A	ABBREVIATIONS	
(E) (ED)	EXISTING ITEM EXISTING ITEM TO BE DEMOLISHED	1.
(ER) (F)	EXISTING ITEM TO BE RELOCATED FUTURE	
(N) (RL)	NEW EXISTING ITEM RELOCATED	
A A/V, AV	AMP, AMPERE AUDIO VISUAL	2.
AC AF/ AT	AIR CONDITIONING AMP FRAME / AMP TRIP	3.
AFF	ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION	3
AHJ AIC	AMPS INTERUPPTING CURRENT	
AL ARF	ALUMINUM ABOVE RAISED FLOOR	4.
ARF AS/ AFU	ARC FAULT AMP SWITCH / AMP FUSE	
ATS AWG	AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE	5
BLDG C	BUILDING CONDUIT	
CAB CB	CABINET CIRCUIT BREAKER	
CKT CL	CIRCUIT	6
CLF	CENTER LINE CURRENT LIMITING FUSE	
CLG CONTR	CEILING CONTRACTOR	
CONV CT	CONVENIENCE CURRENT TRANSFORMER	
CU D.O.	COPPER DRAWOUT	7
DC DISC	DOOR CONTACT DISCONNECT	
DIST	DISTRIBUTION	
DW DWG		
EC EF	ELECTRICAL CONTRACTOR EXHAUST FAN	
	ELECTRICAL EMERGENCY	8
EMT ENCL	ELECTRICAL METALLIC TUBING	9
EPO	EMERGENCY POWER OFF	
EQUIP EWC	EQUIPMENT ELECTRIC WATER COOLER	
EWH FA	ELECTRIC WATER HEATER FIRE ALARM	1
FDR FIXT	FEEDER FIXTURE	
FL FP	FLOOR FIRE PROTECTION	1
G, GND GEN	GROUND GENERATOR	1
GF	GROUND FAULT	'
GFI HOA	GROUND FAULT INTERRUPTOR HAND OFF AUTOMATIC SWITCH	1
HP HVAC	HORSE POWER HEATING VENTILATION AND AIR	
HWH	CONDITIONING HOT WATER HEATER	1
HZ IG	HERTZ ISOLATED GROUND	1
JB kAIC	JUNCTION BOX KILO AMPERE INTERRUPTING CURRENT	
kCMILS kVA	THOUSAND CIRCULAR MILS KILOVOLT AMPS	1
kW	KILOWATTS	1
LSIG	LONG, SHORT INSTANTANEOUS AND GROUND FAULT TRIP FUNCTION	
LTG MAX	LIGHTING MAXIMUM	1
MB MC	MOTORIZED BACKBOARD METAL CLAD	1
MC MCB	MOTORIZED CURTAIN MAIN CIRCUIT BREAKER	2
MCC MFG	MOTOR CONTROL CENTER MANUFACTURER	
MH MI	MOUNTING HEIGHT MINERAL INSULATED	2
MLO	MAIN LUGS ONLY	
MOD MPS	MOTORIZED OVERHEAD DOOR MOTORIZED PROJECTION SCREEN	2
MS MTD	MOTORIZED SHADES MOUNTED	
MW N	MICROWAVE NEUTRAL	2
NC NIC	NORMALLY CLOSED NOT IN CONTRACT	2
NL NO	NIGHT LIGHT NORMALLY OPEN	
No	NUMBER	2
NTS OFE	NOT TO SCALE OWNER FURNISHED EQUIPMENT	2
P PB	POLES PULL BOX	2
PC PH	PLUMBING CONTRACTOR PHASE	
PL PNL	OUTLET DEVICE WITH PLATE ONLY PANEL	2
PPE PRT	PRE-PURCHASED EQUIPMENT PRINTER	
PT PVC	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE	
PWR	POWER	
QUAD REC	QUADRAPLEX RECESSED	
RECEPT REF	RECEPTACLE REFRIGERATOR	
RF RGS	RETURN FAN RIGID GALVANIZED STEEL	
RM SB	ROOM SCORE BOARD	
SEC	SECONDARY	
SF SKRU	SUPPLY FAN SOLENOID KEY RELEASE UNIT	
SPD SSCAF	SURGE PROTECTION DEVICE SHORT CIRCUIT COORDINATION ARC	
ST	FLASH SHUNT TRIP	
SW SWBD	SWITCH SWITCH BOARD	
SWGR TC	SWITCH GEAR (TEL/COM) TELECOMMUNICATIONS	
TDR TEL	TIME DELAY RELAY	
	TELEPHONE	
TF TP	TRANSFER FAN TAMPER PROOF	

UNDERCOUNTER

UNDERFLOOR

UNIT HEATER

VOLTS

WATTS

VOLT AMPS

WEATHER PROOF

TRANSFORMER

TYPICAL

TWISTED PAIR SHIELDED

UNLESS OTHERWISE NOTED

UNDER COUNTER REFRIGERATOR

UNINTERRUPTIBLE POWER SUPPLY

TPS

TYP

UCR

UF

UON UPS

VA

XFMR

	ABBREVIATIONS	GENERAL NOTES
(E) (ED) (ER) (F)	EXISTING ITEM EXISTING ITEM TO BE DEMOLISHED EXISTING ITEM TO BE RELOCATED FUTURE	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
(N) (RL) A	NEW EXISTING ITEM RELOCATED AMP, AMPERE	<ol> <li>INSTALLATION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER.</li> <li>THE WORK SHALL CONFORM TO THE MORE STRINGENT OF ALL APPLICABLE CODES &amp; REGULATIONS, UL GUIDELINES, MANUFACTURER'S LITERATURE AND RECOMMENDATIONS, AND TO THE REQUIREMENTS OF FEDER.</li> </ol>
A/V, AV AC	AUDIO VISUAL AIR CONDITIONING	STATE AND LOCAL REGULATORY AGENCIES AND AUTHORITIES HAVING JURISDICTION.
AF/ AT AFF	AMP FRAME / AMP TRIP ABOVE FINISHED FLOOR	3. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE EXTENT, GENERAL CHARACTER, LOCATION A ARRANGEMENT OF THE WORK UNDER THIS CONTRACT. WHERE JOB CONDITIONS REQUIRE MINOR CHANGES OR
AHJ	AUTHORITY HAVING JURISDICTION	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
AIC AL	AMPS INTERUPPTING CURRENT ALUMINUM	UNSAFE ACCESSIBILITY.
ARF ARF	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
AS/ AFU	AMP SWITCH / AMP FUSE	APPLICABLE CODES. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO EQUIPMENT AND RELATED ACCESSORIES.
ATS AWG	AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE	5. THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN
BLDG C	BUILDING CONDUIT	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,
CAB	CABINET	EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
CB CKT	CIRCUIT BREAKER CIRCUIT	6. THE CM/GC SHALL MAKE SETS OF THE BID DOCUMENTS CONSISTING OF COMPLETE SETS OF DRAWINGS AND
CL CLF	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
CLG CONTR	CEILING CONTRACTOR	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
CONV	CONVENIENCE	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
CT CU	CURRENT TRANSFORMER COPPER	DOCUMENTS. BIDDERS ARE RESPONSIBLE FOR ALL COSTS FOR EACH SET OF BID DOCUMENTS REQUESTED.
).O. )C	DRAWOUT DOOR CONTACT	7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL COORDINATION EFFORT IN ORDER TO CREATE A FINALIZ COORDINATED LAYOUT OF ALL EQUIPMENT, SYSTEMS, DUCTWORK, PIPING AND ALL OTHER ITEMS WITHIN THEIR
DISC	DISCONNECT DISTRIBUTION	RESPECTIVE SCOPE. THE CONTRACTOR'S COORDINATION EFFORT SHALL INCLUDE COORDINATED INFORMATION FROM ALL OTHER TRADE CONTRACTOR'S INVOLVED IN THE PROJECT SCOPE IN ORDER TO PROVIDE
DIST DW	DISHWASHER	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
DWG EC	DRAWING ELECTRICAL CONTRACTOR	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
EF ELEC	EXHAUST FAN ELECTRICAL	CONDITIONS ARE AT THE CONTRACTORS DISCRETION AND DO NOT REQUIRE ENGINEER APPROVAL.
EM, EMERG	EMERGENCY	8. CONTRACTOR SHALL ARRANGE AND OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS, AND PAY ALL RELATE FEES.
EMT ENCL	ELECTRICAL METALLIC TUBING ENCLOSURE	9. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS BASED UPON INFORMATION OBTAINED WITHOUT REMOVING
EPO EQUIP	EMERGENCY POWER OFF EQUIPMENT	CEILING TILES OR WALLS. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS TADDRESS CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS. ANY CHANGES AND/OR MODIFICATIONS
EWC EWH	ELECTRIC WATER COOLER ELECTRIC WATER HEATER	MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
=A	FIRE ALARM	10. FOR ANY DISCREPANCY BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BASE THEIR B
FDR FIXT	FEEDER FIXTURE	UPON THE MOST STRINGENT REQUIREMENT (QUALITY, QUANTITY, SIZE, ETC.). THE CONTRACTOR SHALL IDENTIF DISCREPANCIES AS PART OF THEIR BID.
=L =P	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.
G, GND GEN	GROUND GENERATOR	12. ALL SERVICES TO EXISTING BUILDINGS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE
€F	GROUND FAULT	INDICATED. CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUT DOWNS AND TIMING WITH OWNER.
GFI HOA	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.
HP HVAC	HORSE POWER HEATING VENTILATION AND AIR	PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE ITEMS DAMAGED.
HWH	CONDITIONING HOT WATER HEATER	14. EXISTING EQUIPMENT THAT INTERFERES WITH NEW ARRANGEMENT SHALL BE REMOVED, REINSTALLED, RELOCATED, REROUTED, EXTENDED OR ABANDONED AS REQUIRED, TO SUIT THE NEW ARRANGEMENT.
HZ G	HERTZ ISOLATED GROUND	15. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK AND/OR PIPING, CAREFULLY COORDINATE
IB :AIC	JUNCTION BOX KILO AMPERE INTERRUPTING CURRENT	SIZES AND LOCATIONS OF THE ELEMENTS BEFORE FABRICATION. COORDINATE WITH FINAL LOCATION OF BEAM PENETRATIONS AND SHEAR WALL PENETRATIONS.
CMILS VA	THOUSAND CIRCULAR MILS KILOVOLT AMPS	16. CONTRACTOR SHALL COORDINATE LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS WITH STRUCTURAL AN OTHER TRADES.
:W .SIG	KILOWATTS 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.
.TG	LIGHTING	18. WHEN WORK INVOLVES CONTACT WITH MATERIALS CONTAINING ASBESTOS, PCB, OR OTHER TOXIC MATERIALS, NOTIFY OWNER, WHO WILL ESTABLISH PROCEDURES FOR REMEDIATION AND REMOVAL.
MAX MB	MAXIMUM MOTORIZED BACKBOARD	19. CONTRACTOR SHALL SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO
MC MC	METAL CLAD MOTORIZED CURTAIN	DELAY THE OVERALL PROGRESS OF THE PROJECT.
MCB MCC	MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER	20. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS.
MFG MH	MANUFACTURER MOUNTING HEIGHT	21. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER SPECIFICATIONS PRIOR TO PURCHASING OR INSTALLING
MI	MINERAL INSULATED	EQUIPMENT AND SYSTEMS INDICATED ON CONTRACT DOCUMENTS. PRIOR TO SUBMITTAL, CONTRACTOR SHALL VERIFY THAT ADEQUATE SPACE EXISTS FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED
MLO MOD	MAIN LUGS ONLY MOTORIZED OVERHEAD DOOR	BY ARCHITECT/ENGINEER.
MPS MS	MOTORIZED PROJECTION SCREEN MOTORIZED SHADES	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
MTD MW	MOUNTED MICROWAVE	OF ADDITIONAL ELECTRICAL SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR.
N N NC	NEUTRAL NORMALLY CLOSED	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
NIC	NOT IN CONTRACT	24. CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF EACH DAY.
NO NO	NIGHT LIGHT NORMALLY OPEN	25. RESTORE ALL SURFACES (WALLS, CEILINGS, FLOORS AND ROOFS) THAT ARE DAMAGED BY THE WORK OF THIS
lo ITS	NUMBER NOT TO SCALE	CONTRACT TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER.
DFE	OWNER FURNISHED EQUIPMENT	26. PRIOR TO EQUIPMENT STARTUP, CONTRACTOR SHALL PERFORM THE SPECIFIED STARTUP AND COMMISSIONING PROCEDURES.
PB	POLES PULL BOX	27. IN THE ABSENCE OF OTHER SPECIFIC INSTRUCTIONS, ALL WORK AND MATERIALS SUPPLIED SHALL BE
PH PH	PLUMBING CONTRACTOR PHASE	GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER.
PL PNL	OUTLET DEVICE WITH PLATE ONLY PANEL	28. BALA CONSULTING ENGINEERS, INC. (BALA) WILL PROVIDE CONTRACTOR WITH ELECTRONIC CADD FILES OF THE ENGINEERING DESIGNS FOR THE SOLE USE IN EXPEDITING SHOP DRAWINGS. BALA'S FILES SHALL NOT BE
PPE PRT	PRE-PURCHASED EQUIPMENT PRINTER	DIRECTLY COPIED AND ISSUED AS SHOP DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE
РΤ	POTENTIAL TRANSFORMER	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
PVC PWR	POLYVINYL CHLORIDE POWER	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
QUAD REC	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
RECEPT	RECEPTACLE	"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
REF RF	REFRIGERATOR RETURN FAN	REUSE BY CONTRACTOR IS UNLAWFUL.
RGS RM	RIGID GALVANIZED STEEL ROOM	
SB SEC	SCORE BOARD SECONDARY	
SF	SUPPLY FAN	
SKRU SPD	SOLENOID KEY RELEASE UNIT SURGE PROTECTION DEVICE	
SSCAF	SHORT CIRCUIT COORDINATION ARC FLASH	
ST SW	SHUNT TRIP SWITCH	
SWBD	SWITCH CEAR	

#### K TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL NT, MATERIALS, LABOR AND SERVICES AND PERFORMING ALL OPERATIONS TO COMPLETE THE JCTION WORK FOR THIS PROJECT. ANY WORK NOT SPECIFICALLY COVERED BY THESE SPECIFICATIONS ATED ON THE CONTRACT DRAWINGS, BUT NECESSARY TO COMPLETE OR PERFECT ANY PART OF THIS ITION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER.

- WINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE EXTENT. GENERAL CHARACTER. LOCATION AND EMENT OF THE WORK UNDER THIS CONTRACT. WHERE JOB CONDITIONS REQUIRE MINOR CHANGES OR MENTS IN THE INDICATED LOCATIONS OR ARRANGEMENT OF THE WORK, SUCH CHANGES SHALL BE D WITHOUT EXTRA COST. THE CONTRACTOR SHALL RE-INSTALL EQUIPMENT THAT HAS INADEQUATE OR
- ITION OF WORK SHALL PROVIDE REASONABLE ACCESSIBILITY FOR OPERATION, INSPECTION AND NANCE OF EQUIPMENT AND ACCESSORIES. PROVIDE CLEARANCES REQUIRED BY MANUFACTURERS AND 3LE CODES. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT LIGHTS,
- ND 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 SITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM IICAL WORK", "ELECTRICAL WORK", "PLUMBING WORK", ETC. SHALL MEAN ALL LABOR, MATERIAL, NT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR E AND OPERABLE INSTALLATION.
- SHALL MAKE SETS OF THE BID DOCUMENTS CONSISTING OF COMPLETE SETS OF DRAWINGS AND ATIONS; AND ISSUE THEM TO EACH OF THE PRIME AND SUB-CONTRACTORS. EVERY PRIME AND SUB-CTOR ON EACH BIDDING TEAM SHALL RECEIVE COMPLETE SETS OF DRAWINGS AND ATIONS. THERE ARE NOTES AND CROSS REFERENCES FOR VARIOUS TRADE CONTRACTORS IN MULTIPLE R DISCIPLINE DRAWINGS AND SPECIFICATIONS, THUS, EACH CONTRACTOR IS TO RECEIVE COMPLETE THE BID DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE DRAWINGS FROM EACH CONTRACTOR IS RESPONSIBLE FOR THEIR WORK, AS NOTED ON THE OTHER DISCIPLINE NTS. BIDDERS ARE RESPONSIBLE FOR ALL COSTS FOR EACH SET OF BID DOCUMENTS REQUESTED.
- TOR IS RESPONSIBLE FOR PROVIDING A FULL COORDINATION EFFORT IN ORDER TO CREATE A FINALIZED ATED LAYOUT OF ALL EQUIPMENT, SYSTEMS, DUCTWORK, PIPING AND ALL OTHER ITEMS WITHIN THEIR TIVE SCOPE. THE CONTRACTOR'S COORDINATION EFFORT SHALL INCLUDE COORDINATED INFORMATION OTHER TRADE CONTRACTOR'S INVOLVED IN THE PROJECT SCOPE IN ORDER TO PROVIDE ATION BETWEEN TRADES AND ALL EXISTING CONDITIONS. ALL ERRORS MADE AS A RESULT OF A LACK OF ATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND CORRECTED AT NO ADDITIONAL COST ROJECT. MINOR RELOCATIONS AND SHIFTS OF EQUIPMENT, DUCTWORK, AND PIPING WHICH DO NOT THE DESIGN INTENT INDICATED ON THE CONTRACT DOCUMENTS. REQUIRED TO ACCOMMODATE FIELD. ONS ARE AT THE CONTRACTORS DISCRETION AND DO NOT REQUIRE ENGINEER APPROVAL.
- CTOR SHALL ARRANGE AND OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS, AND PAY ALL RELATED VINGS INDICATE APPROXIMATE LOCATIONS BASED UPON INFORMATION OBTAINED WITHOUT REMOVING
- FILES OR WALLS. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS TO S CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS. ANY CHANGES AND/OR MODIFICATIONS REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO
- E MOST STRINGENT REQUIREMENT (QUALITY, QUANTITY, SIZE, ETC.). THE CONTRACTOR SHALL IDENTIFY ANCIES AS PART OF THEIR BID.
- DEMOLITION, THE CONTRACTOR SHALL LOG ALL EXISTING EQUIPMENT AND TRACE ELECTRICAL, FIRE
- IND CONTROL CIRCUITS THAT SERVE SUCH EQUIPMENT. /ICES TO EXISTING BUILDINGS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE
- . CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUT DOWNS AND TIMING WITH OWNER.
- TRACTOR SHALL EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM ENVIRONMENTAL AND L DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. NEW MATERIALS AND EQUIPMENT TO REPLACE ITEMS DAMAGED.
- EQUIPMENT THAT INTERFERES WITH NEW ARRANGEMENT SHALL BE REMOVED, REINSTALLED, ED, REROUTED, EXTENDED OR ABANDONED AS REQUIRED, TO SUIT THE NEW ARRANGEMENT. EAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK AND/OR PIPING, CAREFULLY COORDINATE D LOCATIONS OF THE ELEMENTS BEFORE FABRICATION. COORDINATE WITH FINAL LOCATION OF BEAM
- CTOR SHALL COORDINATE LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS WITH STRUCTURAL AND
- CUTTING AND PATCHING AS REQUIRED AND WHERE NECESSARY TO ACCOMMODATE NEW WORK AND THE F EXISTING WORK.
- ORK INVOLVES CONTACT WITH MATERIALS CONTAINING ASBESTOS, PCB, OR OTHER TOXIC MATERIALS, WNER, WHO WILL ESTABLISH PROCEDURES FOR REMEDIATION AND REMOVAL. CTOR SHALL SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO
- OVERALL PROGRESS OF THE PROJECT. CTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND CUTTING OPENINGS.
- TOR SHALL PROVIDE SHOP DRAWINGS PER SPECIFICATIONS PRIOR TO PURCHASING OR INSTALLING NT AND SYSTEMS INDICATED ON CONTRACT DOCUMENTS. PRIOR TO SUBMITTAL, CONTRACTOR SHALL THAT ADEQUATE SPACE EXISTS FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED CTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY OTHER TRADES DUE TO SUBSTITUTION OF
- HAN SCHEDULED EQUIPMENT. WHEN EQUIPMENT FURNISHED IS DIFFERENT THAN INDICATED, THE COST IONAL ELECTRICAL SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR. K SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE DONE IN ACCORDANCE
- OD TRADE PRACTICE AND IN CONFORMANCE WITH APPLICABLE MANUFACTURERS' RECOMMENDATIONS. CTOR SHALL REMOVE ALL TRASH, DEBRIS AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF
- E ALL SURFACES (WALLS, CEILINGS, FLOORS AND ROOFS) THAT ARE DAMAGED BY THE WORK OF THIS TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER.
- DEQUIPMENT STARTUP, CONTRACTOR SHALL PERFORM THE SPECIFIED STARTUP AND COMMISSIONING
- BSENCE OF OTHER SPECIFIC INSTRUCTIONS, ALL WORK AND MATERIALS SUPPLIED SHALL BE TEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER. NSULTING ENGINEERS, INC. (BALA) WILL PROVIDE CONTRACTOR WITH ELECTRONIC CADD FILES OF THE
- ERING DESIGNS FOR THE SOLE USE IN EXPEDITING SHOP DRAWINGS. BALA'S FILES SHALL NOT BE COPIED AND ISSUED AS SHOP DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD TION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE ATIONS. SHOULD THE SHOP DRAWINGS SUBMITTED PROVE TO BE A DIRECT COPY OF OUR FILES THE NECESSARY FIELD COORDINATION. DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING EMENTS AS NOTED IN THE SPECIFICATIONS, THESE SHOP DRAWINGS WILL BE RETURNED AS REJECTED. LECTRONIC FILES ARE SAVED IN VERSION REVIT 2021 AND ARE COMPATIBLE WITH ALL VERSIONS AFTER ALA MAKES NO REPRESENTATION AS TO THE COMPATIBILITY OF THESE FILES WITH THE CONTRACTOR'S RE OR THEIR SOFTWARE. DATA CONTAINED ON THESE ELECTRONIC FILES ARE PART OF BALA'S MENTS OF SERVICE" AND ARE COPYRIGHTED. CONTRACTOR'S USE OF FILES IS FOR THE SOLE PURPOSE IVENIENCE IN THE PREPARATION OF DRAWINGS FOR THE REFERENCED PROJECT. ANY OTHER USE OR Y CONTRACTOR IS UNLAWFUL.

