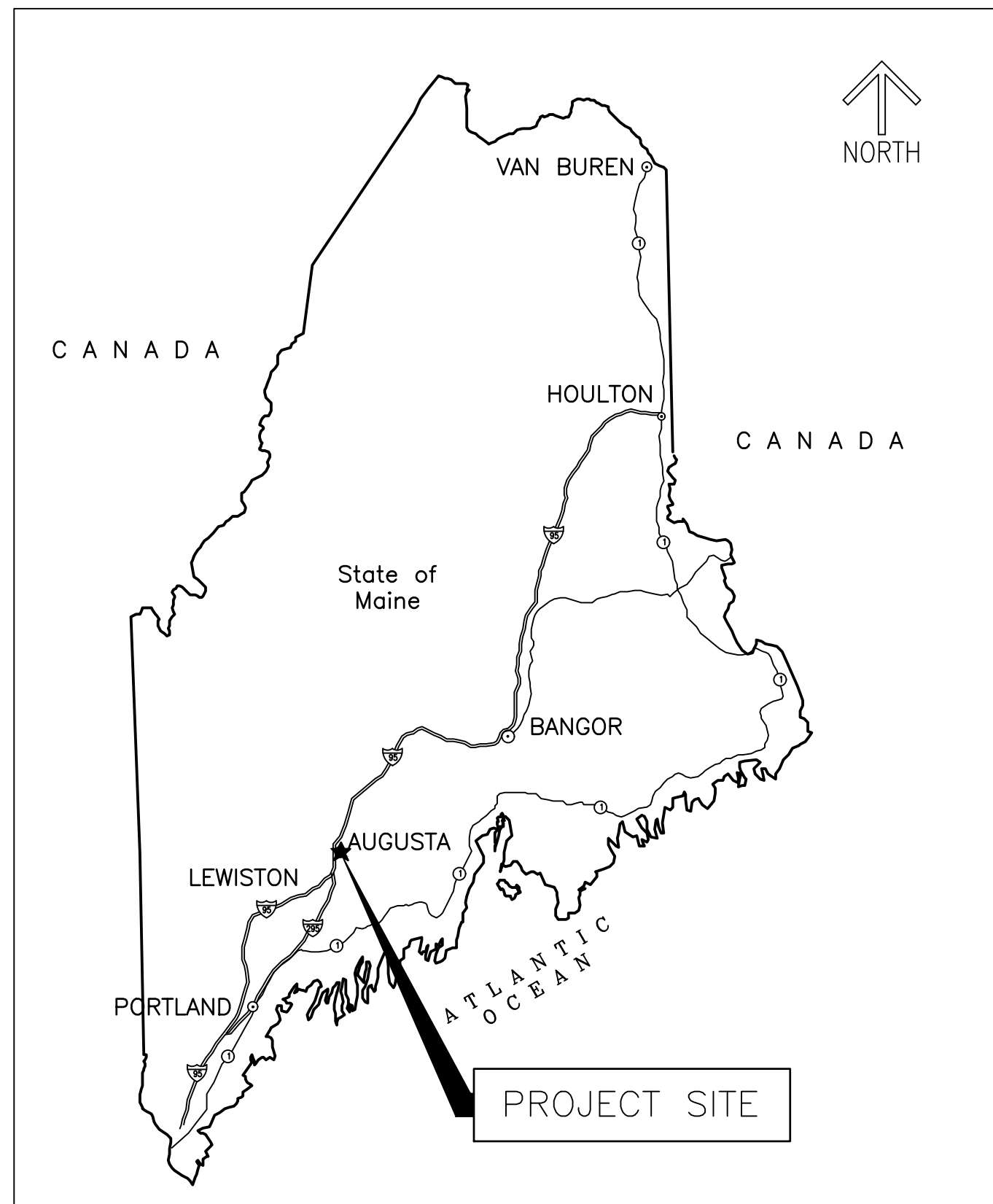


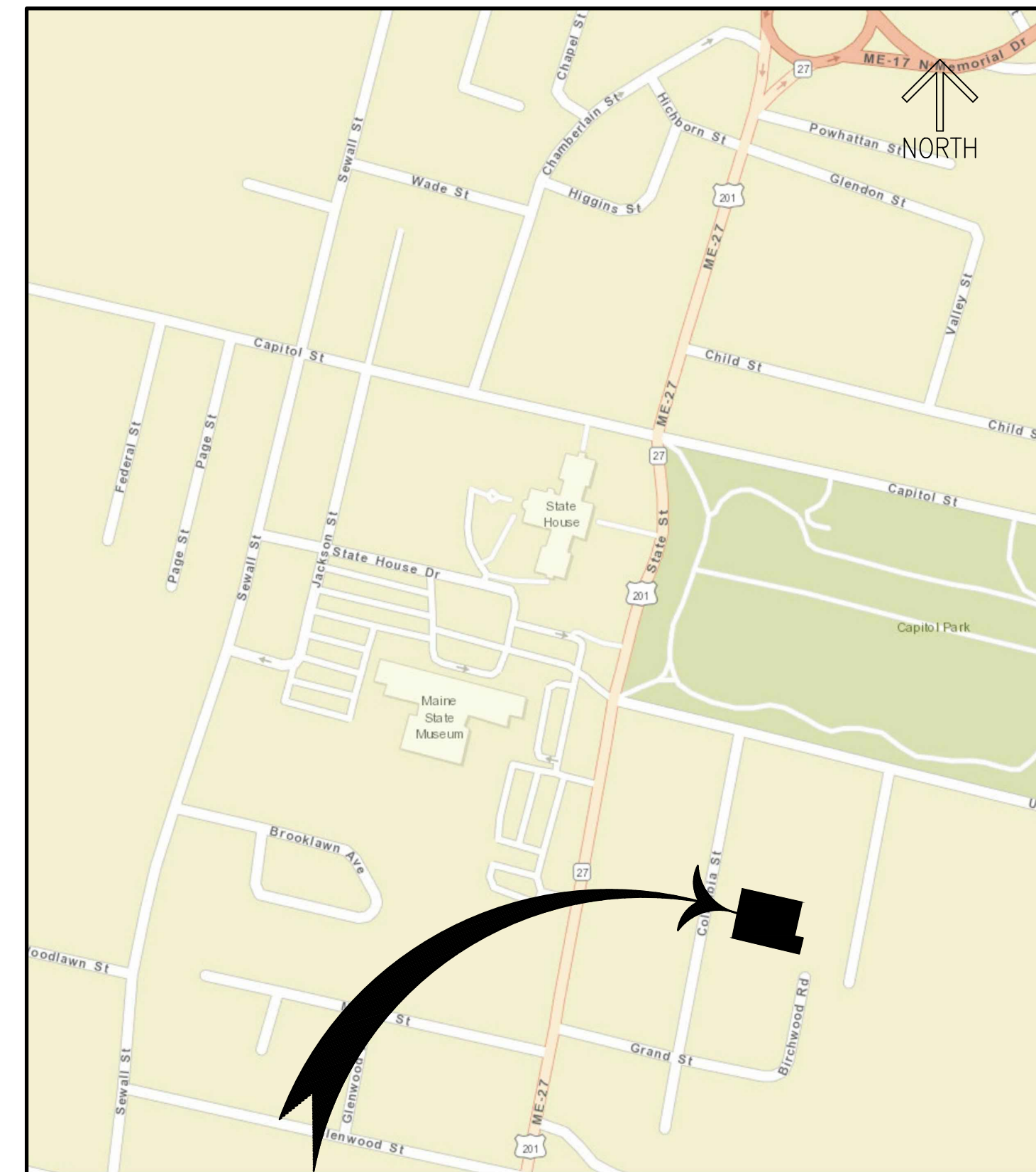
# 15 COLUMBIA STREET FIRE ALARM UPGRADES AUGUSTA, MAINE

## ISSUED FOR CONSTRUCTION 09-17-21



**A1** VICINITY MAP  
NOT TO SCALE

INDEX OF DRAWINGS	
DRAWING NUMBER	TITLE
GENERAL	
G001	COVER SHEET
FIRE ALARM	
FA001	LEGEND, ABBREVIATIONS AND GENERAL NOTES
FA101	FIRST LEVEL PLAN
FA102	SECOND LEVEL & MEZZANINE PLAN
FA601	RISER DIAGRAM



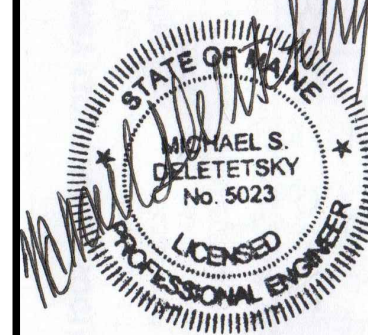
**A4** PROJECT LOCATION  
NOT TO SCALE

**wood.**

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CURRENT ISSUE STATUS:  
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PROJECT:  
15 COLUMBIA STREET  
FIRE ALARM UPGRADES  
AUGUSTA, ME

REV	ISSUED FOR CONSTRUCTION	DATE
A	09-17-21	

PROJECT NO: 3618218734  
PROJECT MANAGER: KM  
A/E OF RECORD: MD  
DESIGNED BY: TR  
DRAWN BY: KN

SHEET TITLE:

COVER SHEET

SHEET ID:

