT.
13. PROVIDE FIRE ALARM INTERFACE TO BRING ALL DIMMED LUMINAIRES TO FULL BRIGHTNESS UPON ALARM.
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16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STANDPIPE/SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.
17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

FIRE ALARM KEYNOTES:

- ◇ PROVIDE SMOKE DETECTION TO INITIATE ELEVATOR RECALL.

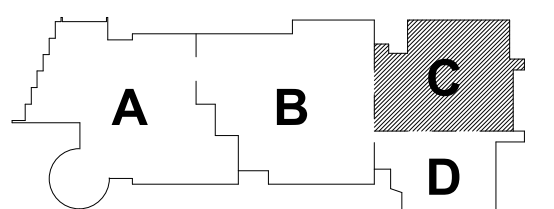


FIRE ALARM THIRD FLOOR PLAN - AREA C
1/8" = 1'-0"

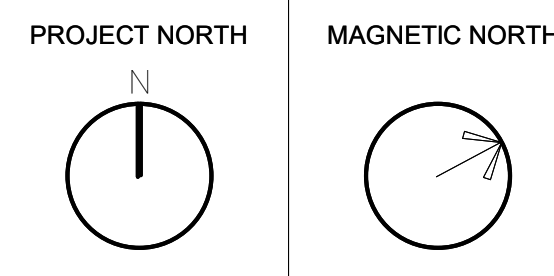
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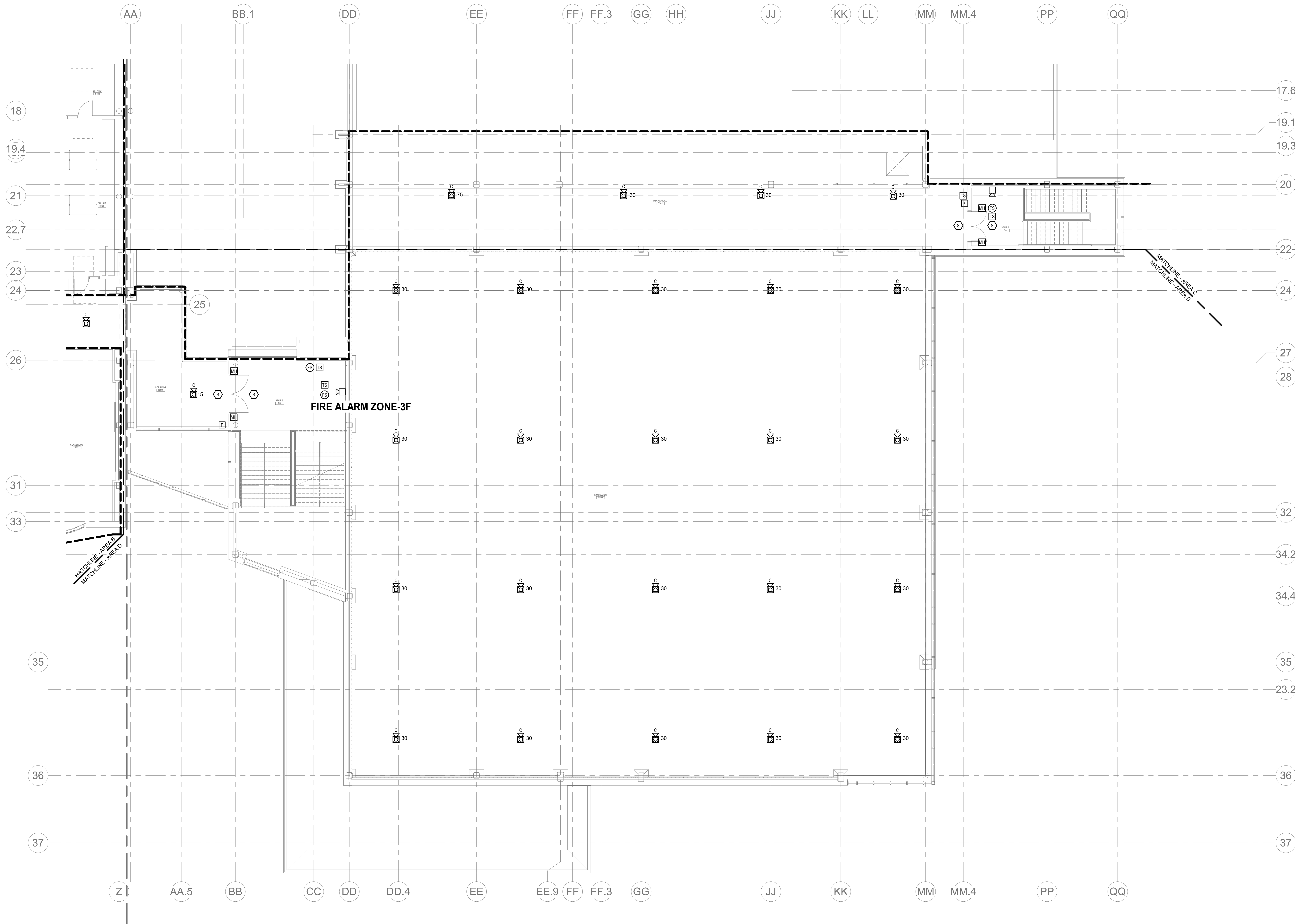


FIRE ALARM
THIRD FLOOR
PLAN - AREA C

Scale: 1/8" = 1'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023
FA1-1-3C

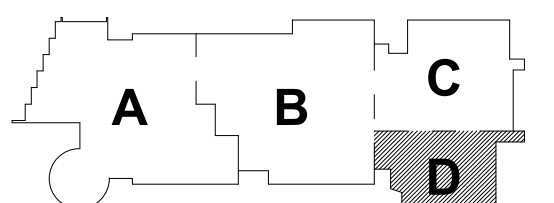
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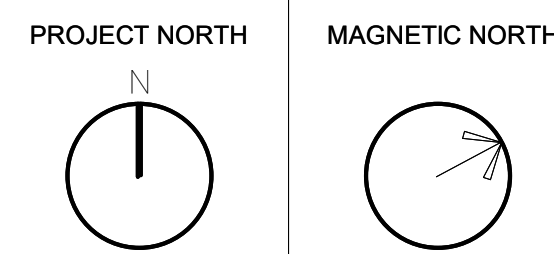


1 FIRE ALARM THIRD FLOOR PLAN - AREA D
1/8" = 1'-0"

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KEY PLAN



FIRE ALARM
THIRD FLOOR
PLAN - AREA D

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School**

Wakefield, MA 01880

GENERAL FIRE ALARM NOTES:

1. PROVIDE A FULLY OPERATIONAL TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK, APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.

2. COORDINATE LOCATION OF FIRE ALARM APPLIANCES AND DEVICES IN AREAS WITH CEILING SYSTEM, DUCTWORK, FIXTURES, FURNITURE, AND OTHER EQUIPMENT PRIOR TO ALL WORK.

3. FINAL LOCATIONS AND ARRANGEMENTS OF FIRE ALARM DEVICES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATION VIEWS.

4. FOR EXACT LOCATIONS OF SMOKE/FIRE DAMPERS, DUCT-MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND VALVE TAMPER SWITCHES, REFER TO FIRE PROTECTION, PLUMBING AND MECHANICAL/HVAC DRAWINGS.

5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.

6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICE(S) TO FIRE ALARM TERMINAL CABINET(S) OR FIRE ALARM CONTROL PANEL OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS.

7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADDED DEVICES.

9. PROVIDE NEW A/V DEVICES WITH INTEGRAL SYNCHRONIZATION CAPABILITIES AND/OR

10. THE SCOPE OF THIS PROJECT SHALL IN NO WAY IMPACT THE DAILY OPERATION OR THE SEQUENCE OF OPERATION OF THE EXISTING FIRE ALARM SYSTEM.

11. PROVIDE ALL PROGRAMMING/RE-PROGRAMMING PER REVISED SPACE DESIGNATIONS.

13. PROVIDE FIRE ALARM INTERFACE TO BRING ALL DIMMED LUMINAIRES TO FULL BRIGHTNESS UPON ALARM.

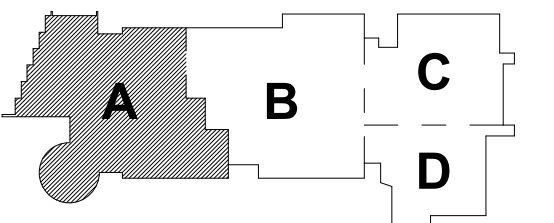
14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL A/V AND/OR SOUND EQUIPMENT.

16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STANDPIPE/SPRINKLER SYSTEM. FOR MORE INFORMATION

17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

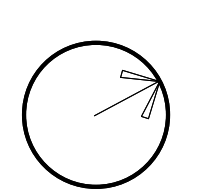
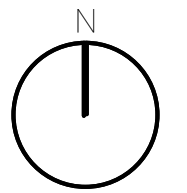
FIRE ALARM KEYNOTES:

- 1 PROVIDE A BI-DIRECTIONAL AMPLIFIER PANEL FOR POLICE AND FIRE DEPARTMENT RADIO COMMUNICATION.
- 2 SMOKE DETECTOR ON TOP OF THE ELEVATOR SHAFT.
- 3 REMOVE DUCT SMOKE DETECTOR MONITORING AND RESET SWITCH. MOUNTED ON THE CEILING DIRECTLY BELOW DUCT SMOKE DETECTOR.



