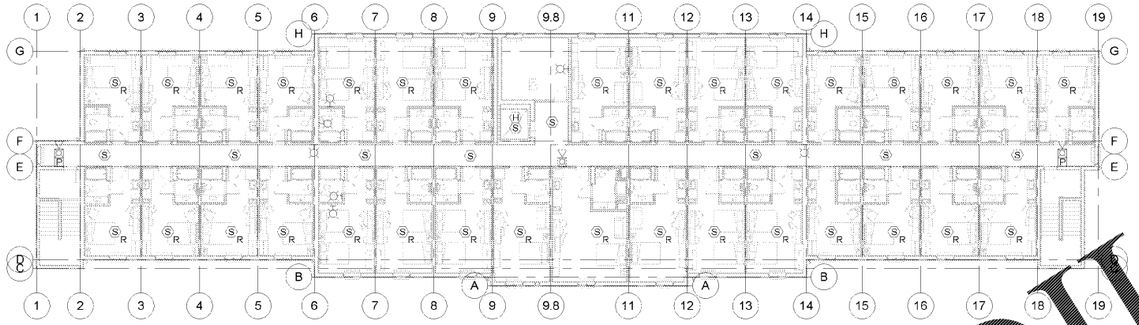
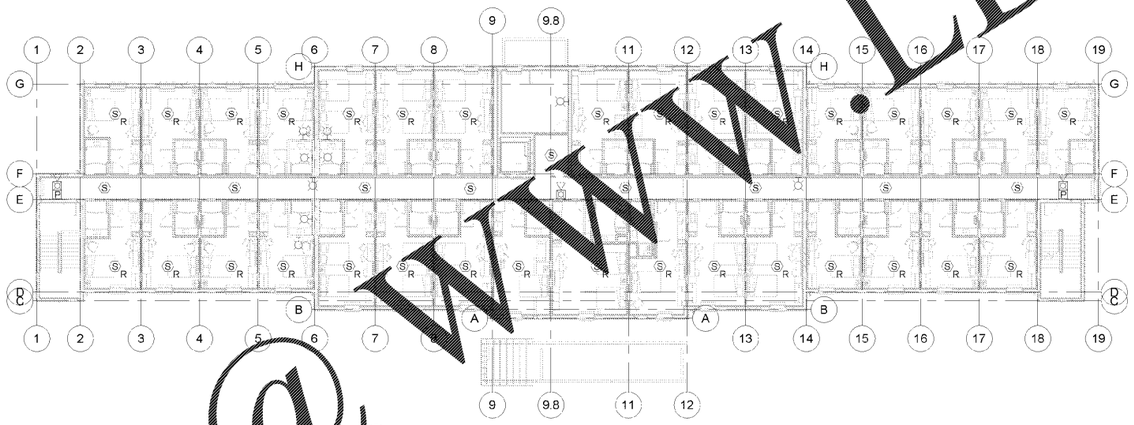
FIRE ALARM MATRIX