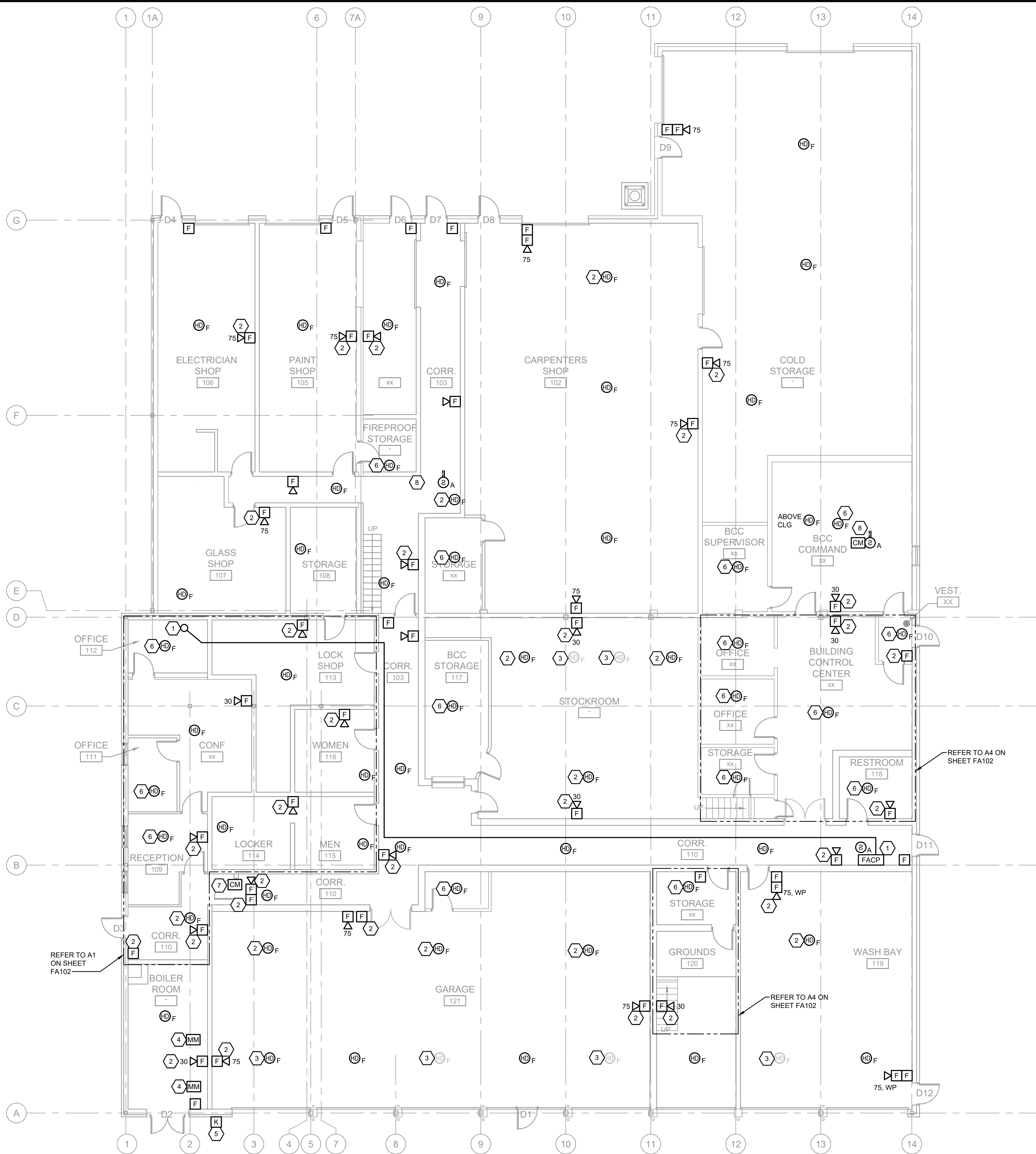
G001



	FIRE ALARM	LINE TYPES	ABBREVIATIONS	GENERAL NOTES	APPLICABLE CODES
	<div>[F] FIRE ALARM MANUAL PULL STATION [FD] FIRE ALARM SPEAKER-STROBE UNIT [F75] FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCE (GENERAL EVACUATION) CANDELA INTENSITY-15/75 UNLESS OTHERWISE NOTED <div>[F75]</div> FIRE ALARM VISIBLE ONLY NOTIFICATION APPLIANCE WALL MOUNTED CANDELA INTENSITY-15/75 UNLESS OTHERWISE NOTED M FIRE ALARM MASTER BOX HD F HEAT DETECTOR R - DETECTOR HEAT/RATE OF RISE R/C - DETECTOR/HEAT RATE COMPENSATION R/T - DETECTOR/HEAT COMBINATION A SMOKE DETECTOR, CEILING MOUNTED H-AUXILIARY CONTACT P-PHOTOELECTRIC SMOKE PH-PHOTOELECTRIC/HEAT SMOKE K SMOKE DETECTOR, WALL MOUNTED DA DUCT SMOKE DETECTOR A-AUXILIARY CONTACT X INTERLOCK RELAY DH FIRE ALARM SYSTEM MAGNETIC DOOR HOLDER FAA FIRE ALARM ANNUNCIATOR FACP FIRE ALARM CONTROL PANEL FS SPRINKLER SYSTEM FLOW SWITCH CM CONTROL MODULE RTS DUCT SMOKE DETECTOR REMOTE TEST STATION TS SPRINKLER SYSTEM TAMPER SWITCH MM MONITORING MODULE K KNOX BOX</div>	<div>EXISTING NEW DEMOLITION MATCHLINE PARTPLAN OUTLINE G BARE COPPER CONDUCTOR RUN EXPOSED G-----BARE COPPER CONDUCTOR EMBEDDED IN CONCRETE OR BURIED</div>	<div>AMP AMPERE AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AHJ AUTHORITY HAVING JURISDICTION AIC AMPEERE INTERRUPTING CAPACITY AWG AMERICAN WIRE GAUGE BFG BELOW FINISHED GRADE BUILDING BLDG BOTTOM OF STEEL BOS CONDUIT, CONDUCTOR CATV CABLE TELEVISION CB CIRCUIT BREAKER CCTV CLOSED CIRCUIT TELEVISION CLG CEILING CPT CONTROL POWER TRANSFORMER CT CURRENT TRANSFORMER CU COPPER D DEMOLISHED (TO BE REMOVED) DACT DIGITAL ALARM COMMUNICATOR TRANSMITTER DB DIRECT BURIED DISC DISCONNECT DN DOWN E EXISTING TO REMAIN EMT ELECTRICAL METALLIC TUBING EWG ELECTRIC WATER COOLER EQUIPMENT EQP EXISTING EXIST FIRE ALARM ANNUNCIATOR FAA FIRE ALARM CONTROL PANEL FBO FURNISHED BY OTHERS FLR FLOOR FWE FURNISHED WITH EQUIPMENT FU FUSE GEN GENERATOR GFCD GROUND FAULT CIRCUIT BREAKER GND GROUND HGT HEIGHT HP HORSEPOWER HTR HEATER IG ISOLATED GROUND IMC INTERMEDIMATE METAL CONDUIT K KILO KCML THOUSAND CIRCULAR MILS KV KILOVOLT KVA KILOVOLT-AMPERE KVAR KILOVOLT-AMPERE REACTIVE KW KILOWATT KWH KILOWATT-HOUR LA LIGHTNING ARRESTER LM LUMENS LTG LIGHTING MC METAL CLAD MCB MAIN CIRCUIT BREAKER MFR MANUFACTURER MI MINERAL INSULATED MLO MAIN LUG ONLY MTD MOUNTED MV MEDIUM VOLTAGE NC NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NEG NEGATIVE NEUT NEUTRAL NIC NOT IN CONTRACT NO NORMALLY OPEN NTS NOT TO SCALE PF POWER FACTOR PH