ļ	ABBREVIATIONS		
(E) (ED) (ER) (F)	EXISTING ITEM EXISTING ITEM TO BE DEMOLISHED EXISTING ITEM TO BE RELOCATED FUTURE	1.	THE EQUI CON
(N) (RL)	NEW EXISTING ITEM RELOCATED AMP, AMPERE AUDIO VISUAL	2.	THE GUID
•	AIR CONDITIONING AMP FRAME / AMP TRIP ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION	3.	THE ARRA ADJU
AIC AL ARF	AMPS INTERUPPTING CURRENT ALUMINUM ABOVE RAISED FLOOR	4.	PROY UNSA
ARF AS/ AFU ATS AWG	ARC FAULT AMP SWITCH / AMP FUSE AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE	5.	MAIN APPL PIPIN
BLDG C CAB CB	BUILDING CONDUIT CABINET CIRCUIT BREAKER	J.	THE FIX II "MEC EQUI COM
CKT CL CLF	CIRCUIT CENTER LINE CURRENT LIMITING FUSE	6.	THE SPEC
CLG CONTR CONV CT	CEILING CONTRACTOR CONVENIENCE CURRENT TRANSFORMER		SPEC TRAI SETS CM/G
CU D.O. DC DISC	COPPER DRAWOUT DOOR CONTACT DISCONNECT	7.	CON' COO
DIST DW DWG	DISTRIBUTION DISHWASHER DRAWING		FROI COO COO TO T
	ELECTRICAL CONTRACTOR EXHAUST FAN ELECTRICAL EMERGENCY	8.	CHAI CON
EMT ENCL EPO	ELECTRICAL METALLIC TUBING ENCLOSURE EMERGENCY POWER OFF	9.	THE CEIL
Equip Ewc Ewh Fa	EQUIPMENT ELECTRIC WATER COOLER ELECTRIC WATER HEATER FIRE ALARM	10	ADDI MUS' CON
FDR FIXT FL	FEEDER FIXTURE FLOOR		UPOI DISC PRIO
FP G, GND GEN GF	FIRE PROTECTION GROUND GENERATOR GROUND FAULT	12.	ALAF ALL S INDIC
GFI HOA HP	GROUND FAULT INTERRUPTOR HAND OFF AUTOMATIC SWITCH HORSE POWER	13.	THE PHYS PRO
HVAC HWH HZ	HEATING VENTILATION AND AIR CONDITIONING HOT WATER HEATER HERTZ	14.	EXIS RELO
IG JB KAIC KCMILS	ISOLATED GROUND JUNCTION BOX KILO AMPERE INTERRUPTING CURRENT THOUSAND CIRCULAR MILS		SIZE PENI
kVA kW _SIG	KILOVOLT AMPS KILOWATTS LONG, SHORT INSTANTANEOUS AND GROUND FAULT TRIP FUNCTION		OTHI PRO' REP/
_TG MAX MB	LIGHTING MAXIMUM MOTORIZED BACKBOARD		WHE
MC MCB MCC	METAL CLAD MOTORIZED CURTAIN MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER		CON'
MFG MH MI	MANUFACTURER MOUNTING HEIGHT MINERAL INSULATED	21.	CON' EQUI VERI
MLO MOD MPS MS	MAIN LUGS ONLY MOTORIZED OVERHEAD DOOR MOTORIZED PROJECTION SCREEN MOTORIZED SHADES	22.	BY A
MTD MW N	MOUNTED MICROWAVE NEUTRAL	23.	OF A
NC NIC NL NO	NORMALLY CLOSED NOT IN CONTRACT NIGHT LIGHT NORMALLY OPEN		CON'
No NTS OFE	NUMBER NOT TO SCALE OWNER FURNISHED EQUIPMENT	26.	-
P PB PC PH	POLES PULL BOX PLUMBING CONTRACTOR PHASE	27.	PRO IN TH GUA
PL PNL PPE	OUTLET DEVICE WITH PLATE ONLY PANEL PRE-PURCHASED EQUIPMENT	28.	BALA ENG DIRE COO
PRT PT PVC PWR	PRINTER POTENTIAL TRANSFORMER POLYVINYL CHLORIDE POWER		SPEC WITH REQU BALA
QUAD REC RECEPT REF	QUADRAPLEX RECESSED RECEPTACLE REFRIGERATOR		THAT HARI "INST AS A
RF RGS RM	RETURN FAN RIGID GALVANIZED STEEL ROOM		REUS
SB SEC SF SKRU	SCORE BOARD SECONDARY SUPPLY FAN SOLENOID KEY RELEASE UNIT		_
SPD SSCAF	SURGE PROTECTION DEVICE SHORT CIRCUIT COORDINATION ARC FLASH		
ST SW SWBD SWGR	SHUNT TRIP SWITCH SWITCH BOARD SWITCH GEAR		
TC	(TEL/COM) TELECOMMUNICATIONS TIME DELAY RELAY		

TPS

TYP

UCR

UF

UON UPS

VA

TELEPHONE

TYPICAL

TRANSFER FAN

TAMPER PROOF

UNDERCOUNTER

UNDERFLOOR

UNIT HEATER

VOLTS

WATTS

XFMR TRANSFORMER

VOLT AMPS

WEATHER PROOF

TWISTED PAIR SHIELDED

UNLESS OTHERWISE NOTED

UNDER COUNTER REFRIGERATOR

UNINTERRUPTIBLE POWER SUPPLY

A	ABBREVIATIONS	GENERAL NOTES
(E) (ED)	EXISTING ITEM EXISTING ITEM TO BE DEMOLISHED	THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL OUT OF THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL OUT OF THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL OUT OF THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL OUT OF THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL OUT OF THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL OUT OF THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL OUT OF THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL OUT OF THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL OUT OF THE WORK TO BE DONE UNDER THE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL OUT OF THE WORK TO BE DONE UNDER THE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL OUT OF THE WORK TO BE DONE UNDER THE WORK THE WORK TO BE DONE UNDER THE WORK THE WORK TO BE DONE UNDER THE WORK TO BE DONE UNDER THE WORK TO B
(ER) (F) (N)	EXISTING ITEM TO BE RELOCATED FUTURE NEW	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.
(RL) A A/V, AV	EXISTING ITEM RELOCATED AMP, AMPERE AUDIO VISUAL	2. THE WORK SHALL CONFORM TO THE MORE STRINGENT OF ALL APPLICABLE CODES & REGULATIONS, UL GUIDELINES, MANUFACTURER'S LITERATURE AND RECOMMENDATIONS, AND TO THE REQUIREMENTS OF FEDERA
.C .F/ AT	AIR CONDITIONING AMP FRAME / AMP TRIP	STATE AND LOCAL REGULATORY AGENCIES AND AUTHORITIES HAVING JURISDICTION. 3. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE EXTENT, GENERAL CHARACTER, LOCATION A
F IJ C	ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION AMPS INTERUPPTING CURRENT	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.
F	ALUMINUM ABOVE RAISED FLOOR ARC FAULT	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,
AFU G	AMP SWITCH / AMP FUSE AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE	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
)G 3	BUILDING CONDUIT CABINET	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 AND OPERABLE INSTALLATION.
Т	CIRCUIT BREAKER CIRCUIT	COMPLETE AND OPERABLE INSTALLATION. 6. THE CM/GC SHALL MAKE SETS OF THE BID DOCUMENTS CONSISTING OF COMPLETE SETS OF DRAWINGS AND
F	CENTER LINE CURRENT LIMITING FUSE	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
G NTR NV	CEILING CONTRACTOR CONVENIENCE	SPECIFICATIONS. THERE ARE NOTES AND CROSS REFERENCES FOR VARIOUS TRADE CONTRACTORS IN MULTIPITED TRADE OR DISCIPLINE DRAWINGS AND SPECIFICATIONS, THUS, EACH CONTRACTOR IS TO RECEIVE COMPLETE SETS OF THE BID DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE DRAWINGS FROM CM/GC. EACH CONTRACTOR IS RESPONSIBLE FOR THEIR WORK, AS NOTED ON THE OTHER DISCIPLINE
	CURRENT TRANSFORMER COPPER DRAWOUT	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 FINALIZ
C	DOOR CONTACT DISCONNECT	COORDINATED LAYOUT OF ALL EQUIPMENT, SYSTEMS, DUCTWORK, PIPING AND ALL OTHER ITEMS WITHIN THEIR RESPECTIVE SCOPE. THE CONTRACTOR'S COORDINATION EFFORT SHALL INCLUDE COORDINATED INFORMATION
T	DISTRIBUTION DISHWASHER	FROM ALL OTHER TRADE CONTRACTOR'S INVOLVED IN THE PROJECT SCOPE IN ORDER TO PROVIDE COORDINATION BETWEEN TRADES AND ALL EXISTING CONDITIONS. ALL ERRORS MADE AS A RESULT OF A LACK COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND CORRECTED AT NO ADDITIONAL COST
/G	DRAWING ELECTRICAL CONTRACTOR EXHAUST FAN	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.
C EMERG	ELECTRICAL EMERGENCY	8. CONTRACTOR SHALL ARRANGE AND OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS, AND PAY ALL RELATE FEES.
T CL O	ELECTRICAL METALLIC TUBING ENCLOSURE EMERGENCY POWER OFF	9. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS BASED UPON INFORMATION OBTAINED WITHOUT REMOVING CEILING TILES OR WALLS. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS T
UIP /C	EQUIPMENT ELECTRIC WATER COOLER	ADDRESS CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS. ANY CHANGES AND/OR MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO
4	ELECTRIC WATER HEATER FIRE ALARM	CONSTRUCTION. 10. FOR ANY DISCREPANCY BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BASE THEIR B
R T	FEEDER FIXTURE	UPON THE MOST STRINGENT REQUIREMENT (QUALITY, QUANTITY, SIZE, ETC.). THE CONTRACTOR SHALL IDENTIF DISCREPANCIES AS PART OF THEIR BID.
ONID.	FLOOR FIRE PROTECTION	11. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL LOG ALL EXISTING EQUIPMENT AND TRACE ELECTRICAL, FIRE ALARM, AND CONTROL CIRCUITS THAT SERVE SUCH EQUIPMENT.
SND N	GROUND GENERATOR GROUND FAULT	12. ALL SERVICES TO EXISTING BUILDINGS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUT DOWNS AND TIMING WITH OWNER.
A	GROUND FAULT INTERRUPTOR HAND OFF AUTOMATIC SWITCH	13. THE CONTRACTOR SHALL EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION.
.C	HORSE POWER HEATING VENTILATION AND AIR CONDITIONING	PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE ITEMS DAMAGED. 14. EXISTING EQUIPMENT THAT INTERFERES WITH NEW ARRANGEMENT SHALL BE REMOVED, REINSTALLED,
	HOT WATER HEATER HERTZ ISOLATED GROUND	RELOCATED, REROUTED, EXTENDED OR ABANDONED AS REQUIRED, TO SUIT THE NEW ARRANGEMENT. 15. 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
S	JUNCTION BOX KILO AMPERE INTERRUPTING CURRENT THOUSAND CIRCULAR MILS	PENETRATIONS AND SHEAR WALL PENETRATIONS. 16. CONTRACTOR SHALL COORDINATE LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS WITH STRUCTURAL AN
,	KILOVOLT AMPS KILOWATTS	OTHER TRADES.
	LONG, SHORT INSTANTANEOUS AND GROUND FAULT TRIP FUNCTION	17. PROVIDE CUTTING AND PATCHING AS REQUIRED AND WHERE NECESSARY TO ACCOMMODATE NEW WORK AND T REPAIR OF EXISTING WORK.
	LIGHTING MAXIMUM MOTORIZED BACKBOARD	18. WHEN WORK INVOLVES CONTACT WITH MATERIALS CONTAINING ASBESTOS, PCB, OR OTHER TOXIC MATERIALS, NOTIFY OWNER, WHO WILL ESTABLISH PROCEDURES FOR REMEDIATION AND REMOVAL.
	METAL CLAD MOTORIZED CURTAIN	19. CONTRACTOR SHALL SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO DELAY THE OVERALL PROGRESS OF THE PROJECT.
3	MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER	20. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS.
i	MANUFACTURER MOUNTING HEIGHT	21. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER SPECIFICATIONS PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INDICATED ON CONTRACT DOCUMENTS. PRIOR TO SUBMITTAL, CONTRACTOR SHALL
)	MINERAL INSULATED MAIN LUGS ONLY MOTORIZED OVERHEAD DOOR	VERIFY THAT ADEQUATE SPACE EXISTS FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED BY ARCHITECT/ENGINEER.
)	MOTORIZED PROJECTION SCREEN MOTORIZED SHADES MOUNTED	22. 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 COS OF ADDITIONAL ELECTRICAL SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR.
	MICROWAVE NEUTRAL	23. 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
	NORMALLY CLOSED NOT IN CONTRACT NIGHT LIGHT	24. CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF EACH DAY.
	NORMALLY OPEN NUMBER	25. 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.
} <u>=</u>	NOT TO SCALE OWNER FURNISHED EQUIPMENT	26. PRIOR TO EQUIPMENT STARTUP, CONTRACTOR SHALL PERFORM THE SPECIFIED STARTUP AND COMMISSIONING
	POLES PULL BOX	PROCEDURES. 27. IN THE ABSENCE OF OTHER SPECIFIC INSTRUCTIONS, ALL WORK AND MATERIALS SUPPLIED SHALL BE
	PLUMBING CONTRACTOR PHASE OUTLET DEVICE WITH PLATE ONLY	GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER. 28. BALA CONSULTING ENGINEERS, INC. (BALA) WILL PROVIDE CONTRACTOR WITH ELECTRONIC CADD FILES OF THE
	PANEL PRE-PURCHASED EQUIPMENT	ENGINEERING DESIGNS FOR THE SOLE USE IN EXPEDITING SHOP DRAWINGS. BALA'S FILES SHALL NOT BE DIRECTLY COPIED AND ISSUED AS SHOP DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD
- 「	PRINTER POTENTIAL TRANSFORMER	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
C R	POLYVINYL CHLORIDE POWER	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
JAD :C	QUADRAPLEX RECESSED	THAT. BALA MAKES NO REPRESENTATION AS TO THE COMPATIBILITY OF THESE FILES WITH THE CONTRACTOR'S HARDWARE OR THEIR SOFTWARE. DATA CONTAINED ON THESE ELECTRONIC FILES ARE PART OF BALA'S
CEPT F	RECEPTACLE REFRIGERATOR	"INSTRUMENTS OF SERVICE" AND ARE COPYRIGHTED. CONTRACTOR'S 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.
SS	RETURN FAN RIGID GALVANIZED STEEL	
Л В	ROOM SCORE BOARD	
С	SECONDARY SUPPLY FAN	
RU D	SOLENOID KEY RELEASE UNIT SURGE PROTECTION DEVICE	
SCAF	SHORT CIRCUIT COORDINATION ARC FLASH	

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.
THE WORK SHALL CONFORM TO THE MODE STRINGENT OF ALL ADDITIONES & DECLIFATIONS LIE

AND DUCTWORK DO NOT BLOCK ACCESS TO EQUIPMENT AND RELATED ACCESSORIES. M "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO DSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM NICAL WORK", "ELECTRICAL WORK", "PLUMBING WORK", ETC. SHALL MEAN ALL LABOR, MATERIAL, ENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR TE AND OPERABLE INSTALLATION.

ECUTTING AND PATCHING AS REQUIRED AND WHERE NECESSARY TO ACCOMMODATE NEW WORK AND THE OF EXISTING WORK.

FIRE ALARM GENERAL NOTES

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 AC UNITS AND OTHER RELATED FIRE ALARM DEVICES AS

PROVIDE FIRE ALARM SYSTEM COVERAGE FOR THE THE NEW TENANT AREA. THE SYSTEM SHALL BE COMPLETELY WIRED, CONNECTED, TESTED AND VERIFIED TO BE IN GOOD OPERATING

THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING FIRE ALARM SYSTEM CONDITION PRIOR TO

EXISTING BASE BUILDING FIRE ALARM SYSTEM. THE CONTRACTOR SHALL PAY ALL CHARGES FOR THE CONNECTION TO, MODIFICATIONS TO THE EXISTING SYSTEM

COORDINATE WITH THE BUILDING'S FIRE ALARM VENDOR FOR CONNECTION OF NEW FIRE ALARM DEVICES TO THE

AND REPROGRAMMING OF THE EXISTING BASE BUILDING FIRE ALARM SYSTEM. FIRE ALARM VENDORS FEE SHALL BE INCLUDED IN THE BID. ALL EQUIPMENT SHALL BE UL LISTED.

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. UPON COMPLETION OF ALL FIRE ALARM WORK AND ASSOCIATED TESTS, THE CONTRACTOR SHALL FILE AN

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, AMERICANS DISABILITY

APPLICATION WITH THE FIRE DEPARTMENT FOR A CERTIFICATE OF APPROVAL OF THE SYSTEM. . SUBMIT CERTIFICATE OF APPROVAL TO THE BUILDING ENGINEER OR OWNERS REPRESENTATIVE BEFORE REQUESTING FINAL PAYMENT AND ACCEPTANCE OF WORK.

. ALL ITEMS AND EQUIPMENT SHALL BE COMPATIBLE WITH THE EXISTING BASE BUILDING FIRE ALARM SYSTEM. CONTRACTOR SHALL COORDINATE WITH BUILDINGS FIRE ALARM VENDOR FOR EXACT EQUIPMENT SPECIFICATION. FIRE ALARM SPEAKER, WHETHER IN COMBINATION WITH A STROBE LIGHT UNIT OR AS A STAND ALONE DEVICE SHALL BE COMPATIBLE WITH THE EXISTING BASE BUILDING FIRE ALARM SYSTEM AND SHALL BE UL/FM LISTED. COLORS AND FINISHES SHALL BE COORDINATED WITH ARCHITECT.

. 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%), 75 CANDELA MINIMUM, FLASH RATE MINIMUM OF 1 HZ/MAXIMUM 3 HZ AND WITH ADA AND SHALL BE UL/FM LISTED. UNIT SHALL BE MANUFACTURED BY FARADAY, WHEELOCK OR APPROVED

4. AREA AND SMOKE DETECTORS SHALL BE BUILDING STANDARD.

15. CONTROL MODULES SHALL BE BUILDING STANDARD. PROVIDE #14 AWG WIRING (MINIMUM) FOR ALL DEVICES, U.O.N. BY BUILDING'S 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

UL1424; MUST BEAR ADDITIONAL DESCRIPTION "ALSO CLASSIFIED CERT. FIRE. WIRING SHALL BE INSTALLED IN HEAVY WALL THREADED RIGID GALVANIZED CONDUIT IN VERTICAL RISERS AND

AREA WHERE SUBJECT TO MECHANICAL DAMAGE. 18. ALL WIRING IN EXPOSED CEILING SHALL BE IN HEAVY WALL THREADED RIGID GALVANIZED STEEL CONDUIT.

19. ALL WIRING IN MECHANICAL ROOM AND ELEVATOR ROOM SHALL BE IN HEAVY WALL THREADED RIGID GALVANIZED STEEL CONDUIT.

. WIRING MAY BE RUN EXPOSED IN HUNG CEILINGS, PROVIDED IT IS UL LISTED AND APPROVED POWER LIMITED/PROTECTIVE SIGNALING CABLE FPL OR EQUAL (TEFLON COATED/PLENUM RATED)

11. ALL LOW VOLTAGE WIRING SHALL COMPLY WITH NFPA 72 AND LOCAL AND STATE BUILDING CODES. . THE FIRE ALARM DEVICES SHALL BE INSTALLED IN A WORKMANLIKE MANNER, IN ACCORDANCE WITH APPROVED

MANUFACTURER'S WIRING DIAGRAM. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT WIRING, WIRING, OUTLET BOXES, JUNCTION BOXES AND SIMILAR DEVICES NECESSARY FOR THE COMPLETE FIRE ALARM INSTALLATION.