## 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 REQUIRED.
- 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

EXISTING BASE BUILDING FIRE ALARM SYSTEM.

- THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING FIRE ALARM SYSTEM CONDITION PRIOR TO
- COORDINATE WITH THE BUILDING'S FIRE ALARM VENDOR FOR CONNECTION OF NEW FIRE ALARM DEVICES TO THE
- THE CONTRACTOR SHALL PAY ALL CHARGES FOR THE CONNECTION TO, MODIFICATIONS TO THE EXISTING SYSTEM 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.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, AMERICANS DISABILITY ACT (ADA), NFPA 72 NATIONAL FIRE ALARM CODE, FIRE DEPARTMENT RULES AND REGULATIONS, APPLICABLE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE WITH AMENDMENTS AND THE LANDLORDS DESIGN CRITERIA REQUIREMENTS FOR TENANT ALTERATIONS.
- UPON COMPLETION OF ALL FIRE ALARM WORK AND ASSOCIATED TESTS, THE CONTRACTOR SHALL FILE AN APPLICATION WITH THE FIRE DEPARTMENT FOR A CERTIFICATE OF APPROVAL OF THE SYSTEM.
- . 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
- 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
- c. 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.
- 9. 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.
- 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.

2. WHERE SHIELDED WIRING IS USED, SPLICE AND INSULATE DRAIN WIRE FOR THE FULL LENGTH OF THE WIRE RUN.

- 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	<ul> <li>WALL MOUNTED BELLS AND FIRE ALARM SOUNDING DEVICE OR AS SHOWN ON ARCHITECTURAL DETAILS)</li> <li>TV MONITOR OUTLET AND SERVICE RECEPTACLE FOR SHELF MOUNTED TV</li> </ul>							
ERED 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.

MOUNTING HEIGHT NOTES

2. ALL DEVICES SHOWN ON DRAWINGS ARE DIAGRAMMATIC IN LOCATION AND SHOWN FOR GENERAL WIRING PURPOSES ONLY. ALL DEVICES INDICATED TO BE INSTALLED IN THE SAME LOCATIONS WITH DIFFERENT ELEVATIONS SHALL BE ALIGNED VERTICALLY AND HORIZONTALLY. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE ALARM NOTIFICATION DEVICES AND FIRE ALARM PULL STATIONS. 3. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH 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.

- REMOTE TEST STATION FOR DUCT SMOKE DETECTOR. DIGITAL ALARM COMMUNICATOR TRANSMITTER **BOOSTER PANEL** AR TWO-WAY FIRE DEPARTMENT COMMUNICATION STATION
- ARM TWO-WAY FIRE DEPARTMENT COMMUNICATION MASTER STATION MH MAGNETIC DOOR HOLDER FDS 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

FA4-1 FIRE ALARM RISER DIAGRAMS

☑ REMOVED FROM DRAWING SET

O | NEW ISSUE | ● | REVISED ISSUE | ◆ | REVISED, NOT ISSUED

DOB FIRE ALARM FILING NOTE

THIS PLAN IS APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER

AUDIBLE NOTIFICATION DESIGN CRITERIA

AMBIENT LEVELS

55 dBA

50 dBA

DESIGN GOALS

70 dBA

60 dBA

100 dBA

70 dBA

65 dBA

MATTERS SHOWN ARE NOT TO BE REILED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN

ACCEPTANCE WITH ANY APPLICABLE CODES.

AUDIBLE NOTIFICATION DEVICES

DESIGN CRITERIA

CORRIDORS

CLASSROOMS

MECHANICAL ROOMS

PLACES OF ASSEMBLY

INSTITUTIONAL

MERCANTILE

	DRAWING LIST - FIR	RE Al	_AR	M						
DRAWING NUMBER	DRAWING TITLE	05-18-2021 SCHEMATIC DESIGN	06-23-2022 DESIGN DEVELOPMENT COST ESTIMATE SET	08-05-22 MSBA DESIGN DEVELOPMENT SUBMISSION						
FA0-1	FIRE ALARM LEGENDS, ABBREVIATIONS, AND GENERAL NOTES		<u>o</u>	•						
FA1-1-0C	FIRE ALARM LOWER LEVEL FLOOR PLAN - AREA C		O	•						
FA1-1-0D	FIRE ALARM LOWER LEVEL FLOOR PLAN - AREA D		O	•						
FA1-1-1A	FIRE ALARM FIRST FLOOR PLAN - AREA A		O	•						
FA1-1-1B	FIRE ALARM FIRST FLOOR PLAN - AREA B		O	•						
FA1-1-1C	FIRE ALARM FIRST FLOOR PLAN - AREA C		O	•						
FA1-1-1D	FIRE ALARM FIRST FLOOR PLAN - AREA D		O	•						
FA1-1-1MA	FIRE ALARM FIRST FLOOR MEZZANINE PLAN - AREA A		0	•						
FA1-1-2A	FIRE ALARM SECOND FLOOR PLAN - AREA A		O	•						
FA1-1-2B	FIRE ALARM SECOND FLOOR PLAN - AREA B		O	•						
FA1-1-2C	FIRE ALARM SECOND FLOOR PLAN - AREA C		O	•						
FA1-1-2D	FIRE ALARM SECOND FLOOR PLAN - AREA D		O	•						
FA1-1-3A	FIRE ALARM THIRD FLOOR PLAN - AREA A		0	•						
FA1-1-3B	FIRE ALARM THIRD FLOOR PLAN - AREA B		0	•						
FA1-1-3C	FIRE ALARM THIRD FLOOR PLAN - AREA C		O	•						
FA1-1-3D	FIRE ALARM THIRD FLOOR PLAN - AREA D		O	•						
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	•						
FA1-1-CB	FIRE ALARM CONCESSION BUILDING PLAN		0	•						
FA1-1-LB	FIRE ALARM LOCKER BUILDING PLAN		0	•						
FA1-1-MB	FIRE ALARM MAINTENANANCE BUILDING PLAN		0	•						
FA1-1-MC	FIRE ALARM LOWER LEVEL MEZZANINE PLAN - AREA C		0	•						
FA1-2-1A	FIRE ALARM ROOF PLAN - AREA A		0	•						
FA1-2-1B	FIRE ALARM ROOF PLAN - AREA B		0	•						
FA1-2-1C	FIRE ALARM ROOF PLAN - AREA C		O	•						
FA1-2-1D	FIRE ALARM ROOF PLAN - AREA D		O	•						
FA4-0	FIRE ALARM HIGH SCHOOL BUILDING RISER DIAGRAM		O	•						
L ∧ / 1	THE AL ALANDERS IN THE ALANDES AND A STREET	1	1 ()	_	1	1	1	1	1	

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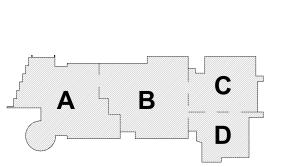
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DEVELOPMENT August 4th, 2022

MSBA DESIGN



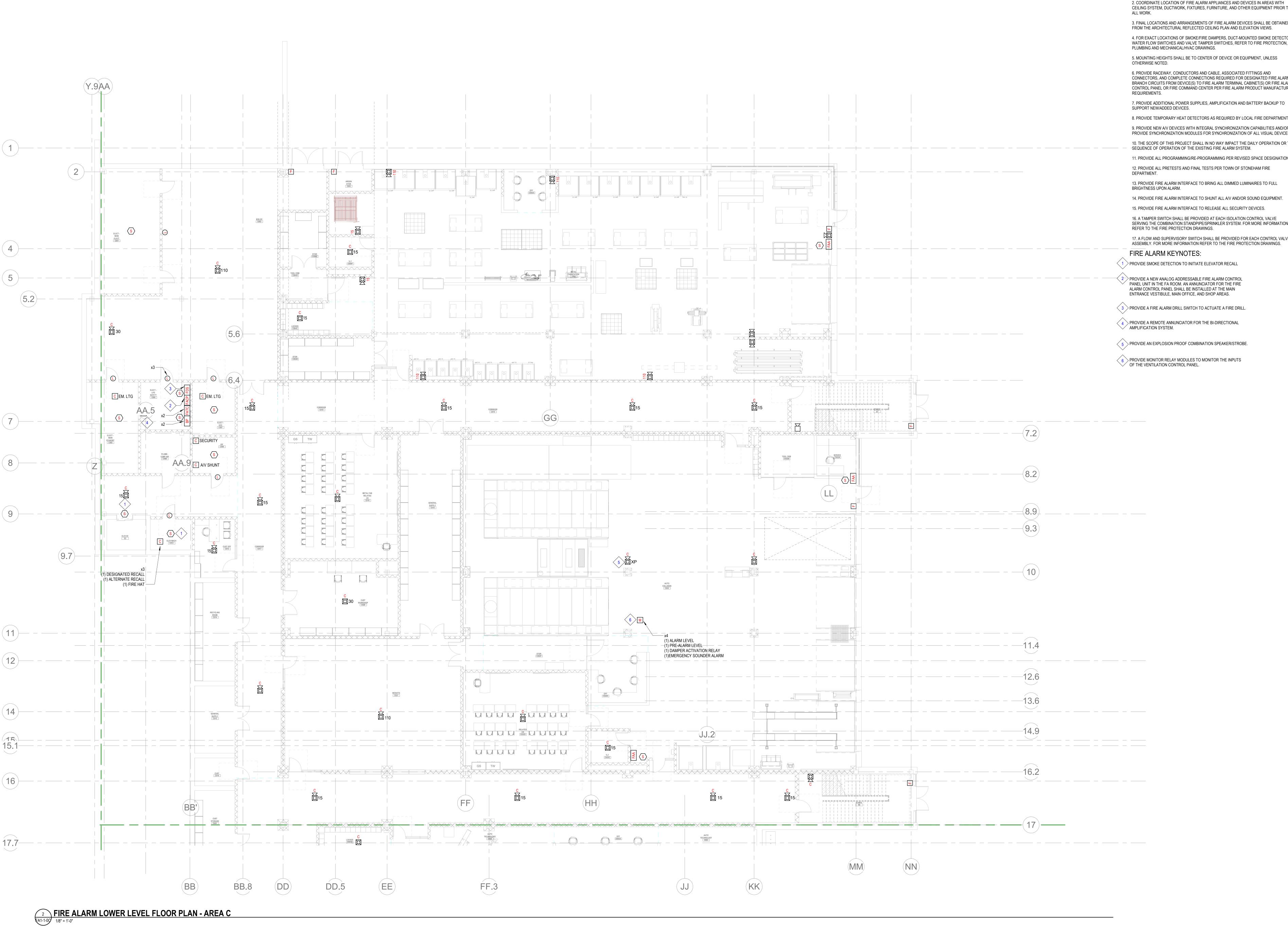
KEY PLAN

PROJECT NORTH MAGNETIC NORTH

FIRE ALARM LEGENDS,

Drawn By:

Date: August 4th, 2022





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,

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

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 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

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.

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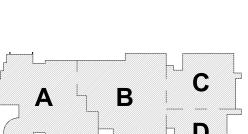
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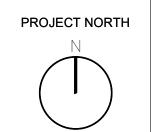
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DEVELOPMENT SUBMISSION August 4th, 2022

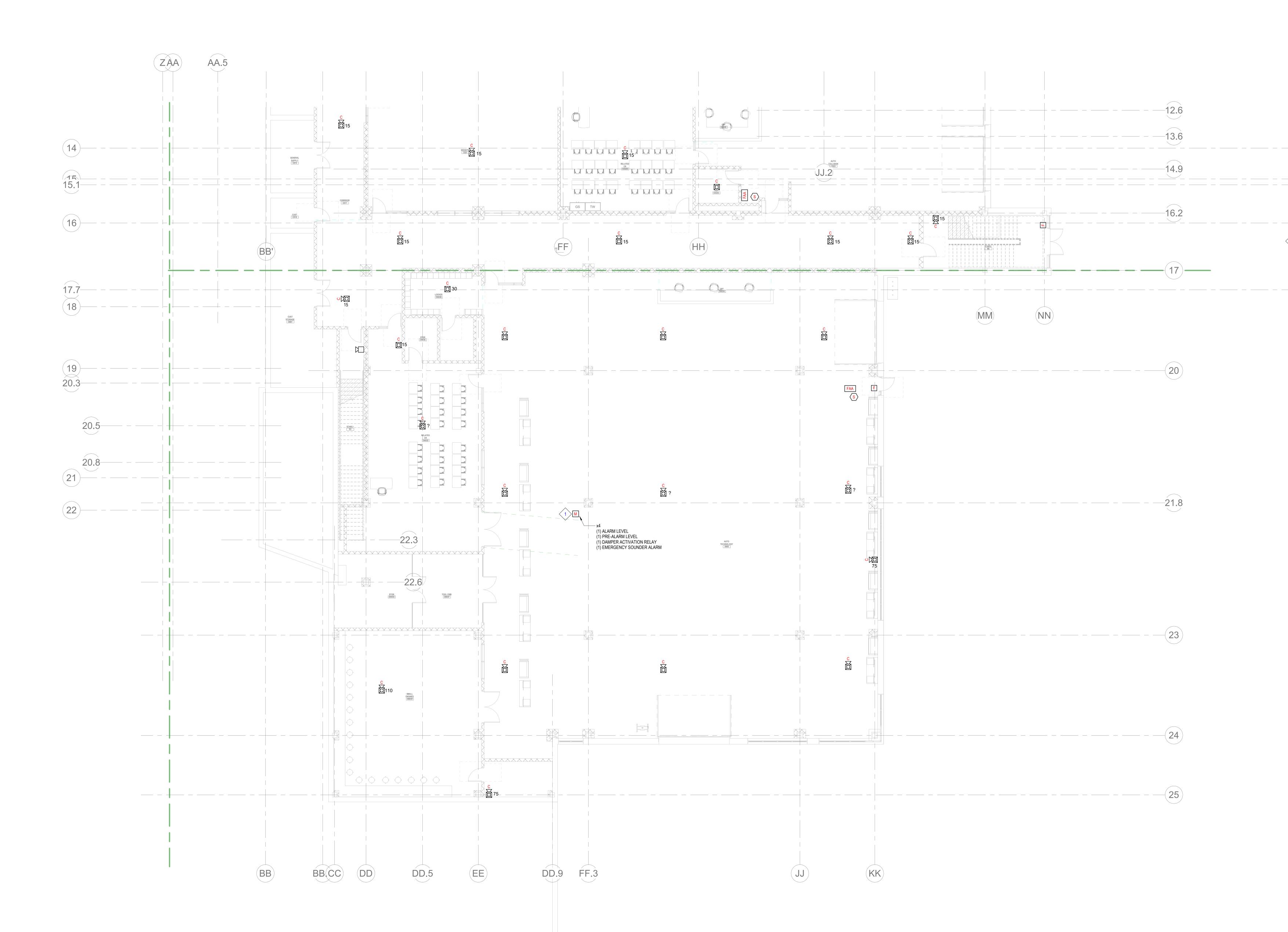
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**KEY PLAN** 