PHASE PVC POLYVINYL CHLORIDE RM ROOM RSC RIGID STEEL CONDUIT RTD RESISTANCE TEMPERATURE DETECTOR SN SOLID NEUTRAL STP SHIELDED TWISTED PAIR STT SHIELDED TWISTED TRIPLET SWBD SWITCHBOARD SWG SWITCHEGEAR TOS TOP OF STEEL TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR V VOLT VA VOLT-AMPERE VAR VOLT-AMPERE REACTIVE VFD VARIABLE FREQUENCY DRIVE WM WATT METER WP WEATHER PROOF XFMR TRANSFORMER XP EXPLOSION PROOF</div>	<div>1. ALL GENERAL NOTES, SYMBOL LISTS AND DETAILS SHALL BE CONSIDERED AS APPLICABLE TO ALL FIRE ALARM DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION IN THE DESIGN. 2. ALL HEAT DETECTORS ARE BASED ON 50FT SPACING AND UTILIZE EXISTING LOCATIONS UNLESS OTHERWISE INDICATED. ADDITIONAL DETECTORS OR MODIFICATIONS TO THE LAYOUT SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED PER NFPA-72 UNDER THE DIRECTION OF HONEYWELL FACTORY AUTHORIZED FIRE ALARM DESIGN ENGINEER BASED ON ACTUAL DEVICES USED. 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA-70, NFPA-72 (LATEST EDITIONS), AND HONEYWELL MANUFACTURER REQUIREMENTS. ALL WIRING SHALL BE FULLY TESTED FOR CIRCUIT INTEGRITY PRIOR TO INSTALLATION OF DEVICES AND SYSTEM COMMISSIONING. 4. UNLESS OTHERWISE NOTED FIRE ALARM NOTIFICATION DEVICES SHALL BE 80-INCHES AFF OR 6-INCHES BELOW CEILING, WHICHEVER IS LOWER AND FIRE ALARM MANUAL PULL STATIONS 48-INCHES TO TOP OF DEVICE. EXISTING DEVICE LOCATIONS SHALL BE ADJUSTED ACCORDINGLY. 5. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE EXITING RATING OF SEPARATION. 6. ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED. 7. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH EVERY FEEDER AND BRANCH CIRCUIT. 8. UNLESS OTHERWISE NOTED WIRING SHALL BE #12 AWG CONDUCTORS AND #12 GND. HOME RUNS FED FROM 20A-1P CIRCUITS IN EXCESS OF 100 FEET SHALL BE #10 AWG. 9. ALL WIRING SHALL BE 600V, COPPER WITH THHN/THWN INSULATION. 10. THE EXISTING BUILDING SHALL REMAIN OCCUPIED THROUGHOUT CONSTRUCTION. THE TRANSITION FROM THE EXISTING SYSTEM TO THE NEW SYSTEM SHALL BE PERFORMED IN A PHASED APPROACH IN COORDINATION WITH STATE OF MAINE AND AUTHORITY HAVING JURISDICTION TO MAINTAIN BUILDING OPERATIONS WHILE PROVIDING SYSTEM FUNCTIONALITY THROUGHOUT.</div>	<div>2015 - INTERNATIONAL EXISTING BUILDING CODE (IEBC) AS AMENDED BY CHAPTER 4 OF THE MAINE UNIFORM BUILDING AND ENERGY CODE (MUBEC) ADOPTS CHAPTERS 1-16 AND APP A-C BY REFERENCE; IN GENERAL, REPLACES REFERENCE TO: <ul style="list-style-type: none"><li>- INTERNATIONAL MECHANICAL CODE (IMC) WITH APPLICABLE STATE CODES AND STANDARDS</li><li>- INTERNATIONAL FIRE CODE (IFC) WITH NPFA 1 AS ADOPTED AND AMENDED BY STATE REGULATIONS.