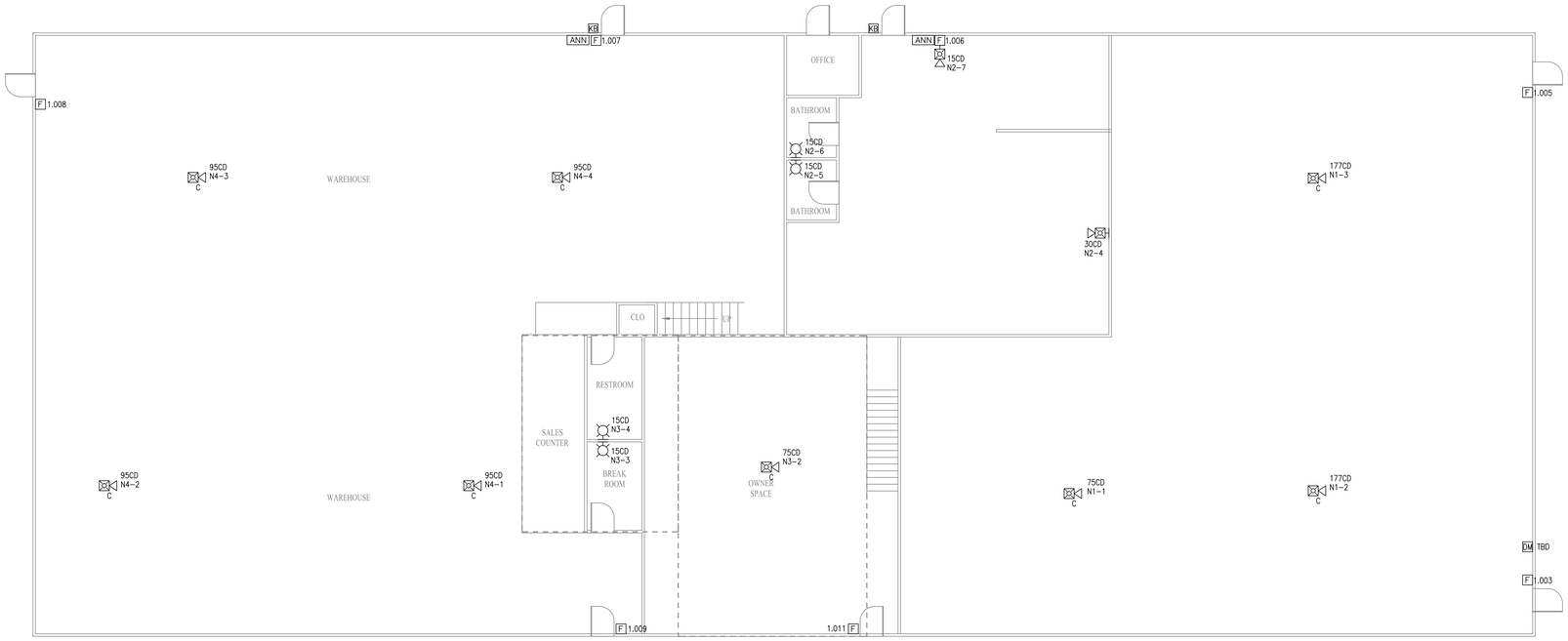
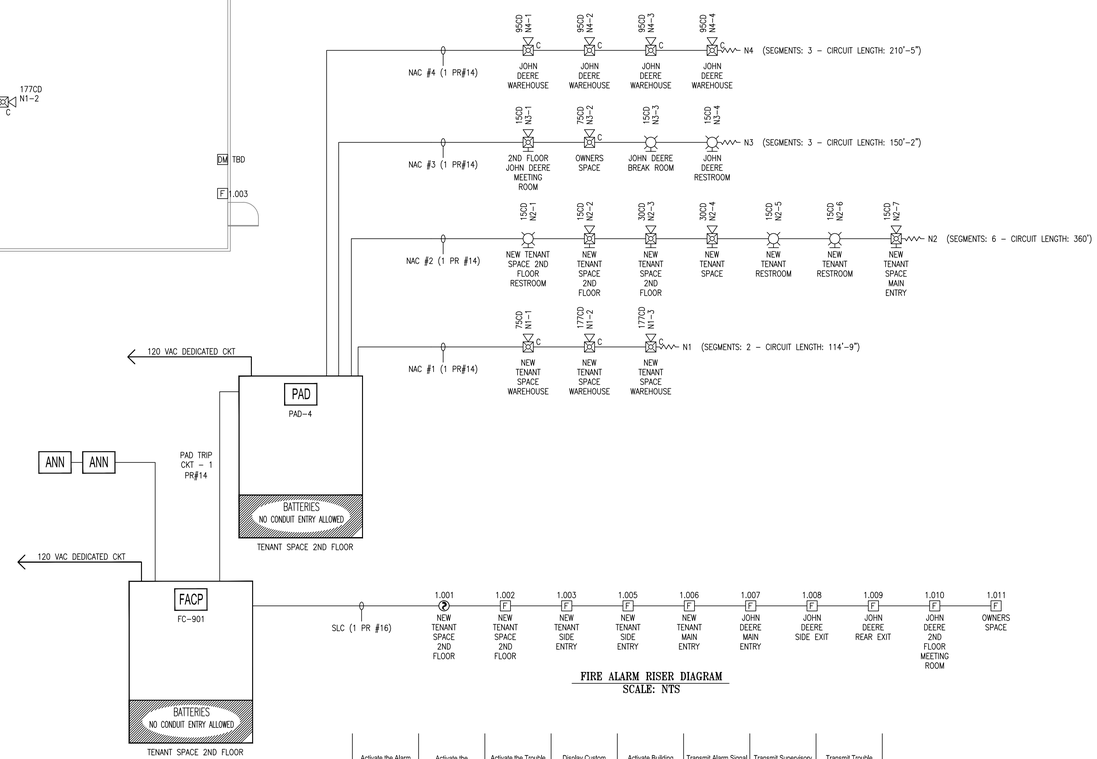
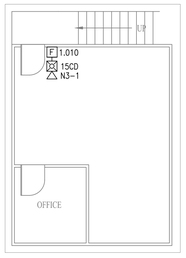