. 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

a. HARDWARE MODIFICATIONS TO THE FIRE COMMAND STATION PANEL.

b. MODIFICATIONS/REPROGRAMMING OF FIRE ALARM SYSTEM SOFTWARE INCORPORATE NEW PANELS OR DEVICES TO EXISTING DATA GATHERING PANELS.

d. ADDITIONAL POWER FROM NEW FUSE CUT-OUTS TO SERVE ADDITIONAL SYSTEM OR SUB-SYSTEM.

. ALL RELOCATED AND NEW EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL AND INTERNATIONAL BUILDING CODES AND THE REQUIREMENTS AS SET FORTH BY THE NEW AMERICANS WITH DISABILITIES ACT (ADA) WHICH INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING;

25. STROBE LIGHTS SHALL BE INSTALLED 80" ABOVE FINISHED FLOOR, OR 6" INCHES BELOW THE CEILING, WHICHEVER

I. AUDIBLE DEVICES TAPPED AT WATTAGE SETTING WHICH ALLOW FOR SOUND PRESSURE LEVELS OF THE UNIT TO EXCEED THE LEVEL IN THE ROOM BY 15 dBA, WHICHEVER IS HIGHER BUT NOT TO EXCEED 120 dBA.

. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTING ALL EXISTING BASE BUILDING LIFE SAFETY DEVICES WHICH HAVE BEEN RELOCATED OR TEMPORARILY REMOVED DURING CONSTRUCTION. COORDINATE CHANGES LOCATION WITH ARCHITECT AND LEAVE IN OPERATIONAL STATE IN ACCORDANCE WITH ALL GOVERNING CODES. INCLUDING THE NEW ADA. PROVIDE NEW WIRING AS REQUIRED BY FA VENDOR.

THE CONTRACTOR SHALL SURVEY ALL THE SPACES PRIOR TO SUBMISSION OF BID AND INCLUDE IN HIS PROPOSAL THE REPLACEMENT OF ALL LIFE SAFETY DEVICES WHICH WERE INTENDED TO BE REUSED AND HAVE BEEN DESTROYED OR LOST DURING DEMOLITION.

. THE CONTRACTOR SHALL SEPARATELY ZONE LIFE SAFETY DEVICES SHOWN ON RISER DIAGRAM AND CONNECT TO THE EXISTING BASE BUILDING FIRE ALARM SYSTEM.

). 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.

30. TWO OR MORE VISIBLE APPLIANCE IN THE SAME FIELD OF VIEW SHALL BE SYNCHRONIZED.

I. ALL CABLE AND CONDUIT PENETRATIONS THRU FIRE RATED WALLS AND FLOORS SHALL BE FIRESTOPPED IN ACCORDANCE WITH LOCAL AND STATE BUILDING CODE.

2. 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. . SPLICES IN VERTICAL RISERS ARE PROHIBITED EXCEPT WHEN THE LENGTH OF CONDUCTORS EXCEEDS 150 FT, IN WHICH CASE AN APPROVED TERMINAL CABINET MAY BE USED, SPLICES IN HORIZONTAL RUNS SHALL BE AVOIDED, IF NECESSARY, THEY SHALL BE MADE IN APPROVED JUNCTION BOXES. SPLICES SHALL BE MADE WITH UL LISTED MECHANICAL CONNECTOR OR SOLDERED AND TAPED.

I. 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

5. A TRAINED MANUFACTURER'S 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.

36. 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.

37. PERFORM ANY ADDITIONAL TESTS REQUESTED BY THE FIRE DEPARTMENT

FIRE ALARM SCOPE GAP NOTES.

SMOKE DETECTORS SHALL BE PROVIDED WITHI EACH OF THE ELECTRICAL ROOM LOCATED ON THE MEZZANINE LEVEL IN ACCORDANCE WITH NFPA 72. AN EQUAL AMOUNT OF REMOTE INDICATORS SHALL BE PROVIDED FOR THE NUMBER OF SMOKE DETECTORS DETECTORS REQUIRED TO PROTECT THE ELECTRICAL ROOMS. TO DATE BALA HAS NOT COORDINATED WITH THE ARCHITECT ABOUT THE LOCATION OF DOOR HOLD DEVICES AND/OR FIRE SHUTTERS. THIS WILL IMPACT THE NUMBER OF SMOKE DETECTORS AND CONTROL MODULES REQUIRED TO

INITIATE SPECIFIC ADDRESSABLE INTERFACES. THE QUANTITY OF FIRE/SMOKE DAMPERS, DUCT SMOKE DETECTORS AND REMOTE TEST STATIONS HAS NOT BEEN

COORDIANTED YET. A FIRE/SMOKE DAMPER WILL BE PROVIDED AT EACH DUCT PENETRATION, A DUCT SMOKE DETECTOR WILL BE PROVIDED AT EACH AHU AND EACH FIRE/SMOKE DAMPER.

THE QUANTITY OF CONTROL MODULES TO SHUNT SOUNDING EQUIPMENT HAS NOT BEEN COORDINATE WITH THE THERATER CONSULTANT AND OTHER A/V RELATED CONSULTANTS.

THERE NEEDS TO BE A MEETING BETWEEN THE PROJECT TEAM AND THE LOCAL FIRE DEPARTMENT TO DETERMINE IF THE ADDRESSABLE FIRE ALARM SYSTEM SERVING THE HIGH SCHOOL BUILDING WILL NEED TO BE EXTENTED TO SERVE THE MAINTAINENCE BUILDING, CONCESSION BUILDING, AND LOCKER ROOM BUILDING. THIS WILL IMPACT THE NEED TO PROVIDE A 2-HR RATED DUCT BANK TO HOUSE THE CONDUITS THAT WILL BE REQUIRED.

MOUNTING HEIGHTS - FIRE ALARM EQUIPMENT							
9" BELOW FINISH CEILING	WALL MOUNTED BELLS AND FIRE ALARM SOUNDING DEVICE OR AS SHOWN ON ARCHITECTURAL DETAILS) TV MONITOR OUTLET AND SERVICE RECEPTACLE FOR SHELF MOUNTED TV						
TERED ABOVE DOOR WINDOW OPENING	WARNING AND SIGNALING FIXTURES / SIGNS						
6'-8"	FIRE ALARM STROBES OR COMBINATION DEVICES WITH STROBES SHALL BE MOUNTED SO THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISH FLOOR. IF CEILING DOES NOT PERMIT A MOUNTING HEIGHT OF AT LEAST 80" ABOVE FINISH FLOOR, THE LENS OF THE DEVICE SHALL BE 6" OFF THE FINISHED CEILING.						

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

MOUNTING HEIGHT NOTES

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 AHU, ADA REQUIREMENTS AND OTHER TRADES.

FIRE ALARM SYSTEM

FACP	FIRE ALARM CONTROL PANEL.
FAA	REMOTE ANNUNCIATOR
FS	MANUAL PULL STATION - CENTERLINE 4'-0" A.F.F.
RTS	REMOTE TEST STATION FOR DUCT SMOKE DETECTOR.
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
BP	BOOSTER PANEL
AR	TWO-WAY FIRE DEPARTMENT COMMUNICATION STATION
ADM	THE WAY FIRE REPARTMENT COMMUNICATION MACTER STATE

TWO-WAY FIRE DEPARTMENT COMMUNICATION MASTER STATION MAGNETIC DOOR HOLDER REMOTE FIRE ALARM DRILL SWITCH - CENTER LINE 4'-0" A.F.F.

FATC FIRE ALARM TERMINAL CABINET

BI-DIRECTIONAL AMPLIFLIER 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.

RADIO BOX

KNOX BOX

REMOTE INDICATING LIGHT(LED) 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 190° FARENHEIT SMOKE DETECTOR

BEAM SMOKE DETECTOR (EMITTER) BEAM SMOKE DETECTOR (RECEIVER) FLOW SWITCH

PRESSURE SWITCH FIRE AND SMOKE DAMPER, PROVIDE CONTROL MODULE FOR INTERFACE TO FIRE ALARM SD SMOKE DAMPER

FIRE ALARM RELAY CONTROL FIRE ALARM RELAY MONITOR TAMPER SWITCH FIREFIGHTERS PHONE

PHONE JACK FOR FIREFIGHTERS PORTABLE PHONE

	RE ALARM FILING NO	
	ORK INDICATED ON THE APPLICATION SF IPON, OR TO BE CONSIDERED AS EITHER S.	
AUDIBLE NO	TIFICATION DESIGN	CRITERIA
E 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	85 dBA	100 dBA
PLACES OF ASSEMBLY	55 dBA	70 dBA
	50 dBA	65 dBA
INSTITUTIONAL	OU UDA	00 027

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	REVISION LEGEND	REMO	VFD FF	ROM DE	RAWING	SFT				D, NOT RE	
	DD AVAUND LIOT FIE								1.00022	3,1101112	7.025
	DRAWING LIST - FIF	KE A	LAH	XIVI							
			SET	_							
DRAWING NUMBER	DRAWING TITLE	05-18-2021 SCHEMATIC DESIGN	06-23-2022 DESIGN DEVELOPMENT COST ESTIMATE S	08-05-22 MSBA DESIGN DEVELOPMENT SUBMISSION	11-17-2022 60% CD COST ESTIMATE SET	01-13-2023 - MSBA 60% CD SUBMISSION					
510.4						_					
FA0-1	FIRE ALARM LEGENDS, ABBREVIATIONS, AND GENERAL NOTES		0	•	•	•					
FA1-1-0C	FIRE ALARM LOWER LEVEL FLOOR PLAN - AREA C		O	•	•	•					
FA1-1-0D	FIRE ALARM LOWER LEVEL FLOOR PLAN - AREA D		O	•	•	•					
FA1-1-MC	FIRE ALARM LOWER LEVEL MEZZANINE PLAN - AREA C		O	•	•	•					
FA1-1-1A	FIRE ALARM FIRST FLOOR PLAN - AREA A		O 0	•	•	•					
FA1-1-1B	FIRE ALARM FIRST FLOOR PLAN - AREA B FIRE ALARM FIRST FLOOR PLAN - AREA C		0	•	•	•					
FA1-1-1C FA1-1-1D	FIRE ALARM FIRST FLOOR PLAN - AREA D			•							
FA1-1-1MA	FIRE ALARM FIRST FLOOR MEZZANINE PLAN - AREA A		O			•					
FA1-1-1WA	FIRE ALARM SECOND FLOOR PLAN - AREA A		0		•	•					
FA1-1-2B	FIRE ALARM SECOND FLOOR PLAN - AREA B		10		•	•					
FA1-1-2C	FIRE ALARM SECOND FLOOR PLAN - AREA C		10	•	•	•					
FA1-1-2D	FIRE ALARM SECOND FLOOR PLAN - AREA D		10	•	•	•					
FA1-1-3A	FIRE ALARM THIRD FLOOR PLAN - AREA A		10		•						
FA1-1-3B	FIRE ALARM THIRD FLOOR PLAN - AREA B		0		•	•					
FA1-1-3C	FIRE ALARM THIRD FLOOR PLAN - AREA C		0	•	•	•					
FA1-1-3D	FIRE ALARM THIRD FLOOR PLAN - AREA D		0	•	•	•					
FA1-1-4A	FIRE ALARM FOURTH FLOOR PLAN - AREA A		0	•	•	•					
FA1-1-4B	FIRE ALARM FOURTH FLOOR PLAN - AREA B		0	•	•	•					
FA1-1-4C	FIRE ALARM FOURTH FLOOR PLAN - AREA C		0	•	•	•					
FA1-1-4D	FIRE ALARM FOURTH FLOOR PLAN - AREA D		0	•	•	•					
FA1-2-1A	FIRE ALARM ROOF PLAN - AREA A		0	•	•	•					
FA1-2-1B	FIRE ALARM ROOF PLAN - AREA B		C	•	•	•					
FA1-2-1C	FIRE ALARM ROOF PLAN - AREA C		C	•	•	•					
FA1-2-1D	FIRE ALARM ROOF PLAN - AREA D		C	•	•	•					
FA1-1-CB	FIRE ALARM CONCESSION BUILDING PLAN		C	•	•	•					
FA1-1-LB	FIRE ALARM LOCKER BUILDING PLAN		C	•	•	•					
FA1-1-MB	FIRE ALARM MAINTENANANCE BUILDING PLAN		C	•	•	•					
FA4-0	FIRE ALARM HIGH SCHOOL BUILDING RISER DIAGRAM		C	•	•	•					
FA4-1	FIRE ALARM RISER DIAGRAMS		C	•	•	•					

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January 13, 2023

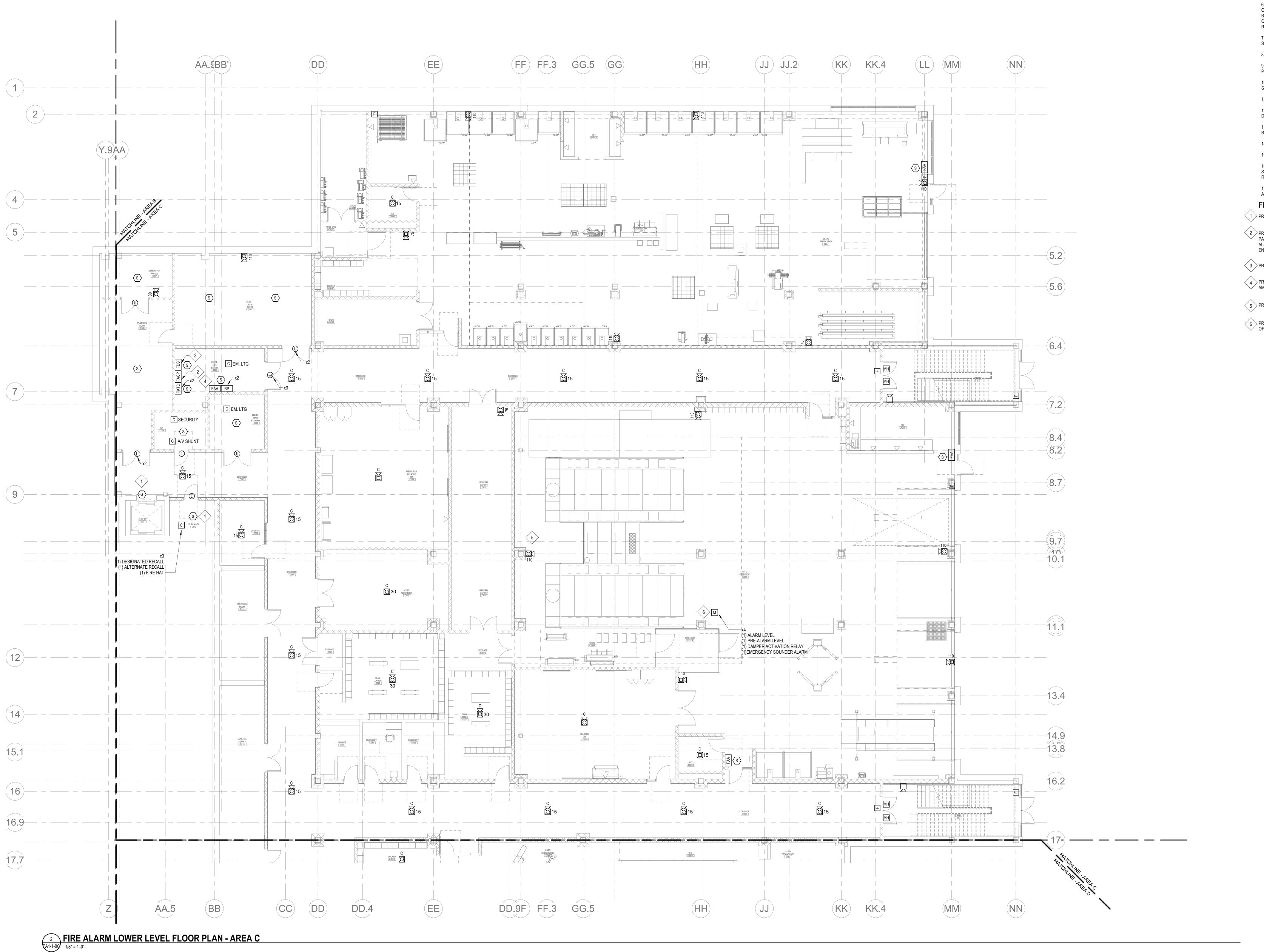
PROJECT NORTH

MAGNETIC NORTH

FIRE ALARM

Drawn By:

Date: January 13, 2023



OTHERWISE NOTED.

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.

 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

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.

PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADDED DEVICES.
 PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.
 PROVIDE NEW AV DEVICES WITH INTEGRAL SYNCHRONIZATION CAPABILITIES AND/OR PROVIDE SYNCHRONIZATION MODULES FOR SYNCHRONIZATION OF ALL VISUAL DEVICES.
 THE SCOPE OF THIS PROJECT SHALL IN NO WAY IMPACT THE DAILY OPERATION OR THE SEQUENCE OF OPERATION OF THE EXISTING FIRE ALARM SYSTEM.
 PROVIDE ALL PROGRAMMING/RE-PROGRAMMING PER REVISED SPACE DESIGNATIONS.
 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.
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 SMOKE DETECTION TO INITIATE ELEVATOR RECALL

2 PROVIDE A NEW ANALOG ADDRESSABLE 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 ACTUATE 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.



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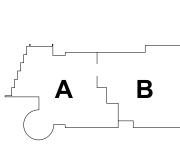
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January 13, 2023

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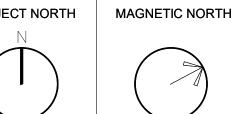
SUBMISSION





NORTH





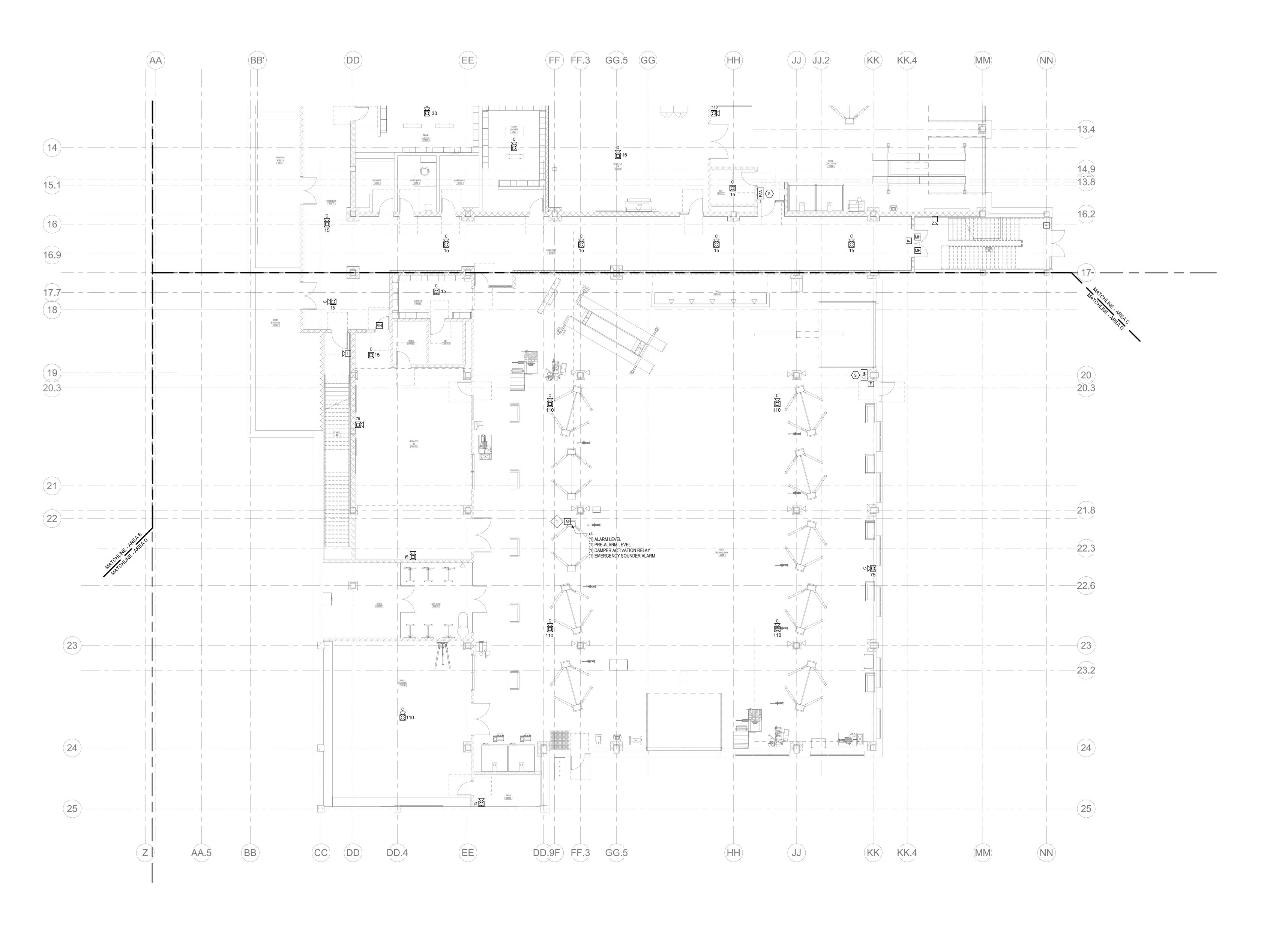
FIRE ALARM LOWER LEVEL FLOOR PLAN -AREA C

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: DRA

FA1-1-0C



FIRE ALARM LOWER LEVEL FLOOR PLAN - AREA D

1/8" = 1'-0"

GENERAL FIRE ALARM NOTES:

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.