</li><li>- INTERNATIONAL PLUMBING CODE (IPC) WITH MAINE PLUMBING CODE</li></ul>2015 - INTERNATIONAL BUILDING CODE (IBC), 2015 AS AMENDED BY CHAPTER 3 OF THE MUBEC; SPECIFICALLY <u>EXCLUDES</u> THE FOLLOWING FROM ADOPTION: <ul style="list-style-type: none"><li>- CHAPTER 29 PLUMBING SYSTEMS (MUBEC ADOPTS THE MAINE STATE PLUMBING CODE)</li><li>- APPENDIX A - M</li><li>- ALL REFERENCES TO THE INTERNATIONAL MECHANICAL CODE (REFERENCE CHANGE TO APPLICABLE STATE CODES AND STANDARDS)</li><li>- ALL REFERENCES TO THE INTERNATIONAL FIRE CODE (IFC) (REFERENCE CHANGE TO NPFA 1 AS ADOPTED AND AMENDED BY STATE REGULATIONS.)</li></ul>2015 - INTERNATIONAL ENERGY CONSERVATION CODE (IECC), AS AMENDED BY THE MUBEC - AMMENDMENTS <u>TO BE CONFIRMED</u> RULES OF THE STATE FIRE MARSHAL, SPECIFICALLY: <ul style="list-style-type: none"><li>- CHAPTER 3: FIRE PREVENTION CODE - AMENDED 11/27/19 (ADOPTS AND AMENDS NFPA 1 UNIFORM FIRE CODE, 2018 ED)</li><li>- CHAPTER 4: WATER-BASED FIRE PROTECTION SYSTEMS - AMENDED 6/4/16 (ADOPTS AMONG OTHERS, NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2016)</li><li>- CHAPTER 20: FIRE SAFETY IN BUILDINGS AND STRUCTURES - AMENDED 11/27/19 (ADOPTS AND AMENDS AMONG OTHERS:<ul style="list-style-type: none"><li>1. NFPA 101 LIFE SAFETY CODE 2018;</li><li>2. NFPA 80, STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2019</li><li>3. NFPA 220 STANDARD ON TYPES OF BUILDING CONSTRUCTION 2018</li><li>4. NFPA 221 STANDARD FOR HIGH CHALLENGE FIRE WALLS, FIRE WALLS AND FIRE BARRIER WALLS 2018</li><li>5. NFPA 241 STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS 2019</li></ul>)</li></ul>CITY OF AUGUSTA: <ul style="list-style-type: none"><li>AUGUSTA CODE OF ORDINANCES - PART III GENERAL LEGISLATION</li><li>CHAPTER 134 BUILDING CONSTRUCTION, SECTION 134-1 ADOPTION OF BUILDING CODES</li><li>INTERNATIONAL BUILDING CODE (LATEST EDITION) <u>EXCEPT FOR</u> (AMONG OTHERS)<ul style="list-style-type: none"><li>1. CHAPTER 13 ENERGY EFFICIENCY</li><li>2. CHAPTER 27 ELECTRICAL</li><li>3. CHAPTER 28 MECHANICAL SYSTEMS</li><li>4. CHAPTER 29 PLUMBING SYSTEMS</li><li>5. CHAPTER 30 ELEVATORS AND CONVEYING SYSTEMS</li><li>6. CHAPTER 36 REFERENCED STANDARDS</li></ul></li><li>CHAPTER 148 FIRE PREVENTION, SECTION 148-16 ADOPTION OF LIFE SAFETY CODE</li><li>NFPA 101 LIFE SAFETY CODE (AS ADOPTED BY THE STATE OF MAINE).</li></ul></div>
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E					
D					
C					
B					
A					