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



FIRE ALARM LOWER LEVEL 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. 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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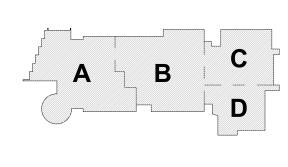
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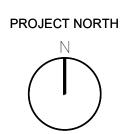


DEVELOPMENT SUBMISSION August 4th, 2022

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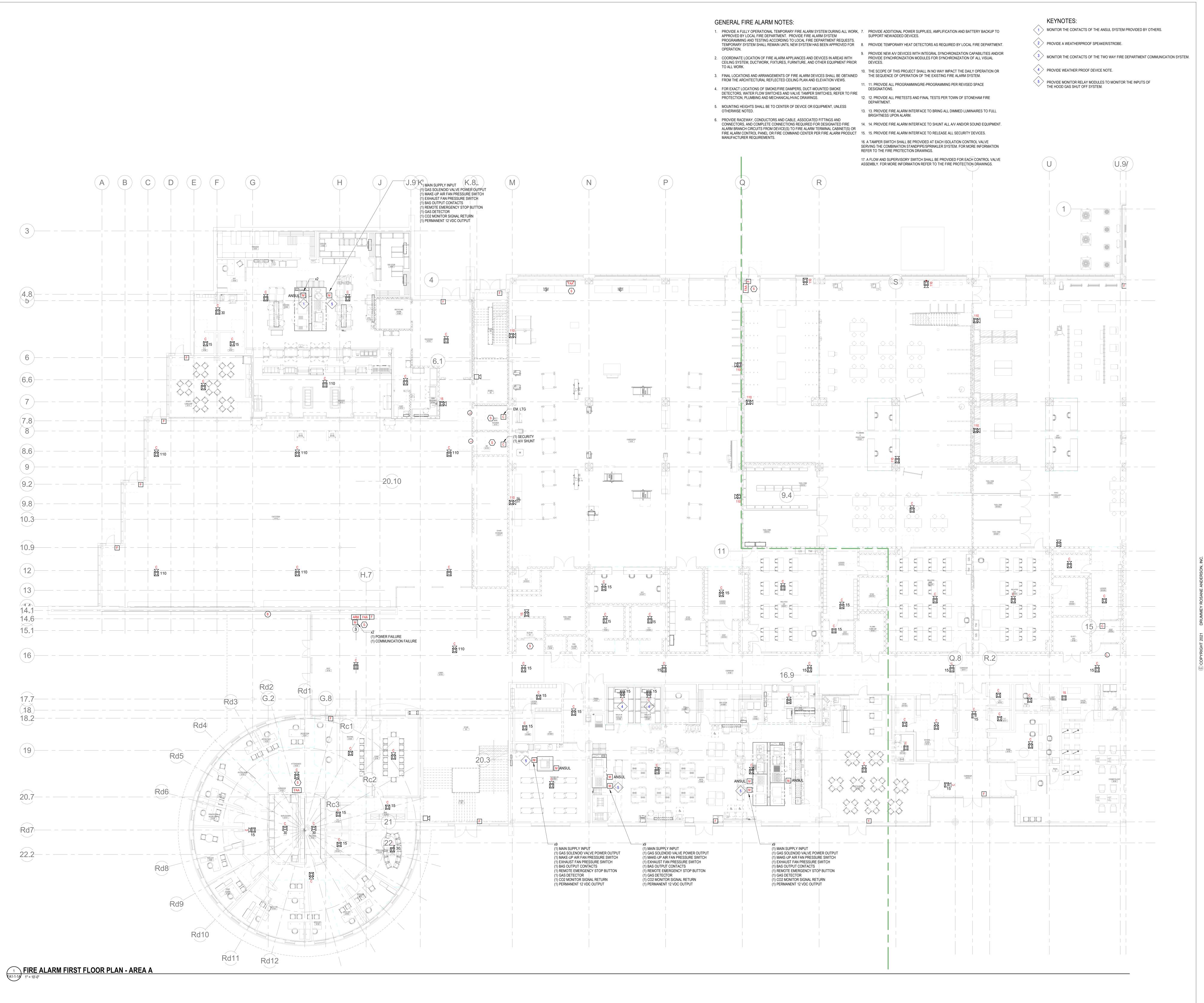
**KEY PLAN** 



FIRE ALARM **LOWER LEVEL FLOOR PLAN -**

AREA D

FA1-1-0D





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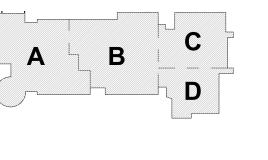
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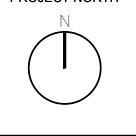
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KEY PLAN

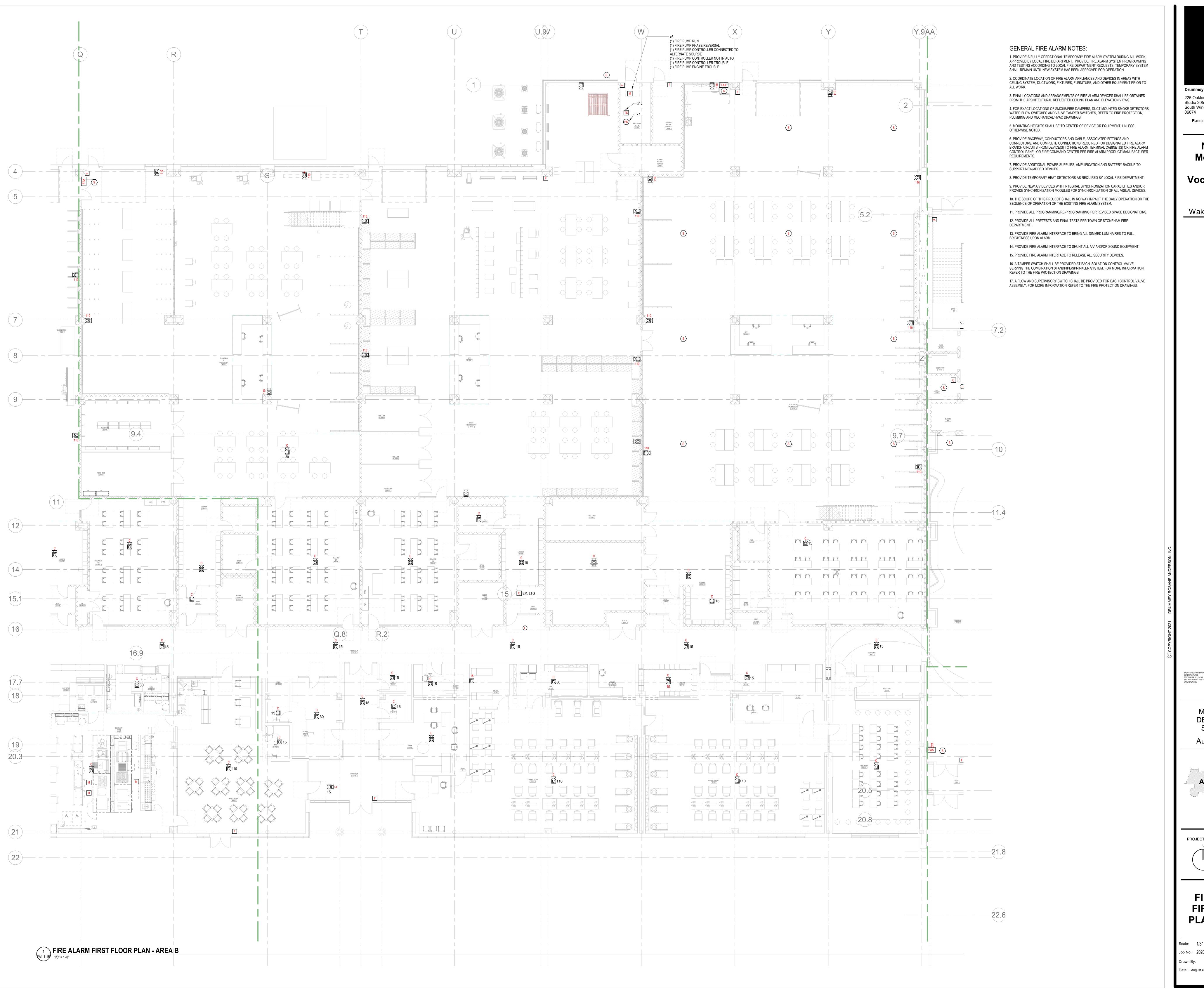
MAGNETIC NORTH

PROJECT NORTH



FIRE ALARM FIRST FLOOR PLAN - AREA A

Drawn By: DRA





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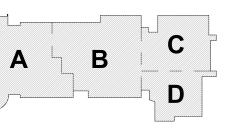
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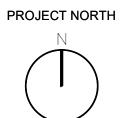
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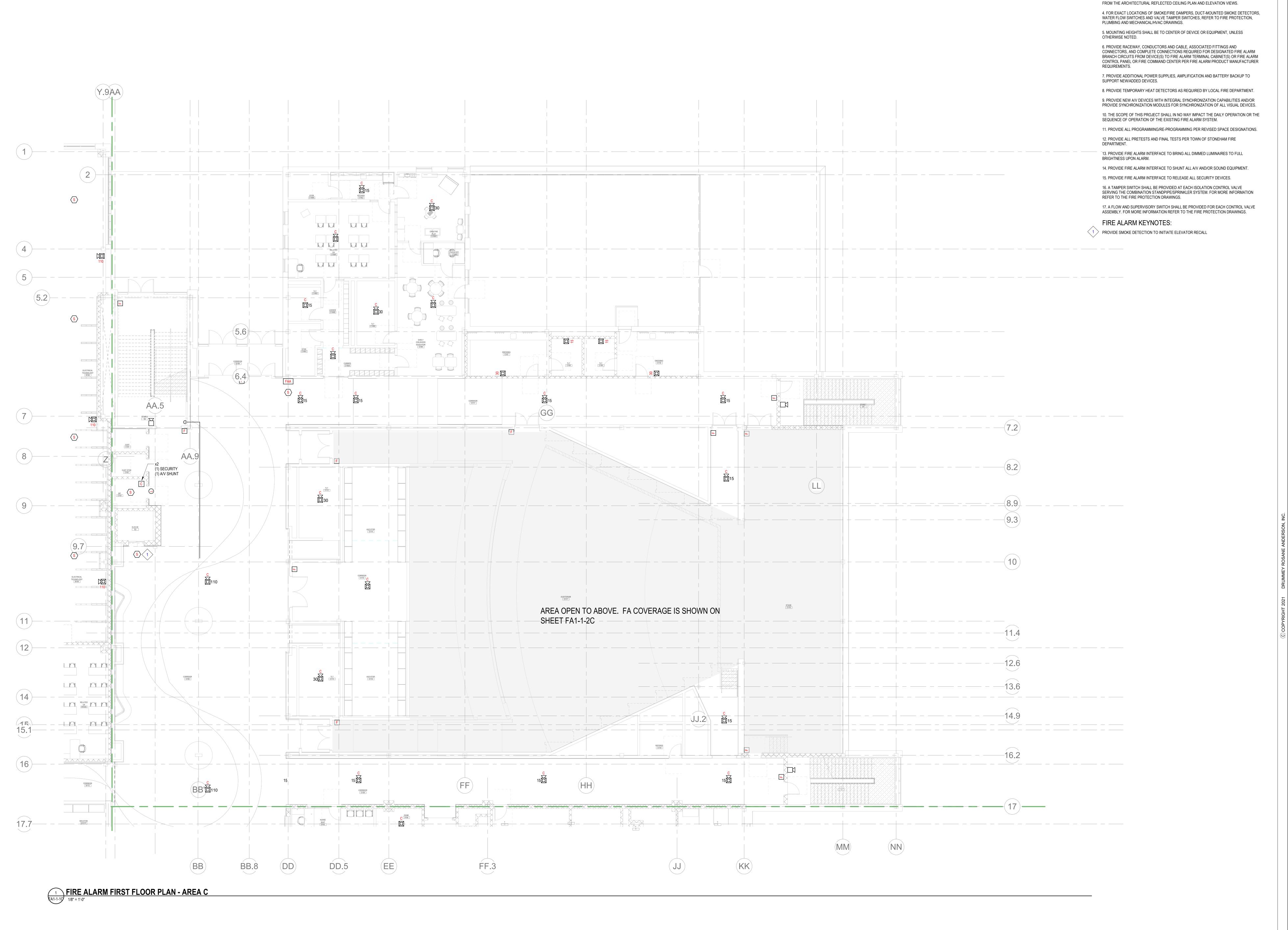
**KEY PLAN** 

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

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

SHALL REMAIN UNTIL NEW SYSTEM HAS BEEN APPROVED FOR OPERATION.

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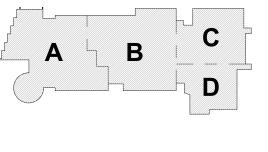
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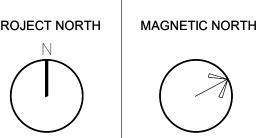
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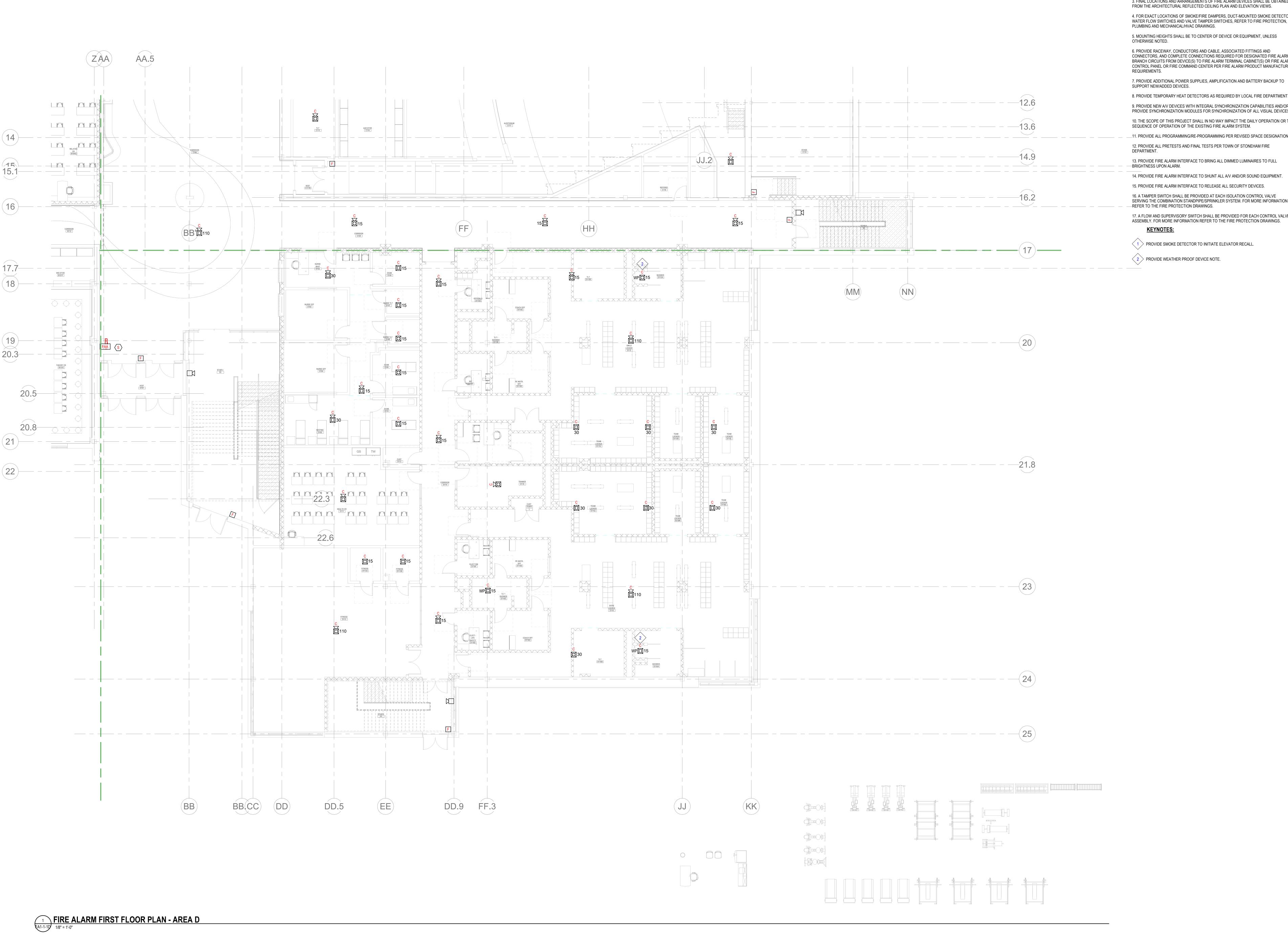


**KEY PLAN** 

PROJECT NORTH



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



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.