 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.

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.

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 A/V 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 MONITOR RELAY MODULES TO MONITOR THE INPUTS OF THE VENTILATION CONTROL PANEL.



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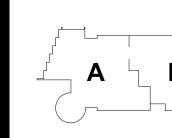
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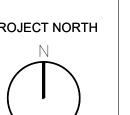




KEY PLAN

KEY PLAN

NORTH MAGNETIC NORTH





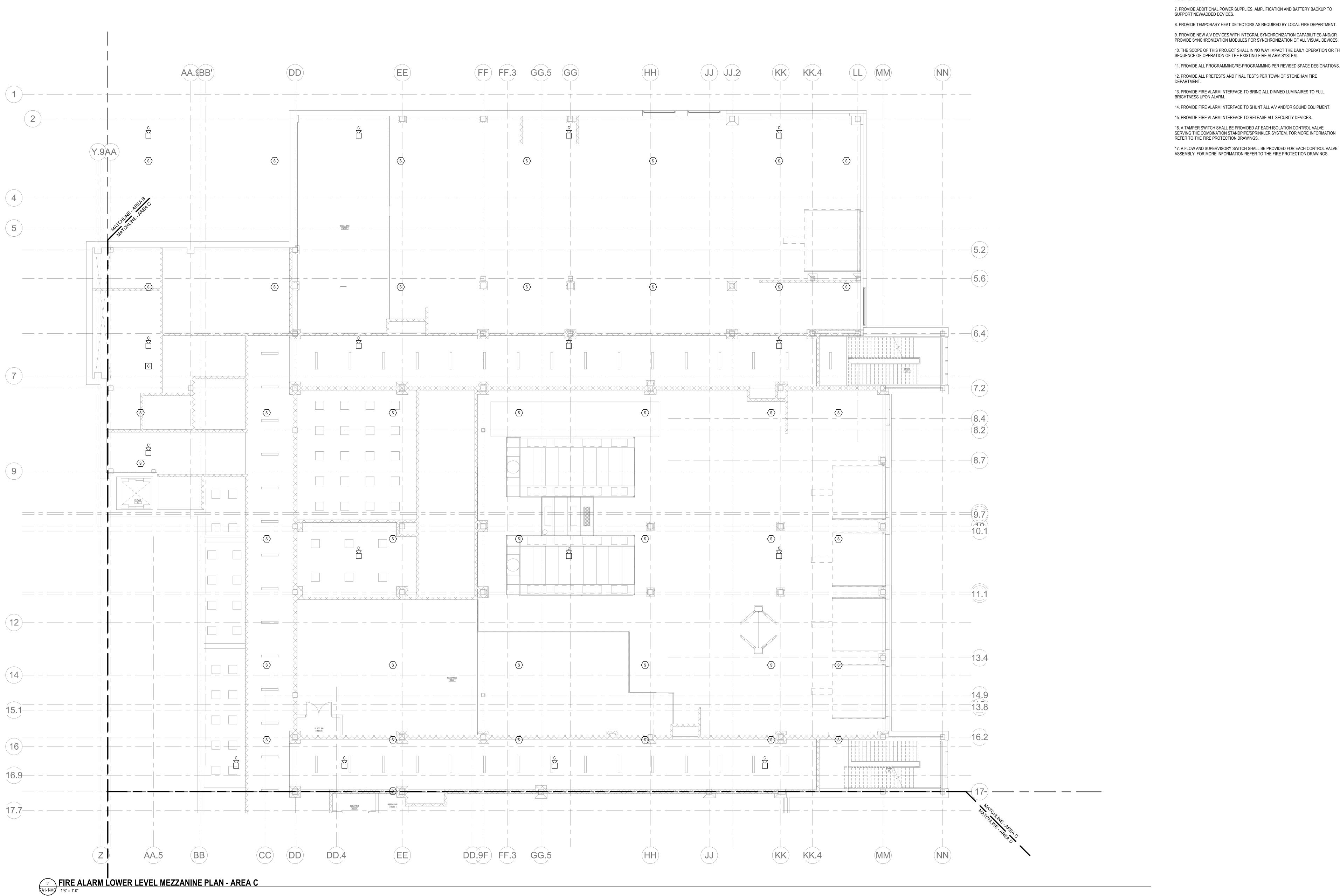
LOWER LEVEL FLOOR PLAN -AREA D

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: DRA

FA1-1-0D



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. 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

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

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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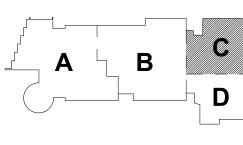
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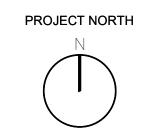
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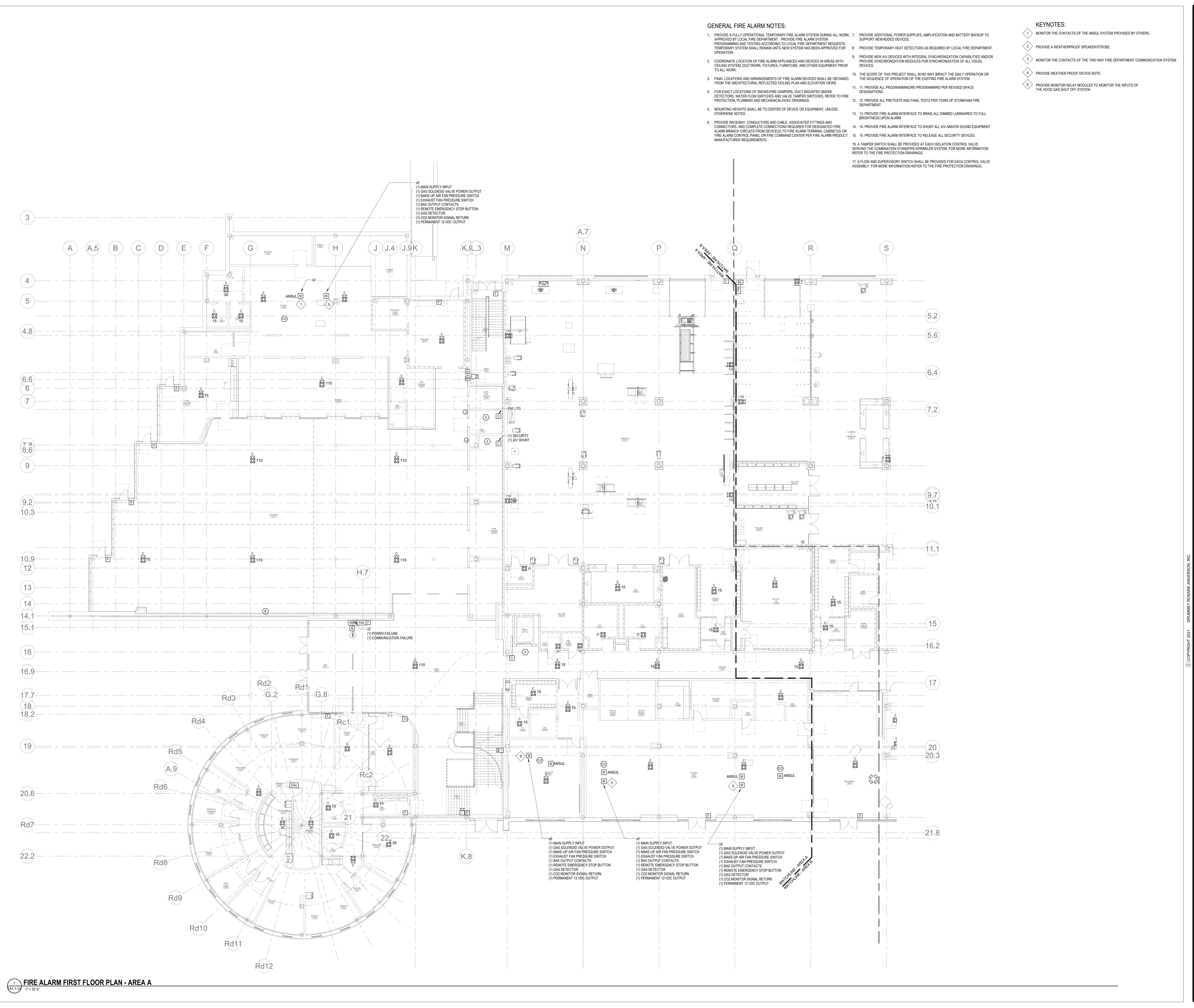
KEY PLAN MAGNETIC NORTH



FIRE ALARM

LOWER LEVEL MEZZANINE PLAN - AREA C

FA1-1-MC



Studio 300

Waltham, MA

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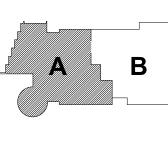
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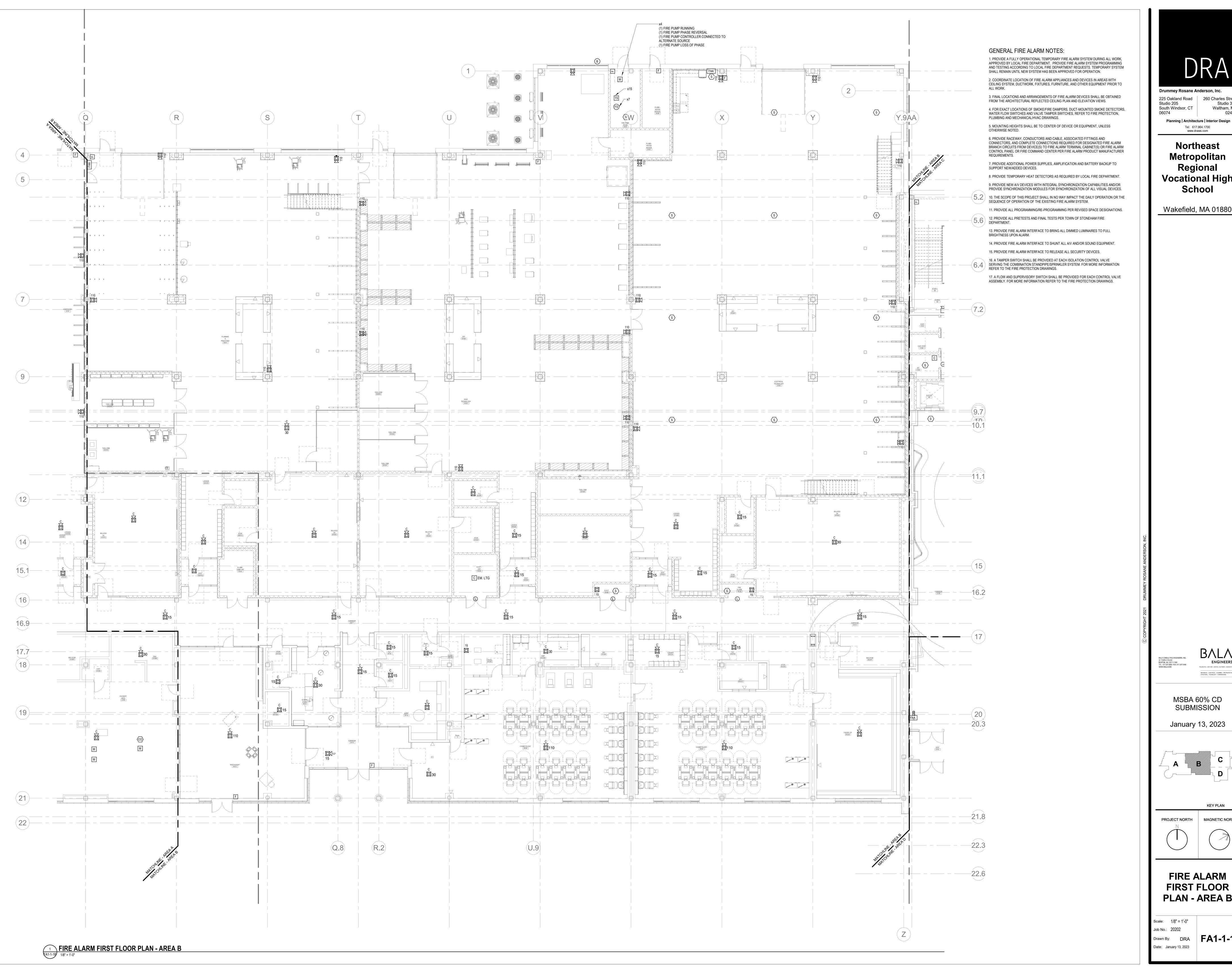
KEY PLAN

MAGNETIC NORTH



FIRE ALARM

FIRST FLOOR PLAN - AREA A





Studio 300

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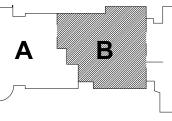
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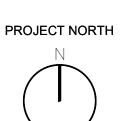
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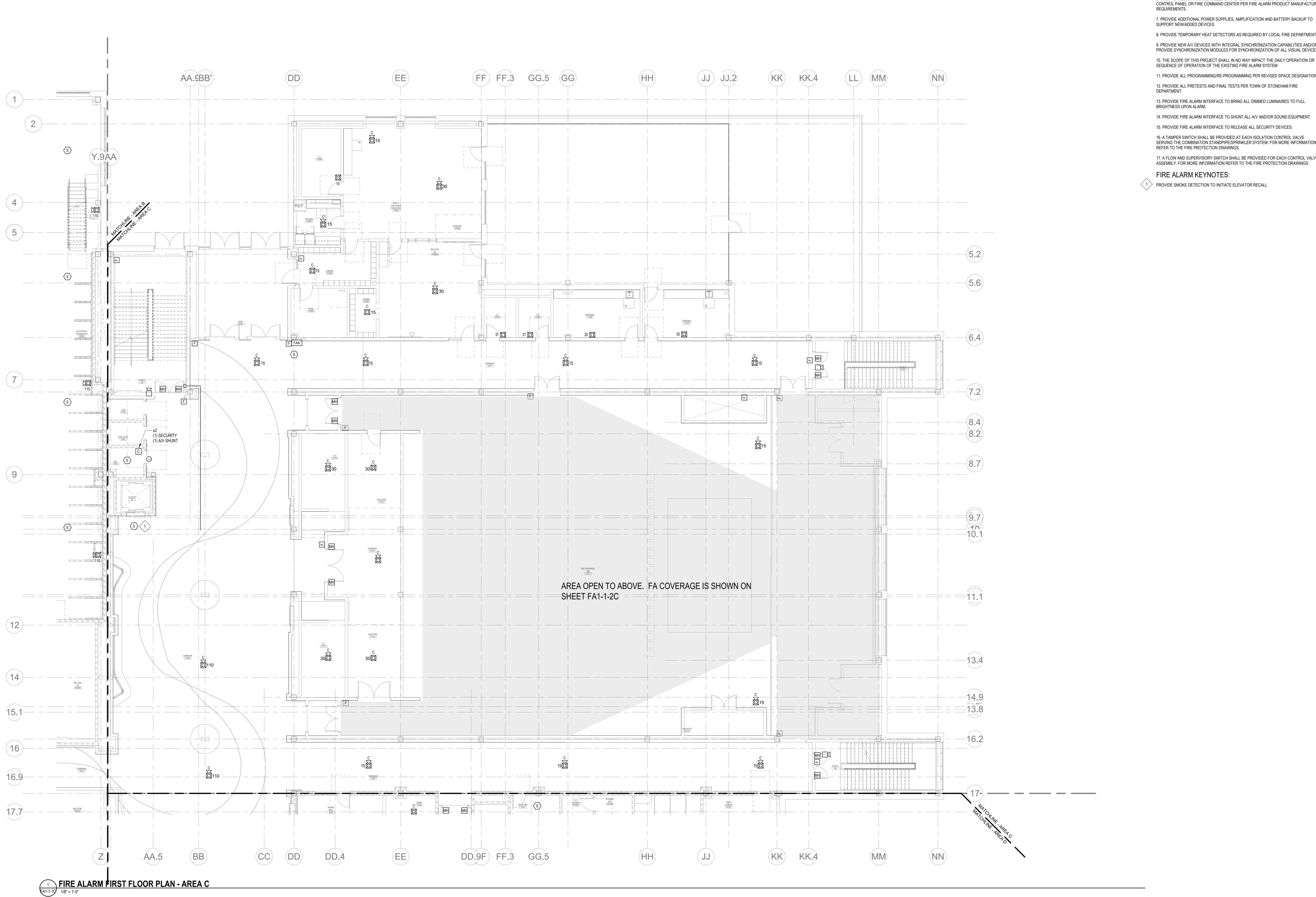
KEY PLAN

MAGNETIC NORTH



FIRE ALARM FIRST FLOOR

PLAN - AREA B



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

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.

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. 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.

BRIGHTNESS UPON ALARM. 14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL A/V 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 SMOKE DETECTION TO INITIATE ELEVATOR RECALL

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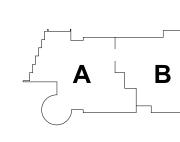
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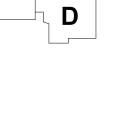
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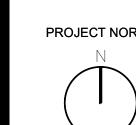
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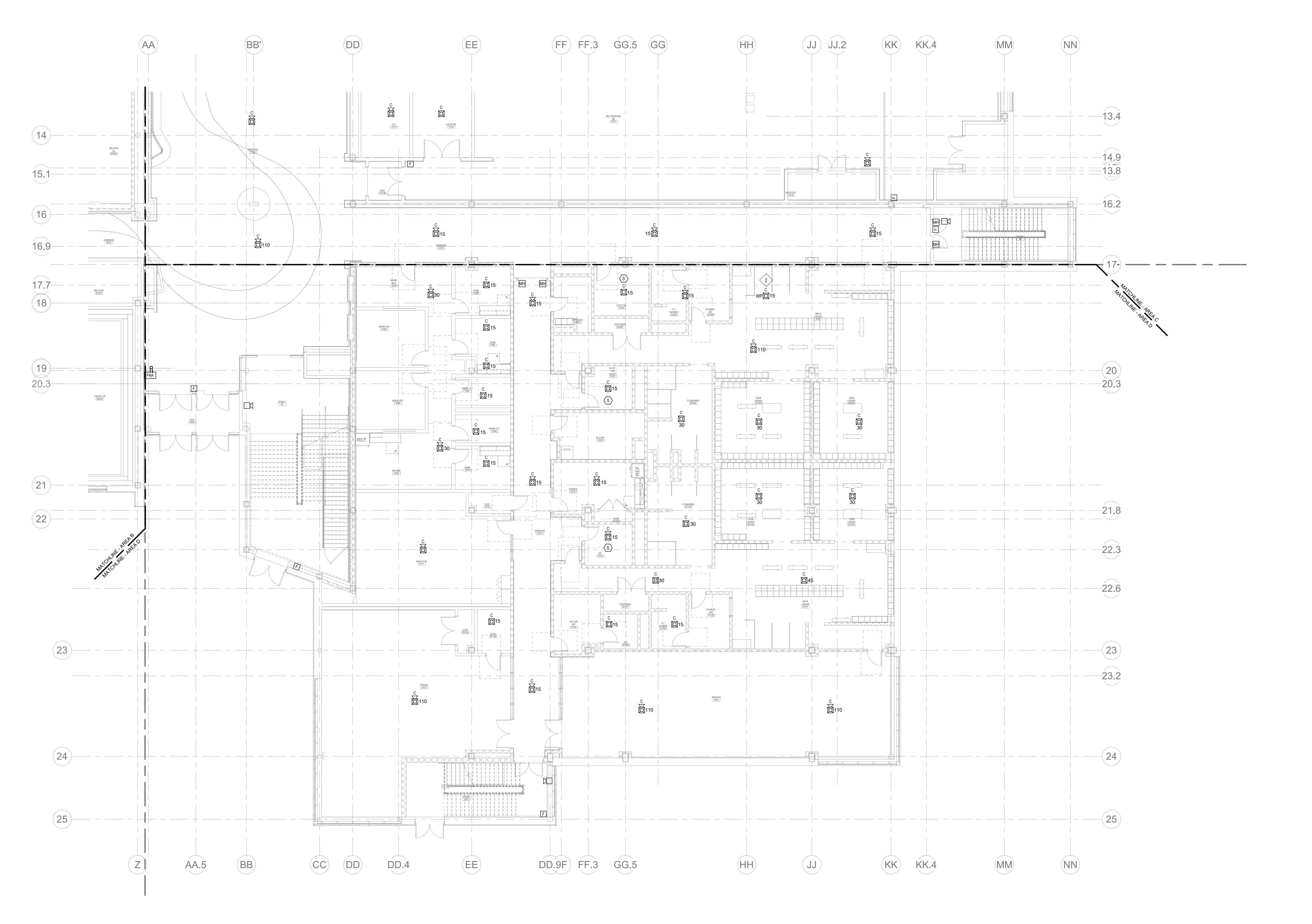
KEY PLAN MAGNETIC NORTH





FIRE ALARM FIRST FLOOR PLAN - AREA C

FA1-1-1C



FIRE ALARM FIRST FLOOR PLAN - AREA D

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

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

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. 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 A/V AND/OR SOUND EQUIPMENT.

ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

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

PROVIDE SMOKE DETECTOR TO INITIATE ELEVATOR RECALL.

2 PROVIDE WEATHER PROOF DEVICE NOTE.



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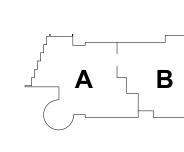
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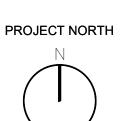
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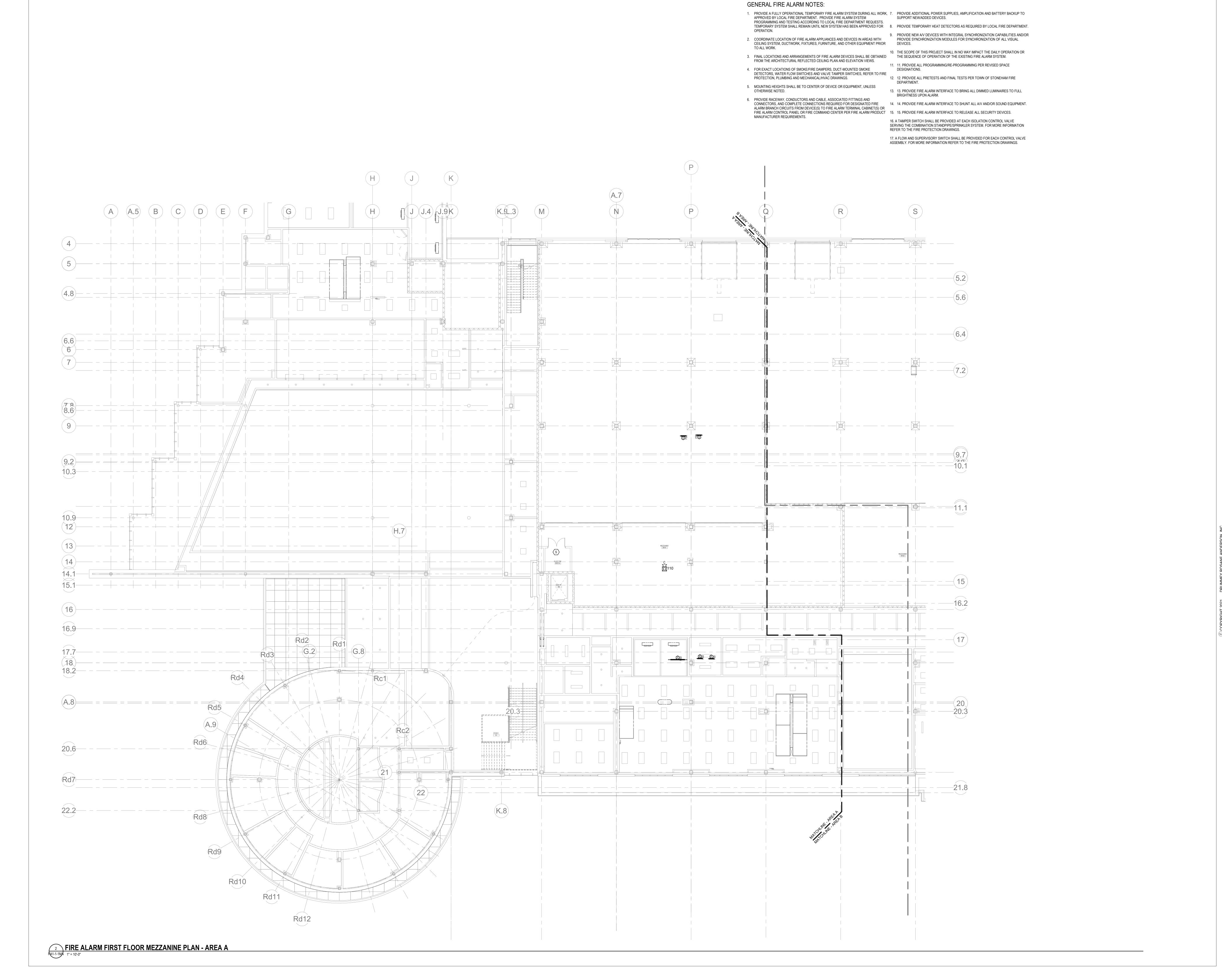


MAGNETIC NORTH



FIRE ALARM FIRST FLOOR PLAN - AREA D

FA1-1-1D





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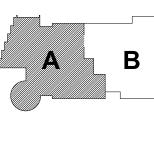
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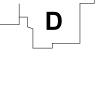
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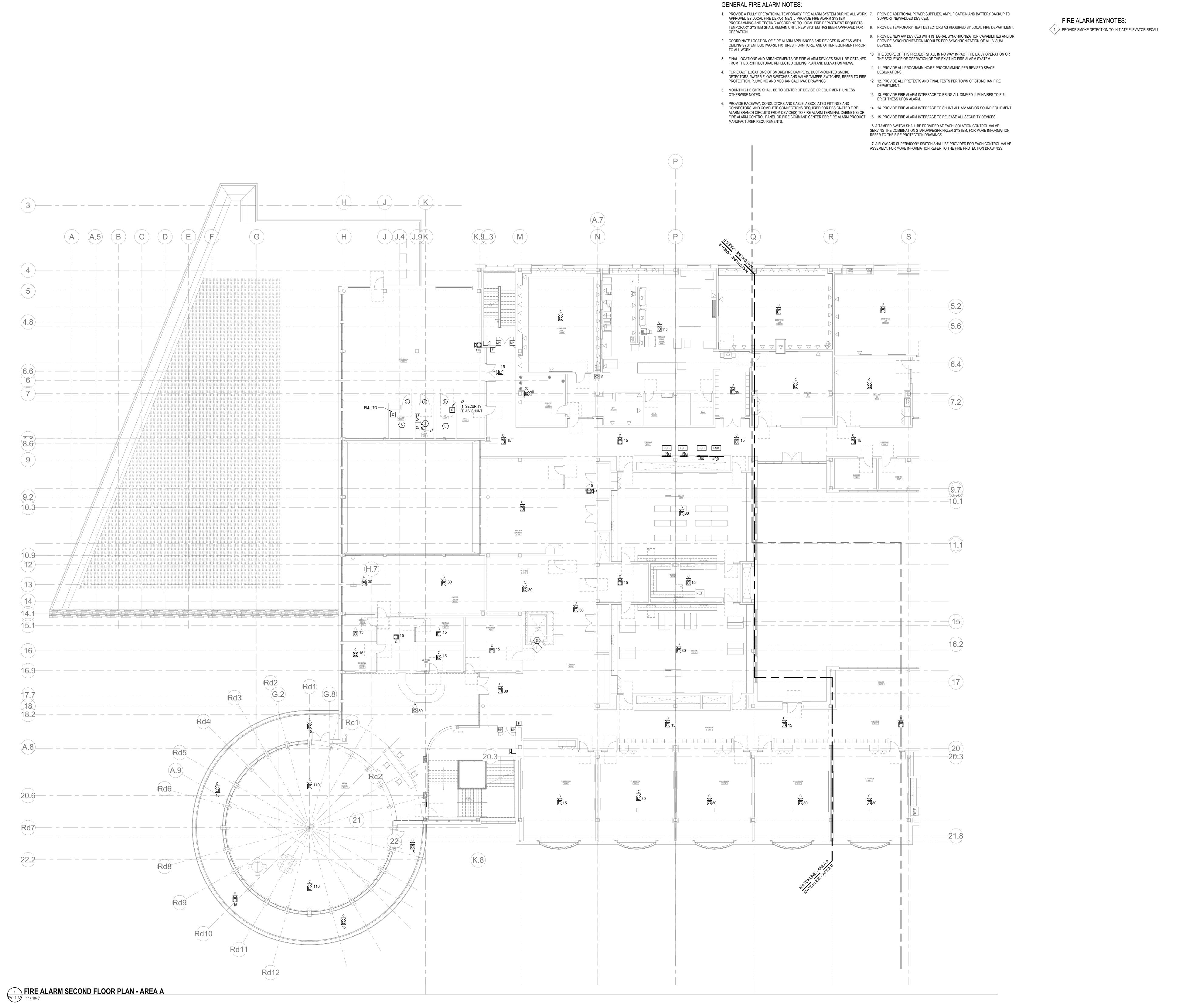


KEY PLAN



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

Drawn By: DRA FA1-1-1MA





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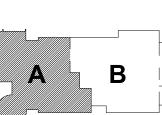
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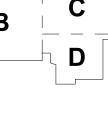
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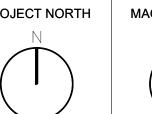
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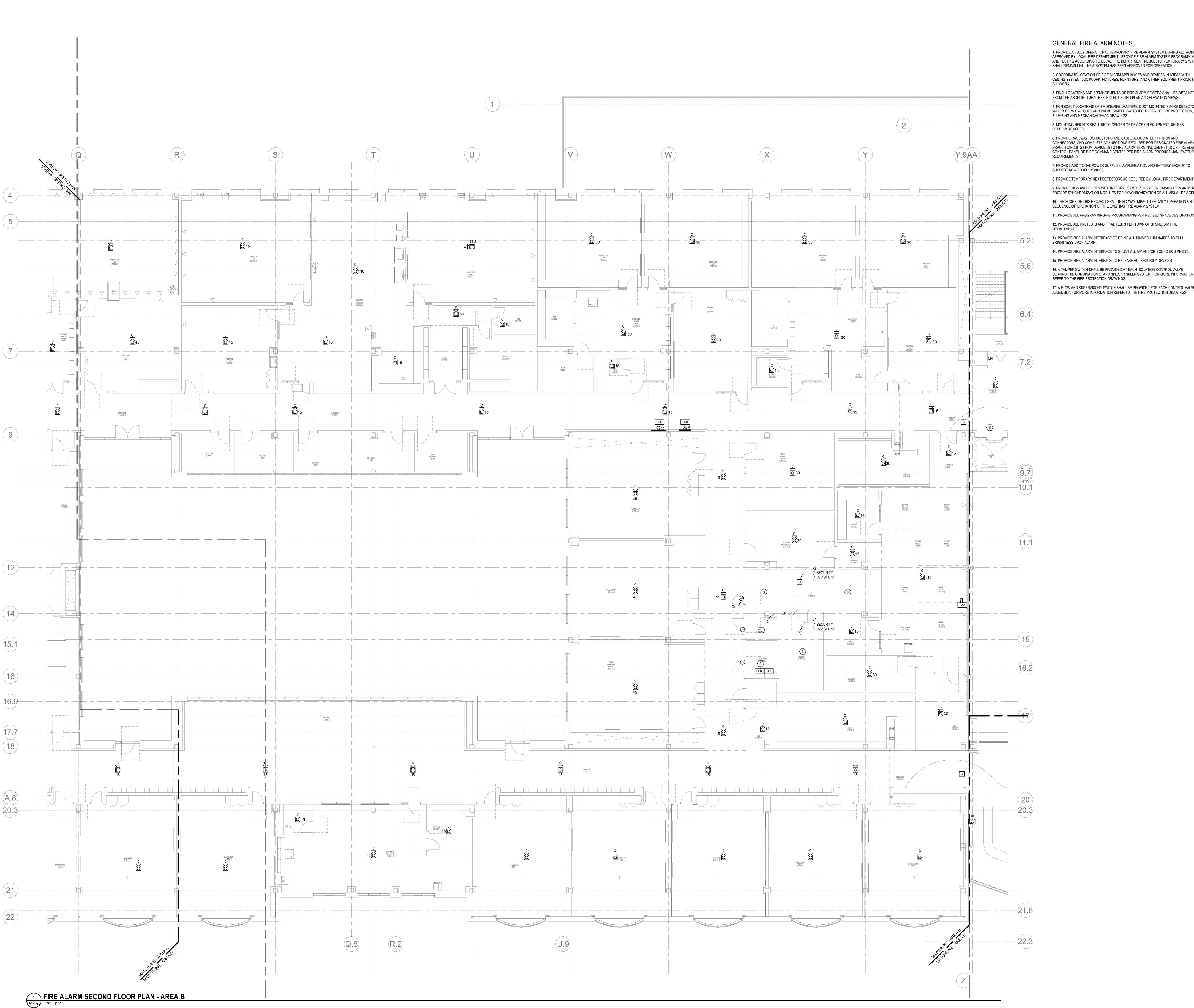


KEY PLAN



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

FA1-1-2A



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 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

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. 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

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. 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.

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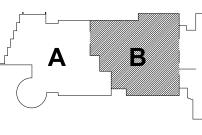
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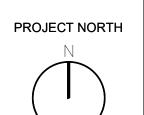
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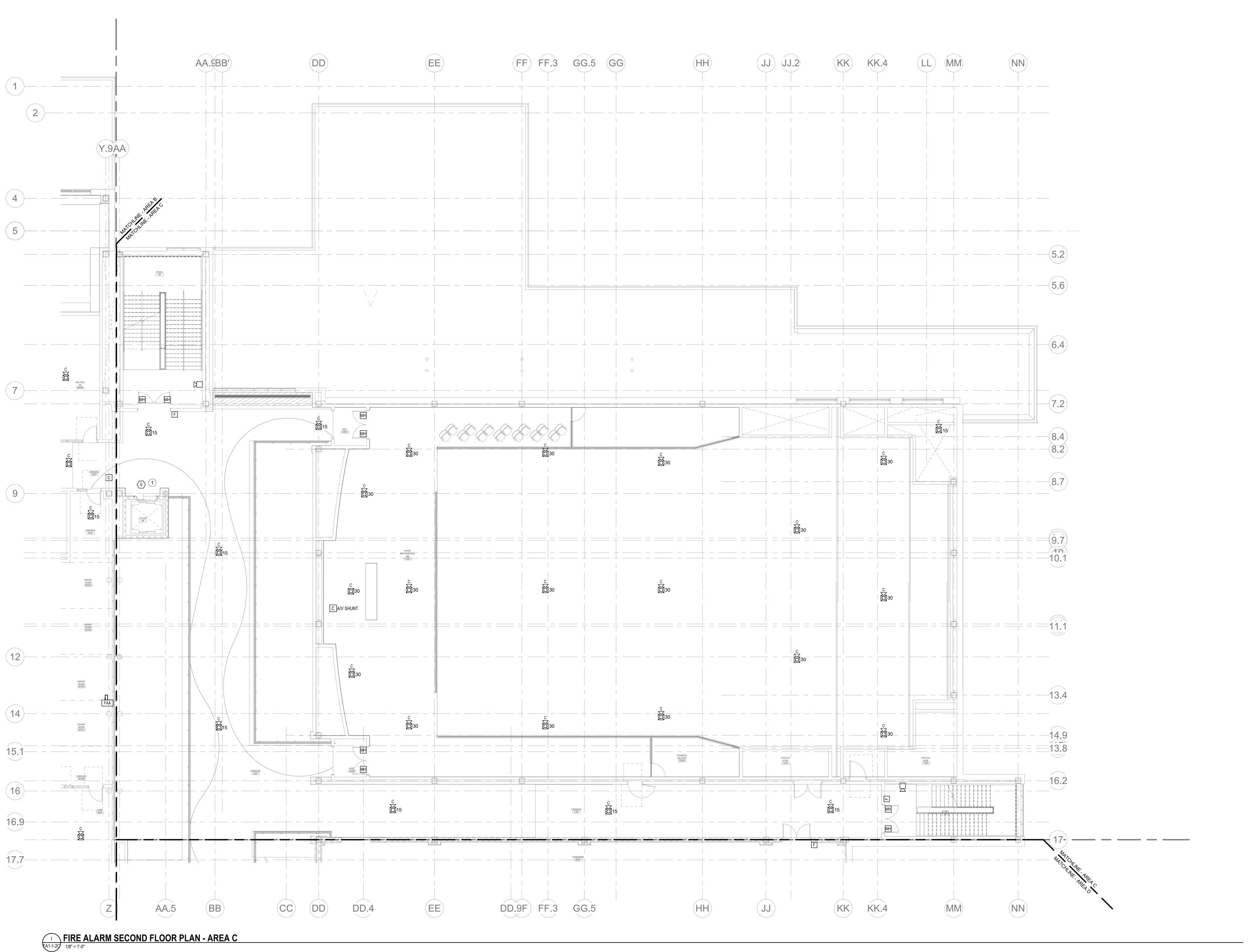


KEY PLAN MAGNETIC NORTH



FIRE ALARM

SECOND FLOOR PLAN - AREA B



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

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 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. 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 A/V 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 SMOKE DETECTION TO INITIATE ELEVATOR RECALL



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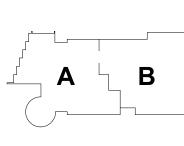
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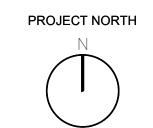
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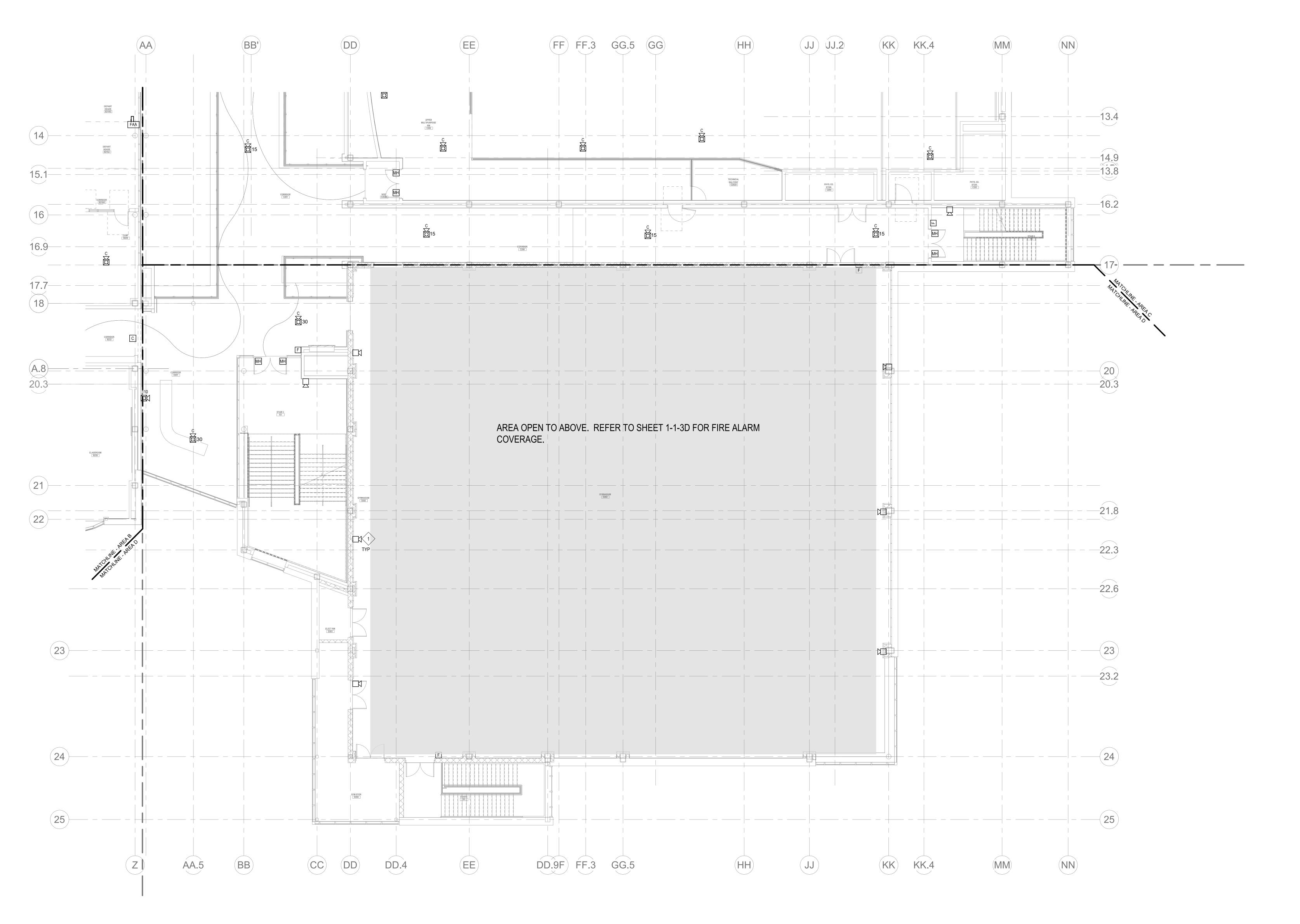
KEY PLAN

MAGNETIC NORTH



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

FA1-1-2C



FIRE ALARM SECOND FLOOR PLAN - AREA D

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 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 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

8. PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.

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. 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 TCPA-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.