S:\Main State Bids\36182\181234 15 Columbia St Fire Alarm\0 Drawings\Sheet\FA101



**A1** FIRST LEVEL FIRE ALARM PLAN

1/8" = 1' - 0"

0 4' 8' 16'

## NOTES

- SEE SHEET FA001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- ALL FIRE ALARM DEVICES REPLACE EXISTING SYSTEM DEVICES AT THE SAME LOCATION UNLESS OTHERWISE INDICATED. EXTEND EXISTING EMT CONDUIT FOR NEW DEVICES AS NECESSARY.
- ALL NEW AUDIO/VISUAL DEVICES SHALL BE 15/75 CANDELA INTENSITY UNLESS OTHERWISE INDICATED.

## KEYED NOTES

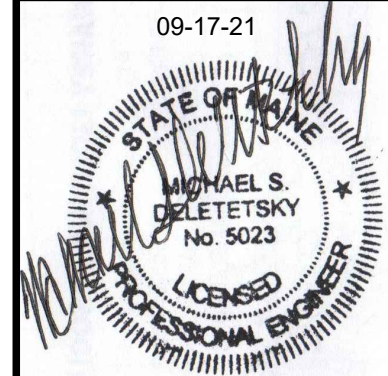
- PROVIDE NEW 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO 2ND LEVEL IT CLOSET/CAGE FOR SYSTEM COMMUNICATIONS LINK VIA STATE OF MAINE INFRASTRUCTURE. PROVIDE A 4-STRAND MULTI-MODE FIBER OPTIC CABLE WITH TERMINATIONS AS REQUIRED. COORDINATE ALL WORK WITH STATE OF MAINE CONTRACTING OFFICER AND IT DEPARTMENT.
- NEW FIRE ALARM DEVICE LOCATION. MODIFY EXISTING CONDUIT FOR NEW SYSTEM CONFIGURATION.
- EXISTING FIRE ALARM DEVICE LOCATION TO BE REMOVED FROM NEW SYSTEM CONFIGURATION.
- EXISTING NATURAL GAS SENSOR TO BE RECONNECTED TO NEW FIRE ALARM SYSTEM FOR MONITORING PER NFPA 72. PROVIDE TROUBLE SIGNAL TO CENTRAL STATION AS CURRENTLY CONFIGURED.
- EXISTING FIRE DEPARTMENT KNOX BOX, WITHOUT FIRE ALARM SYSTEM MONITORING, TO REMAIN.
- NEW FIRE ALARM HEAT DETECTOR LOCATION AT EXISTING ACOUSTICAL CEILING OR HARD CEILING LEVEL BELOW THE ROOF DECK LEVEL OF PROTECTION
- PROVIDE FIRE ALARM CONTROL MODULE FOR ACCESS CONTROL DOOR RELEASE UPON GENERAL ALARM. COORDINATE WITH ACCESS CONTROL SYSTEM.
- EXISTING HVAC UNIT DUCT SMOKE DETECTOR AND CONTROL MODULE FOR AUTOMATIC FAN SHUT DOWN PER NFPA. MODIFY EXISTING CONTROL WIRING AS REQUIRED FOR INTEGRATION.