	INPUTS		OUTPUTS 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
			ACTUATE COMMON ALARM SIGNAL LAMP	ACTUATE COMMON SUPERVISORY SIGNAL LAMP	ACTUATE COMMON TROUBLE SIGNAL LAMP	ACTUATE PIEZO - FACP/ ANNUNCIATOR	ACTUATE AUDIO/VISUAL DEVICES - GENERAL ALARM	ACTUATE AUDIO/VISUAL DEVICES - LOCAL ALARM	ACTUATE FIRE/SMOKE DAMPERS BY LOCATION	ACTUATE SMOKE RELIEF DAMPER TOP OF ELEVATOR SHAFT	SHUTDOWN AIR HANDLER EQUIPMENT WITH ASSOCIATED DUCT DETECTOR	UNLOCK ACCESS CONTROLLED DOORS	RELEASE ELECTROMAGNETICALLY CLOSED DOORS	RECALL ELEVATOR TO PRIMARY RECALL FLOOR	RECALL ELEVATOR TO ALTERNATE RECALL FLOOR	ACTIVATE ELLEVATOR WARNING LIGHTS	ACTIVATE ELEVATOR SHUNT TRIP	TRANSMIT SIGNAL TO CENTRAL STATION	
COMMON AREA	MANUAL PULL BOX	A	●			●	●	●	●	●		●	●					●	A
	SMOKE DETECTOR	B	●			●	●	●	●	●		●	●					●	B
	HEAT DETECTOR	C	●			●	●	●	●	●		●	●					●	C
	DUCT DETECTOR	D		●		●					●	●						●	D
ELEVATOR	ELEVATOR LOBBY SMOKE - NOT FLOOR 1	E	●			●	●	●	●	●		●	●	●				●	E
	ELEVATOR LOBBY SMOKE - FLOOR 1	F	●			●	●	●	●	●		●	●		●			●	F
	SMOKE DETECTOR ELEVATOR MACHINE ROOM	G	●			●	●	●	●	●		●	●	●		●		●	G
	HEAT DETECTOR ELEVATOR MACHINE ROOM	H	●			●	●	●	●	●		●	●				●	●	H
	SMOKE DETECTOR ELEVATOR PIT	I	●			●	●	●	●	●		●	●			●	●	●	I
	HEAT DETECTOR ELEVATOR PIT	J	●			●	●	●	●	●		●	●				●	●	J
	SMOKE DETECTOR ELEVATOR TOP OF SHAFT	K	●			●	●	●	●	●		●	●	●			●	●	K
	HEAT DETECTOR ELEVATOR TOP OF SHAFT	L	●			●	●	●	●	●		●	●				●	●	L
	FLOW SWITCH ELEVATOR MACHINE ROOM	M	●			●	●	●	●	●		●	●				●	●	M
	TAMPER SWITCH ELEVATOR MACHINE ROOM	N		●		●				●								●	N
	FLOW SWITCH TOP OF SHAFT	O	●			●	●	●	●	●		●	●				●	●	O
	TAMPER SWITCH TOP OF SHAFT	P		●		●												●	P
FIRE SPRINKLER	FIRE PUMP RUN	Q		●		●												●	Q
	FIRE PUMP PHASE REVERSAL	R		●		●												●	R
	FIRE PUMP PHASE FAIL	S		●		●												●	S
	FLOW SWITCH	T	●			●	●	●	●			●	●					●	T
	TAMPER SWITCH	U		●		●												●	U
	DRY SYSTEM LOW HILOW	V		●		●												●	V
	HEAT TRACE FAULT	W		●		●												●	W
SYSTEM	SYSTEM ALARM	X	●			●	●	●	●			●	●					●	X
	SYSTEM SUPERVISORY	Y		●		●												●	Y
	SYSTEM TROUBLE	Z			●	●												●	Z
	GROUND FAULT	AA			●	●												●	AA
	FIRE ALARM SYSTEM LOW BATTERY	BB			●	●												●	BB
	FIRE ALARM AC POWER FAILURE	CC			●	●												●	CC
	NOTIFICATION APPLIANCE SHORT CIRCUIT	DD			●	●												●	DD
	OPEN CIRCUIT	EE			●	●												●	EE
WITHIN SUITES	SMOKE DETECTOR	FF		●			●		●									●	FF
	CO DETECTOR	GG		●			●		●									●	GG
	COMBINATION DETECTOR (SMOKE/CO)	HH		●			●		●									●	HH
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	



3 FIRE ALARM 4TH FLOOR
SCALE: 1/16" = 1'-0"



2 FIRE ALARM 2ND FLOOR (TYPICAL FOR 3RD FLOOR)
SCALE: 1/16" = 1'-0"

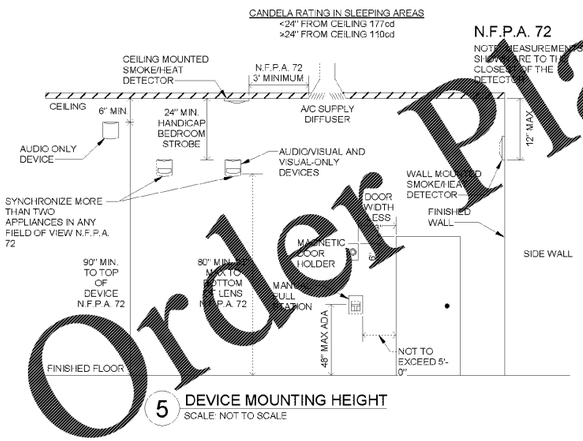
1 FIRE ALARM 1ST FLOOR
SCALE: 1/16" = 1'-0"