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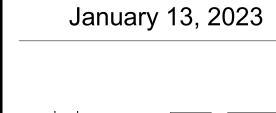
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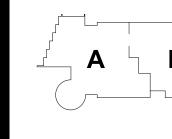
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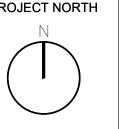
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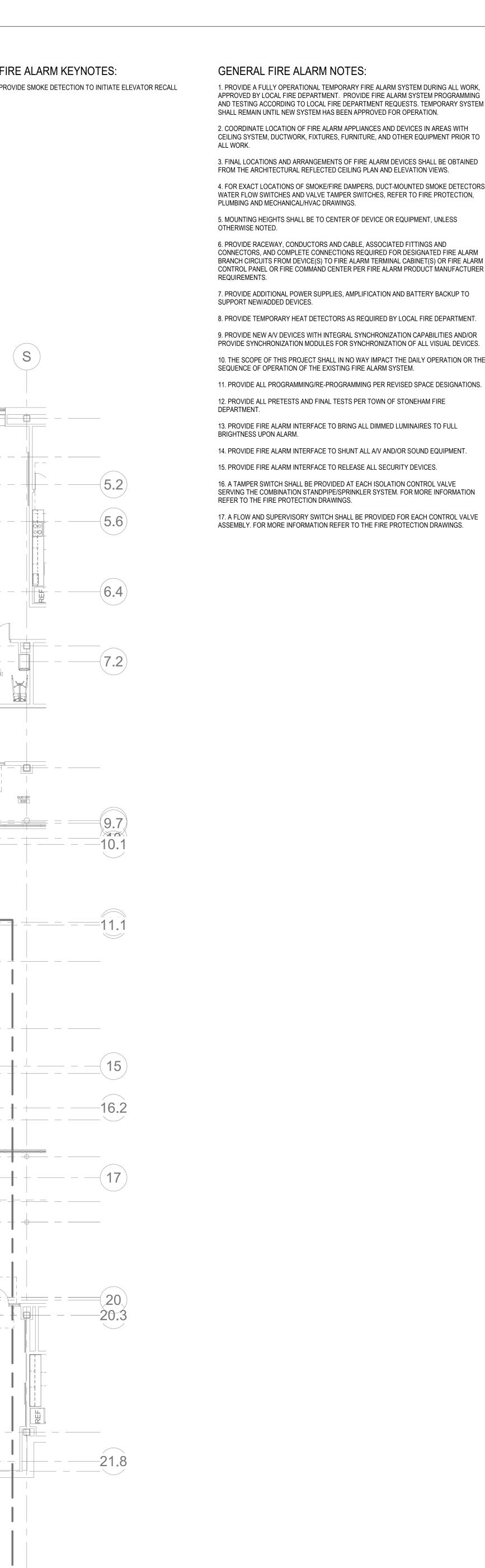
KEY PLAN

MAGNETIC NORTH



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

FA1-1-2D



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.

> 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

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

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. 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.

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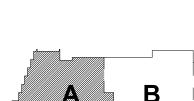
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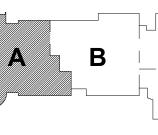
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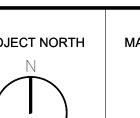
PHILADELPHIA | NEW YORK | BOSTON | BALTIMORE | WASHINGTON, DC MECHANICAL | ELECTRICAL | PLUMBING | FIRE PROTECTION STRUCTURAL | TECHNOLOGY | COMMISSIONING

MSBA 60% CD SUBMISSION January 13, 2023





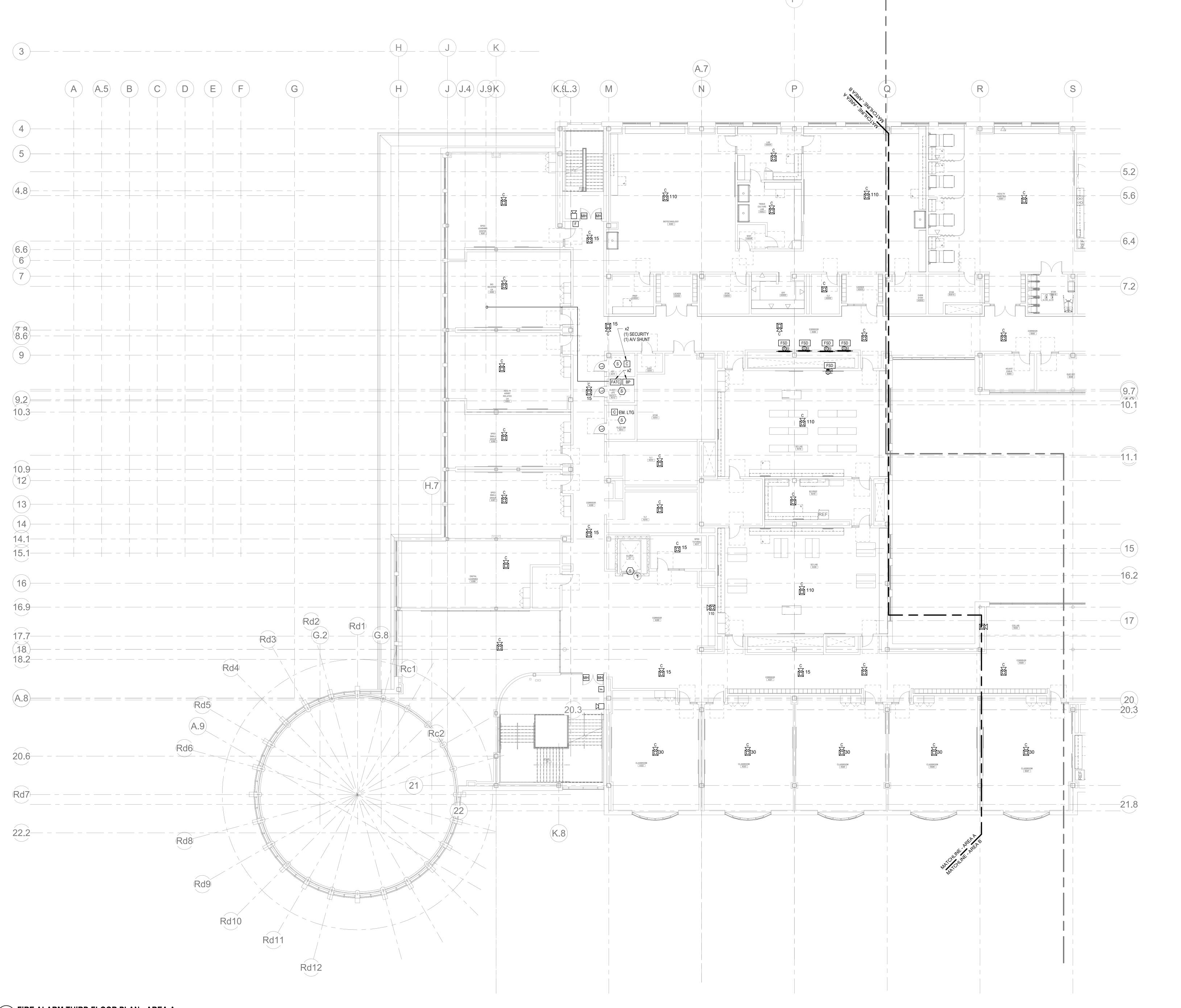
KEY PLAN

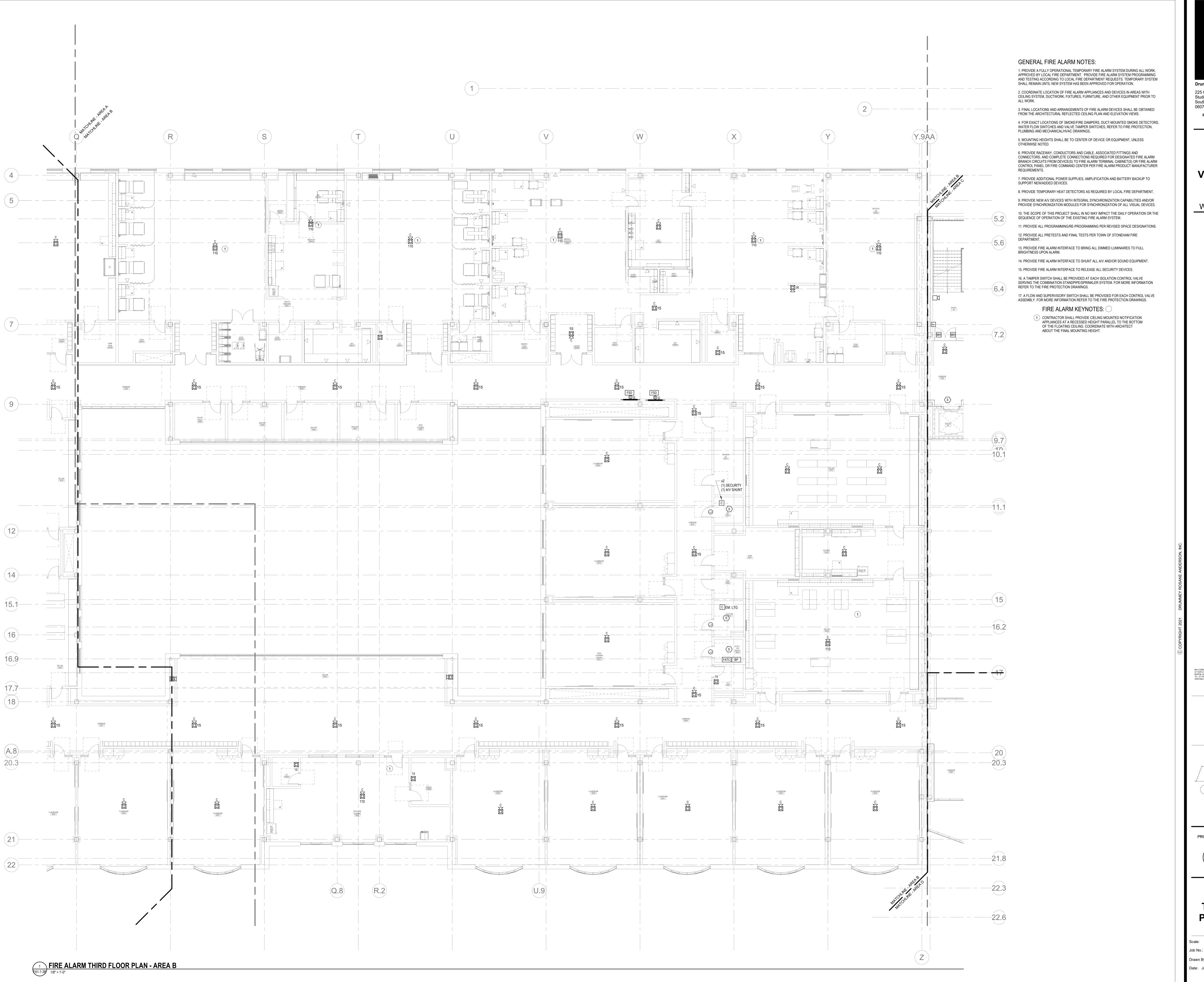


FIRE ALARM

THIRD FLOOR PLAN - AREA A

FA1-1-3A







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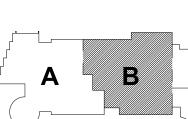
Tel: 617.964.1700

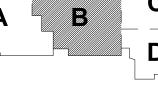
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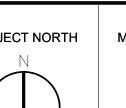
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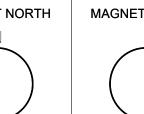
SUBMISSION January 13, 2023

MSBA 60% CD

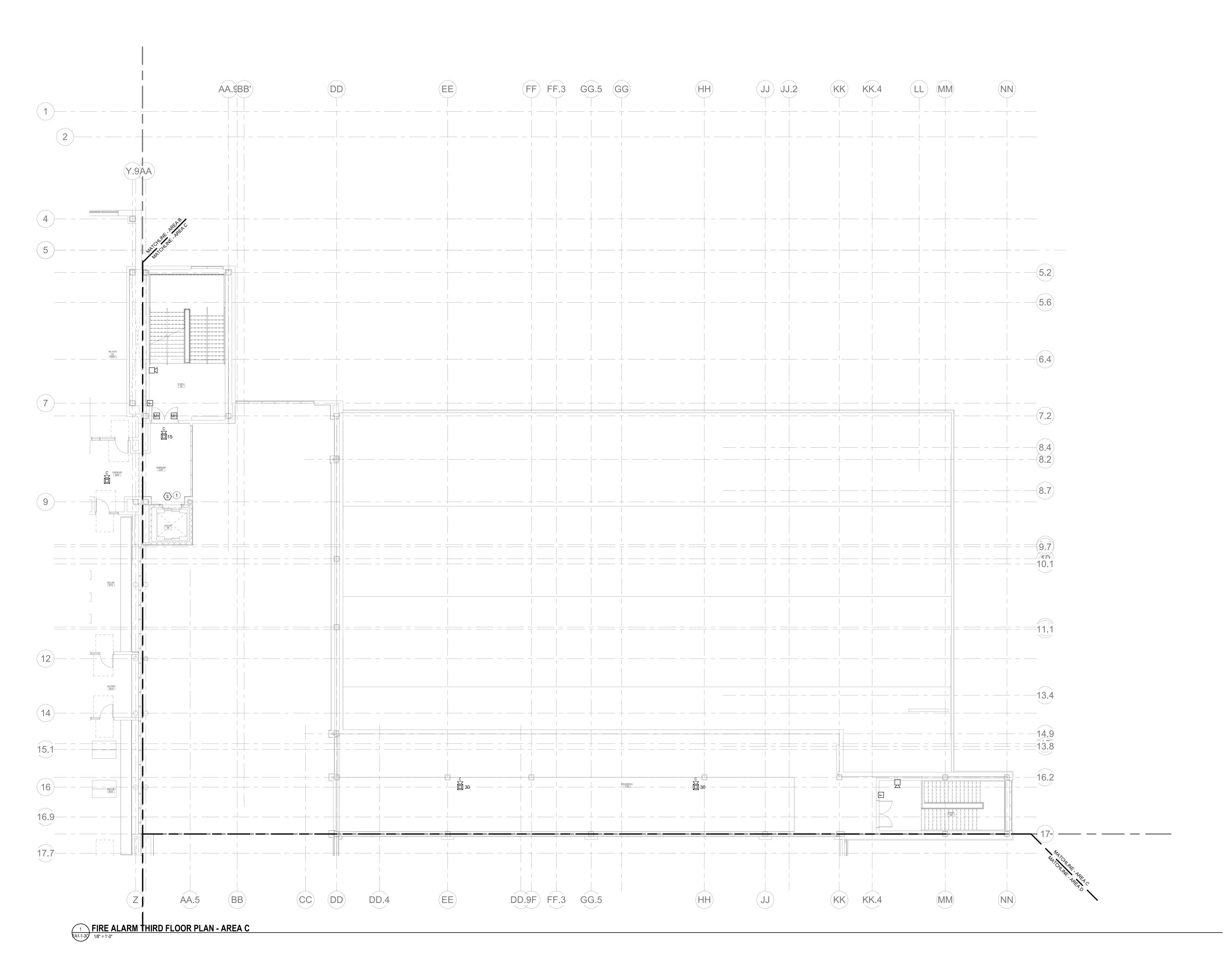








FIRE ALARM THIRD FLOOR PLAN - AREA B



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. 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 A/V 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 SMOKE DETECTION TO INITIATE ELEVATOR RECALL

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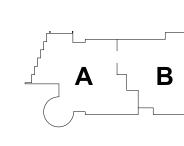
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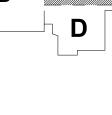
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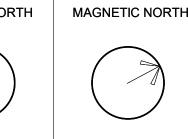
SUBMISSION

January 13, 2023



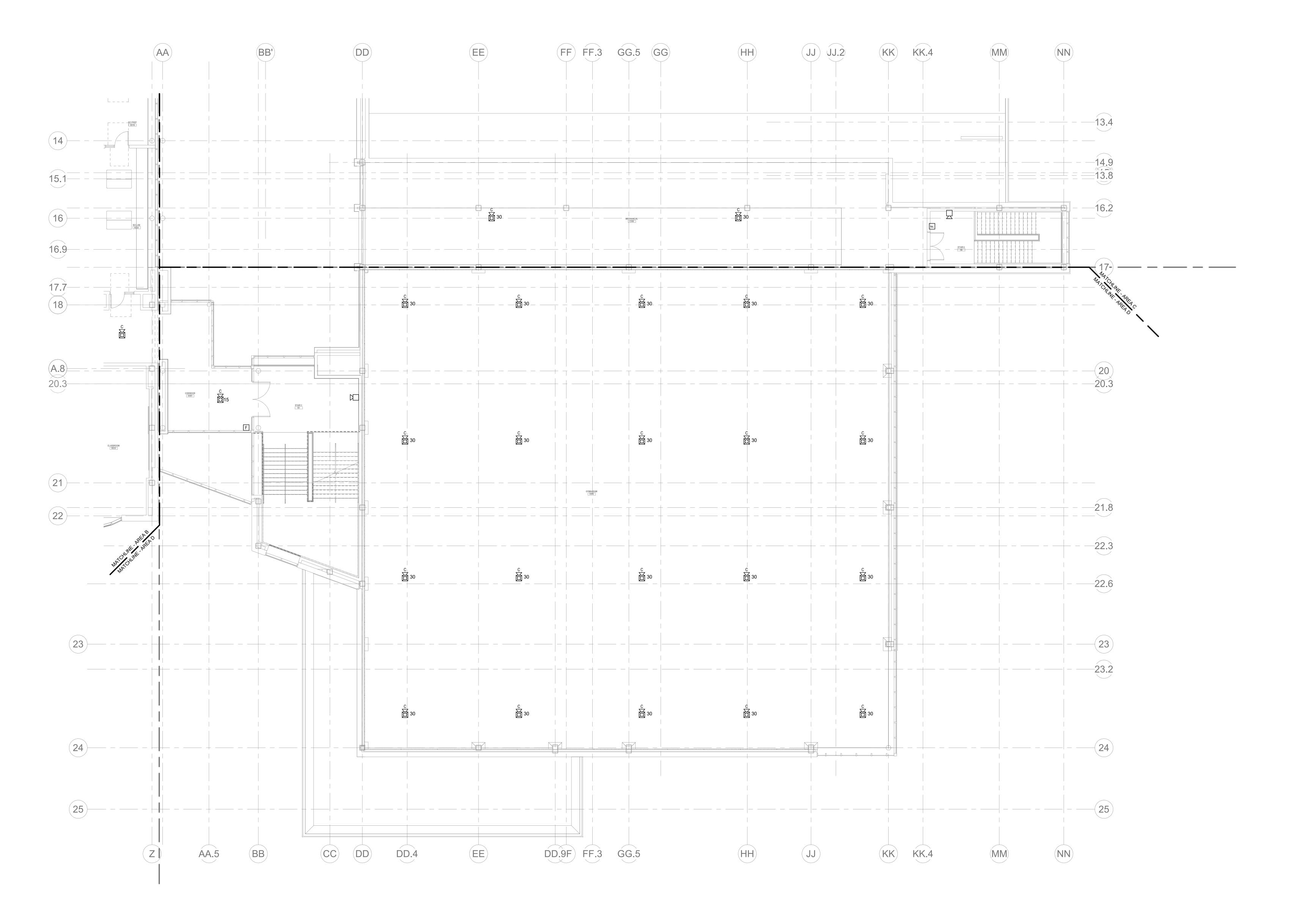


KEY PLAN



FIRE ALARM THIRD FLOOR PLAN - AREA C

FA1-1-3C



FIRE ALARM THIRD FLOOR PLAN - AREA D 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

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. 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 A/V 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.