KEY PLAN

PROJECT NORTH	MAGNETIC NORTH
100°	100°
110°	110°
120°	120°
130°	130°
140°	140°
150°	150°
160°	160°
170°	170°
180°	180°
190°	190°
200°	200°
210°	210°
220°	220°
230°	230°
240°	240°
250°	250°
260°	260°
270°	270°
280°	280°
290°	290°
300°	300°
310°	310°
320°	320°
330°	330°
340°	340°
350°	350°
360°	360°



**FIRE ALARM
FOURTH FLOOR
PLAN - AREA A**

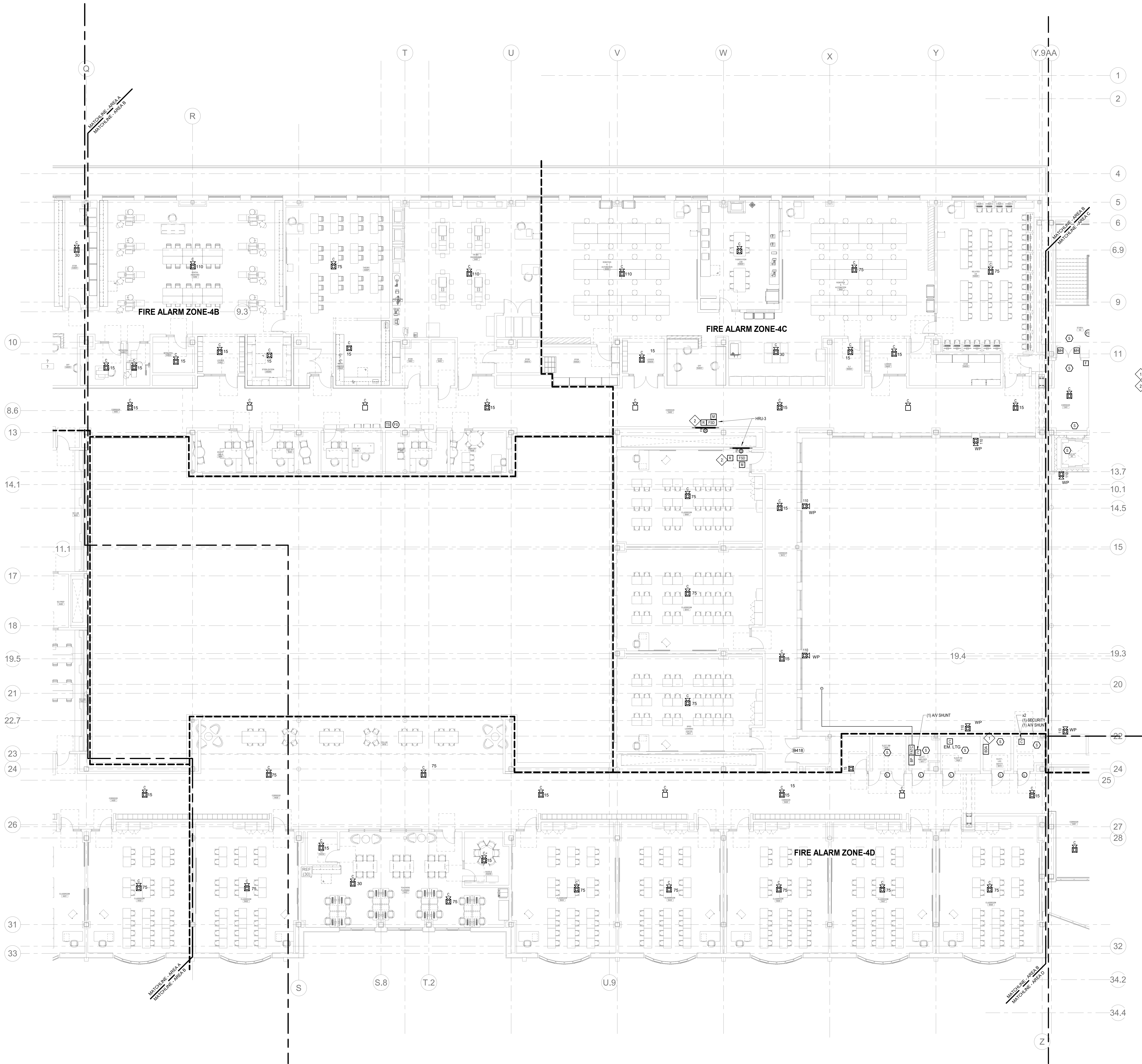
Scale: 1" = 10'-0"

Job No.: 60-20-409

Drawn By: JAA

Date: May 12th, 2023

FA1-1-4A



1 FIRE ALARM FOURTH FLOOR PLAN - AREA B
A1-1-4B 1/8" = 1'-0"

GENERAL FIRE ALARM NOTES:

1. PROVIDE A FULLY OPERATIONAL TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK, APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.
2. COORDINATE LOCATION OF FIRE ALARM APPLIANCES AND DEVICES IN AREAS WITH CEILING SYSTEM, DUCTWORK, FIXTURES, FURNITURE, AND OTHER EQUIPMENT PRIOR TO ALL WORK.
3. FINAL LOCATIONS AND ARRANGEMENTS OF FIRE ALARM DEVICES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATION VIEWS.
4. FOR EXACT LOCATIONS OF SMOKE/FIRE DAMPERS, DUCT MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND VALVE TAMPER SWITCHES, REFER TO FIRE PROTECTION, PLUMBING AND MECHANICAL/AVG DRAWINGS.
5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICES TO FIRE ALARM TERMINAL CABINETS OR FIRE ALARM CONTROL PANEL OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS.
7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NETWORKED DEVICES.
8. PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.
9. PROVIDE NEW ANY DEVICES WITH INTEGRAL SYNCHRONIZATION CAPABILITIES AND/OR PROVIDE SYNCHRONIZATION MODULES FOR SYNCHRONIZATION OF ALL VISUAL DEVICES.
10. THE SCOPE OF THIS PROJECT SHALL IN NO WAY IMPACT THE DAILY OPERATION OR THE SEQUENCE OF OPERATION OF THE EXISTING FIRE ALARM SYSTEM.
11. PROVIDE ALL PROGRAMMING/RE-PROGRAMMING PER REVISED SPACE DESIGNATIONS.
12. PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE DEPARTMENT.
13. PROVIDE FIRE ALARM INTERFACE TO BRING ALL DIMMED LUMINAIRES TO FULL BRIGHTNESS UPON ALARM.
14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL AV AND/OR SOUND EQUIPMENT.
15. PROVIDE FIRE ALARM INTERFACE TO RELEASE ALL SECURITY DEVICES.
16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STANDPIPE/SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.
17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

FIRE ALARM KEYNOTES:

- PROVIDE A BI-DIRECTIONAL AMPLIFIER PANEL FOR POLICE AND FIRE DEPARTMENT RADIO COMMUNICATION.
- REMOTE DUCT DETECTOR MONITORING AND TEST SWITCH. REMOTE MONITORING AND TEST SWITCH SHALL BE INSTALLED ON THE CEILING DIRECTLY BELOW DUCT SMOKE DETECTOR.

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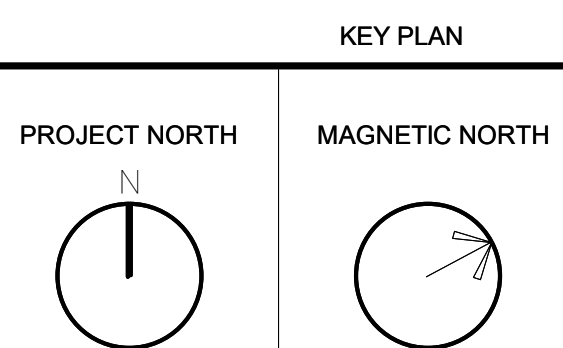
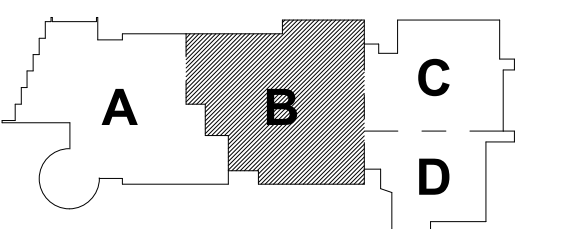
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ARCHITECT: DRUMME ROSE ANDERSON, INC.
ENGINEER: BALA ENGINEERS
DESIGNER: DRUMME ROSE ANDERSON, INC.

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Construction Document
Submittal
May 12th, 2023