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

1 PROVIDE SMOKE DETECTOR TO INITIATE ELEVATOR RECALL.

2 PROVIDE WEATHER PROOF DEVICE NOTE.

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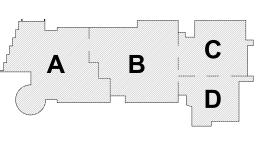
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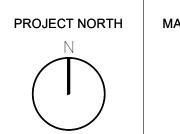
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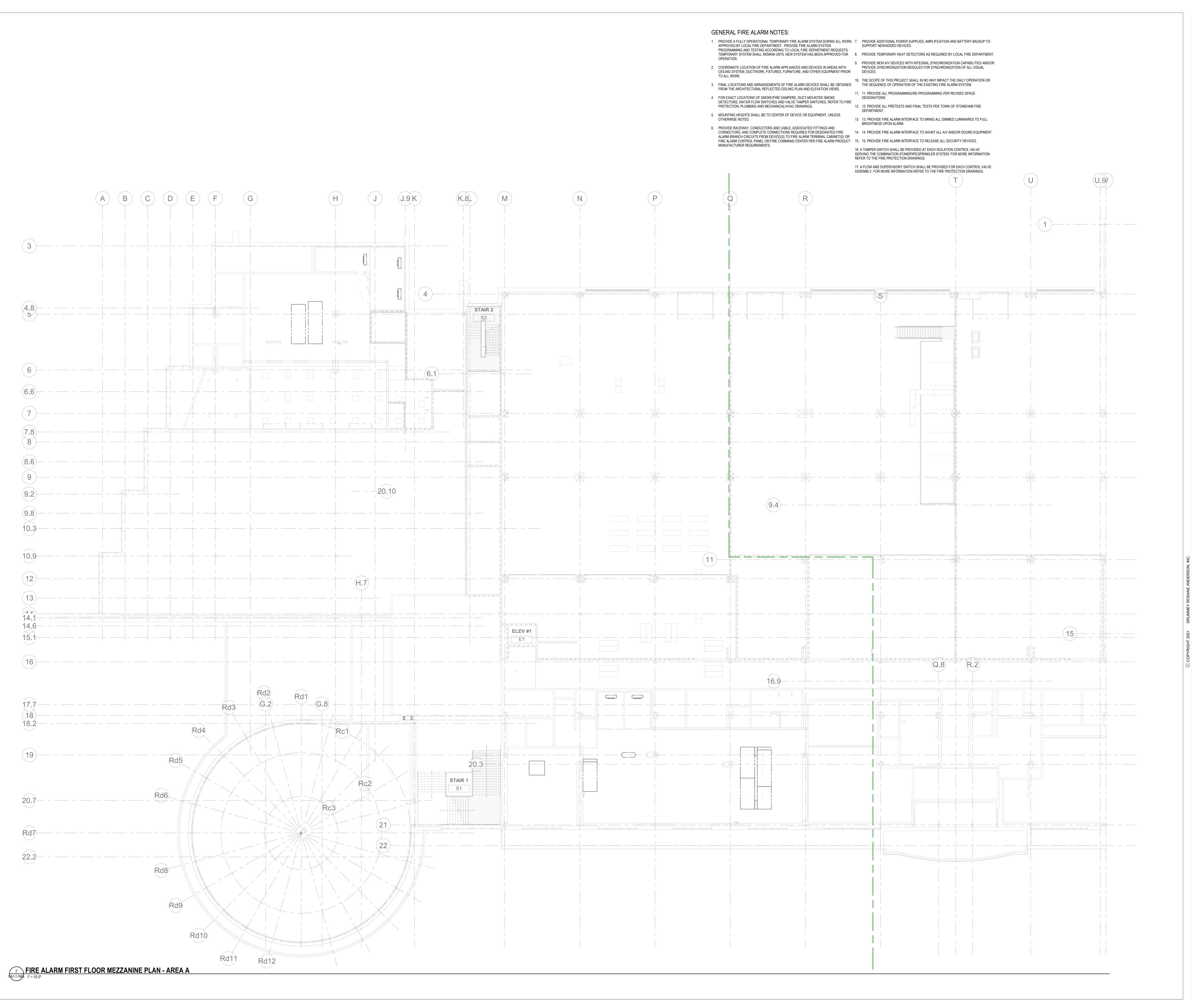
**KEY PLAN** 

MAGNETIC NORTH



FIRE ALARM FIRST FLOOR PLAN - AREA D

FA1-1-1D





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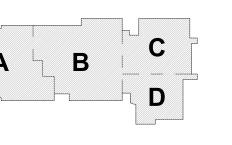
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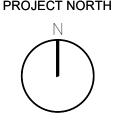
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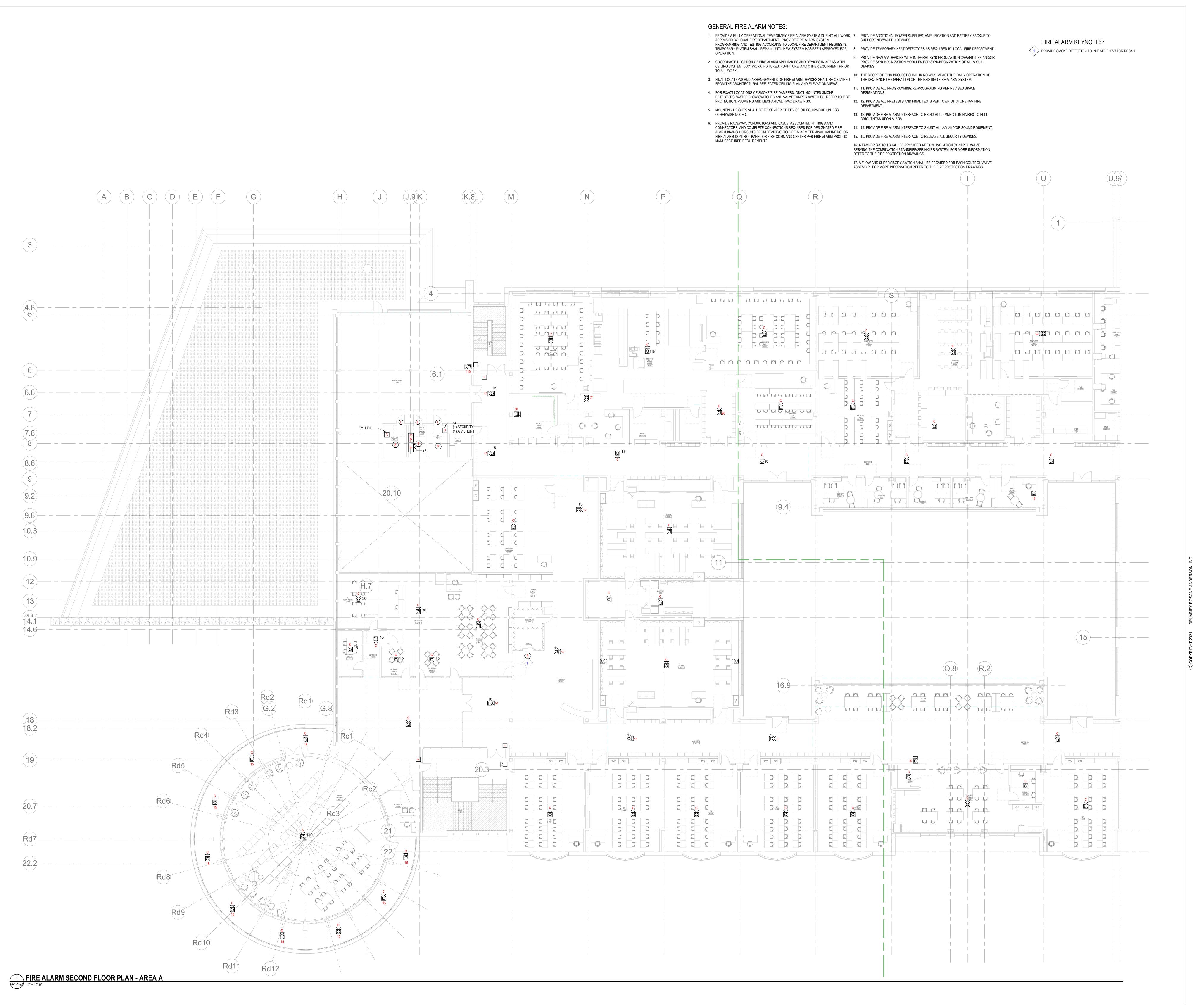


**KEY PLAN** 



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

Drawn By: DRA FA1-1-1MA





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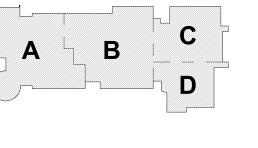
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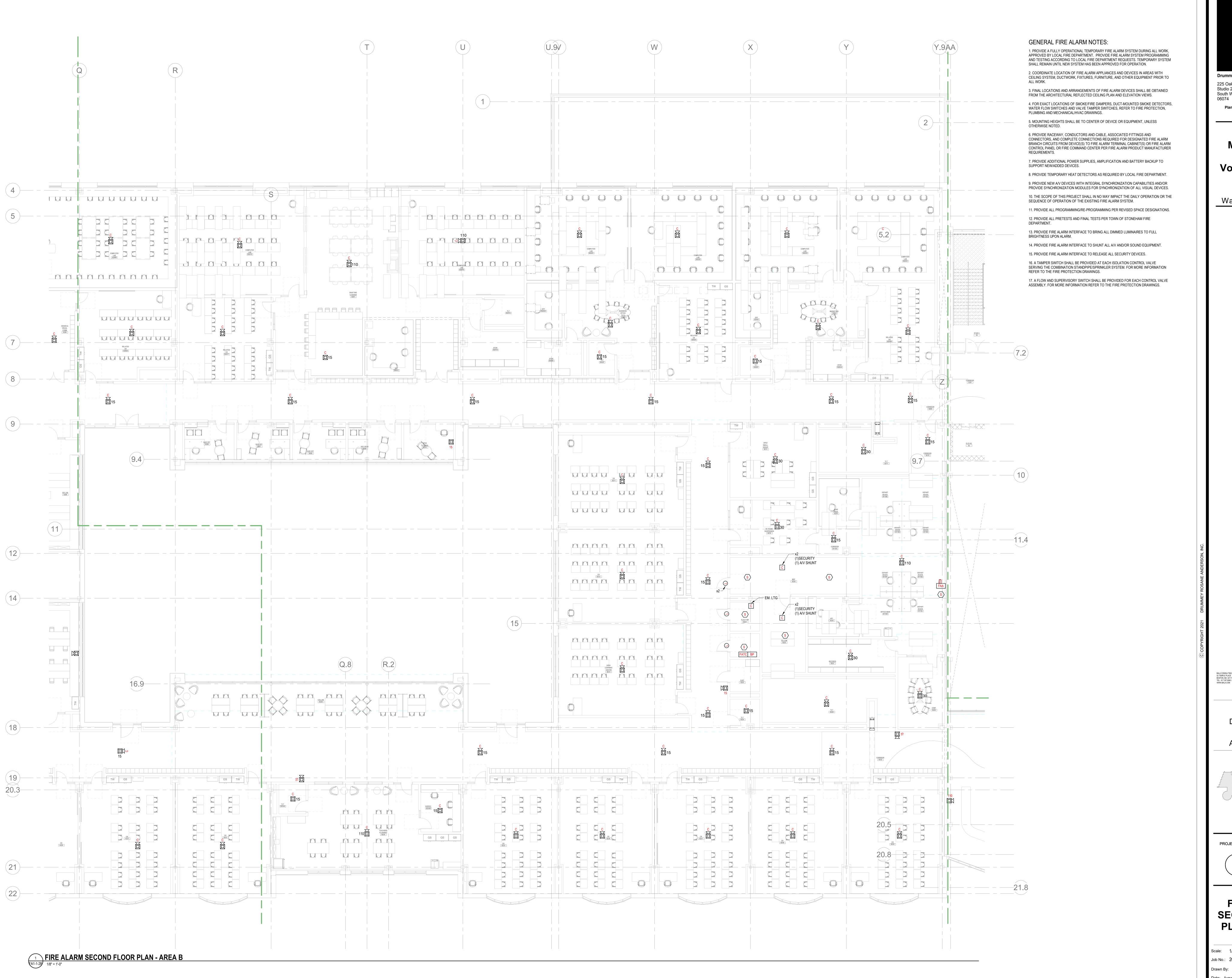
KEY PLAN MAGNETIC NORTH

PROJECT NORTH

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

Scale: 1" = 10'-0"

FA1-1-2A



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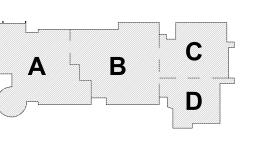
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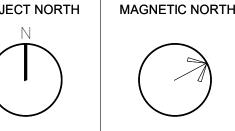
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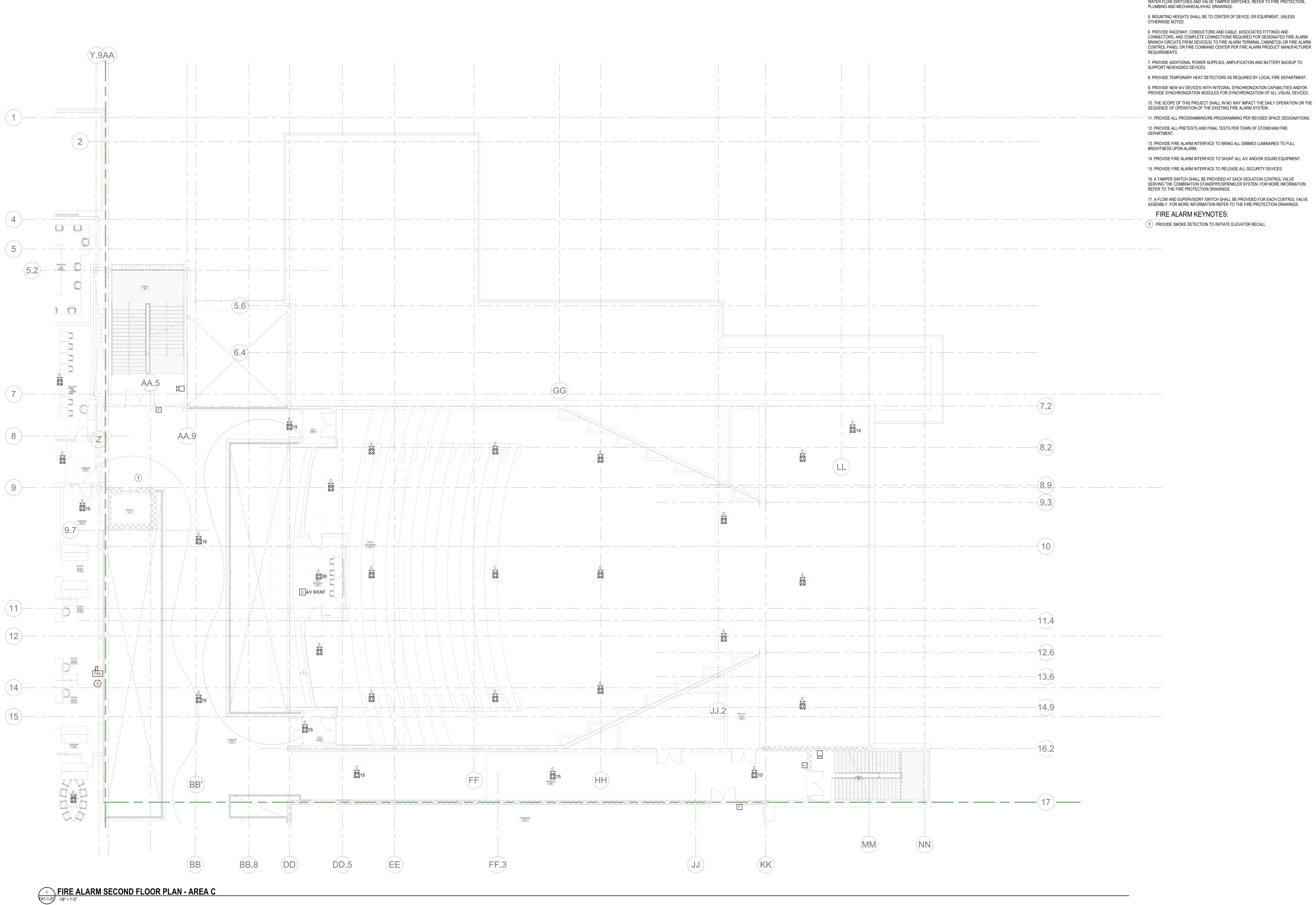
**KEY PLAN** 

PROJECT NORTH



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

FA1-1-2B



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,

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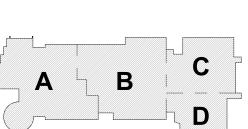
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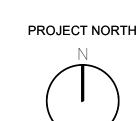
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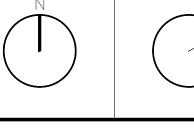
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**KEY PLAN** 

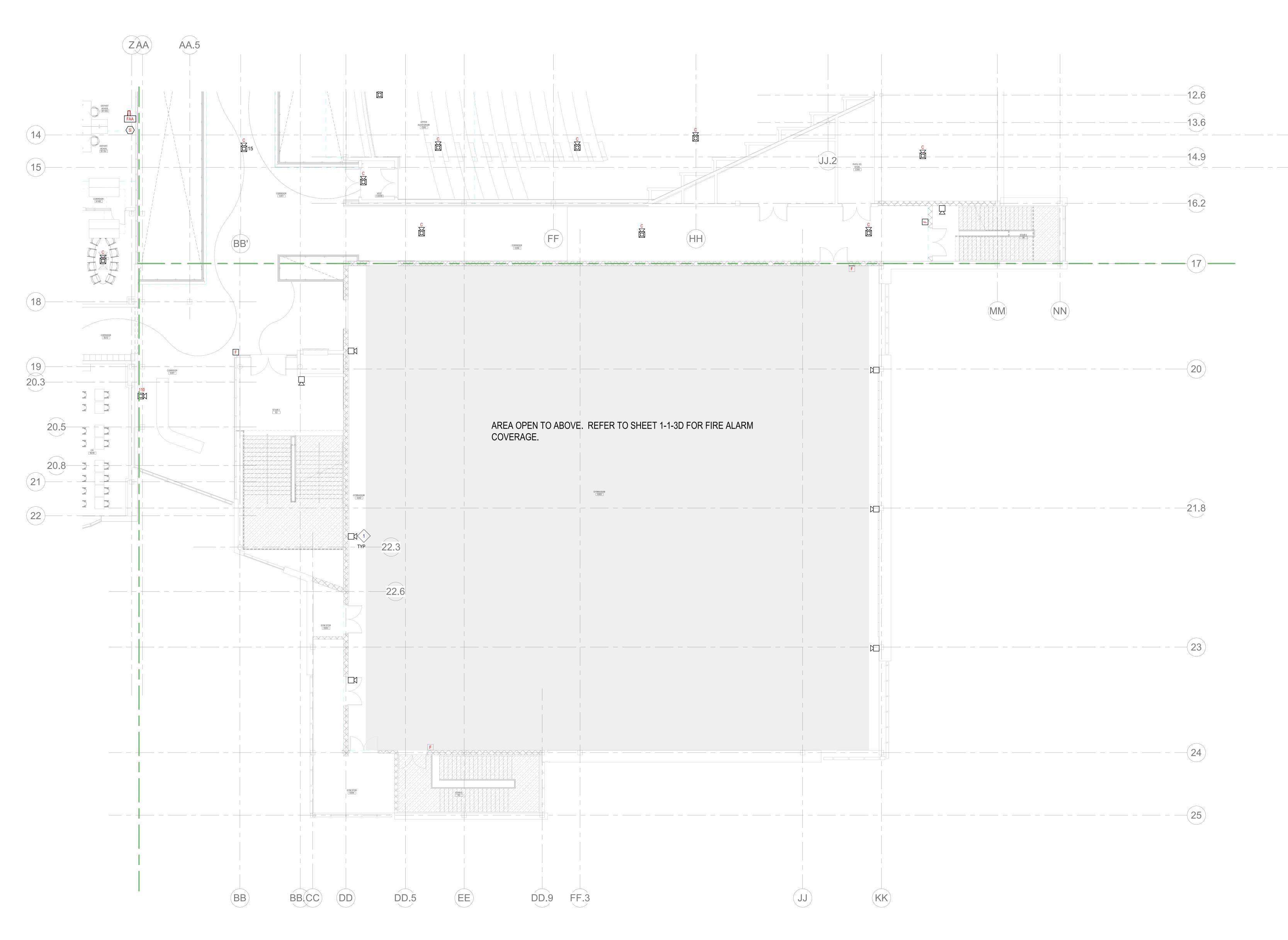
MAGNETIC NORTH





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

FA1-1-2C



REQUIREMENTS.