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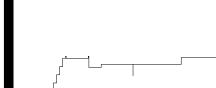
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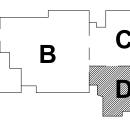
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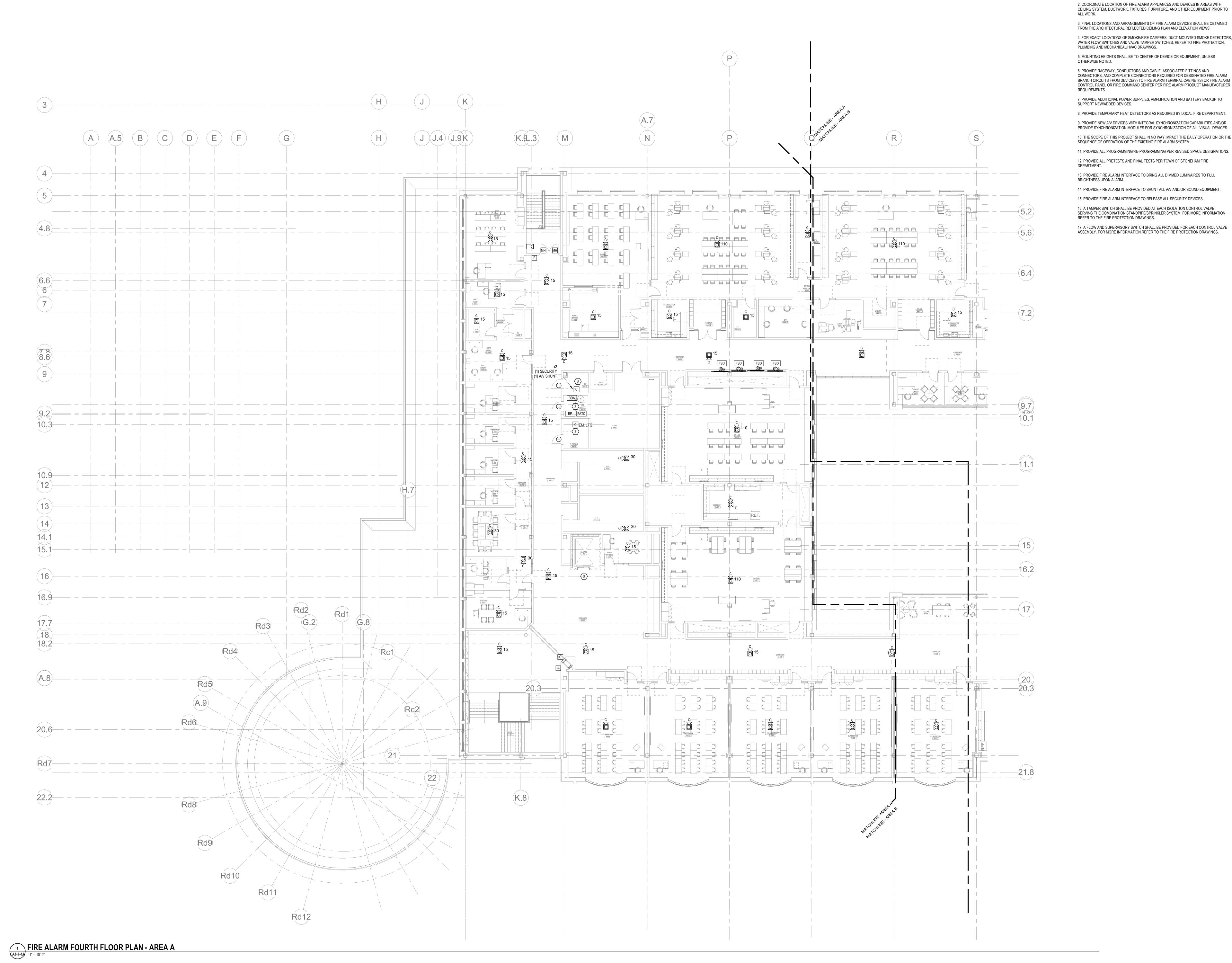


KEY PLAN

MAGNETIC NORTH

FIRE ALARM THIRD FLOOR PLAN - AREA D

FA1-1-3D



FIRE ALARM KEYNOTES:

1) PROVIDE A BI-DRECTIONAL AMPLIFIER PANEL FOR

POLICE AND FIRE DEPARTMENT RADIO COMMUNICATION.

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 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

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

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. 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 A/V 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

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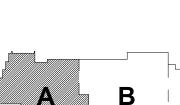
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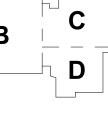
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Wakefield, MA 01880

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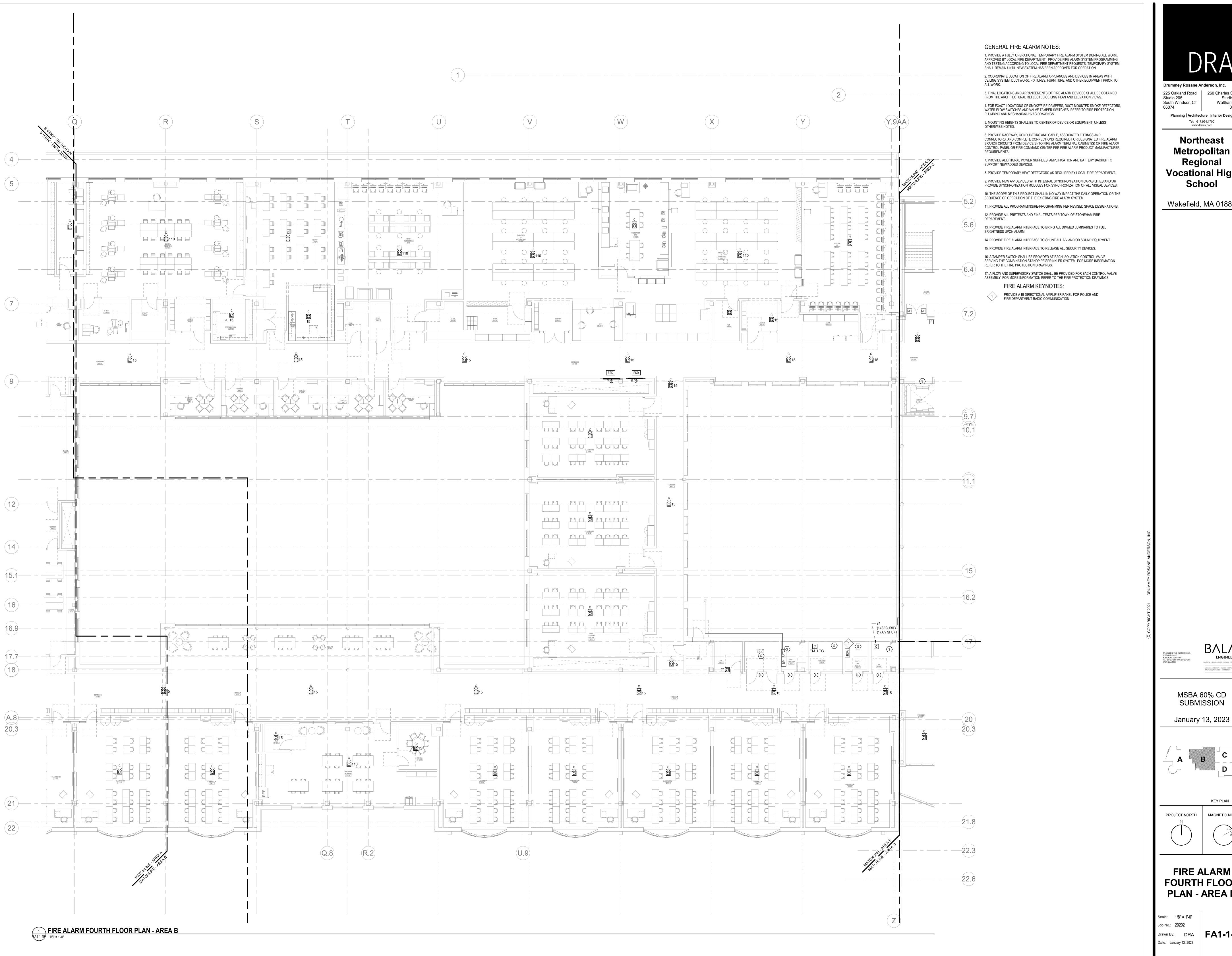


KEY PLAN MAGNETIC NORTH



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

FA1-1-4A





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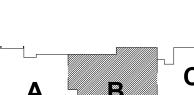
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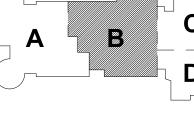
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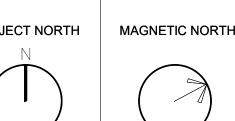
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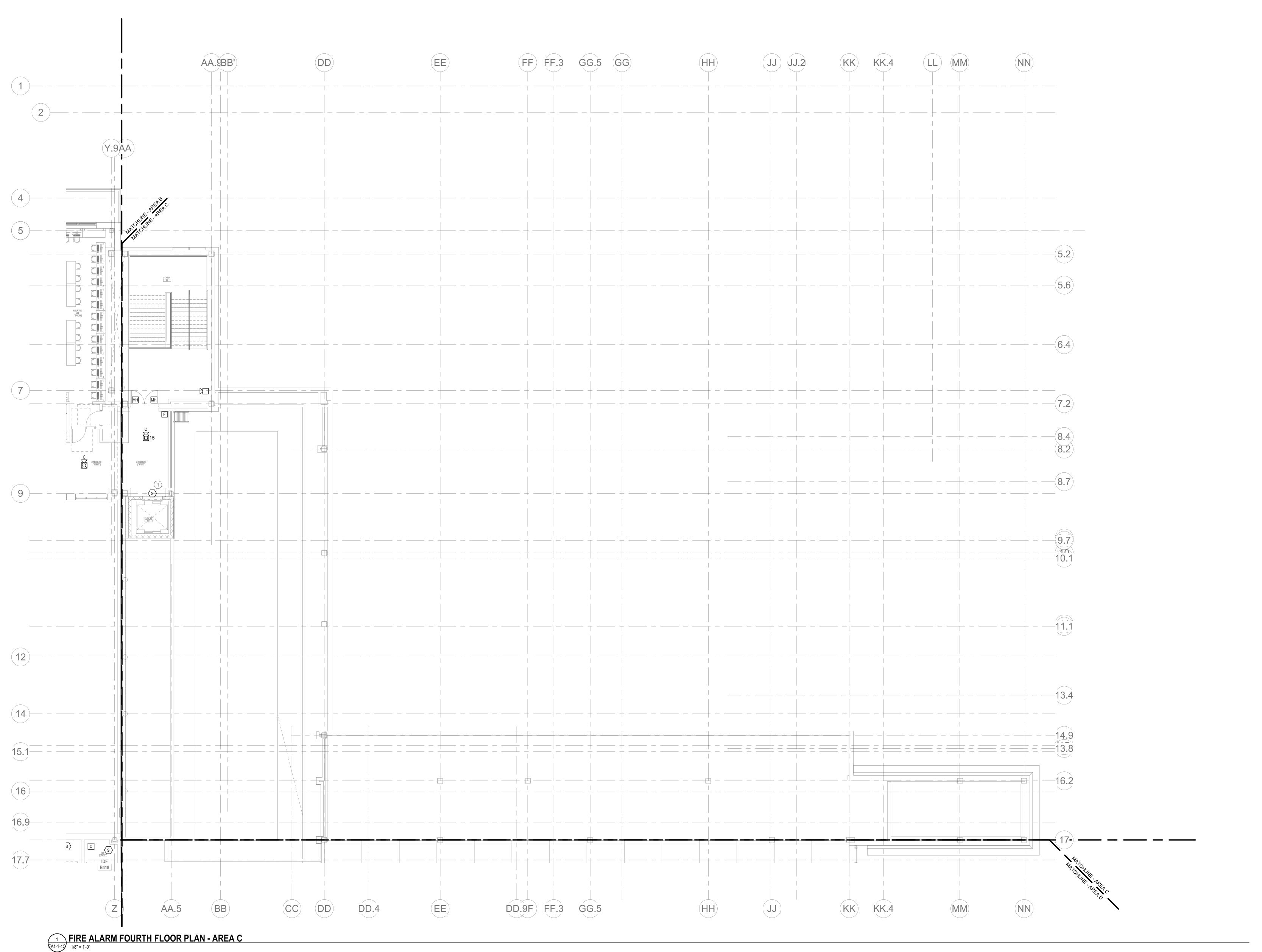


KEY PLAN



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

FA1-1-4B



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

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. 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

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

DEPARTMENT.

14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL A/V 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

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:

SERVING THE COMBINATION STANDPIPE/SPRINKLER SYSTEM. FOR MORE INFORMATION

1 PROVIDE SMOKE DETECTION TO INITIATE ELEVATOR RECALL.

REFER TO THE FIRE PROTECTION DRAWINGS.



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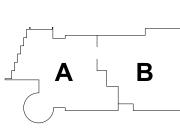
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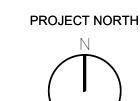
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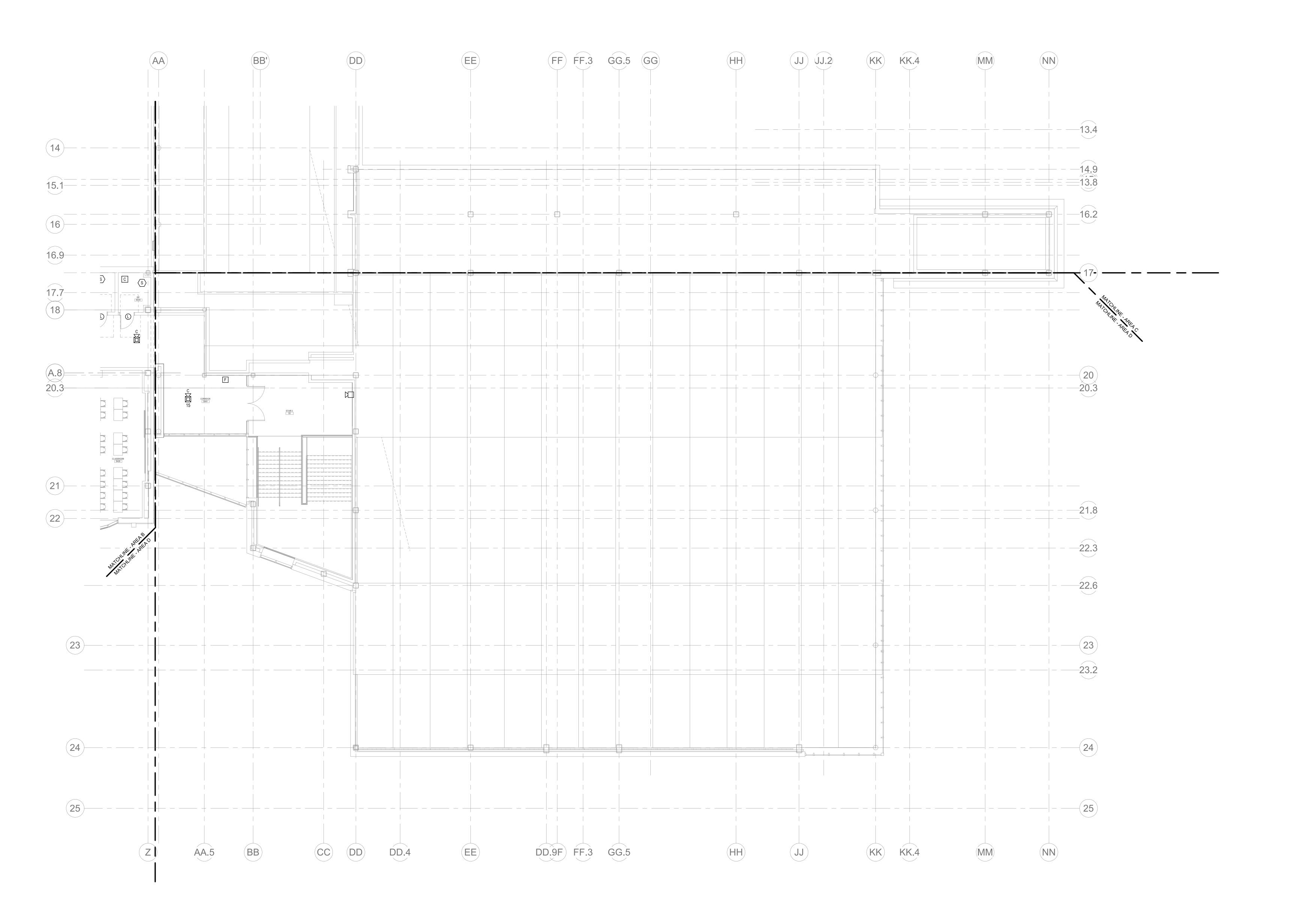




KEY PLAN



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



SUPPORT NEW/ADDED DEVICES.

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.

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. 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.

7. PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO

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. 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.