FIRE ALARM FOURTH FLOOR PLAN - AREA B

Scale: 1/8" = 1'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023

FA1-1-4B



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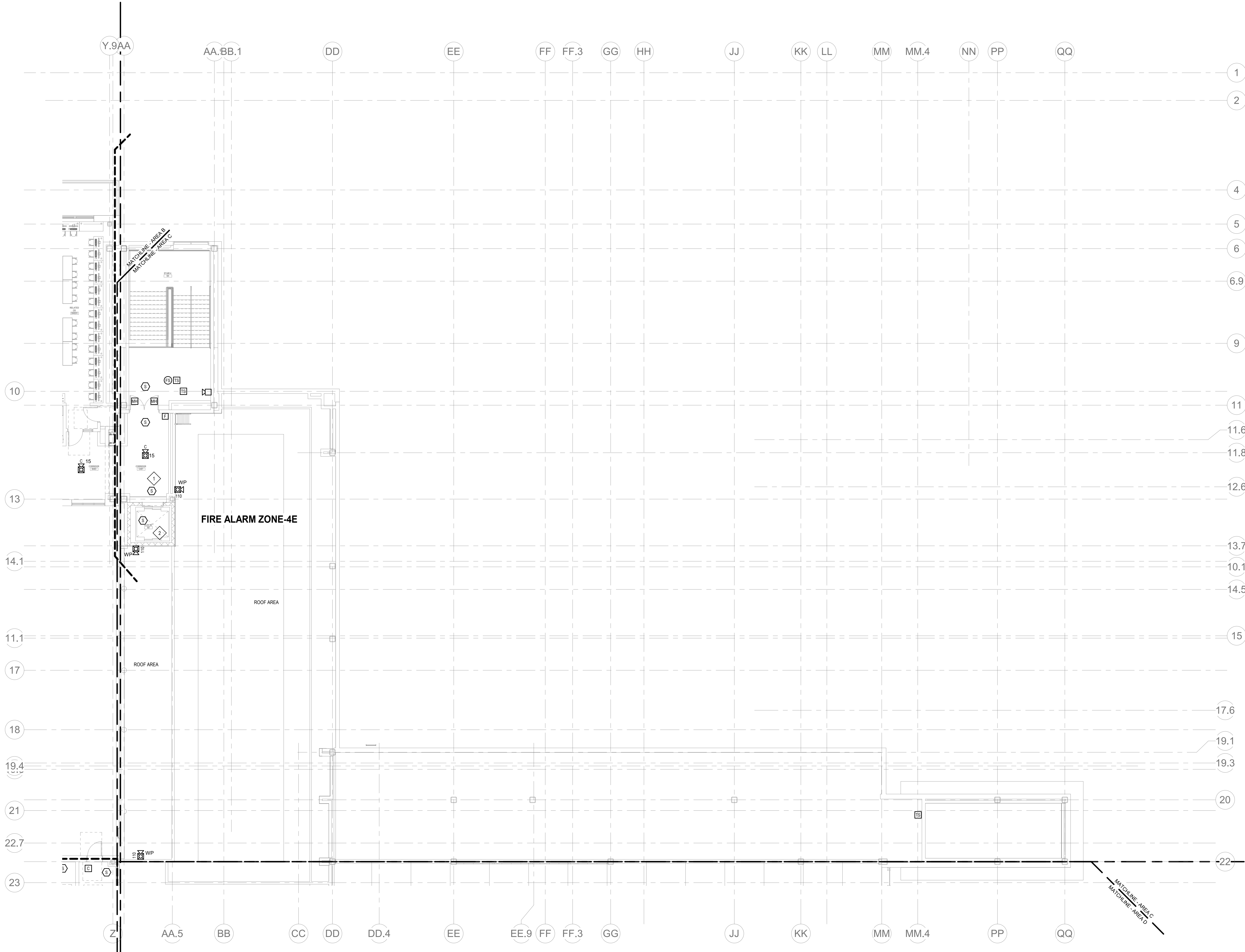
Wakefield, MA 01880

GENERAL FIRE ALARM NOTES:

1. PROVIDE A FULLY OPERATIONAL TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK, APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.
2. COORDINATE LOCATION OF FIRE ALARM APPLIANCES AND DEVICES IN AREAS WITH CEILING SYSTEM, DUCTWORK, FIXTURES, FURNITURE, AND OTHER EQUIPMENT PRIOR TO ALL WORK.
3. FINAL LOCATIONS AND ARRANGEMENTS OF FIRE ALARM DEVICES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATION VIEWS.
4. FOR EXACT LOCATIONS OF SMOKE/FIRE DAMPERS, DUCT-MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND VALVE TAMPER SWITCHES, REFER TO FIRE PROTECTION, PLUMBING AND MECHANICAL/HVAC DRAWINGS.
5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICE(S) TO FIRE ALARM TERMINAL CABINET(S) OR FIRE ALARM CONTROL PANEL OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS.
7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADDED DEVICES.
8. PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.
9. PROVIDE NEW A/V DEVICES WITH INTEGRAL SYNCHRONIZATION CAPABILITIES AND/OR PROVIDE SYNCHRONIZATION MODULES FOR SYNCHRONIZATION OF ALL VISUAL DEVICES.
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11. PROVIDE ALL PROGRAMMING/RE-PROGRAMMING PER REVISED SPACE DESIGNATIONS.
12. PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE DEPARTMENT.
13. PROVIDE FIRE ALARM INTERFACE TO BRING ALL DIMMED LUMINAIRES TO FULL BRIGHTNESS UPON ALARM.
14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL A/V AND/OR SOUND EQUIPMENT.
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16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STANDPIPE/SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.
17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

FIRE ALARM KEYNOTES:

1. PROVIDE SMOKE DETECTION TO INITIATE ELEVATOR RECALL.
2. SMOKE DETECTOR AT THE TOP OF ELEVATOR SHAFT

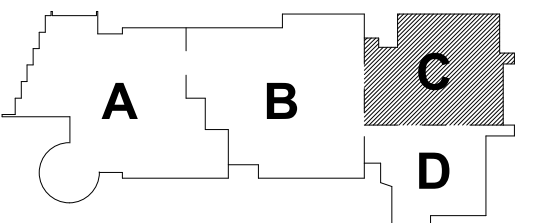


1 FIRE ALARM FOURTH FLOOR PLAN - AREA C
1/8" = 1'-0"

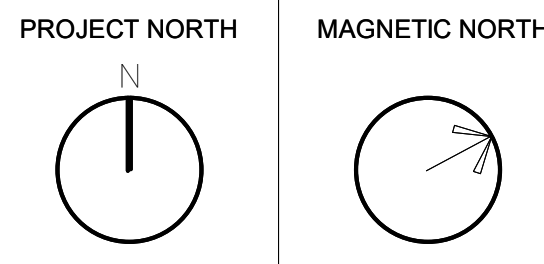
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May 12th, 2023



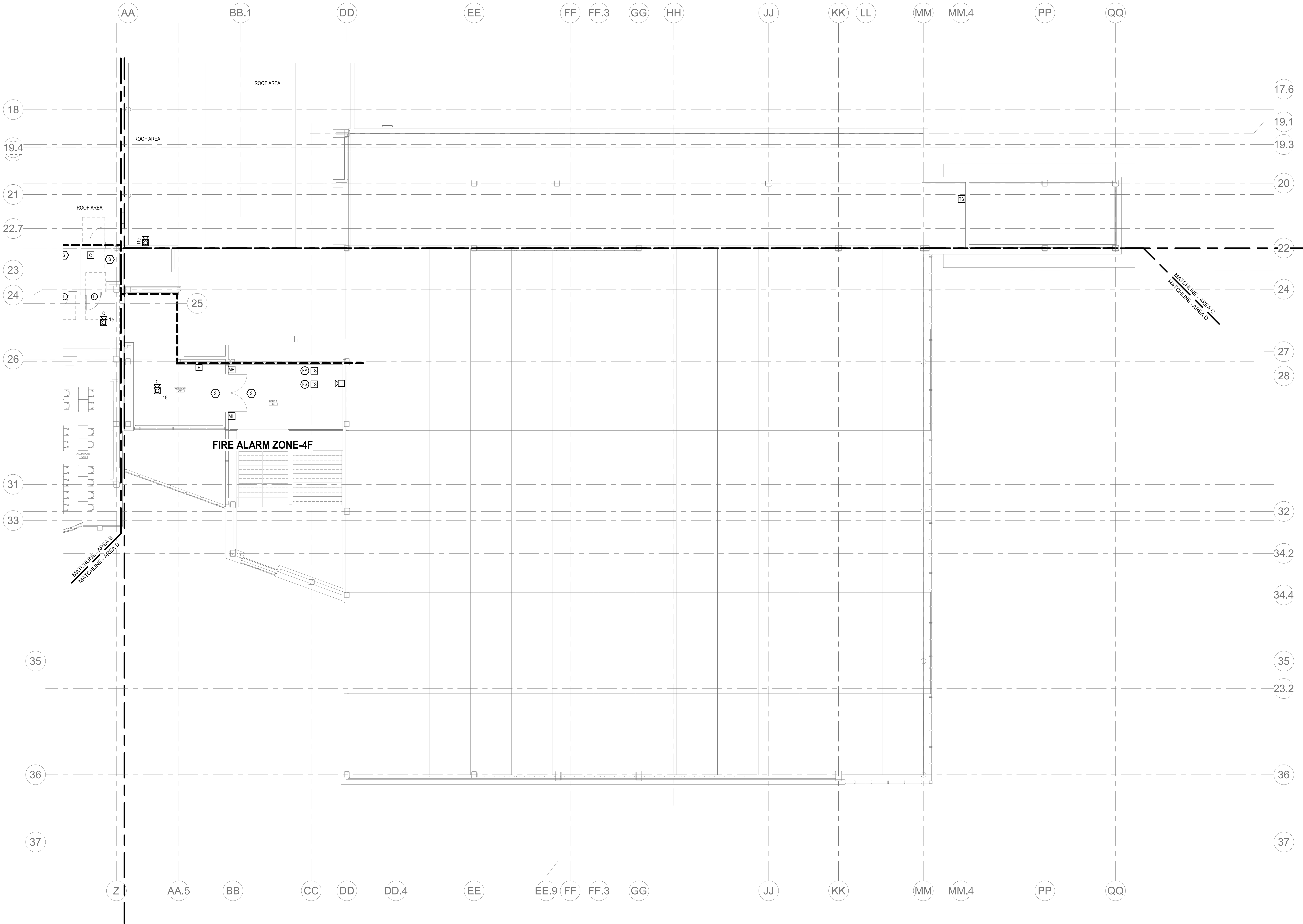
KEY PLAN



FIRE ALARM
FOURTH FLOOR
PLAN - AREA C

Scale: 1/8" = 1'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023

FA1-1-4C



GENERAL FIRE ALARM NOTES:

1. PROVIDE A FULLY OPERATIONAL TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK, APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.
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7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADDED DEVICES.
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12. PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE DEPARTMENT.
13. PROVIDE FIRE ALARM INTERFACE TO BRING ALL DIMMED LUMINAIRES TO FULL BRIGHTNESS UPON ALARM.
14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL AV AND/OR SOUND EQUIPMENT.
15. PROVIDE FIRE ALARM INTERFACE TO RELEASE ALL SECURITY DEVICES.
16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STANDPIPE/SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.
17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

FIRE ALARM FOURTH FLOOR PLAN - AREA D

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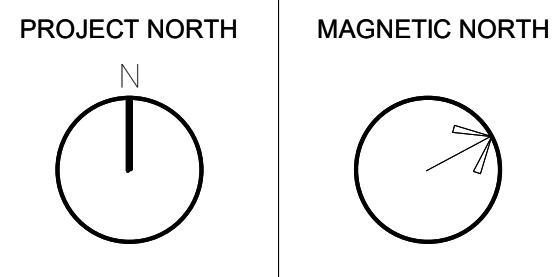
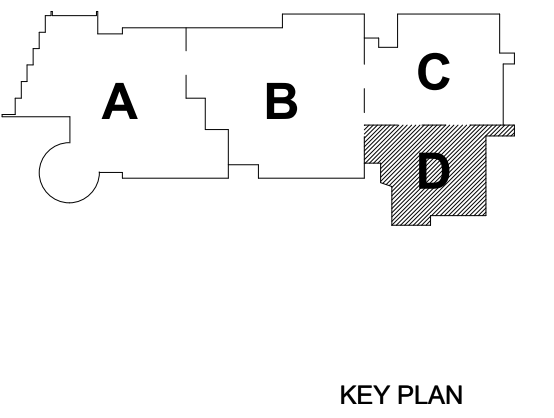
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Wakefield, MA 01880

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May 12th, 2023**



**FIRE ALARM
FOURTH FLOOR
PLAN - AREA D**

Scale: 1/8" = 1'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023
FA1-1-4D



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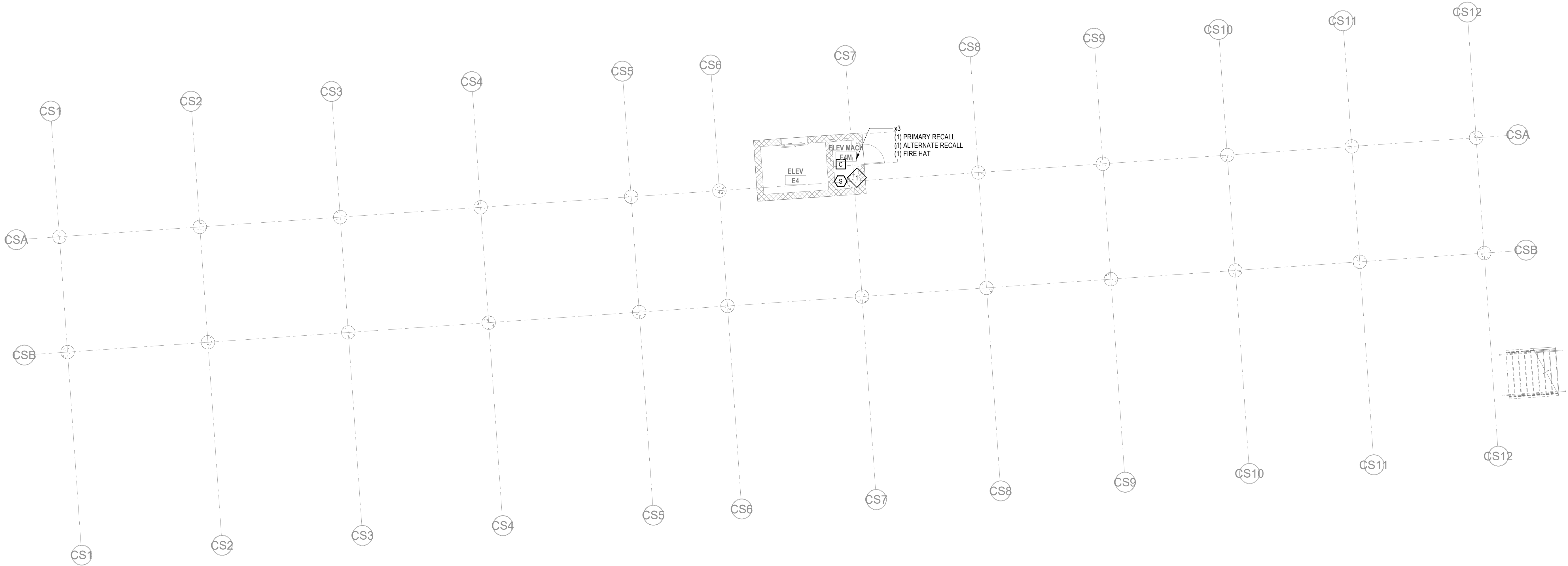
Wakefield, MA 01880

FIRE ALARM KEYNOTES:

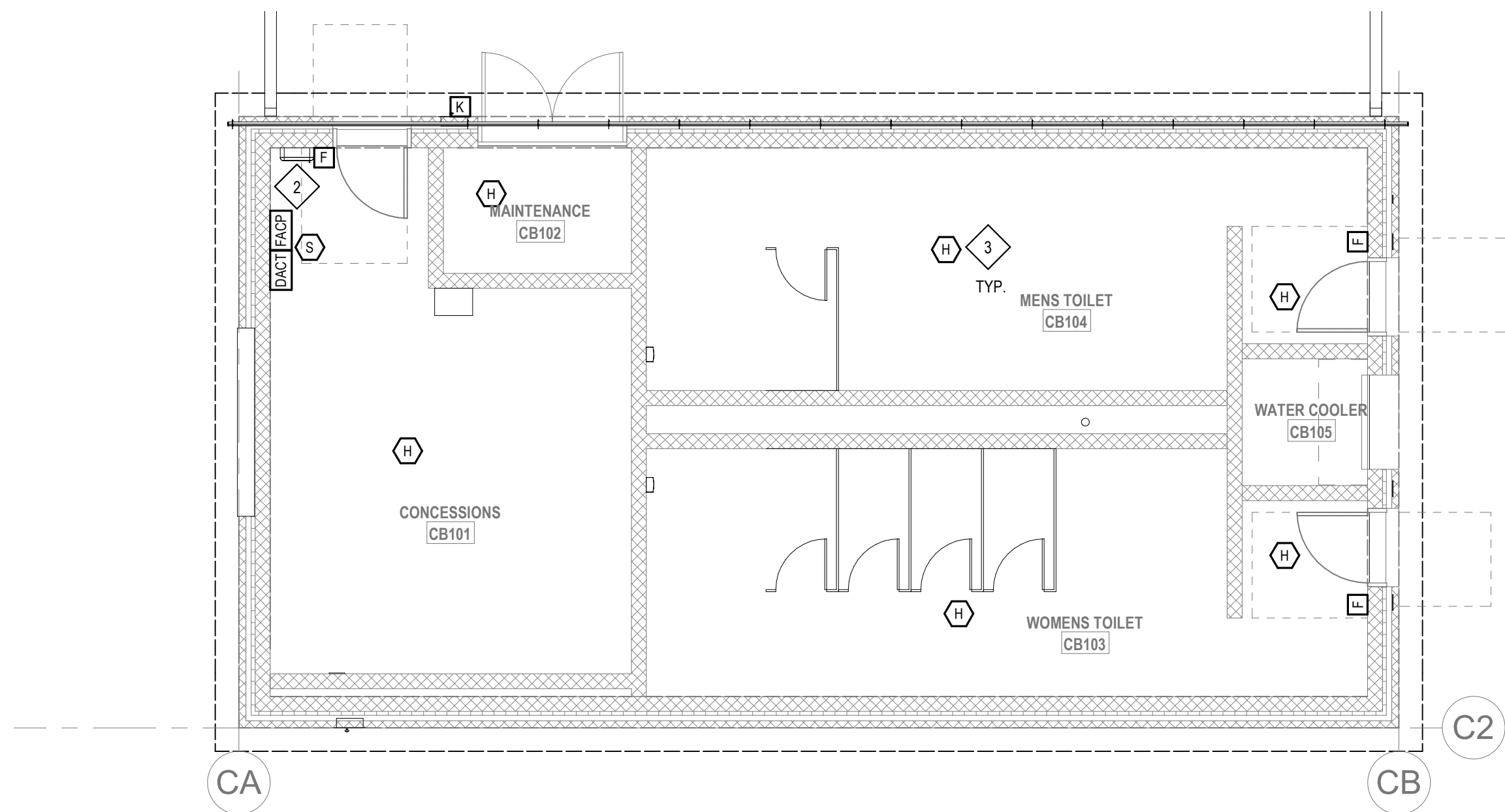
1. PROVIDE A SMOKE DETECTOR TO INITIATE ELEVATOR RECALL.
2. PROVIDE A NEW ANALOG ADDRESSABLE FIRE ALARM CONTROL PANEL UNIT. A DIGITAL ALARM COMMUNICATION TRANSMITTER SHALL BE PROVIDED TO TRANSMIT SIGNALS OFF-SITE.
3. PROVIDE HEAT DETECTORS RATED AT A FIXED TEMPERATURE OF 155 F.