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.

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.

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

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 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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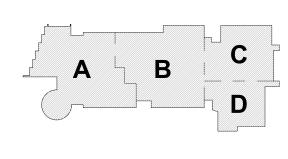
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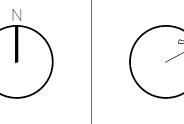
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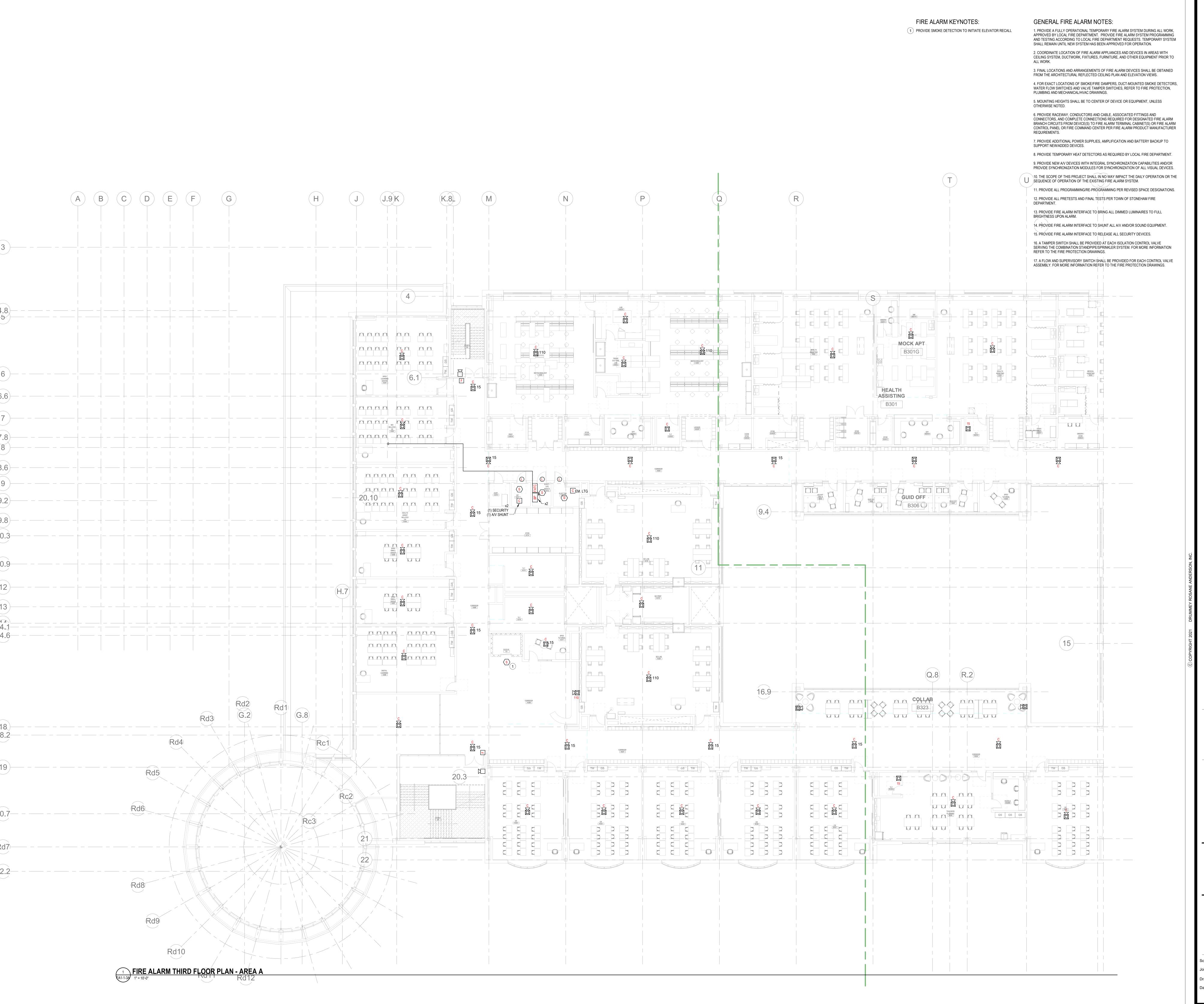
**KEY PLAN** 



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

FA1-1-2D







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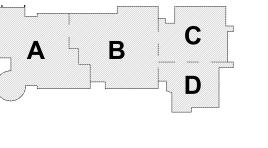
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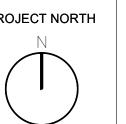
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KEY PLAN

NORTH MAGNETIC NORTH

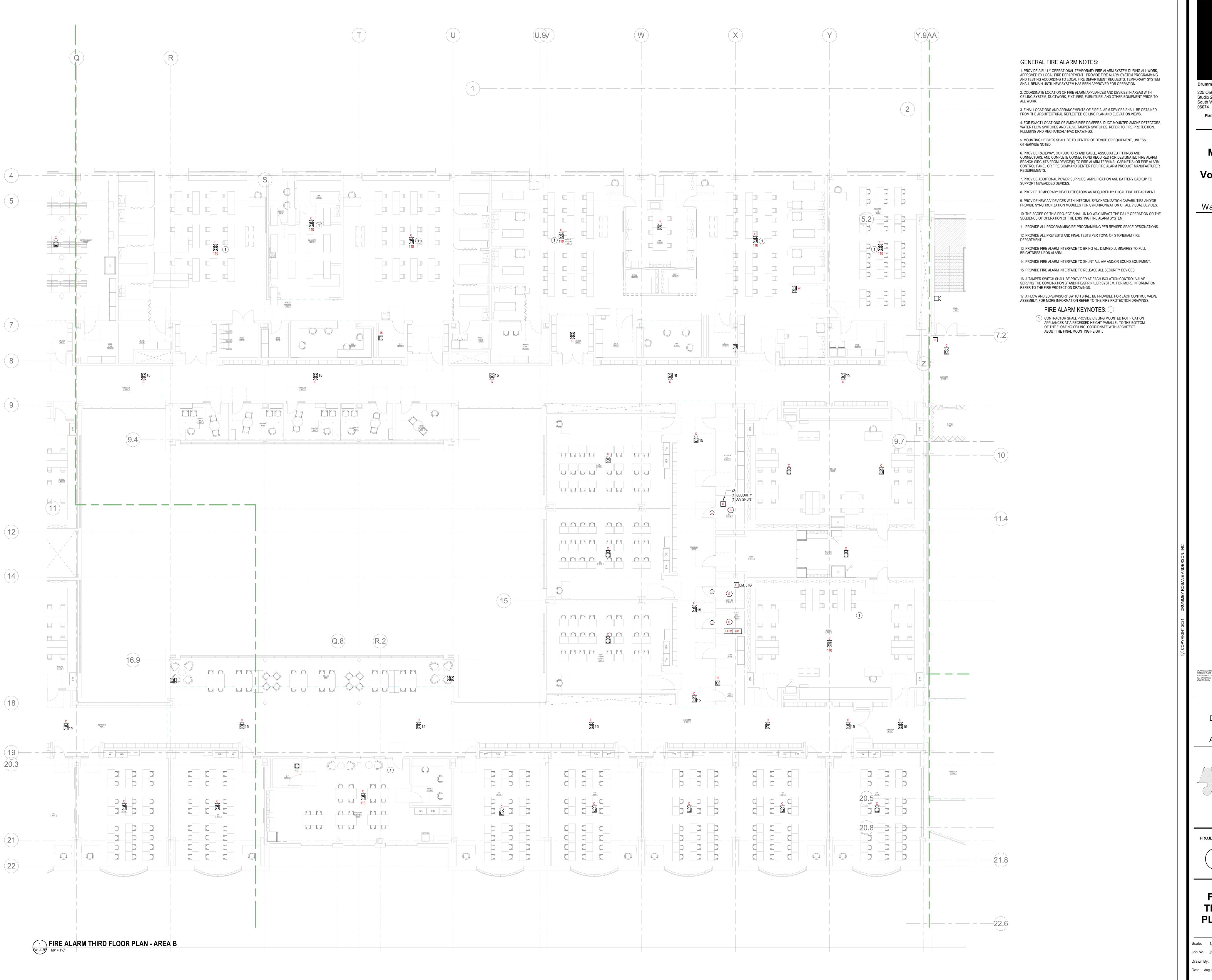


FIRE ALARM THIRD FLOOR PLAN - AREA A

Scale: 1" = 10'-0"

Job No.: 20202

FA1-1-3A



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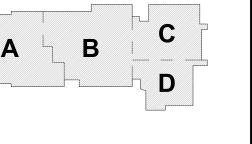
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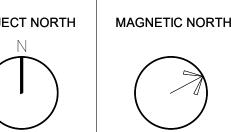
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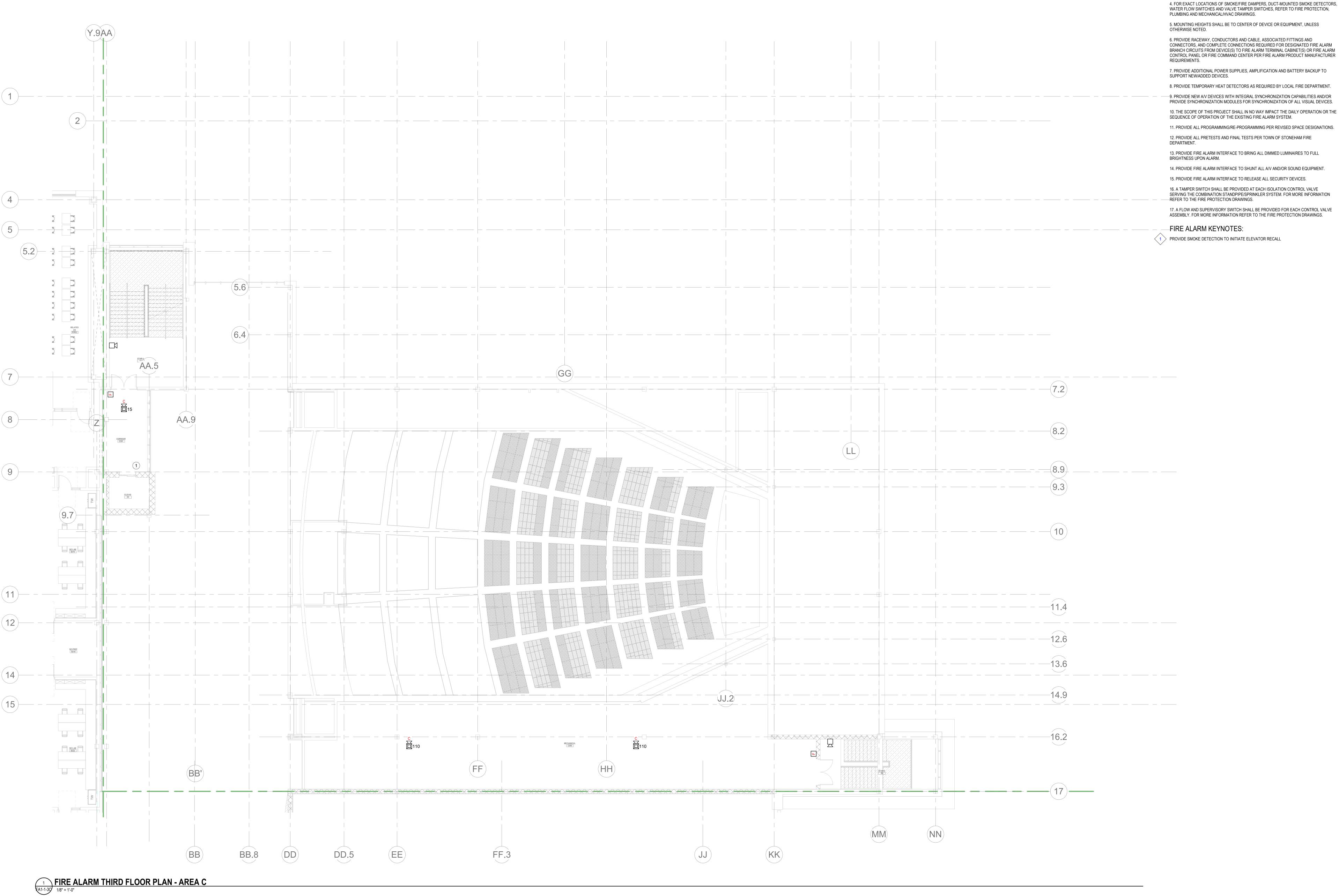
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**KEY PLAN** 



FIRE ALARM THIRD FLOOR PLAN - AREA B



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.

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.

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

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:

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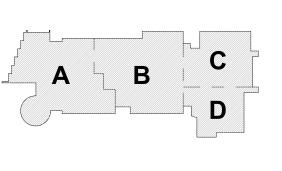
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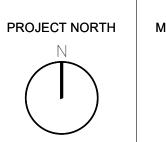
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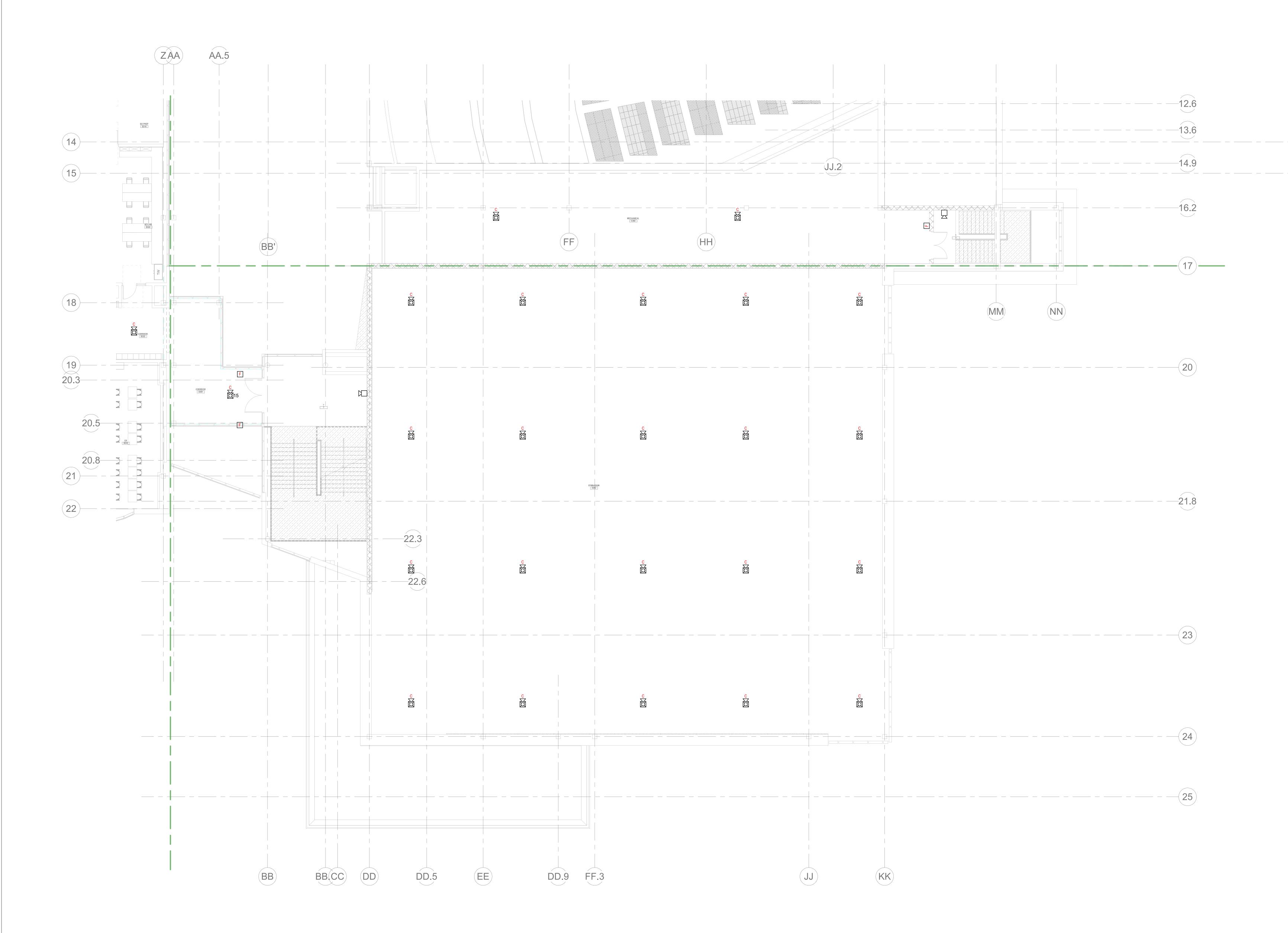
**KEY PLAN** MAGNETIC NORTH

PROJECT NORTH



**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 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.

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

 PROVIDE RACEWAY, CONDUCTORS AND CABLE, ASSOCIATED FITTINGS AND

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 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.