FIRE ALARM SYSTEM LAYOUT - 1ST FLOOR
SCALE: 1/8" = 1'

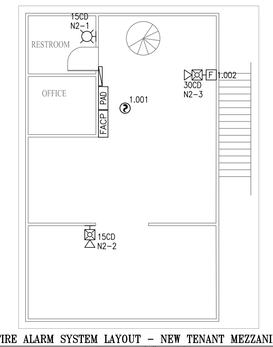
SYMBOL LEGEND			
ITEM NO.	SYMBOL	QTY. TOTAL	DESCRIPTION
1		1	STANDARD BASE (DB-11) - OCTAGON BOX
2	DM	1	DUAL MONITOR MODULE (HTRI-D) - 4" SQUARE
3	F	9	PULL STATION (MSM-KD/HTRI-M) - SINGLE GANG
4		1	SMOKE DETECTOR (OH921) - OCTAGON BOX
5	15CD	3	HORN/STROBE (ZH-MC-R) - 4" SQUARE OR SINGLE GANG
6	177CD	2	HORN/STROBE (ZH-HMC-CR) - 4" SQUARE OR SINGLE GANG
7	30CD	2	HORN/STROBE (ZH-MC-R) - 4" SQUARE OR SINGLE GANG
8	75CD C	2	HORN/STROBE (ZH-MC-CR) - 4" SQUARE OR SINGLE GANG
9	95CD C	4	HORN/STROBE (ZH-MC-CR) - 4" SQUARE OR SINGLE GANG
10	15CD	5	STROBE (ZR-MC-R) - 4" SQUARE OR SINGLE GANG
11	ANN	2	ANNUNCIATOR (FSD901)
12	FACP	1	FIRE ALARM CONTROL PANEL (FC901)
13	PAD	1	PAD PANEL (PAD-4)
14		1	RADIO MASTER BOX (CENTRALARM NETWORK)
15	KB	2	KNOX BOX



FIRE ALARM RISER DIAGRAM
SCALE: NTS



FIRE ALARM SYSTEM LAYOUT - JOHN DEERE MEZZANINE
SCALE: 1/8" = 1'



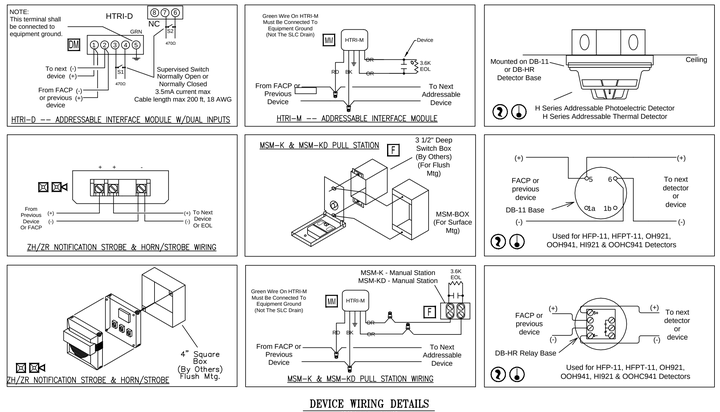
FIRE ALARM SYSTEM LAYOUT - NEW TENANT MEZZANINE
SCALE: 1/8" = 1'