GENERAL FIRE ALARM NOTES:

1. PROVIDE A FULLY OPERATIONAL TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK, APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.
2. COORDINATE LOCATION OF FIRE ALARM APPLIANCES AND DEVICES IN AREAS WITH CEILING SYSTEM, DUCTWORK, FIXTURES, FURNITURE, AND OTHER EQUIPMENT PRIOR TO ALL WORK.
3. FINAL LOCATIONS AND ARRANGEMENTS OF FIRE ALARM DEVICES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATION VIEWS.
4. FOR EXACT LOCATIONS OF SMOKE/FIRE DAMPERS, DUCT MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND VALVE TAMPER SWITCHES, REFER TO FIRE PROTECTION, PLUMBING AND MECHANICAL/HVAC DRAWINGS.
5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICE(S) TO FIRE ALARM TERMINAL CABINET(S) OR FIRE ALARM CONTROL PANEL, OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER'S REQUIREMENTS.
7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADDED DEVICES.
8. PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.
9. PROVIDE NEW AV DEVICES WITH INTEGRAL SYNCHRONIZATION CAPABILITIES AND/OR PROVIDE SYNCHRONIZATION MODULES FOR SYNCHRONIZATION OF ALL VISUAL DEVICES.
10. THE SCOPE OF THIS PROJECT SHALL IN NO WAY IMPACT THE DAILY OPERATION OR THE SEQUENCE OF OPERATION OF THE EXISTING FIRE ALARM SYSTEM.
11. PROVIDE ALL PROGRAMMING/RE-PROGRAMMING PER REVISED SPACE DESIGNATIONS.
12. PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE DEPARTMENT.
13. PROVIDE FIRE ALARM INTERFACE TO BRING ALL DIMMED LUMINAIRES TO FULL BRIGHTNESS UPON ALARM.
14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL AV AND/OR SOUND EQUIPMENT.
15. PROVIDE FIRE ALARM INTERFACE TO RELEASE ALL SECURITY DEVICES.
16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STANDPIPE/SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.
17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.



2 FIRE ALARM CONCESSION BUILDING PLAN
1/8" = 1'-0"

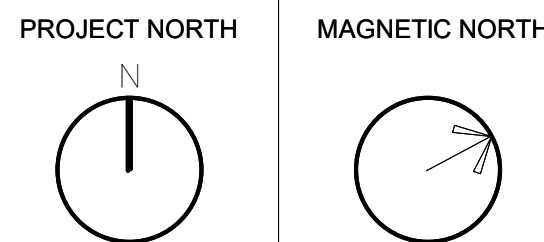


1 FIRE ALARM - CONCESSIONS FLOOR LEVEL PLAN
3/16" = 1'-0"

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FIRE ALARM
CONCESSION
BUILDING PLAN

Scale: As
Job No: INK60-20-409
Drawn By: WAM
Date: May 12th, 2023

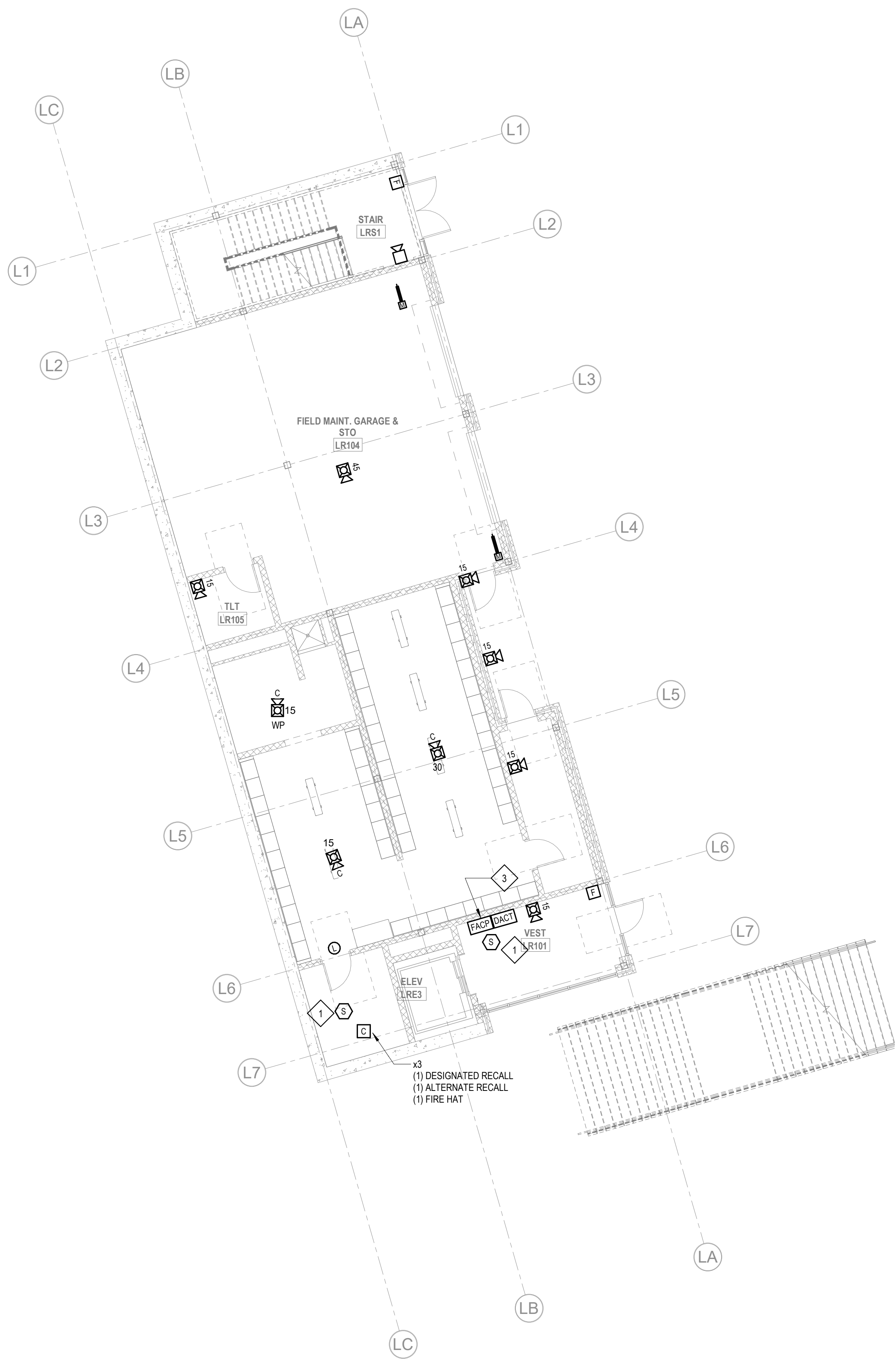
FA1-1-CB

FIRE ALARM KEYNOTES:

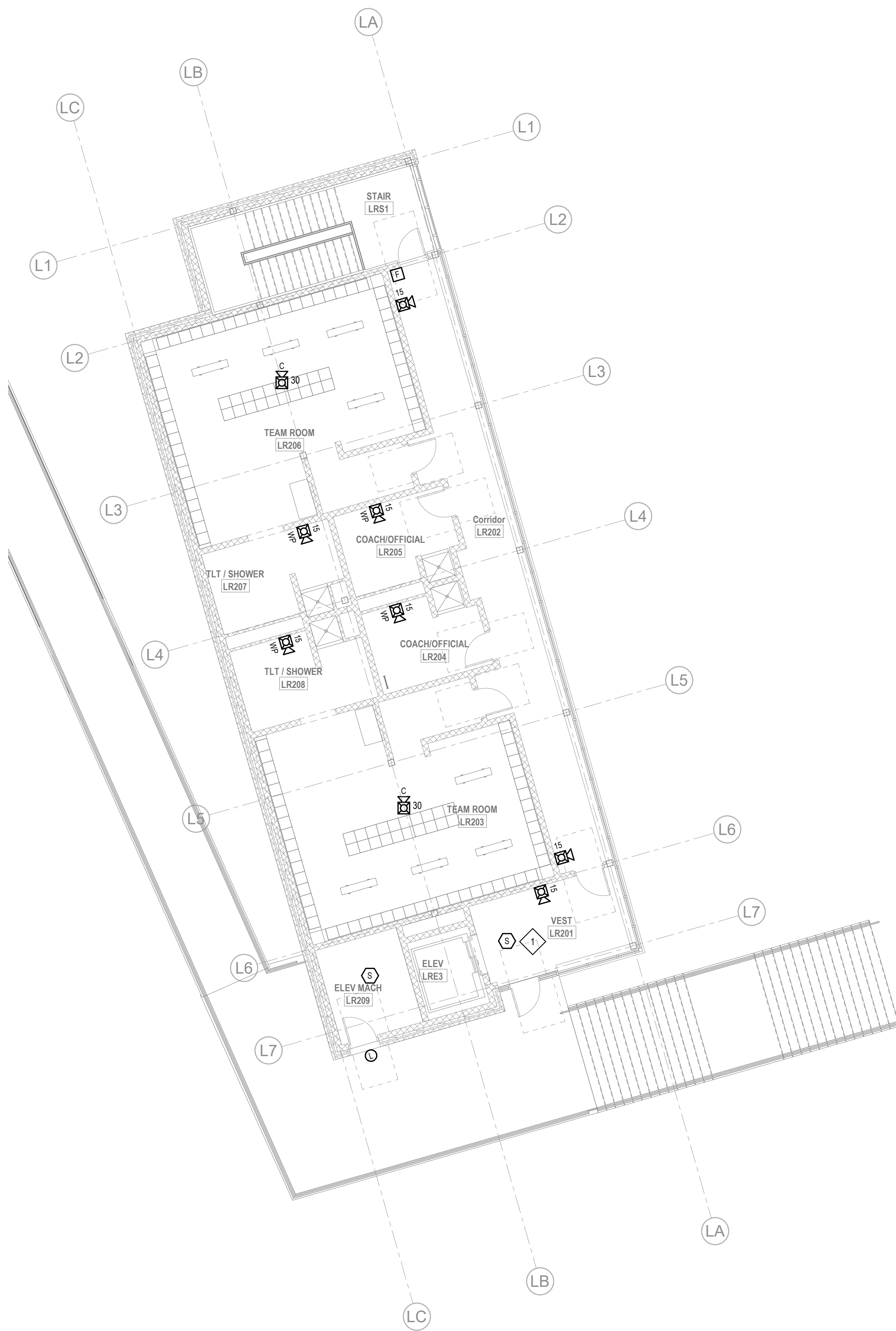
1. PROVIDE A SMOKE DETECTOR TO INITIATE ELEVATOR RECALL.
2. PROVIDE WEATHERPROOF SPEAKER/STROBE.
3. PROVIDE A NEW ANALOG ADDRESSABLE FIRE ALARM CONTROL PANEL UNIT. A DIGITAL ALARM COMMUNICATION TRANSMITTER SHALL BE PROVIDED TO TRANSMIT SIGNALS OFF-SITE.