DRA

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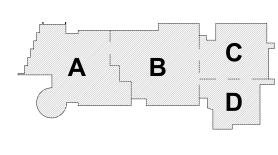
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KEY PLAN

NORTH MAGNETIC NORTH



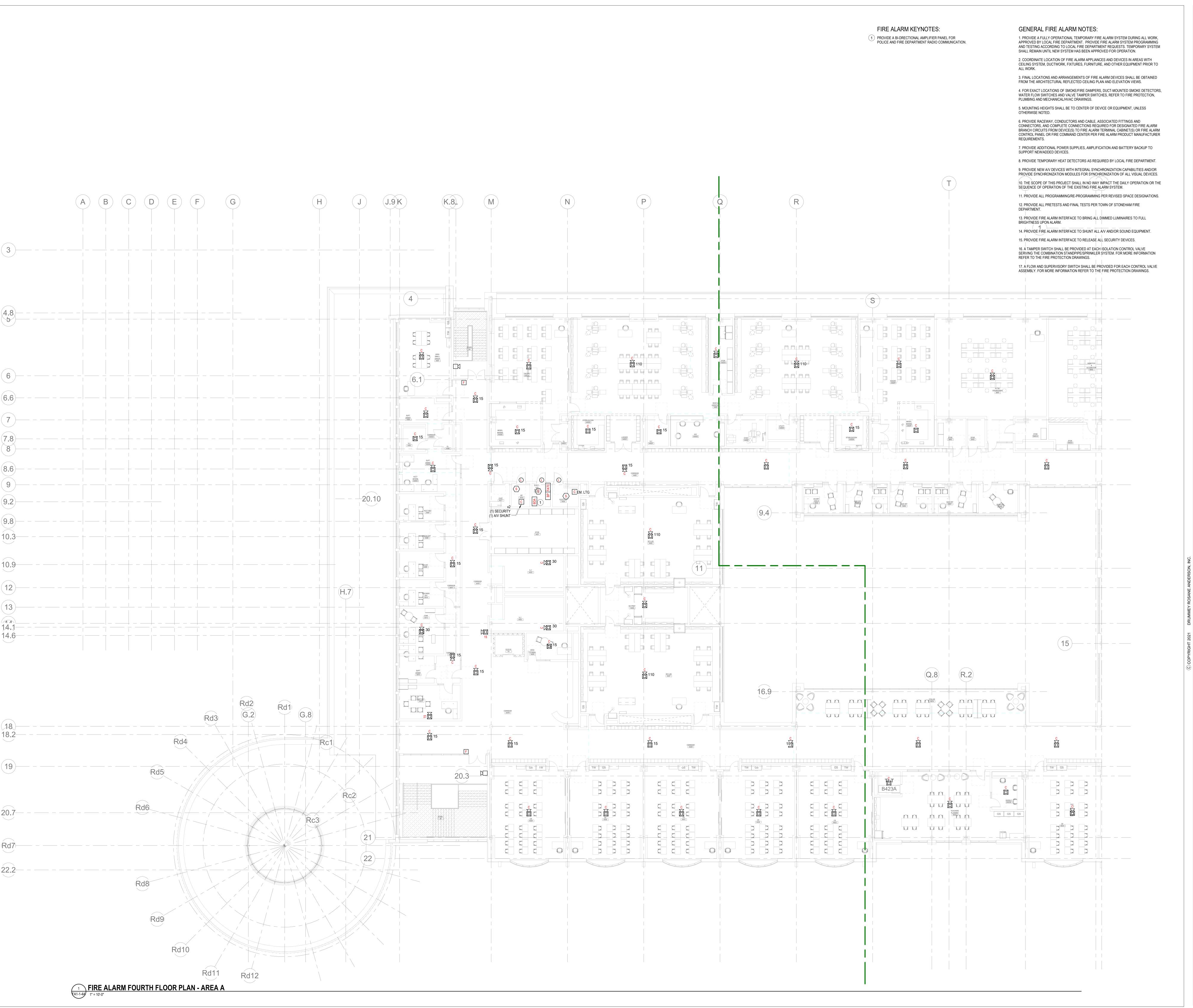
FIRE ALARM THIRD FLOOR PLAN - AREA D

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

Job No.: 20202

Drawn By: DRA

FA1-1-3D





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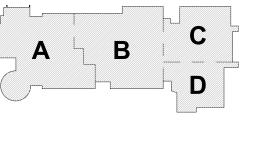
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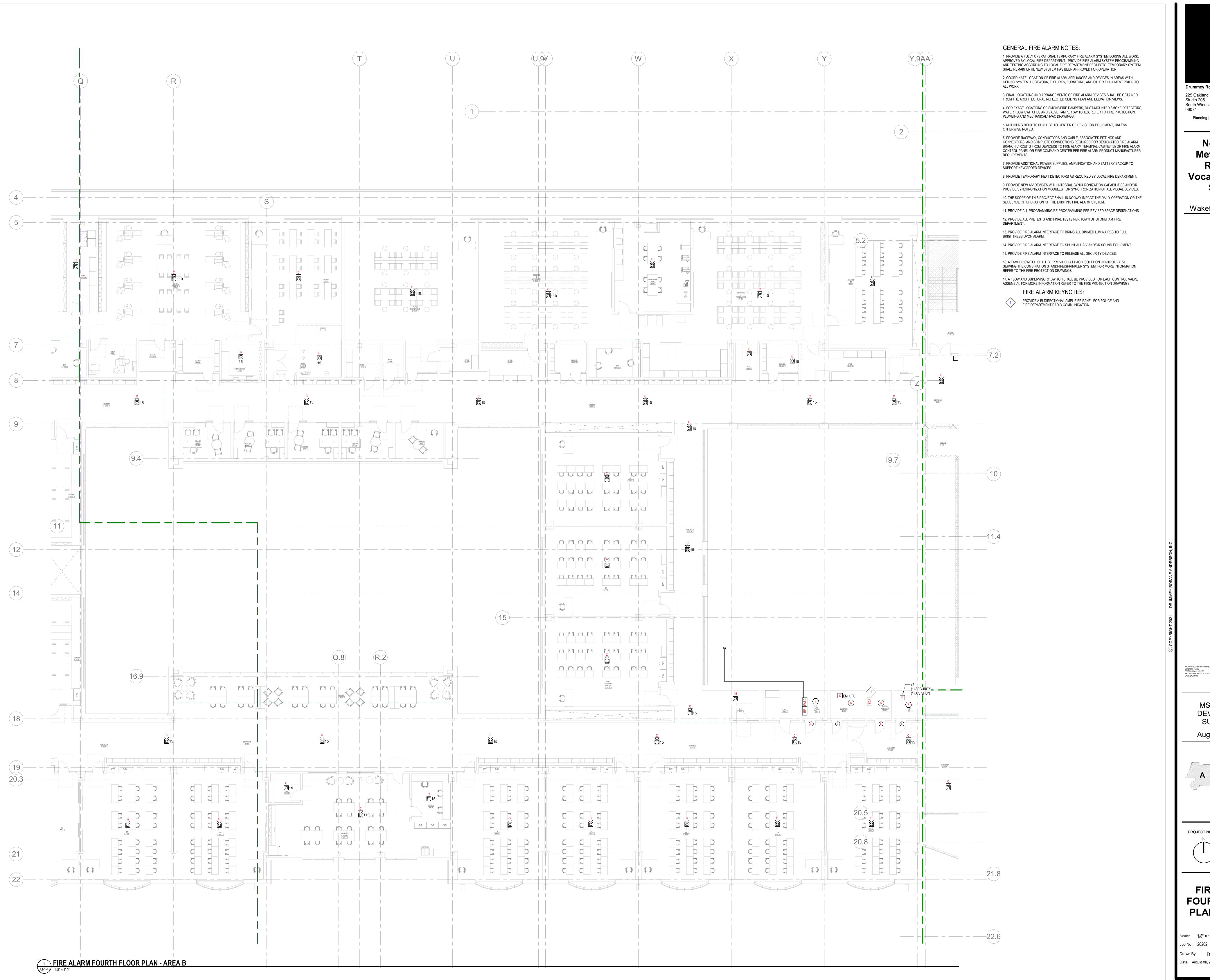
**KEY PLAN** 

MAGNETIC NORTH



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

FA1-1-4A



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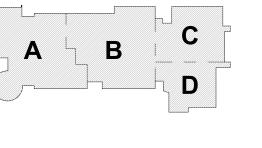
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**KEY PLAN** 

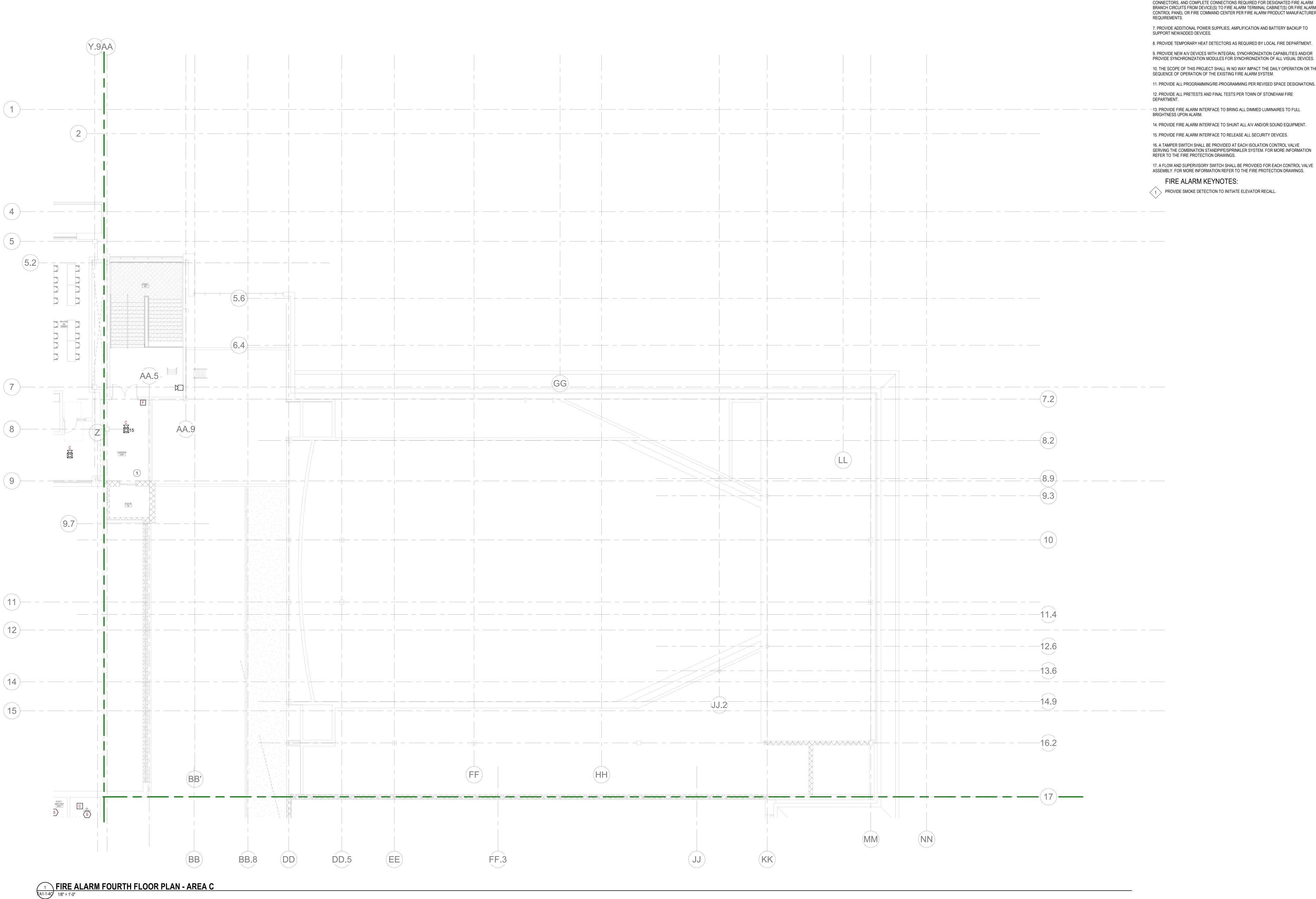
MAGNETIC NORTH

PROJECT NORTH

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.

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

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.

PROVIDE SMOKE DETECTION TO INITIATE ELEVATOR RECALL.



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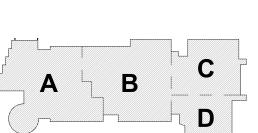
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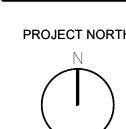
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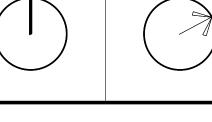
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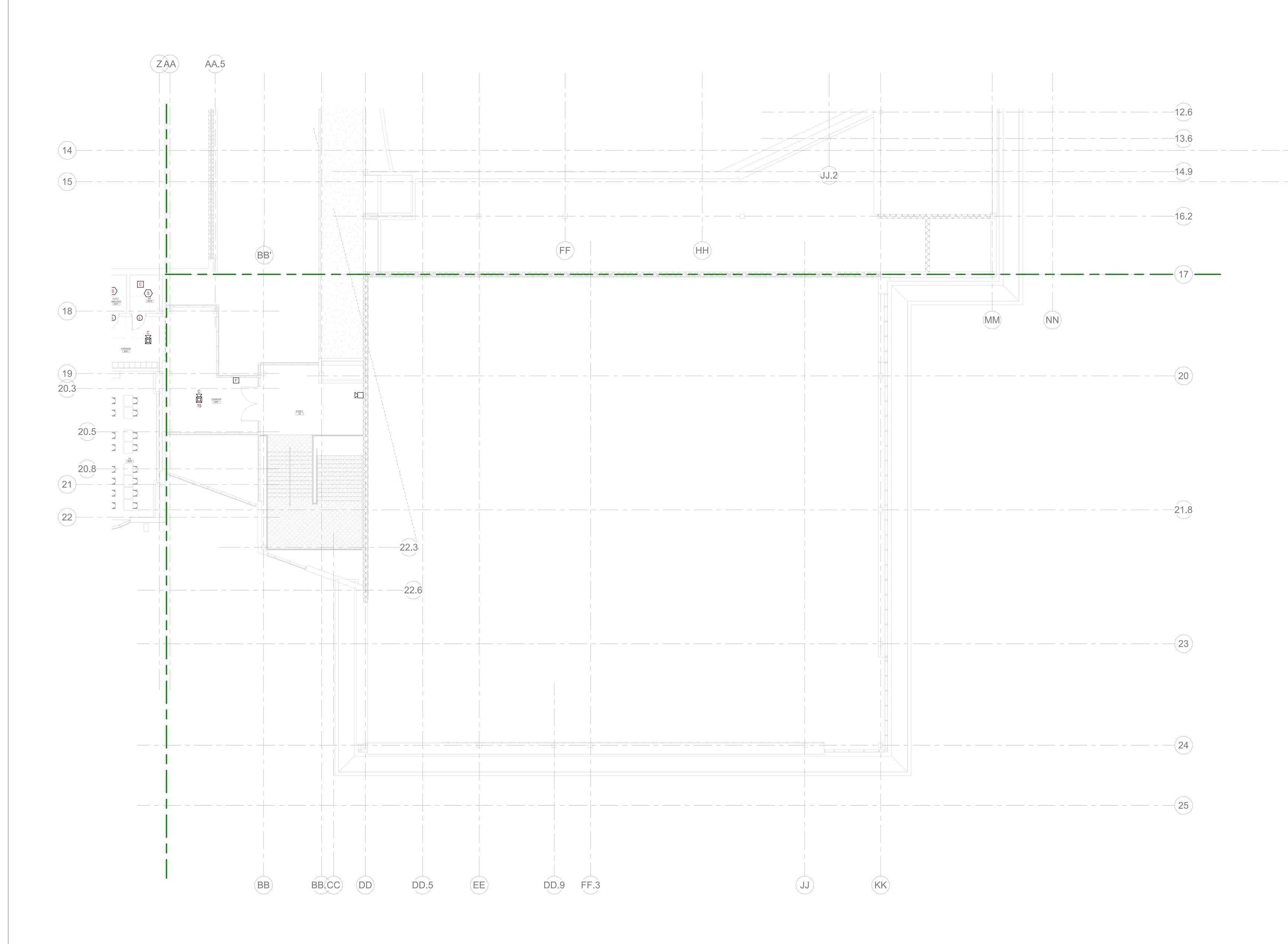


**KEY PLAN** 





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



FIRE ALARM FOURTH 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.

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

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.

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 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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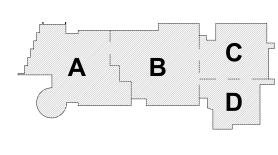
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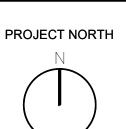
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August 4th, 2022



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



FIRE ALARM FOURTH FLOOR PLAN - AREA D

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

Job No.: 20202

Drawn By: DRA

FA1-1-4D

**KEYNOTE** > PROVIDE A SMOKE DETECTOR TO INITIATE ELEVATOR RECALL. 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

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

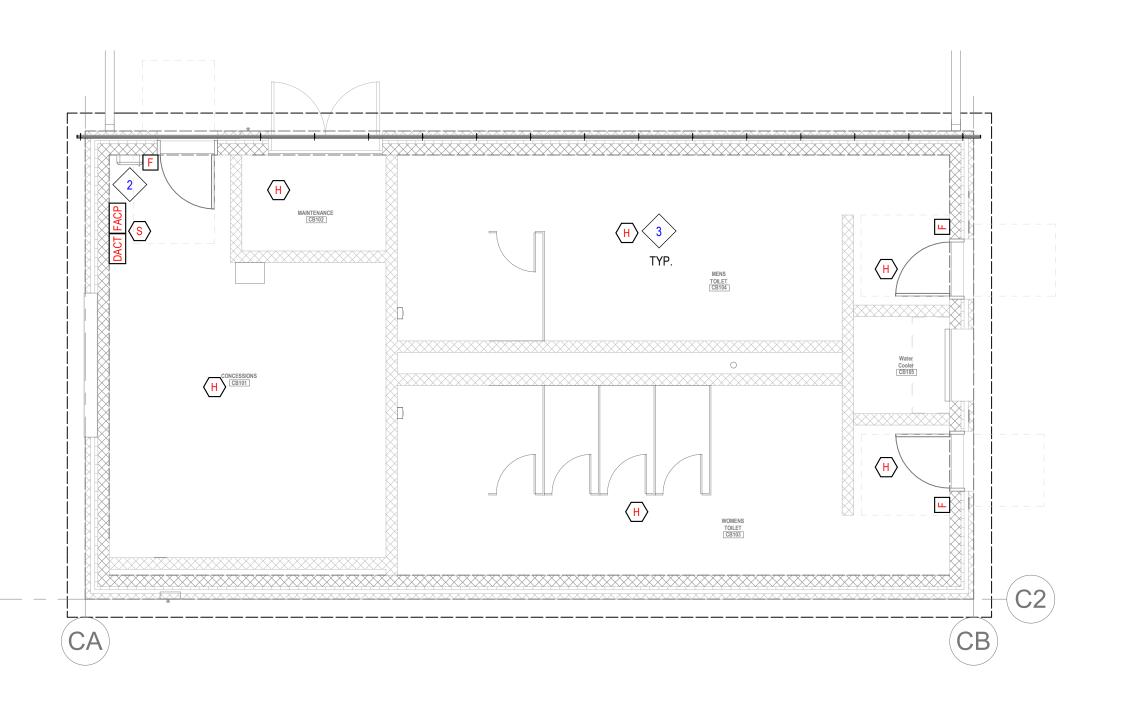
ASSEMBLY. FOR MORE INFORMATION REFER TO THE FIRE PROTECTION DRAWINGS.