FC 901 Battery Calculations			
Qty	Module/Device	Standby Current (A)	Alarm Current (A)
1	Main Board	0.17800	0.20300
2	Remote Annunciator	0.00120	0.00140
1	Smoke Detector	0.00030	0.00030
9	Manual Pull Station	0.01260	0.01260
1	Monitor Module	0.00140	0.00140
1	Relay Module	0.00140	0.00140
	NAC #1 Load	0.00000	0.00000
	NAC #2 Load	0.00000	0.00000
	Total Current	0.1949	0.2201
	Standby Time (24 Hours)	4.6776	
	Alarm Time (5 Minutes)		0.0182683
	A/hrs Required (No Reserve)		4.6958683
	Battery Reserve (125%)		5.869835375
	Battery Size Provided		**7 A/hr**

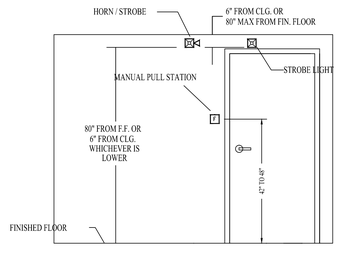
PAD-4 Battery Calculations			
Qty	Module/Device	Standby Current (A)	Alarm Current (A)
1	Standard Operating Unit	0.06000	0.06000
	NAC #1	0.00000	1.23400
	NAC#2	0.00000	0.57400
	NAC#3	0.00000	0.41400
	NAC#4	0.00000	1.16800
	Total Current	0.06	3.45
	Standby Time (24 Hours)	1.44	
	Alarm Time (5 Minutes)		0.28635
	A/hrs Required (No Reserve)		1.72635
	Battery Reserve (125%)		2.1579375
	Battery Size Provided		**7 A/hr**

	Activate the Alarm LED and Buzzer on the FACP & Remote Annunciator(s)	Activate the Supervisory LED and Buzzer on the FACP & Remote Annunciator(s)	Activate the Trouble LED and Buzzer on the FACP & Remote Annunciator(s)	Display Custom Message and Address on FACP & Remote Annunciator(s) Display	Activate Building Notification Devices	Transmit Alarm Signal to Central Station	Transmit Supervisory Signal to Central Station	Transmit Trouble Signal to Central Station	
Smoke Detector	XX			XX	XX	XX			
Heat Detector	XX			XX	XX	XX			
Manual Pull Station	XX			XX	XX	XX			
Sprinkler Waterflow	XX			XX	XX	XX			
Sprinkler Tamper		XX		XX			XX		
Short Circuit			XX	XX				XX	
Ground Fault			XX	XX				XX	
Open Circuit			XX	XX				XX	
Loss of Primary Power			XX	XX				XX	
Loss of Secondary Power			XX	XX				XX	
AES Radio Box Trouble			XX	XX				XX	

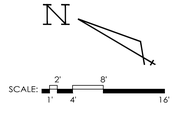
OPERATIONS MATRIX



DEVICE WIRING DETAILS
SCALE: NTS



DEVICE ELEVATION DETAIL
NOT TO SCALE



GENERAL NOTES	DATE	REVISIONS	REQUIRED APPROVALS	TRANSPORT LEASING	FIRE ALARM SYSTEM
* *Installation methods shall comply with NFPA 72 &*			OWNER	15 CITY LINE DRIVE	PLANS & DETAILS
The National Electric Code			STATE FIRE MARSHAL	PORTLAND, ME	DWG. NO.
* *AES radio master box to be connected to the centalarm network for*			LOCAL FIRE DEPARTMENT		FA 1
central station monitoring					
			DRAWN BY CRM	CONTRACT WITH: OWNER	JOB NUMBER
			CHECKED BY BWB	EASTERN FIRE SERVICES, INC.	SCALE AS SHOWN
			CONTRACTOR LICENSE #	AUBURN/LEWISTON INDUSTRIAL AIRPARK, AUBURN, MAINE 04210	DATE 6/25/15