GENERAL FIRE ALARM NOTES:

1. PROVIDE A FULLY OPERATIONAL, TEMPORARY FIRE ALARM SYSTEM DURING ALL WORK, APPROVED BY LOCAL FIRE DEPARTMENT. PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND TESTING ACCORDING TO LOCAL FIRE DEPARTMENT REQUESTS. TEMPORARY SYSTEM SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.
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5. MOUNTING HEIGHTS SHALL BE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICES TO FIRE ALARM TERMINAL CABINET(S) OR FIRE ALARM CONTROL PANEL OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS.
7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADDED DEVICES.
8. PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.
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11. PROVIDE ALL PROGRAMMING/RE-PROGRAMMING PER REVISED SPACE DESIGNATIONS.
12. PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE DEPARTMENT.
13. PROVIDE FIRE ALARM INTERFACE TO BRING ALL DIMMED LUMINAIRES TO FULL BRIGHTNESS UPON ALARM.
14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL AV AND/OR SOUND EQUIPMENT.
15. PROVIDE FIRE ALARM INTERFACE TO RELEASE ALL SECURITY DEVICES.
16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STANDPIPE/SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.
17. A FLOW AND SUPERVISORY SWITCH SHALL BE PROVIDED FOR EACH CONTROL VALVE ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.



1 FIRE ALARM LOCKER BUILDING FIRST FLOOR
1/8" = 1'-0"



2 FIRE ALARM LOCKER BUILDING SECOND LEVEL
1/8" = 1'-0"

DRA

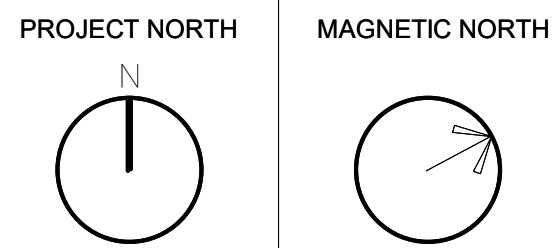
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Construction Document
Submittal
May 12th, 2023

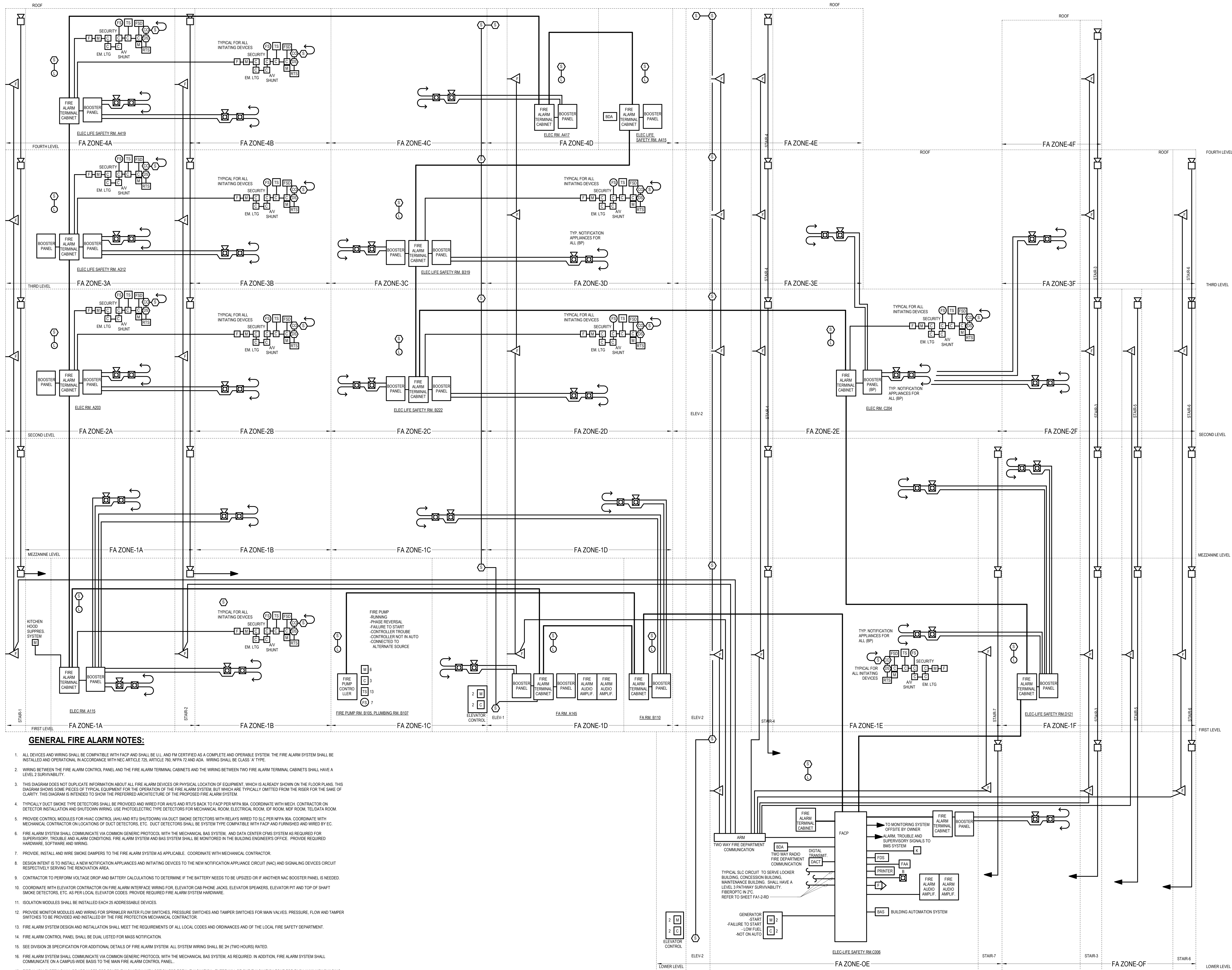


FIRE ALARM
LOCKER
BUILDING PLAN

Scale: 1/8" = 1'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023

FA1-1-LB

[illegible]



GENERAL FIRE ALARM NOTES:

1. ALL DEVICES AND WIRING SHALL BE COMPATIBLE WITH FACP AND SHALL BE UL, AND IF CERTIFIED AS A COMPLETE AND OPERABLE SYSTEM, THE FIRE ALARM SYSTEM SHALL BE INSTALLED AND OPERATIONAL IN ACCORDANCE WITH NEC ARTICLE 725, ARTICLE 760, NFPA 72 AND ADA. WIRING SHALL BE CLASS "A" TYPE.
2. WIRING BETWEEN THE FIRE ALARM CONTROL PANEL AND THE FIRE ALARM TERMINAL CABINETS AND THE WIRING BETWEEN TWO FIRE ALARM TERMINAL CABINETS SHALL HAVE A LEVEL 2 SURVIVABILITY.
3. THIS DIAGRAM DOES NOT DUPLICATE INFORMATION ABOUT ALL FIRE ALARM DEVICES OR PHYSICAL LOCATION OF EQUIPMENT, WHICH IS ALREADY SHOWN ON THE FLOOR PLANS. THIS DIAGRAM SHOWS SOME PIECES OF TYPICAL EQUIPMENT FOR THE OPERATION OF THE FIRE ALARM SYSTEM, BUT WHICH ARE TYPICALLY OMITTED FROM THE RISER FOR THE SAKE OF CLARITY. THIS DIAGRAM IS INTENDED TO SHOW THE PREFERRED ARCHITECTURE OF THE PROPOSED FIRE ALARM SYSTEM.
4. TYPICALLY DUCT SMOKE TYPE DETECTORS SHALL BE PROVIDED AND WIRED FOR AHU/S AND RTU/S BACK TO FACP PER NFPA 80A. COORDINATE WITH MECH. CONTRACTOR ON DETECTOR INSTALLATION AND SHUTDOWN WIRING. USE PHOTOELECTRIC TYPE DETECTORS FOR MECHANICAL ROOM, IDF ROOM, MDF ROOM, TEL/DATA ROOM.
5. PROVIDE CONTROL MODULES FOR HVAC CONTROL (AHU AND RTU SHUTDOWN) VIA DUCT SMOKE DETECTORS WITH RELAYS WIRED TO SLC PER NFPA 80A. COORDINATE WITH MECHANICAL CONTRACTOR ON LOCATIONS OF DUCT DETECTORS, ETC. DUCT DETECTORS SHALL BE SYSTEM TYPE COMPATIBLE WITH FACP AND FURNISHED AND WIRED BY EC.
6. FIRE ALARM SYSTEM SHALL COMMUNICATE VIA COMMON GENERIC PROTOCOL WITH THE MECHANICAL BAS SYSTEM, AND DATA CENTER CPMS SYSTEM AS REQUIRED FOR SUPERVISORY, TROUBLE AND ALARM CONDITIONS. FIRE ALARM SYSTEM AND BAS SYSTEM SHALL BE MONITORED IN THE BUILDING ENGINEERS' OFFICE. PROVIDE REQUIRED HARDWARE, SOFTWARE AND WIRING.
7. PROVIDE, INSTALL AND WIRE SMOKE DAMPERS TO THE FIRE ALARM SYSTEM AS APPLICABLE. COORDINATE WITH MECHANICAL CONTRACTOR.
8. DESIGN INTENT IS TO INSTALL A NEW NOTIFICATION APPLIANCE CIRCUIT (NAC) AND SIGNALING DEVICES CIRCUIT RESPECTIVELY SERVING THE RENOVATION AREA.
9. CONTRACTOR TO PERFORM VOLTAGE DROP AND BATTERY CALCULATIONS TO DETERMINE IF THE BATTERY NEEDS TO BE UPSIZED OR IF ANOTHER NAC BOOSTER PANEL IS NEEDED.
10. COORDINATE WITH ELEVATOR CONTRACTOR ON FIRE ALARM INTERFACE WIRING FOR ELEVATOR CAB PHONE JACKS, ELEVATOR SPEAKERS, ELEVATOR PIT AND TOP OF SHAFT SMOKE DETECTORS, ETC. AS PER LOCAL ELEVATOR CODES. PROVIDE REQUIRED FIRE ALARM SYSTEM HARDWARE.
11. ISOLATION MODULES SHALL BE INSTALLED EACH 25 ADDRESSABLE DEVICES.
12. PROVIDE MONITOR MODULES AND WIRING FOR SPRINKLER WATER FLOW SWITCHES, PRESSURE SWITCHES AND TAMPER SWITCHES FOR MAIN VALVES. PRESSURE, FLOW AND TAMPER SWITCHES TO BE PROVIDED AND INSTALLED BY THE FIRE PROTECTION MECHANICAL CONTRACTOR.
13. FIRE ALARM SYSTEM DESIGN AND INSTALLATION SHALL MEET THE REQUIREMENTS OF ALL LOCAL CODES AND ORDINANCES AND OF THE LOCAL FIRE SAFETY DEPARTMENT.
14. FIRE ALARM CONTROL PANEL SHALL BE DUAL LISTED FOR MASS NOTIFICATION.
15. SEE DIVISION 28 SPECIFICATION FOR ADDITIONAL DETAILS OF FIRE ALARM SYSTEM. ALL SYSTEM WIRING SHALL BE 2H (TWO HOURS) RATED.
16. FIRE ALARM SYSTEM SHALL COMMUNICATE VIA COMMON GENERIC PROTOCOL WITH THE MECHANICAL BAS SYSTEM, AS REQUIRED. IN ADDITION, FIRE ALARM SYSTEM SHALL COMMUNICATE ON A CAMPUS-WIDE BASIS TO THE MAIN FIRE ALARM CONTROL PANEL.
17. FIRE ALARM SYSTEM SHALL BE ARRANGED FOR ZONED EVACUATION WITH OPTION FOR TOTAL EVACUATION. THERE WILL BE ONE EVACUATION ZONE FOR EACH AUXILIARY BUILDING. INITIATING DEVICES THAT ARE ACTUATED WITHIN THE HIGH SCHOOL BUILDING WILL ONLY NOTIFY OCCUPANTS WITHIN THE HIGH SCHOOL BUILDING AND NOT IN AUXILIARY BUILDINGS. THE CORRESPONDING FIRE ALARM SIGNALS SHALL BE DISTINGUISH IF IT IS ORIGINATED FROM THE FIRE/SMOKE SENSING DETECTORS OR CARBON MONOXIDE DETECTORS.
18. PROVIDE 3/4" CONDUIT TO GENERATOR CONTROLLER, FIRE PUMP CONTROLLER, ELEVATOR CONTROLLERS FOR FIRE ALARM SYSTEM WIRING.



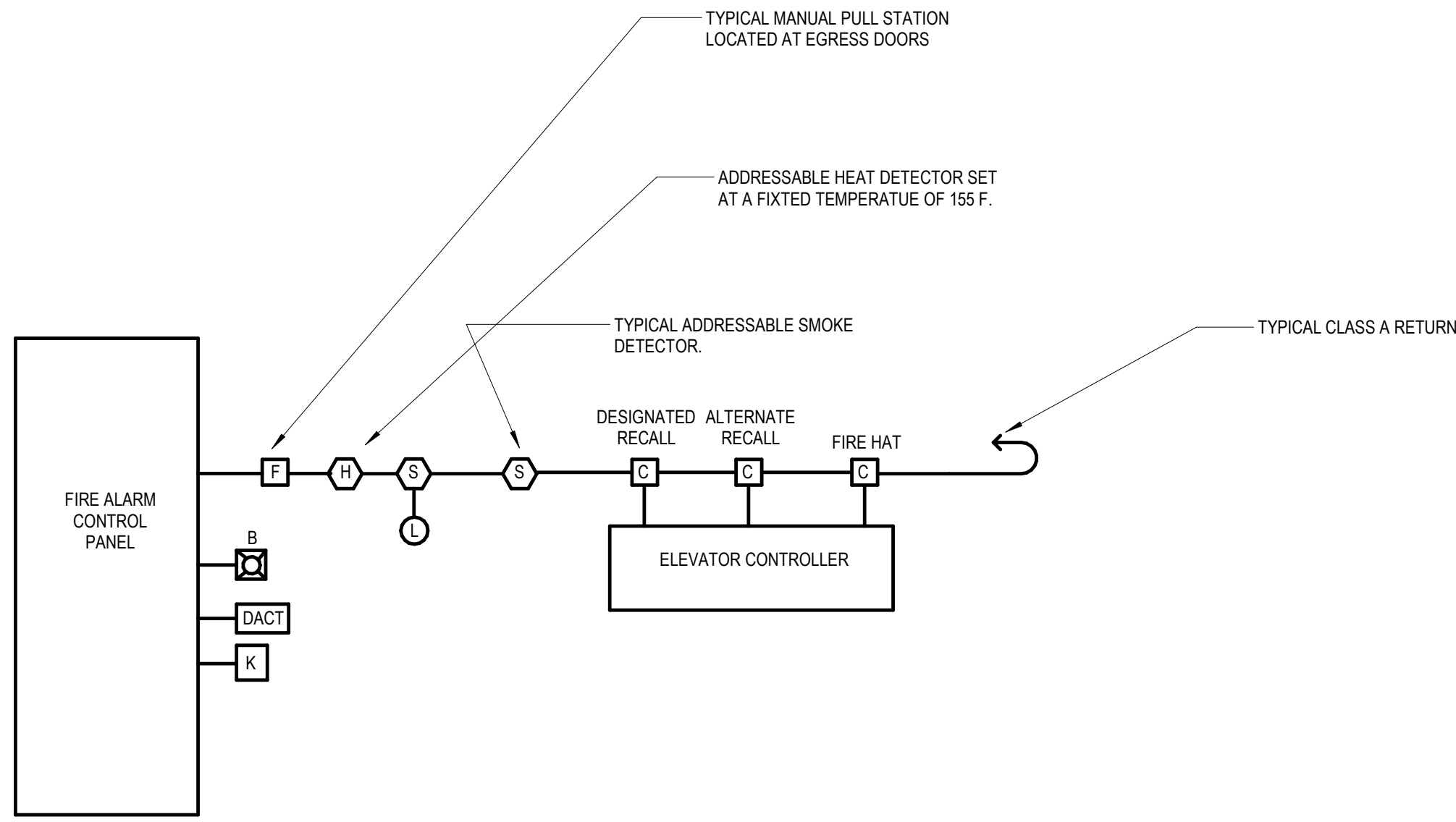
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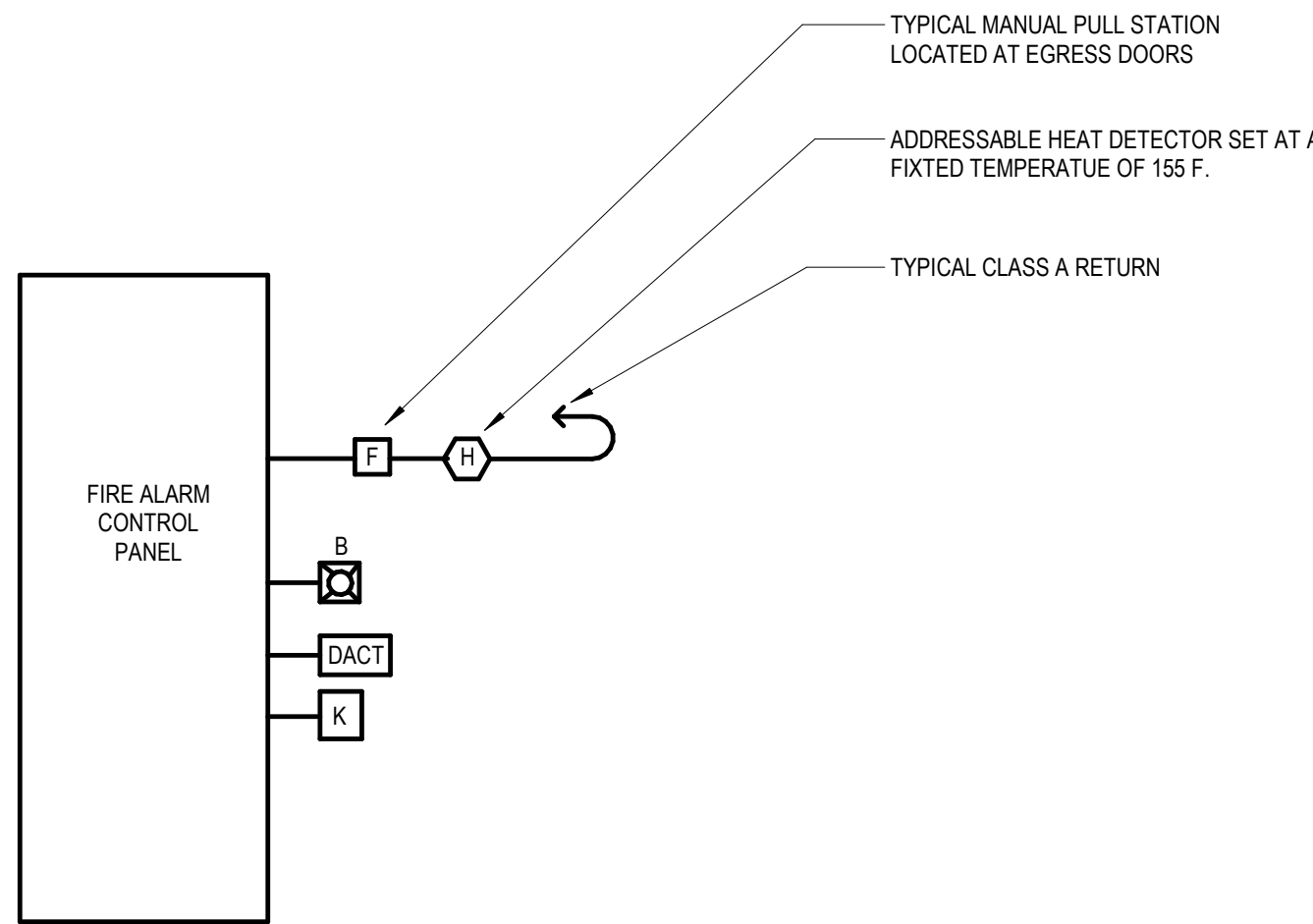
GENERAL FIRE ALARM NOTES:

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- TYPICALLY IONIZATION TYPE SMOKE DETECTORS SHALL BE PROVIDED AND WIRED FOR AHUS AND RTUS BACK TO FACP PER NFPA 90A. COORDINATE WITH MECH. CONTRACTOR ON DETECTOR INSTALLATION AND SHUTDOWN WIRING. USE PHOTOELECTRIC TYPE DETECTORS FOR MECHANICAL ROOM, ELECTRICAL ROOM, IDF ROOM, MDF ROOM, TEL/DATA ROOM.
- PROVIDE CONTROL MODULES FOR HWG CONTROL, WHU AND RTU SHUTDOWN VIA DUCT SMOKE DETECTORS WITH RELAY'S WIRED TO SLC PER NFPA 90A. COORDINATE WITH MECHANICAL CONTRACTOR ON LOCATIONS OF DUCT DETECTORS, ETC. DUCT DETECTORS SHALL BE SYSTEM TYPE COMPATIBLE WITH FACP AND FURNISHED AND WIRED BY EC.
- FIRE ALARM SYSTEM SHALL COMMUNICATE VIA COMMON GENERIC PROTOCOL WITH THE MECHANICAL BAS SYSTEM. AND DATA CENTER CFMS SYSTEM AS REQUIRED FOR SUPERVISORY, TROUBLE AND ALARM CONDITIONS. FIRE ALARM SYSTEM AND BAS SYSTEM SHALL BE MONITORED IN THE BUILDING ENGINEERS OFFICE. PROVIDE REQUIRED HARDWARE, SOFTWARE AND WIRING.
- PROVIDE, INSTALL AND WIRE SMOKE DAMPERS TO THE FIRE ALARM SYSTEM AS APPLICABLE. COORDINATE WITH MECHANICAL CONTRACTOR.
- DESIGN INTENT IS TO INSTALL A NEW NOTIFICATION APPLIANCES AND INITIATING DEVICES TO THE NEW NOTIFICATION APPLIANCE CIRCUIT (NAC) AND SIGNALING DEVICES CIRCUIT RESPECTIVELY SERVING THE RENOVATION AREA.
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- ISOLATION MODULES SHALL BE INSTALLED EACH 25 ADDRESSABLE DEVICES.
- PROVIDE MONITOR MODULES AND WIRING FOR SPRINKLER WATER FLOW SWITCHES, PRESSURE SWITCHES AND TAMPER SWITCHES FOR MAIN VALVES, PRESSURE, FLOW AND TAMPER SWITCHES TO BE PROVIDED AND INSTALLED BY THE FIRE PROTECTION MECHANICAL CONTRACTOR.
- FIRE ALARM SYSTEM DESIGN AND INSTALLATION SHALL MEET THE REQUIREMENTS OF ALL LOCAL CODES AND ORDINANCES AND OF THE LOCAL STONEHAM SAFETY DEPARTMENT.
- FIRE ALARM CONTROL PANEL SHALL BE DUAL LISTED FOR MASS NOTIFICATION.
- SEE DIVISION 28 SPECIFICATION FOR ADDITIONAL DETAILS OF FIRE ALARM SYSTEM.
- FIRE ALARM SYSTEM SHALL COMMUNICATE VIA COMMON GENERIC PROTOCOL WITH THE MECHANICAL BAS SYSTEM, AS REQUIRED. IN ADDITION, FIRE ALARM SYSTEM SHALL COMMUNICATE ON A CAMPUS-WIDE BASIS TO THE MAIN FIRE ALARM CONTROL PANEL.
- FIRE ALARM SYSTEM SHALL BE ARRANGED FOR ZONED EVACUATION. THERE WILL BE ONE ZONE FOR THE STADIUM BUILDING AND ONE ZONE FOR THE HIGH SCHOOL BUILDING. THUS, INITIATING DEVICES THAT ARE ACTUATED WITHIN THE HIGH SCHOOL BUILDING WILL ONLY NOTIFY OCCUPANTS WITHIN THE HIGH SCHOOL BUILDING AND VICE VERSA. THE CORRESPONDING FIRE ALARM SIGNALS WILL DISTINGUISH IF IT IS FROM THE STADIUM BUILDING OR FROM THE HIGH SCHOOL BUILDING.



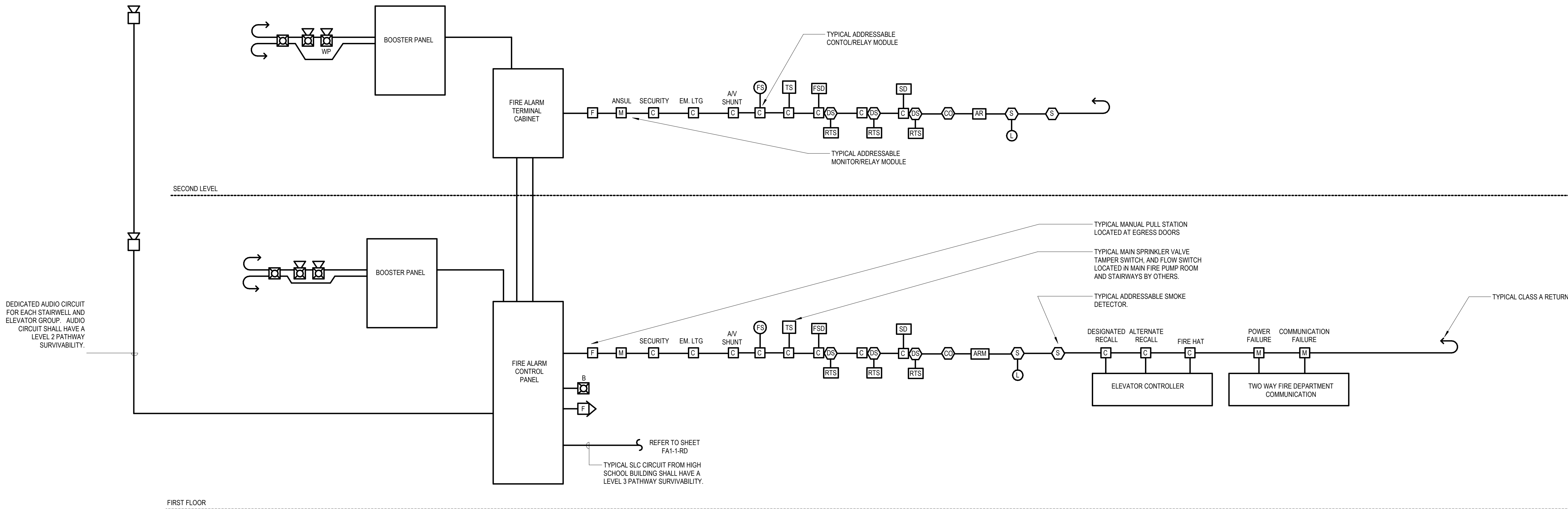
FIRST FLOOR

1 FIRE ALARM CONNESSION BUILDING RISER DIAGRAM
12" = 1'-0"



FIRST FLOOR

2 FIRE ALARM MAINTENANCE BUILDING RISER DIAGRAM
12" = 1'-0"



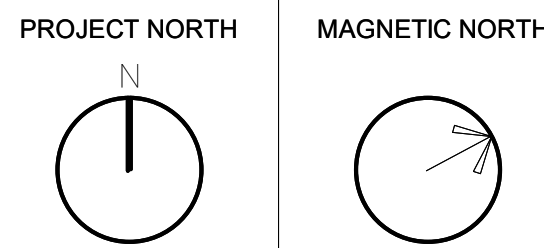
FIRST FLOOR

3 FIRE ALARM LOCKER BUILDING RISER DIAGRAM
12" = 1'-0"

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MSBA 90% CD
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Submittal
May 12th, 2023



FIRE ALARM
RISER
DIAGRAMS

Scale: 12" = 1'-0"
Job No.: 60-20-409
Drawn By: WAM
Date: May 12th, 2023
FA4-0-3