(1) PRIMARY RECALL (1) ALTERNATE RECALL (1) FIRE HAT

FIRE ALARM CONCESSION BUILDING PLAN

1/8" = 1'-0"

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



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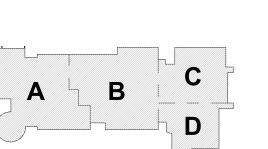
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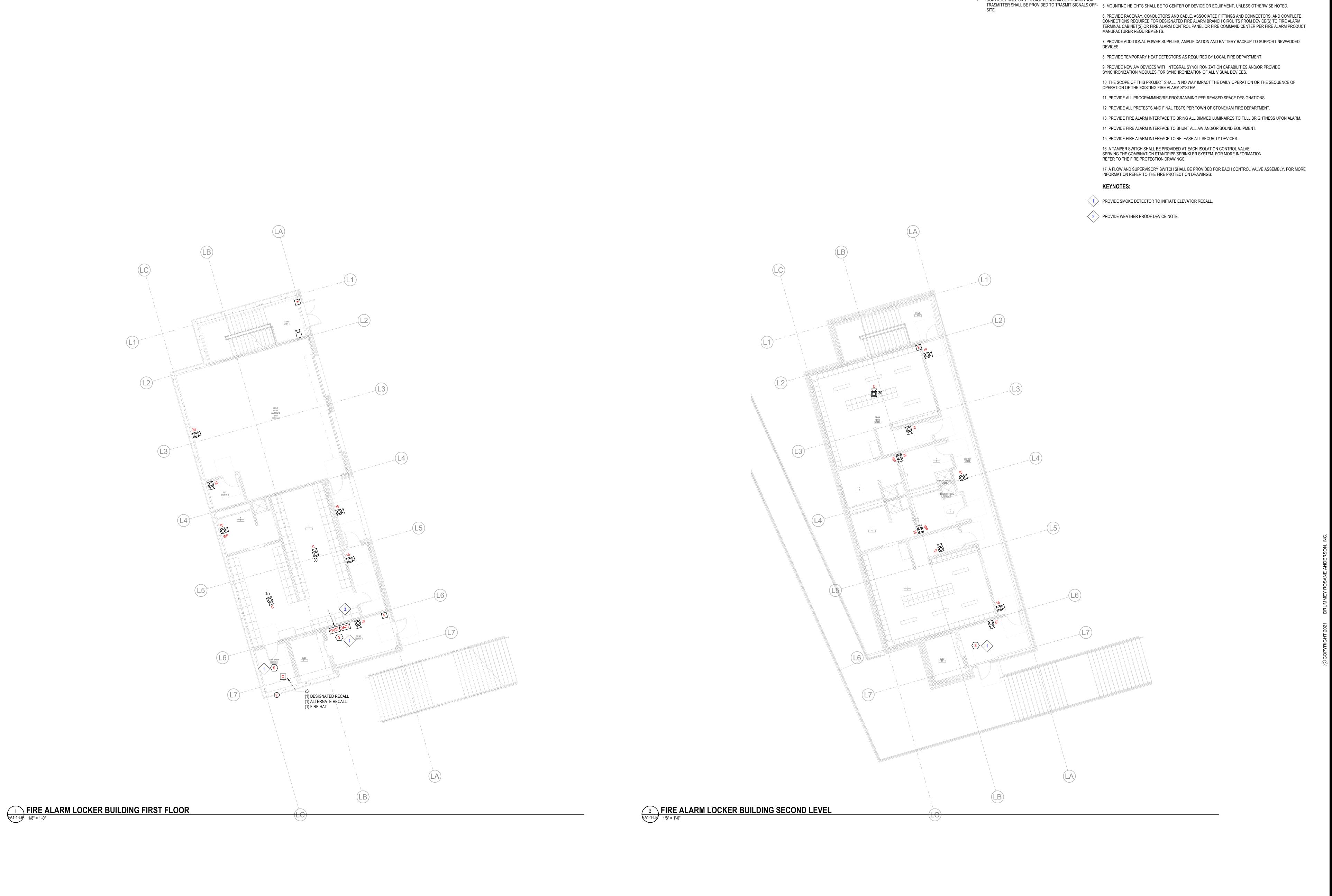


**KEY PLAN** MAGNETIC NORTH

PROJECT NORTH

FIRE ALARM CONCESSION **BUILDING PLAN** 

FA1-1-CB



DRA

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**GENERAL FIRE ALARM NOTES:** 

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

> PROVIDE WEATHERPROOF SPEAKER/STROBE.

PROVIDE A NEW ANALOG ADDRESSABLE FIRE ALARM CONTROL PANEL UNIT. A DIGITAL ALARM 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

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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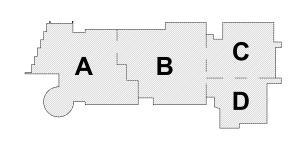
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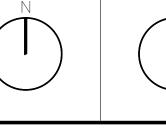
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August 4th, 2022



KEY PLAN

PROJECT NORTH



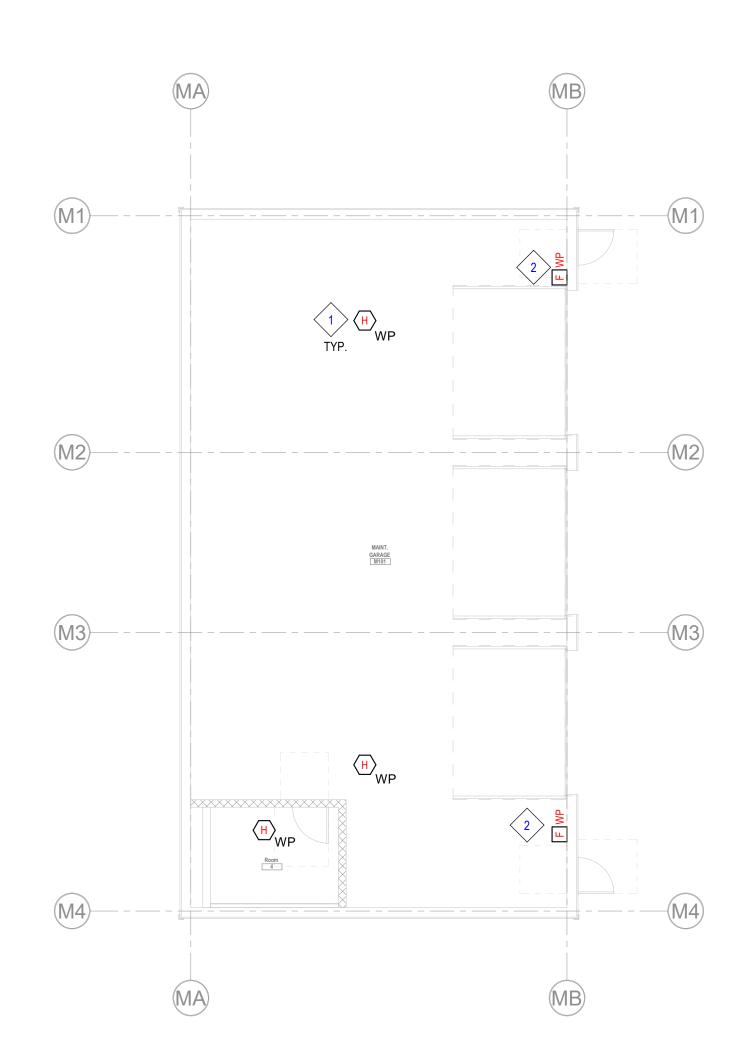
FIRE ALARM LOCKER BUILDING PLAN

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** 

ightharpoonup 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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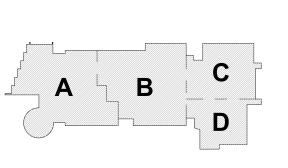
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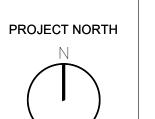
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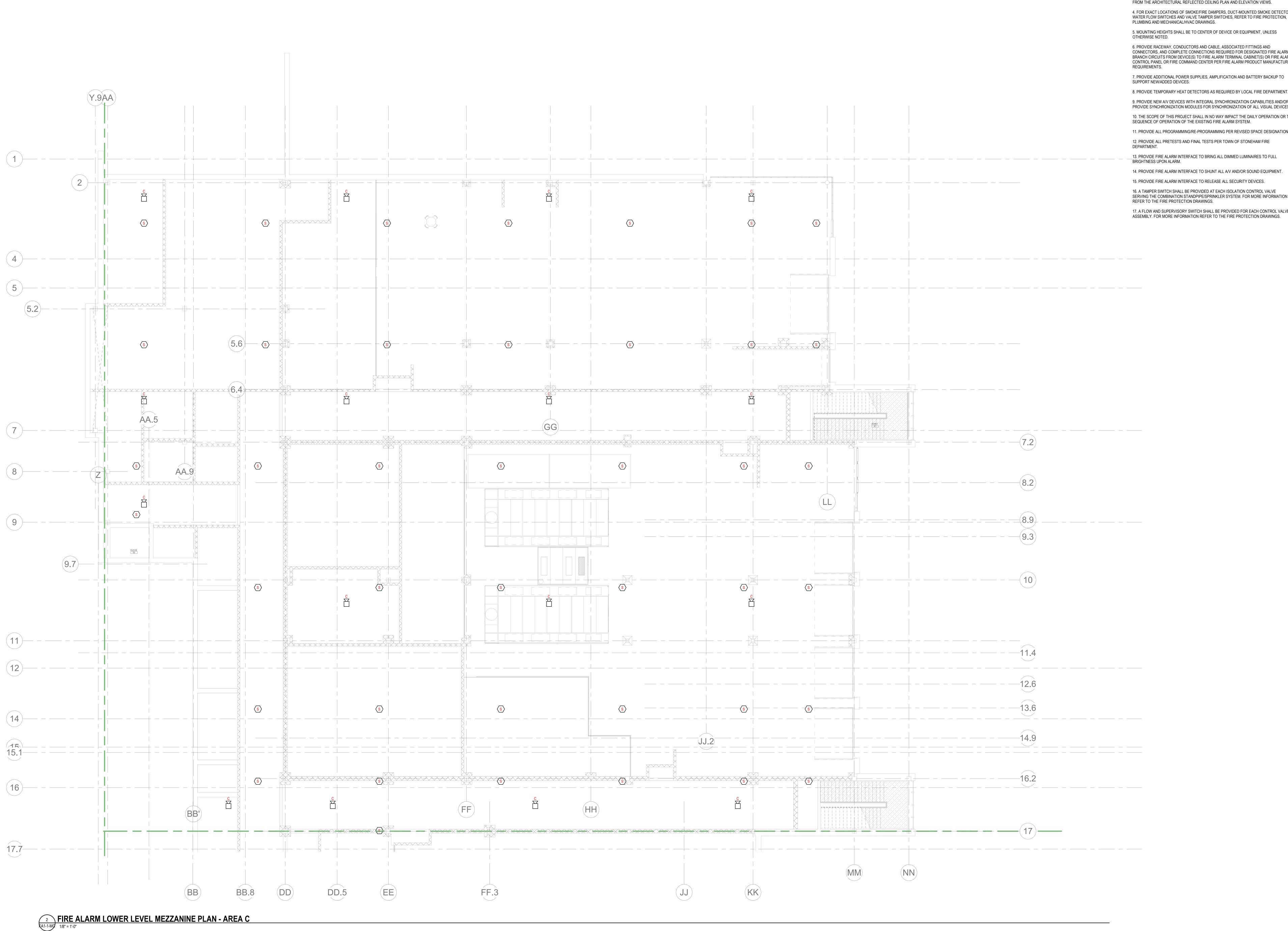
**KEY PLAN** 



MAGNETIC NORTH

FIRE ALARM MAINTENANANCE **BUILDING PLAN** 

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



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

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

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

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

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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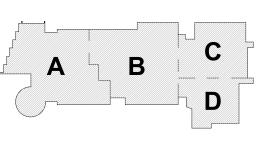
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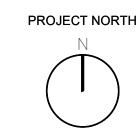
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DEVELOPMENT

August 4th, 2022



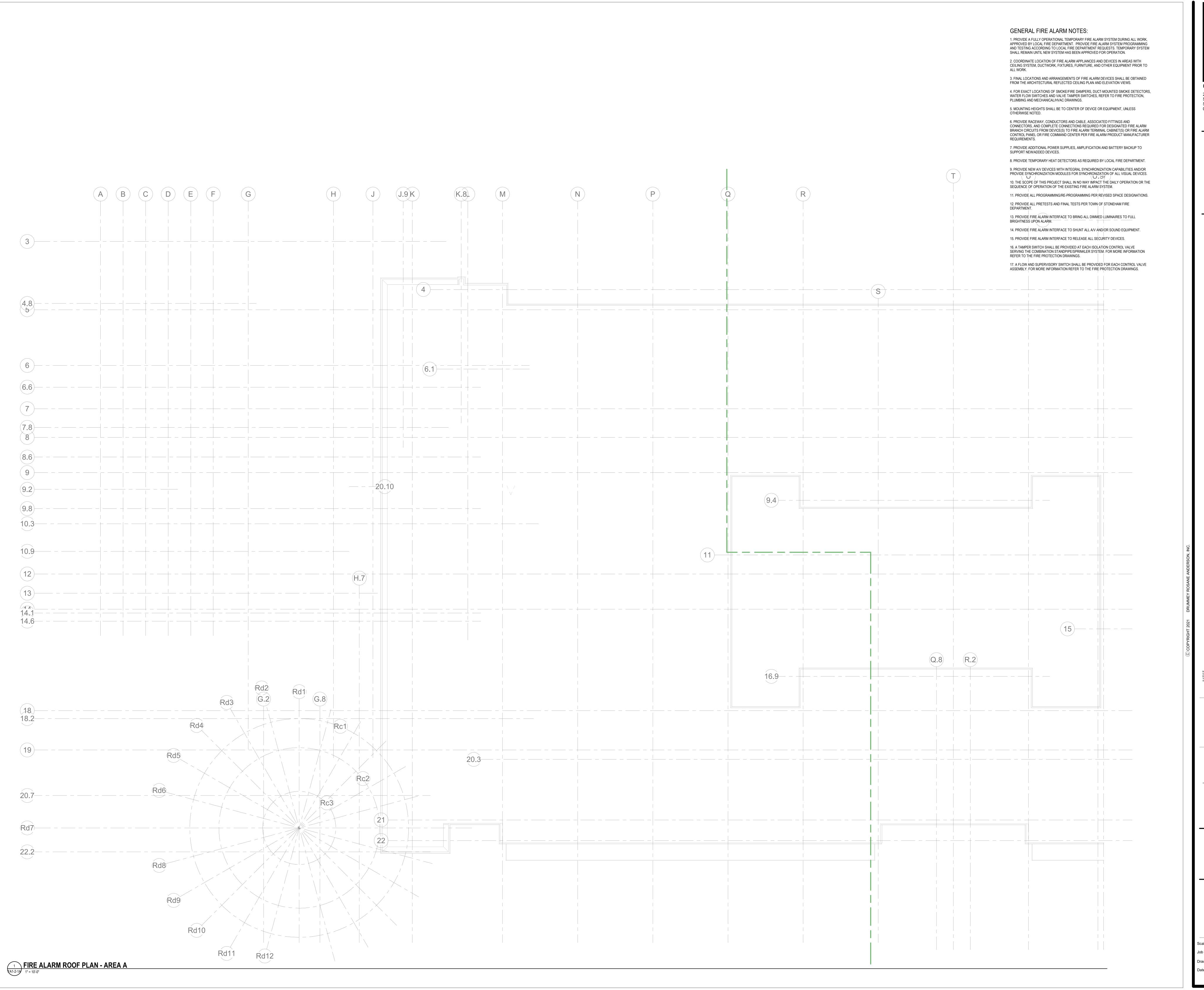
**KEY PLAN** 



FIRE ALARM

**LOWER LEVEL MEZZANINE** PLAN - AREA C

Drawn By: DRA FA1-1-MC





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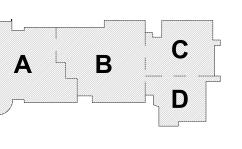
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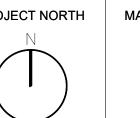
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DEVELOPMENT SUBMISSION