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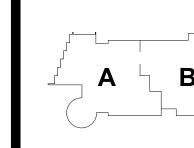
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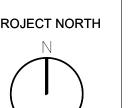
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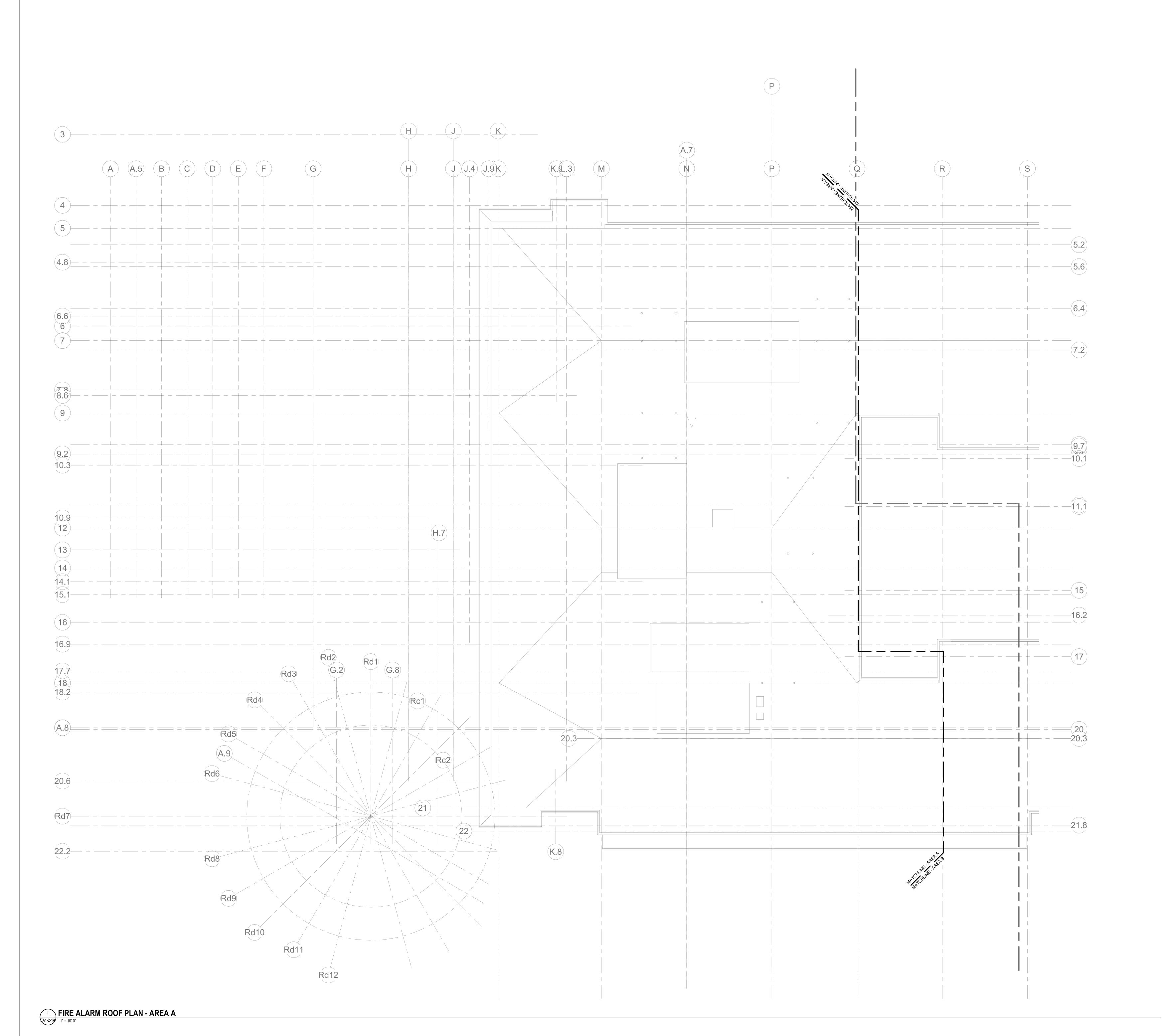
MAGNETIC NORTH



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

FA1-1-4D





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. 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 A/V 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.



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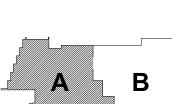
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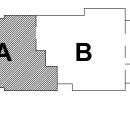
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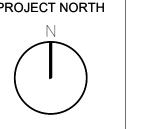
SUBMISSION January 13, 2023

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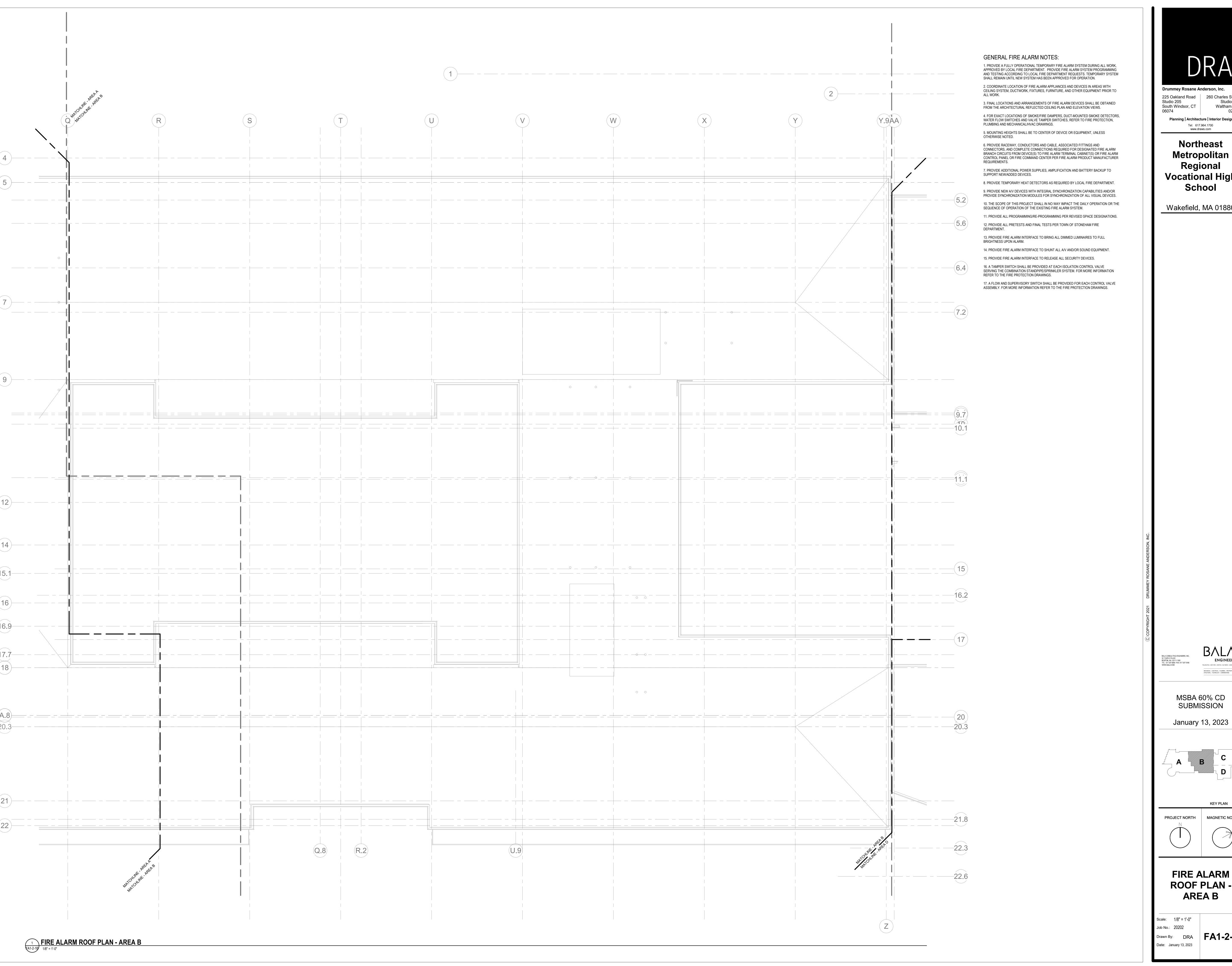




KEY PLAN



FIRE ALARM **ROOF PLAN -AREA A**



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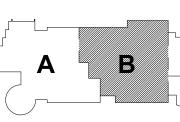
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Metropolitan Regional Vocational High

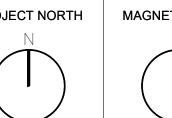
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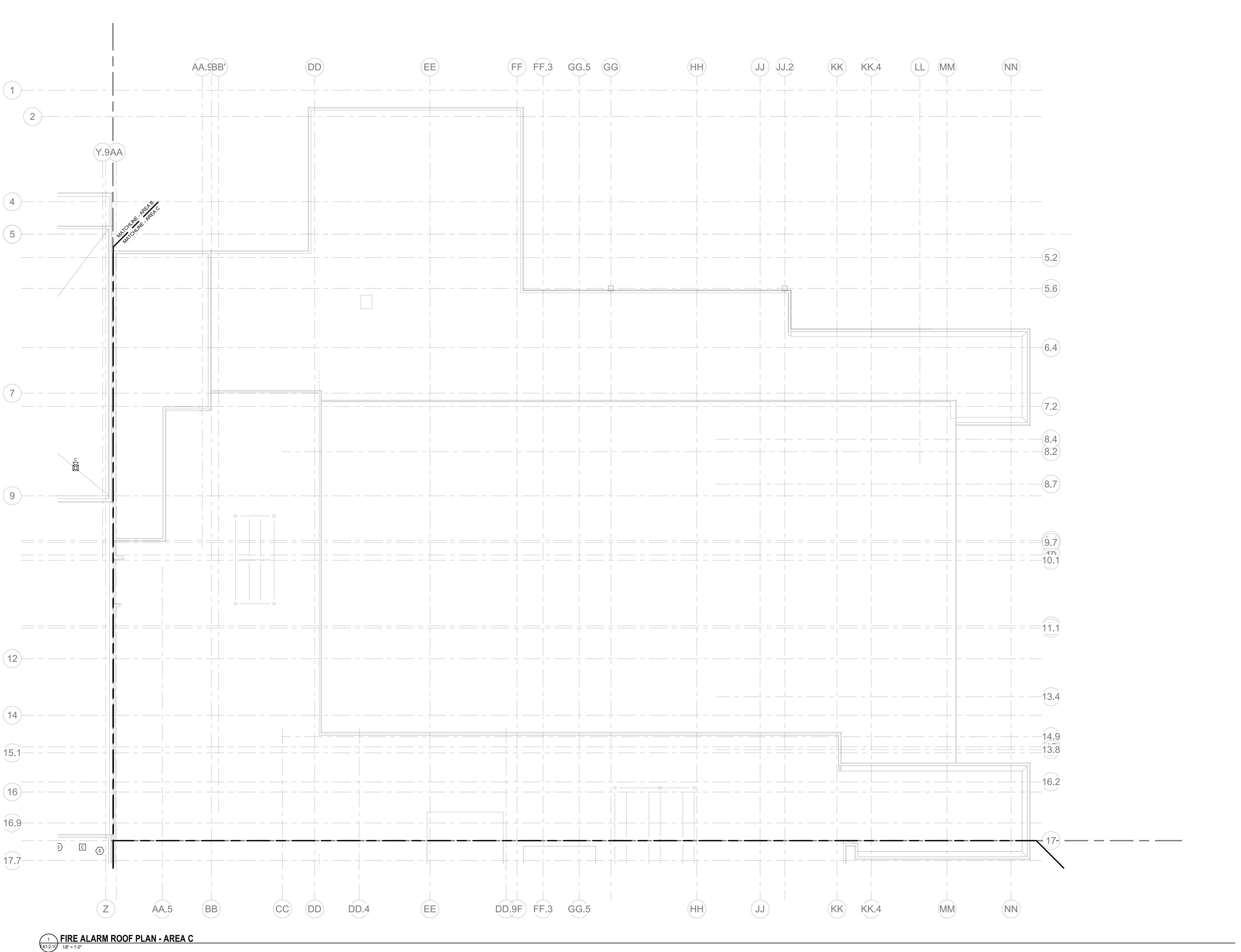




KEY PLAN



FIRE ALARM **ROOF PLAN -AREA B**



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.

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 A/V 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.



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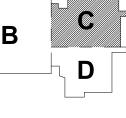
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January 13, 2023

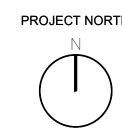
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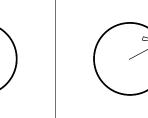




KEY PLAN

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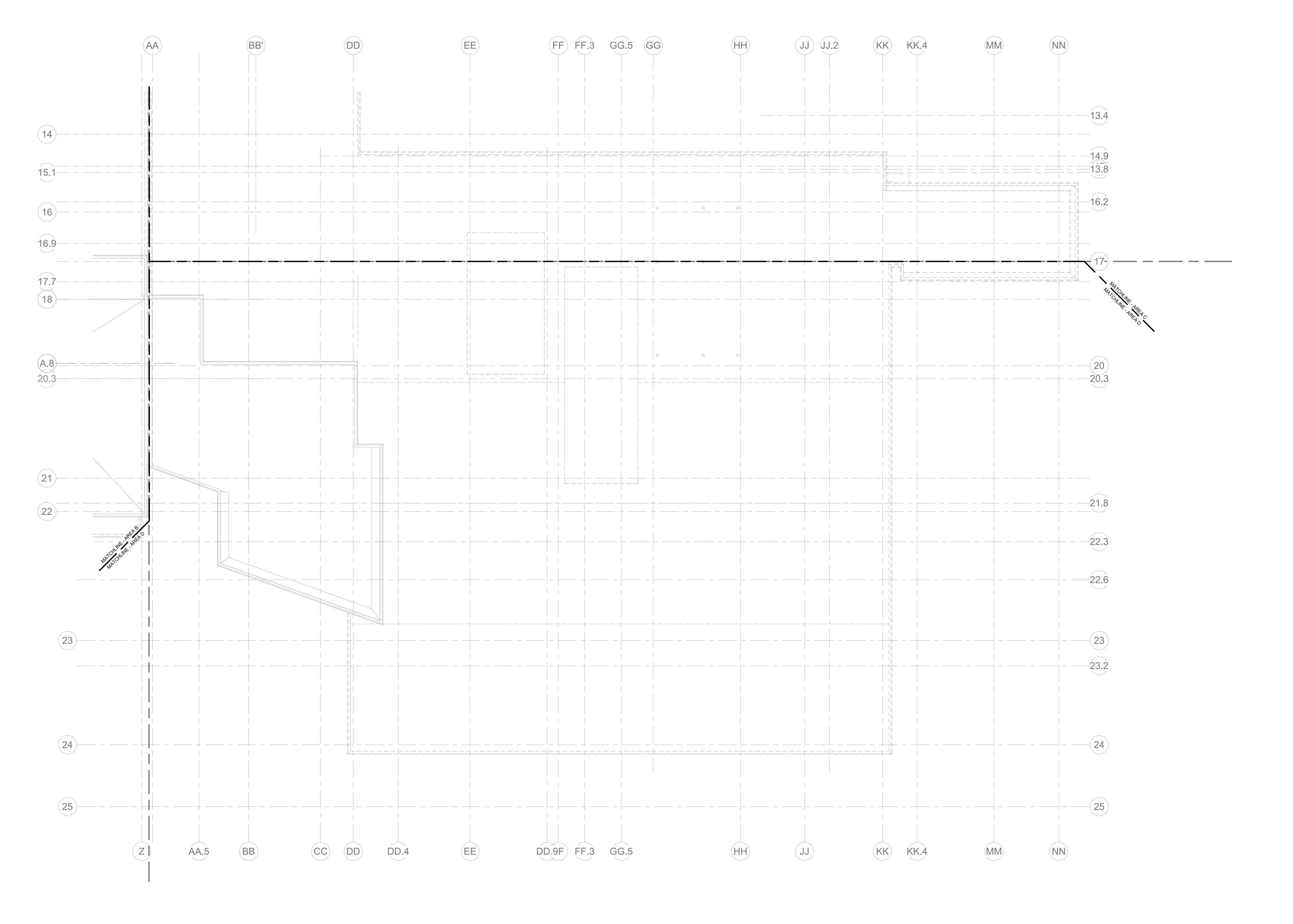
FIRE ALARM ROOF PLAN -AREA C

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: DRA

FA1-2-1C



FIRE ALARM ROOF PLAN - AREA D

1/8" = 1'-0"

GENERAL FIRE ALARM NOTES:

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

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.

PROVIDE ADDITIONAL POWER SUPPLIES, AMPLIFICATION AND BATTERY BACKUP TO SUPPORT NEW/ADDED DEVICES.
 PROVIDE TEMPORARY HEAT DETECTORS AS REQUIRED BY LOCAL FIRE DEPARTMENT.
 PROVIDE NEW A/V DEVICES WITH INTEGRAL SYNCHRONIZATION CAPABILITIES AND/OR PROVIDE SYNCHRONIZATION MODULES FOR SYNCHRONIZATION OF ALL VISUAL DEVICES.
 THE SCOPE OF THIS PROJECT SHALL IN NO WAY IMPACT THE DAILY OPERATION OR THE SEQUENCE OF OPERATION OF THE EXISTING FIRE ALARM SYSTEM.
 PROVIDE ALL PROGRAMMING/RE-PROGRAMMING PER REVISED SPACE DESIGNATIONS.
 PROVIDE ALL PRETESTS AND FINAL TESTS PER TOWN OF STONEHAM FIRE

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.
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.

DEPARTMENT.

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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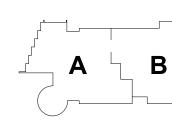
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PROJECT NORTH

FIRE ALARM ROOF PLAN -AREA D

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: DRA

FA1-2-1D

KEYNOTE 1 PROVIDE A SMOKE DETECTOR TO INITIATE ELEVATOR RECALL. 2 PROVIDE A NEW ANALOG ADDRESSABLE FIRE ALARM CONTROL PANEL UNIT. A DIGITAL ALARM COMMUNICATION TRASMITTER SHALL BE PROVIDED TO TRASMIT SIGNALS OFF-SITE.

PROVIDE HEAT DETECTORS RATED AT A FIXTED 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.

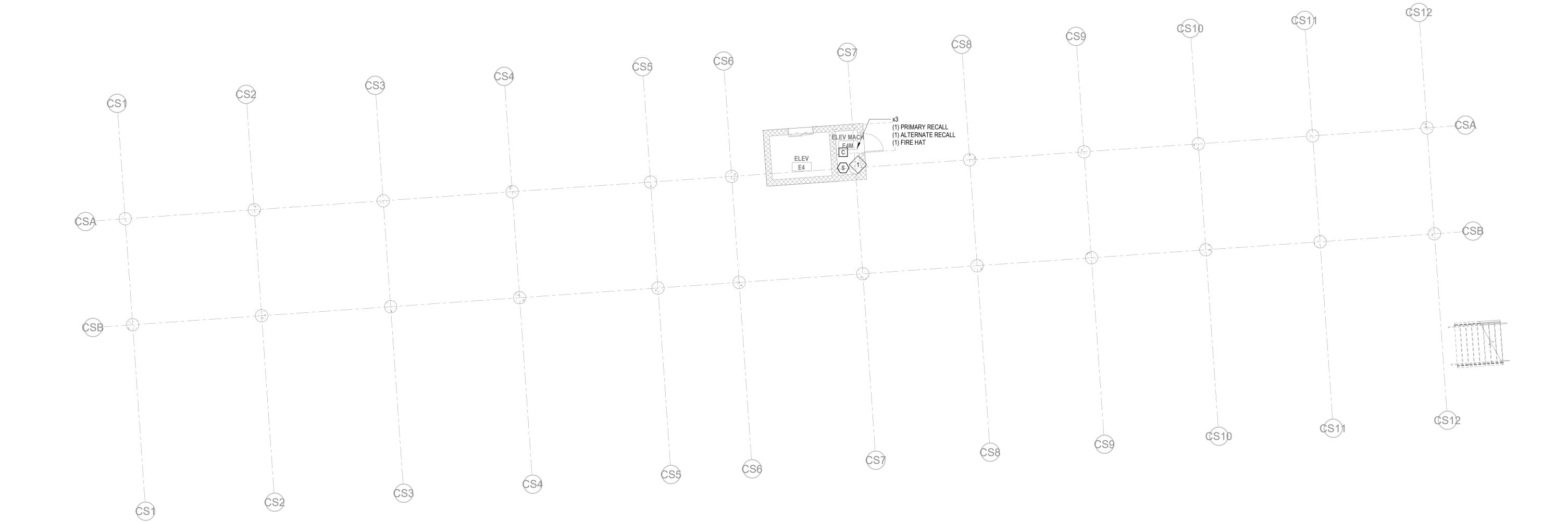
6. PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED FIRE ALARM BRANCH CIRCUITS FROM DEVICE(S) TO FIRE ALARM TERMINAL CABINET(S) OR FIRE ALARM CONTROL PANEL OR FIRE COMMAND CENTER PER FIRE ALARM PRODUCT MANUFACTURER REQUIREMENTS.

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. 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.