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**15 COLUMBIA STREET  
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AUGUSTA, ME

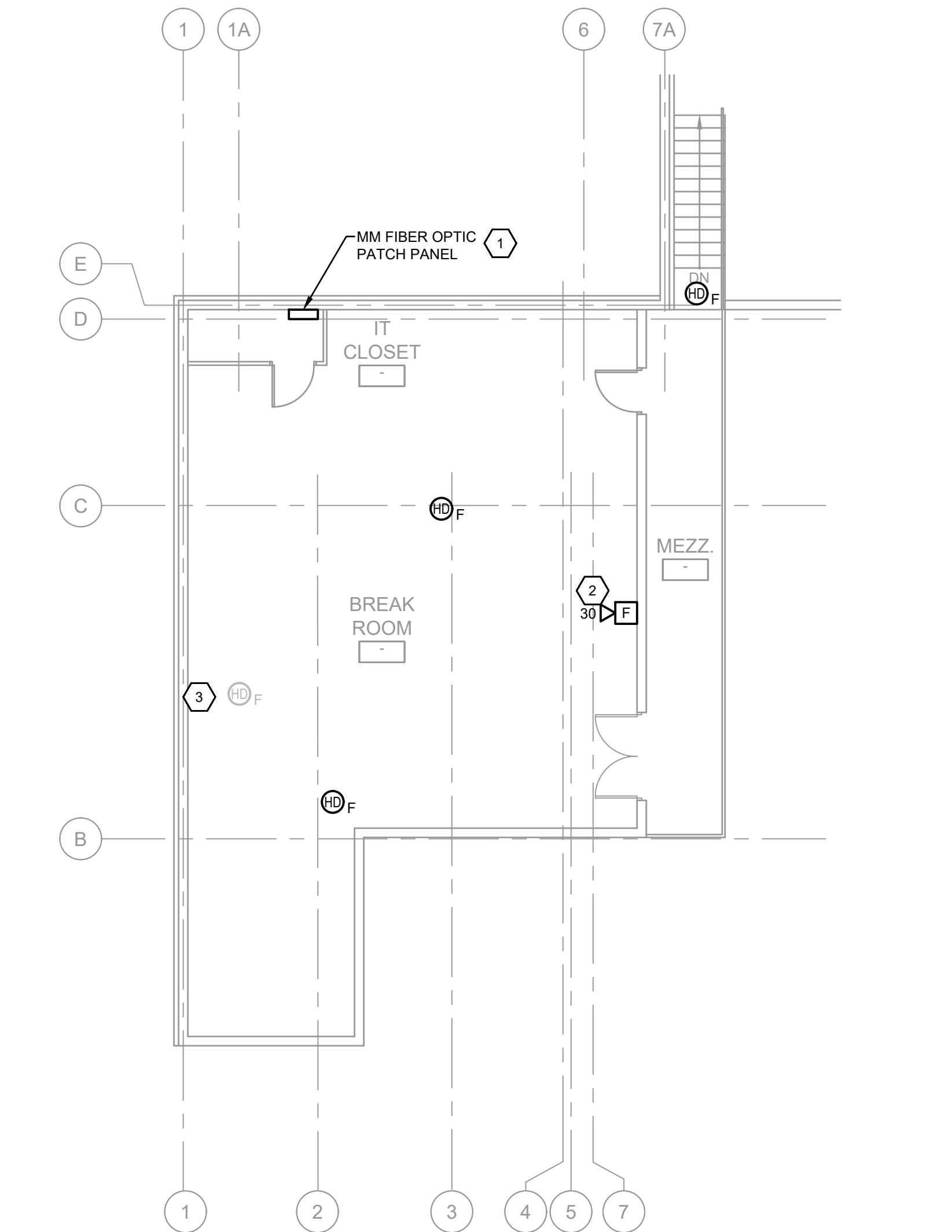
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0			09-17-21

PROJECT NO: 3618218734  
PROJECT MANAGER: KM  
A/E OF RECORD: MD  
DESIGNED BY: TR  
DRAWN BY: KN  
SHEET TITLE:

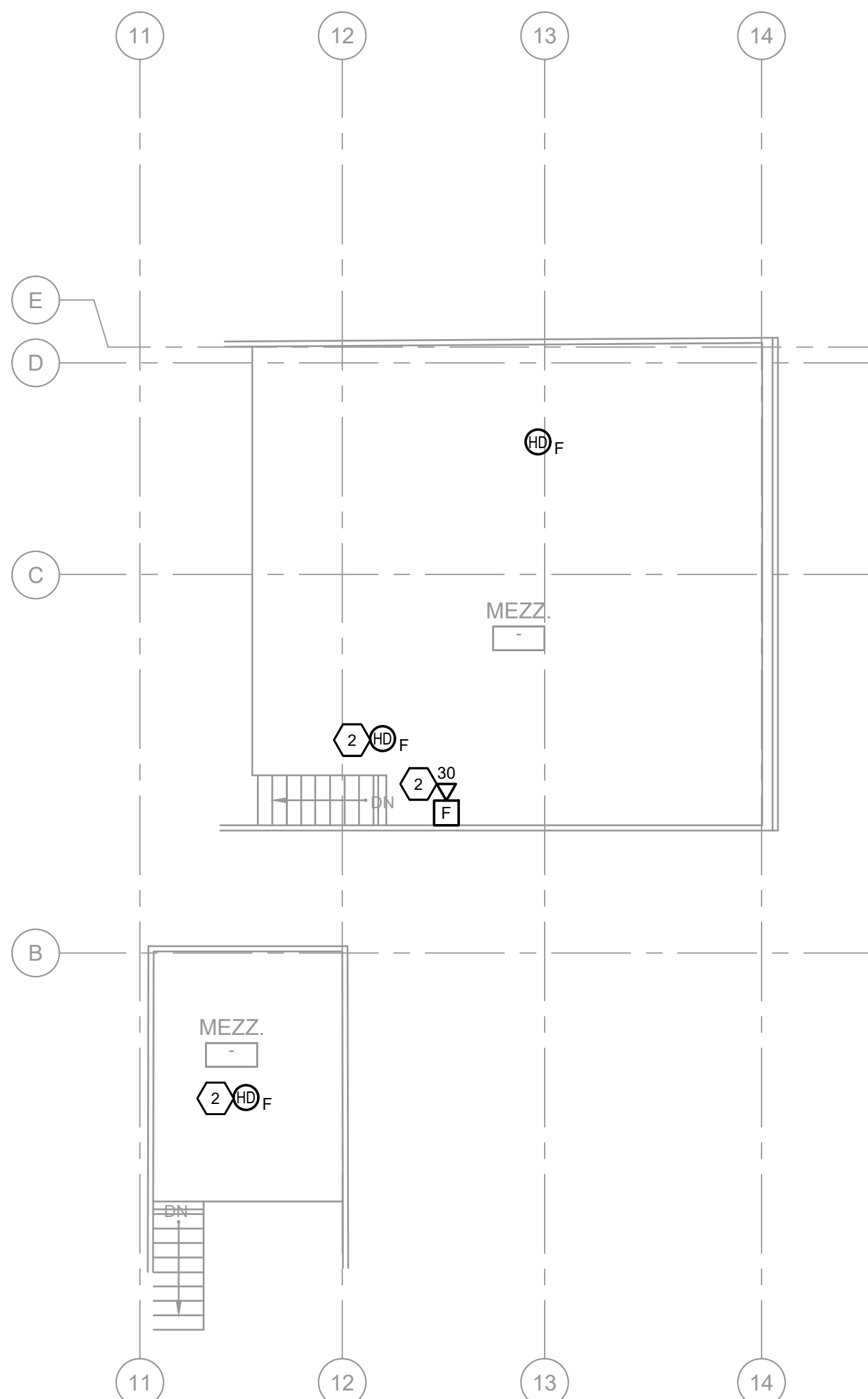
FIRST LEVEL  
PLAN

SHEET ID:  
**FA101**

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**A1** SECOND LEVEL FIRE ALARM PARTIAL PLAN  
1/8" = 1' - 0"  
0 4' 8' 16'



**A4** SECOND LEVEL FIRE ALARM PARTIAL PLAN  
1/8" = 1' - 0"  
0 4' 8' 16'

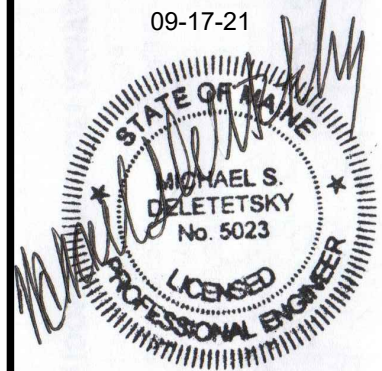
## NOTES

- SEE SHEET FA001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- ALL FIRE ALARM DEVICES REPLACE EXISTING SYSTEM DEVICES AT THE SAME LOCATION UNLESS OTHERWISE INDICATED. EXTEND EXISTING EMT CONDUIT FOR NEW DEVICES AS NECESSARY.
- ALL NEW AUDIO/VISUAL DEVICES SHALL BE 15/75 CANDELA INTENSITY UNLESS OTHERWISE INDICATED.

## KEYED NOTES

- EXISTING 2ND LEVEL IT CAGE FOR SYSTEM COMMUNICATIONS OVER STATE INFRASTRUCTURE. COORDINATE ALL WORK WITH STATE OF MAINE CONTRACTING OFFICER AND IT DEPARTMENT.
- NEW FIRE ALARM DEVICE LOCATION. MODIFY EXISTING CONDUIT AND WIRING FOR NEW SYSTEM CONFIGURATION.
- EXISTING FIRE ALARM DEVICE NOT SHOWN. LOCATION TO BE REMOVED. MODIFY EXISTING CONDUIT AND WIRING FOR NEW SYSTEM CONFIGURATION.

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**15 COLUMBIA STREET  
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0	ISSUED FOR CONSTRUCTION	09-17-21

PROJECT NO: 3818218734  
PROJECT MANAGER: KM  
A/E OF RECORD: MD  
DESIGNED BY: TR  
DRAWN BY: KN

SHEET TITLE:

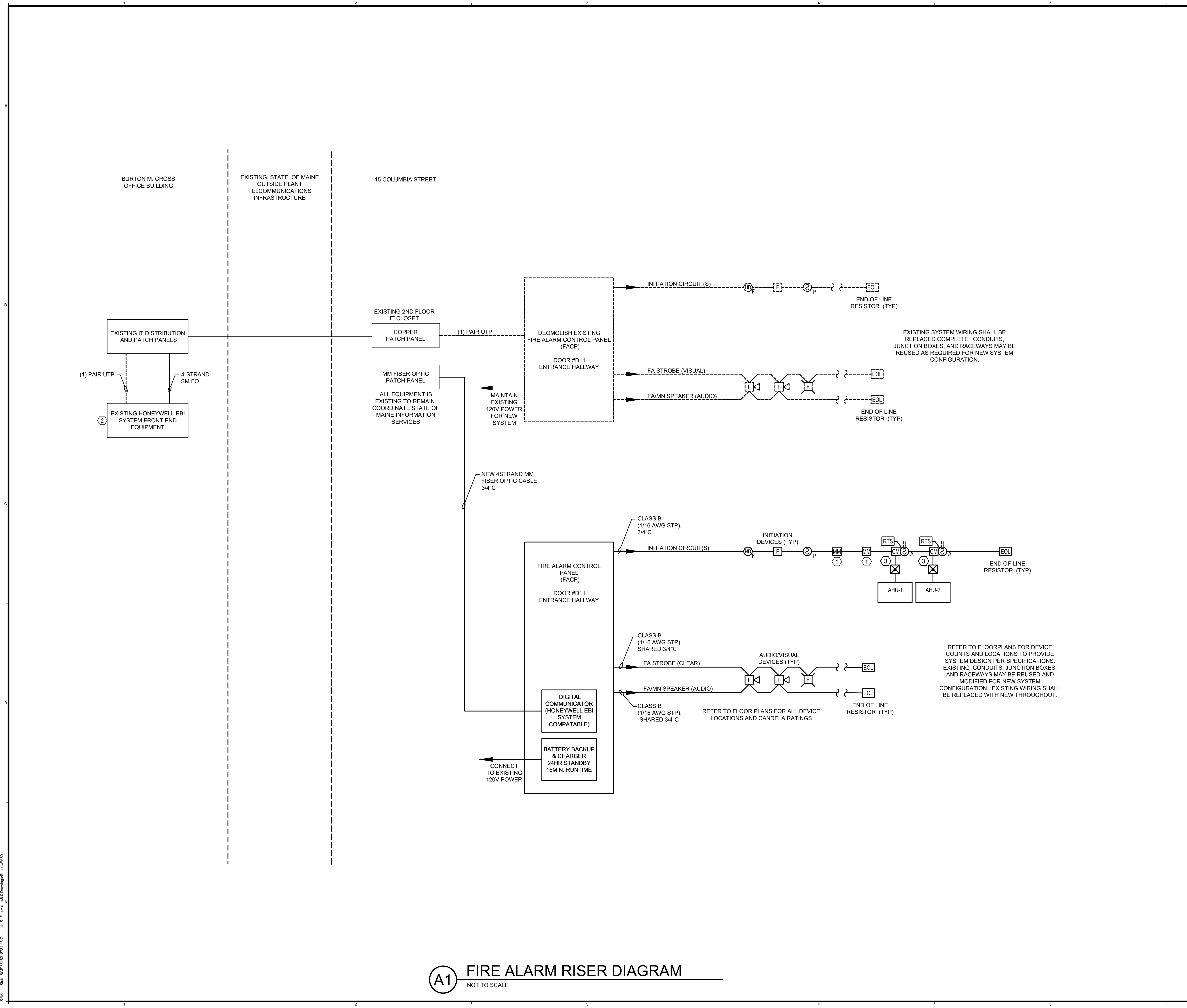
SECOND LEVEL &  
MEZZANINE PLAN

SHEET ID:

**FA102**

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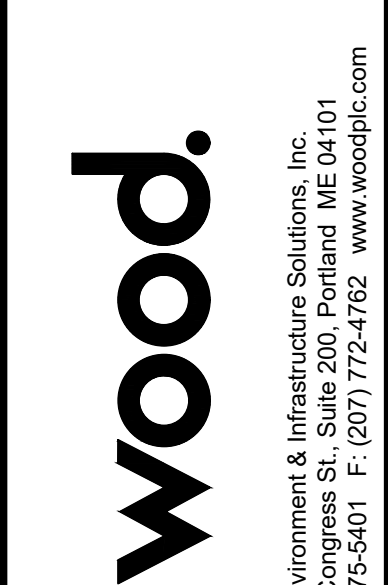


NOTE

1. SEE SHEET FA001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

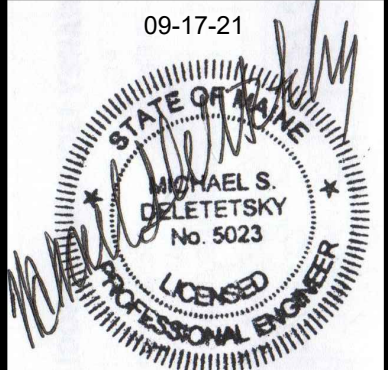
KEYED NOTES

1. PROVIDE SUPERVISED CONNECTION TO EXISTING BOILER ROOM NATURAL GAS SENSOR FOR TROUBLE SIGNAL TO CENTRAL STATION.
2. COORDINATE INSTALLATION OF NEW FIBER OPTIC INTERFACE TO EBI SYSTEM AND DEMO OF EXISTING COPPER CONNECTIONS WITH STATE OF MAINE INFORMATION SERVICES AS REQUIRED.
3. REMOVE AND REPLACE EXISTING HVAC UNIT DUCT SMOKE DETECTOR AND CONTROL MODULE FOR AUTOMATIC FAN SHUT DOWN PER NFPA. MODIFY EXISTING CONTROL WIRING AS REQUIRED FOR NEW SYSTEM INTEGRATION.



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PROJECT NO: 3618218734

PROJECT MANAGER: KM

A/E OF RECORD: MD

DESIGNED BY: TR

DRAWN BY: KN

SHEET TITLE:  
**RISER DIAGRAM**

SHEET ID:  
**FA601**