August 4th, 2022

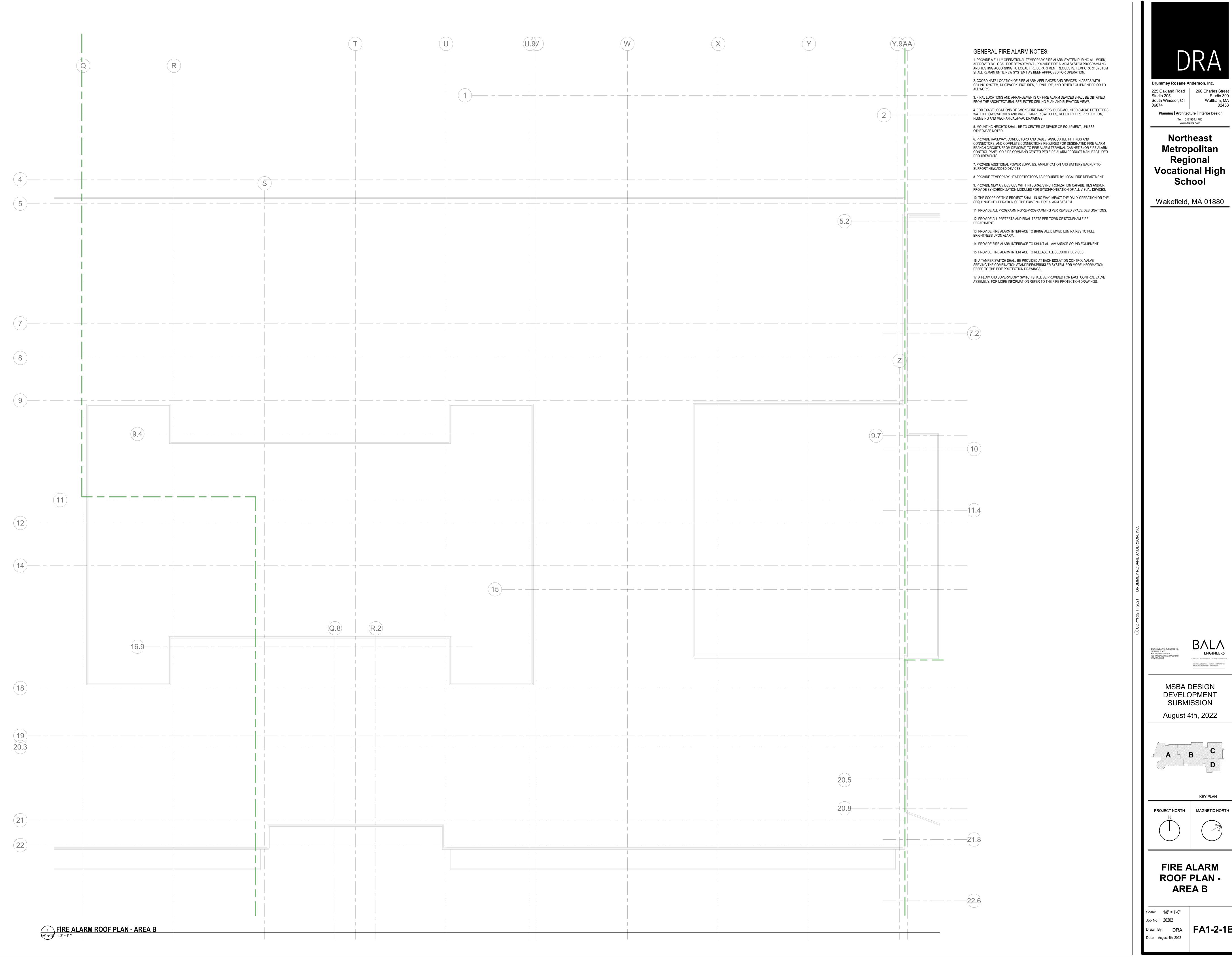


**KEY PLAN** 



FIRE ALARM

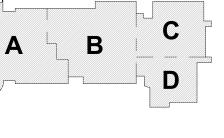
**ROOF PLAN -AREA A** 



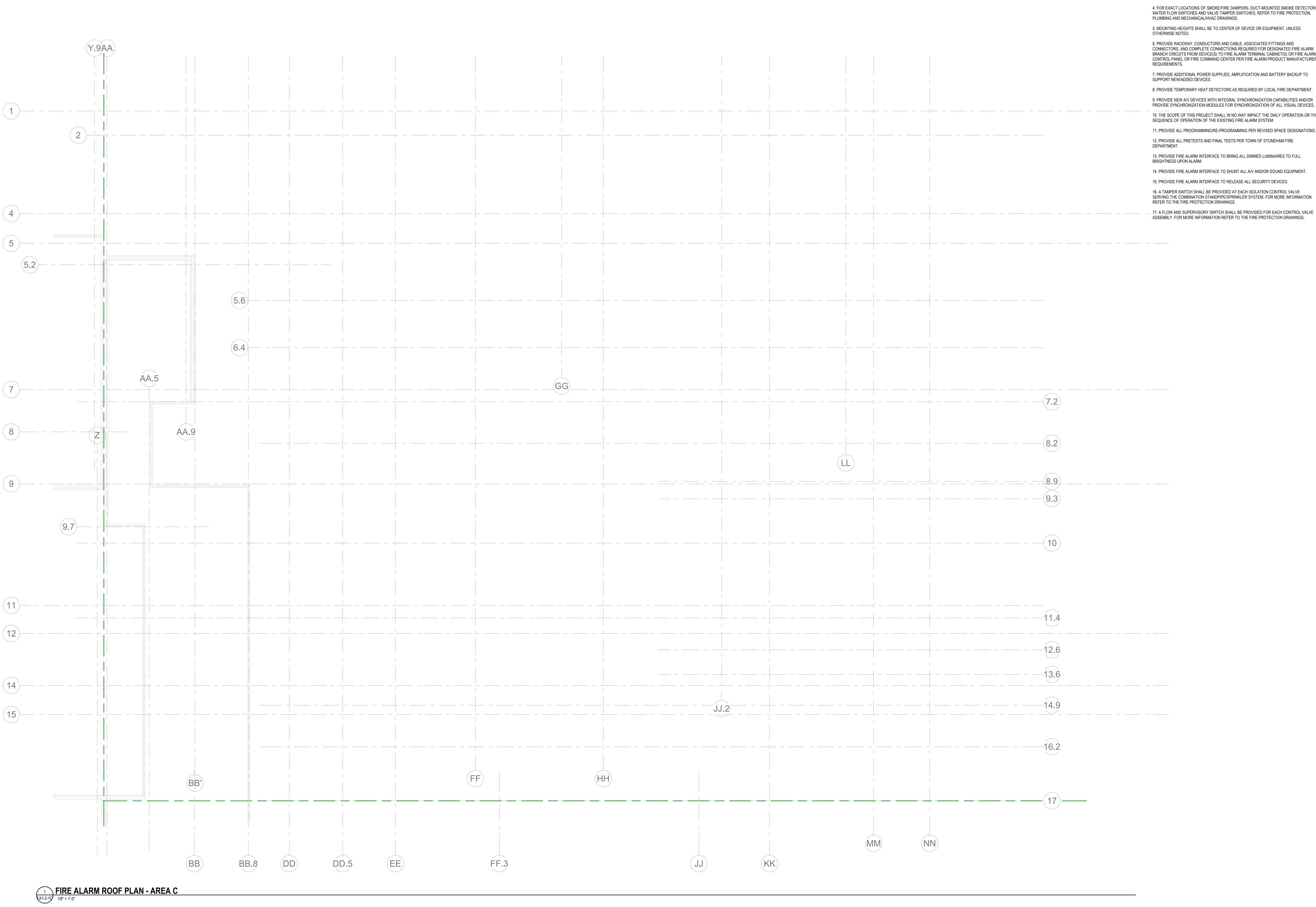
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FIRE ALARM **ROOF PLAN -AREA B** 



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,

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

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.

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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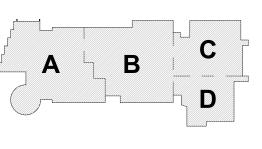
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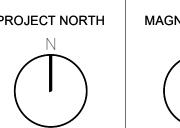
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MSBA DESIGN

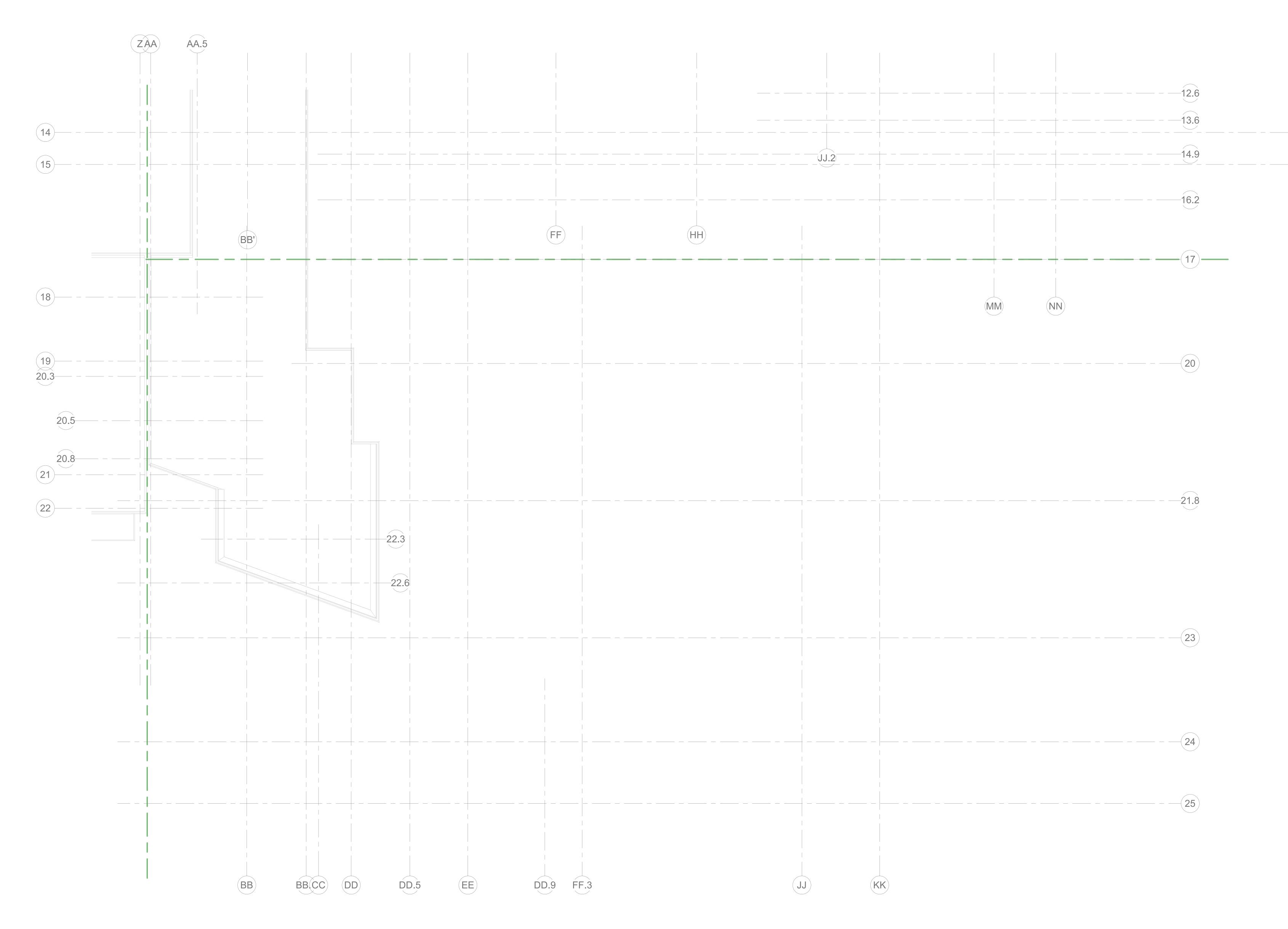


**KEY PLAN** 



FIRE ALARM **ROOF PLAN -AREA C** 

FA1-2-1C



FIRE ALARM ROOF 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. 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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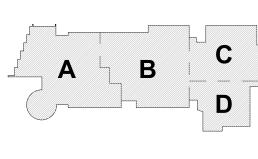
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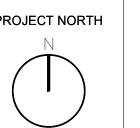
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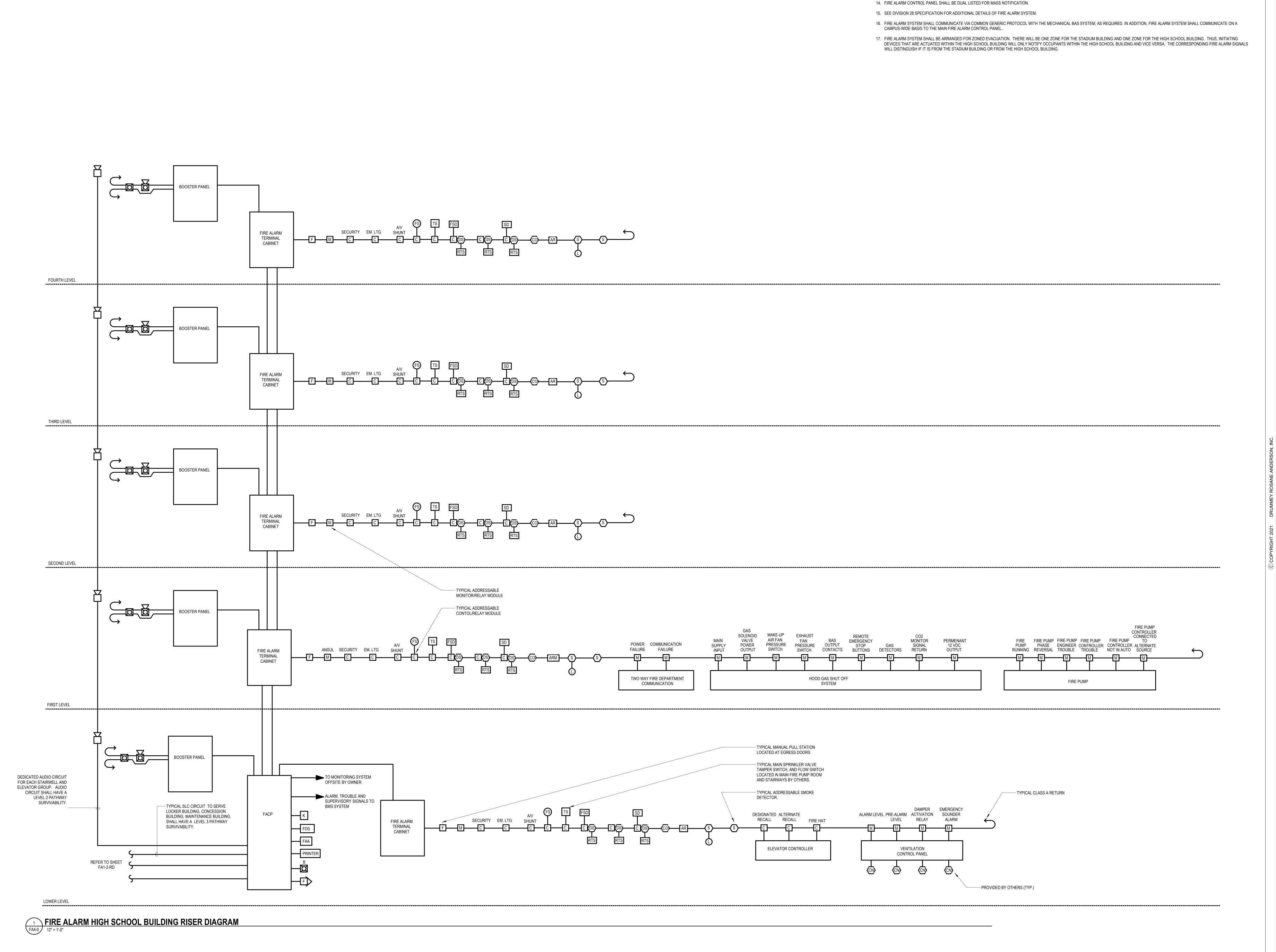
**KEY PLAN** 

MAGNETIC NORTH



**FIRE ALARM ROOF PLAN -**AREA D

FA1-2-1D



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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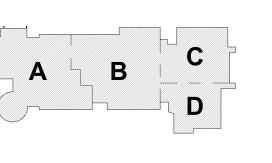
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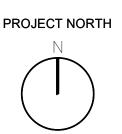
MSBA DESIGN



**KEY PLAN** 

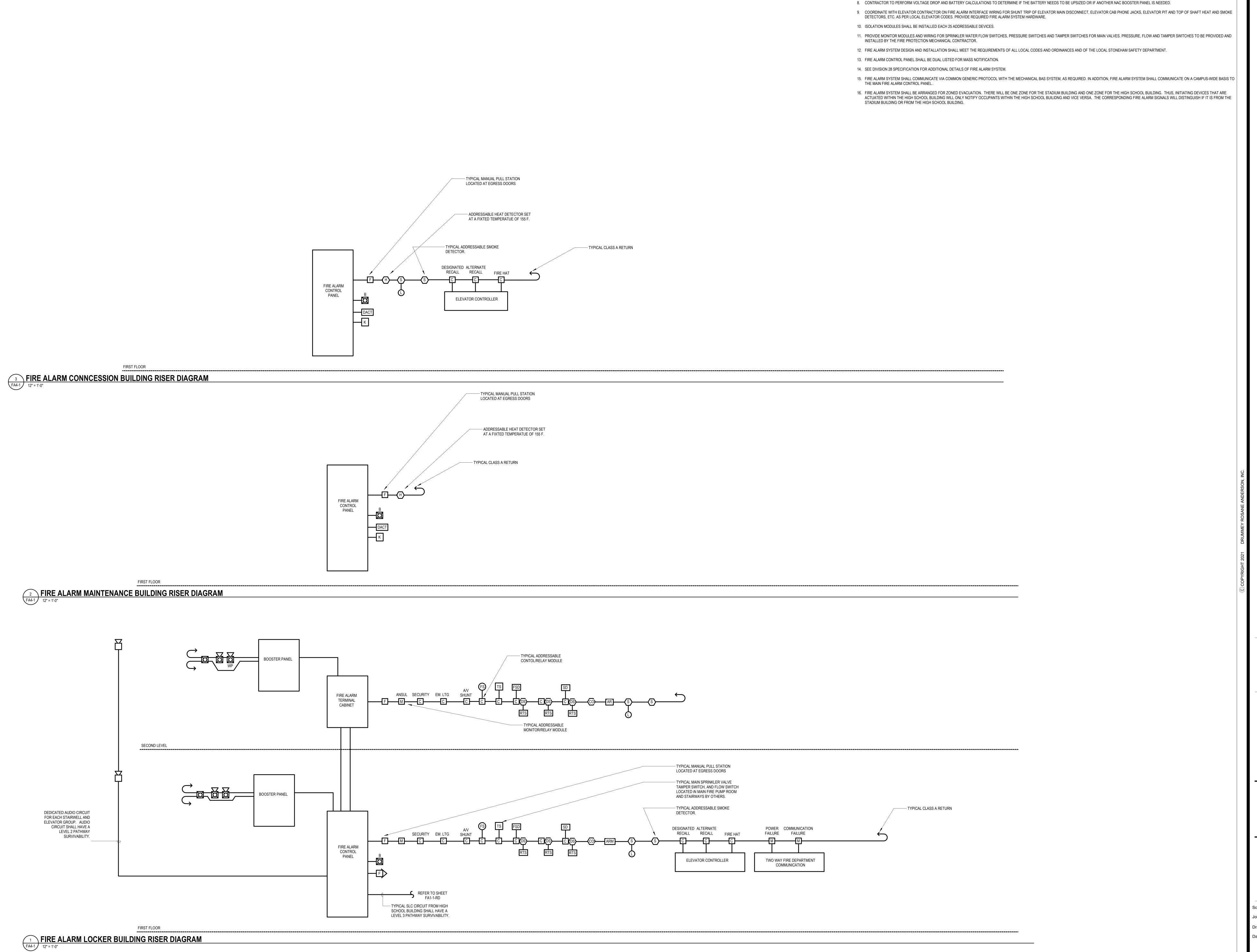
MAGNETIC NORTH

PROJECT NORTH



FIRE ALARM **HIGH SCHOOL BUILDING RISER DIAGRAM** 

**FA4-0** 



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5. FIRE ALARM SYSTEM SHALL COMMUNICATE VIA COMMON GENERIC PROTOCOL WITH THE MECHANICAL BAS SYSTEM, AND DATA CENTER CFMS SYSTEM AS REQUIRED FOR SUPERVISORY, TROUBLE AND ALARM CONDITIONS.

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

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

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

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

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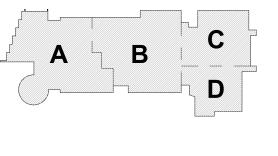
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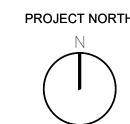
August 4th, 2022



**KEY PLAN** 

MAGNETIC NORTH

PROJECT NORTH



FIRE ALARM

**DIAGRAMS** 

**FA4-1**