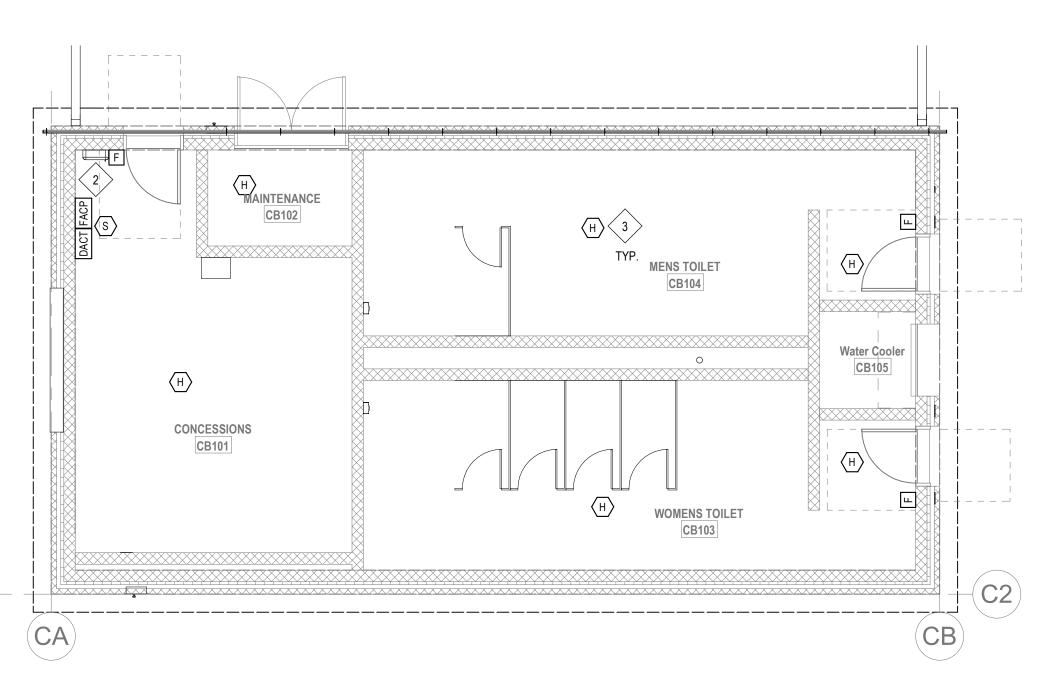
14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL A/V AND/OR SOUND EQUIPMENT. 15. PROVIDE FIRE ALARM INTERFACE TO RELEASE ALL SECURITY DEVICES. 16. A TAMPER SWITCH SHALL BE PROVIDED AT EACH ISOLATION CONTROL VALVE SERVING THE COMBINATION STANDPIPE/SPRINKLER SYSTEM. FOR MORE INFORMATION REFER TO THE FIRE 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 CONCESSION BUILDING PLAN

1/8" = 1'-0"



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

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FIRE ALARM CONCESSION **BUILDING PLAN**

FA1-1-CB



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GENERAL FIRE ALARM NOTES:

1 PROVIDE A SMOKE DETECTOR TO INITIATE ELEVATOR RECALL. DUCTWORK, FIXTURES, FURNITURE, AND OTHER EQUIPMENT PRIOR TO ALL WORK.

2 PROVIDE WEATHERPROOF SPEAKER/STROBE.

3 > PROVIDE A NEW ANALOG ADDRESSABLE FIRE ALARM

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

2. COORDINATE LOCATION OF FIRE ALARM APPLIANCES AND DEVICES IN AREAS WITH CEILING SYSTEM,

3. FINAL LOCATIONS AND ARRANGEMENTS OF FIRE ALARM DEVICES SHALL BE OBTAINED FROM THE

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

ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATION VIEWS.

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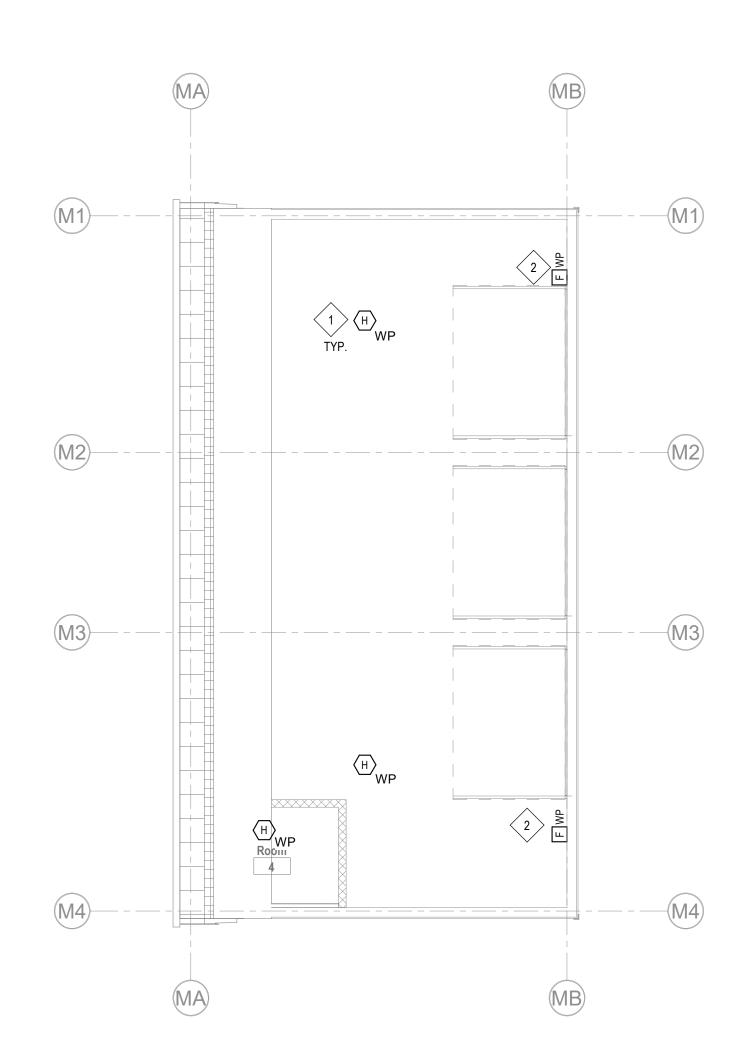
FIRE ALARM LOCKER BUILDING PLAN

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: DRA

A1-1-LB



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.

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

14. PROVIDE FIRE ALARM INTERFACE TO SHUNT ALL A/V 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

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

 \langle 1 angle provide a weatherproof heat detectors rated at a fixted temperature of 155 f.

2 PROVIDE A WEATHERPROOF PULL STATION

REFER TO THE FIRE PROTECTION DRAWINGS.

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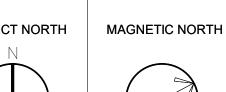
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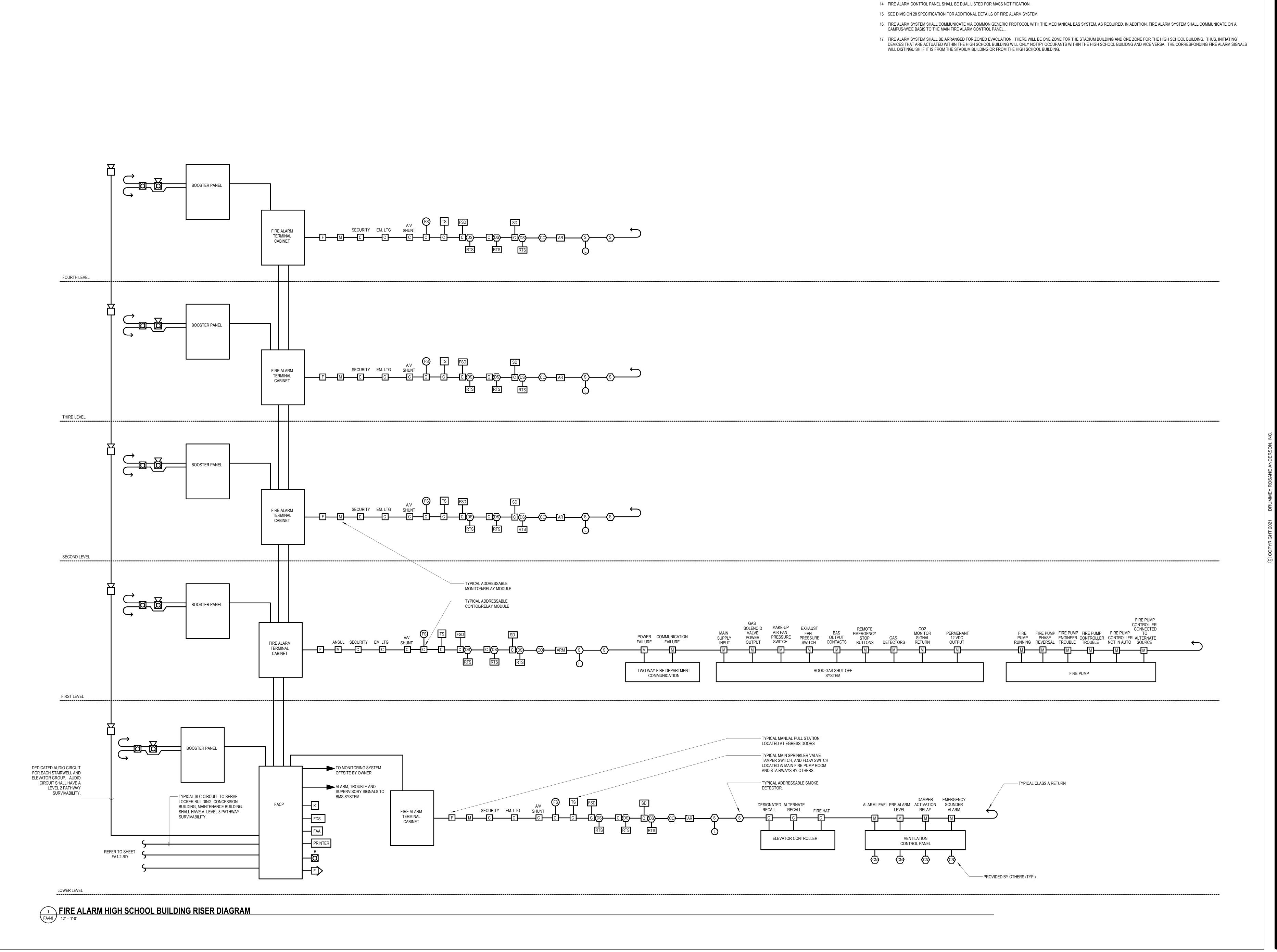
January 13, 2023





FIRE ALARM MAINTENANANCE **BUILDING PLAN**

Drawn By: DRA **FA1-1-MB**



NOTES:

SERVING THE RENOVATION AREA.

11. ISOLATION MODULES SHALL BE INSTALLED EACH 25 ADDRESSABLE DEVICES.

PROVIDED AND INSTALLED BY THE FIRE PROTECTION MECHANICAL CONTRACTOR.

1. ALL DEVICES AND WIRING SHALL BE COMPATIBLE WITH FACP AND SHALL BE U.L. AND FM CERTIFIED AS A COMPLETE AND OPERABLE SYSTEM. THE FIRE ALARM SYSTEM SHALL BE INSTALLED AND

3. THIS DIAGRAM DOES NOT DUPLICATE INFORMATION ABOUT PHYSICAL LOCATION OF EQUIPMENT, WHICH IS ALREADY SHOWN ON THE PLANS. THIS DIAGRAM SHOWS SOME PIECES OF EQUIPMENT

4. TYPICALLY IONIZATION TYPE SMOKE DETECTORS SHALL BE PROVIDED AND WIRED FOR AHU'S AND RTU'S BACK TO FACP PER NFPA 90A. COORDINATE WITH MECH. CONTRACTOR ON DETECTOR

ALARM CONDITIONS. FIRE ALARM SYSTEM AND BAS SYSTEM SHALL BE MONITORED IN THE BUILDING ENGINEER'S OFFICE. PROVIDE REQUIRED HARDWARE, SOFTWARE AND WIRING.

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.

13. FIRE ALARM SYSTEM DESIGN AND INSTALLATION SHALL MEET THE REQUIREMENTS OF ALL LOCAL CODES AND ORDINANCES AND OF THE LOCAL STONEHAM SAFETY DEPARTMENT.

INSTALLATION AND SHUTDOWN WIRING. USE PHOTOELECTRIC TYPE DETECTORS FOR MECHANICAL ROOM, ELECTRICAL ROOM, IDF ROOM, MDF ROOM, TEL/DATA ROOM.

2. WIRING BETWEEN THE FIRE ALARM CONTROL PANEL AND THE FIRE ALARM TERMINAL CABINETS AND THE WIRING BETWEEN TWO FIRE ALRM TERMINAL CABINETS SHALL HAVE A LEVEL 2 SURVIVIABILITY.

5. PROVIDE CONTROL MODULES FOR HVAC CONTROL (AHU AND RTU SHUTDOWN) VIA DUCT SMOKE DETECTORS WITH RELAYS WIRED TO SLC PER NFPA 90A. COORDINATE WITH MECHANICAL CONTRACTOR

6. 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

8. DESIGN INTENT IS TO INSTALL A NEW NOTIFICATION APPLIANCES AND INITIATING DEVICES TO THE NEW NOTIFICATION APPLIANCE CIRCUIT (NAC) AND SIGNALING DEVICES CIRCUIT RESPECTIVELY

10. COORDINATE WITH ELEVATOR CONTRACTOR ON FIRE ALARM INTERFACE WIRING FOR SHUNT TRIP OF ELEVATOR MAIN DISCONNECT, ELEVATOR CAB PHONE JACKS, ELEVATOR PIT AND TOP OF SHAFT

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

OPERATIONAL IN ACCORDANCE WITH NEC ARTICLE 725, ARTICLE 760, NFPA 72 AND ADA. WIRING SHALL BE CLASS `A' TYPE.

NECESSARY FOR THE OPERATION OF THE FIRE ALARM SYSTEM, BUT WHICH ARE TYPICALLY OMITTED FROM THE PLANS FOR THE SAKE OF CLARITY.

ON LOCATIONS OF DUCT DETECTORS, ETC. DUCT DETECTORS SHALL BE SYSTEM TYPE COMPATIBLE WITH FACP AND FURNISHED AND WIRED BY EC.

7. PROVIDE, INSTALL AND WIRE SMOKE DAMPERS TO THE FIRE ALARM SYSTEM AS APPLICABLE. COORDINATE WITH MECHANICAL CONTRACTOR.

HEAT AND SMOKE DETECTORS, ETC. AS PER LOCAL ELEVATOR CODES. PROVIDE REQUIRED FIRE ALARM SYSTEM HARDWARE.



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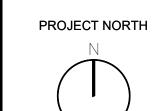
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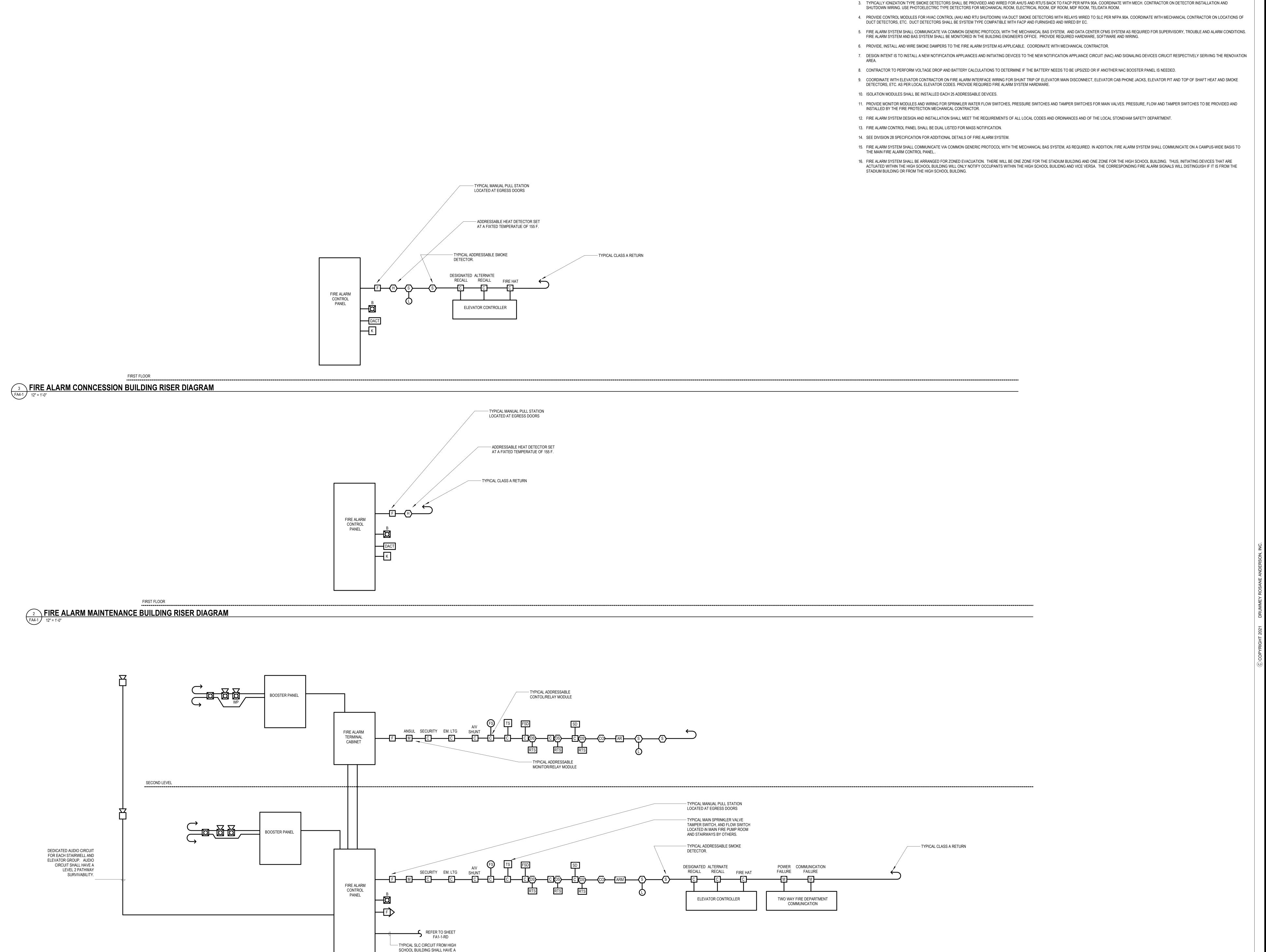
FIRE ALARM
HIGH SCHOOL
BUILDING RISER
DIAGRAM

Scale: 12" = 1'-0"

Job No.: 20202

Drawn By: DRA

FA4-0



LEVEL 3 PATHWAY SURVIVABILITY.

FIRE ALARM LOCKER BUILDING RISER DIAGRAM

12" = 1'-0"



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1. ALL DEVICES AND WIRING SHALL BE COMPATIBLE WITH FACP AND SHALL BE U.L. AND FM CERTIFIED AS A COMPLETE AND OPERABLE SYSTEM. THE FIRE ALARM SYSTEM SHALL BE INSTALLED AND OPERATIONAL IN

2. THIS DIAGRAM DOES NOT DUPLICATE INFORMATION ABOUT PHYSICAL LOCATION OF EQUIPMENT, WHICH IS ALREADY SHOWN ON THE PLANS. THIS DIAGRAM SHOWS SOME PIECES OF EQUIPMENT NECESSARY FOR THE

ACCORDANCE WITH NEC ARTICLE 725, ARTICLE 760, NFPA 72 AND ADA. WIRING SHALL BE CLASS `A' TYPE.

OPERATION OF THE FIRE ALARM SYSTEM, BUT WHICH ARE TYPICALLY OMITTED FROM THE PLANS FOR THE SAKE OF CLARITY.

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School

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MSBA 60% CD SUBMISSION

January 13, 2023

PROJECT NORTH

MAGNETIC NORTH

FIRE ALARM RISER DIAGRAMS

Scale: 12" = 1'-0"

Job No.: 20202

Drawn By: DRA

Date: January 13, 2023

FA4-1