FIRE ALARM GENERAL NOTES

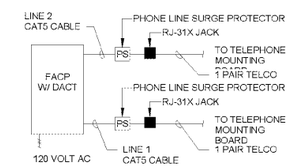
1. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
2. REFER TO RELATED ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION.
3. REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
4. COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF CMU BLOCK.
5. ALL MOUNTING HEIGHTS TO BOTTOM OF ITEM UNLESS NOTED OTHERWISE.
6. WHERE AREA SMOKE DETECTORS ARE SHOWN ON THE DRAWINGS, THE ELECTRICAL CONTRACTOR SHALL NOT LOCATE SMOKE DETECTORS CLOSER THAN 3 FEET FROM ANY MECHANICAL AIR SUPPLY OR RETURN DIFFUSER, GRILLE OR REGISTER FOR HVAC. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR LOCATION OF DETECTOR.
7. ALL FIRE ALARM DEVICE LOCATIONS AND DETAILS ARE FOR REFERENCE ONLY. LOCAL GOVERNING CODES AND REQUIREMENTS SHALL TAKE PRECEDENCE OVER ALL DETAILS FOR LOCATIONS AND MOUNTING HEIGHTS. VERIFY LOCAL GOVERNING CODES AND REQUIREMENTS WITH LOCAL INSPECTION DEPARTMENT PRIOR TO BID. COMPLETE FIRE ALARM SYSTEM, INSTALLATION AND OPERATIONS SHALL MEET THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. ALL INITIATING DEVICES MUST BE ADDRESSABLE. "STANDARD" DEVICES WILL NOT BE ALLOWED UNLESS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
8. HEARING IMPAIRED SUITES REQUIRE ADDITIONAL STROBE LIGHTS. FIELD VERIFY ROOMS THAT REQUIRE ADDITIONAL STROBES. STROBES SHALL BE LOCATED AS REQUIRED BY NATIONAL, STATE, AND LOCAL ORDINANCES. HEARING IMPAIRED ROOM NUMBERS ARE 124, 125, 126, 224, 225, 226, 324, 325, 326, 415, 417, 425, AND 426.
9. ADA ROOMS ARE 121, 125, 215, 217, 315, 317, AND 417.
10. ALL AUDIO DEVICES WITHIN SLEEPING AREAS SHALL PRODUCE A 520 HZ, LOW-FREQUENCY SIGNAL PER N.F.P.A. 72.
11. ALL WALL MOUNTED VISIBLE NOTIFICATION APPLIANCES, LOCATED IN SLEEPING AREAS, SHALL BE NO CLOSER THAN 24" TO THE CEILING AND HAVE A CANDELA RATING NO LESS THAN 177cd. APPLIANCES MOUNTED ON THE WALL CLOSER THAN 24" TO THE CEILING OR ON THE CEILING SHALL HAVE A CANDELA RATING NOT LESS THAN 177cd PER N.F.P.A. 72.
12. ALL NOTIFICATION APPLIANCES SHALL BE WHITE IN COLOR.
13. PROVIDE CO DETECTION IN ALL AREAS AND SUITES AS REQUIRED PER THE INTERNATIONAL BUILDING CODE. CONFIRM ALL REQUIREMENTS WITH LOCAL AHJ.

FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION	MOUNTING
(F)	FIRE ALARM MANUAL PULL STATION	4'-0" TO TOP
(F)◁	COMBINATION F.A. HORN & STROBE SIGNAL	WALL 80" A.F.F.
H◁	FIRE ALARM STROBE SIGNAL	WALL 80" A.F.F.
(S)	AREA SMOKE DETECTOR, SEE F.A. GENERAL NOTE #6	CEIL./WALL
■	FIRE ALARM MAGNETIC DOOR HOLD OPEN (HOLD OPEN)	VERIFY
(S) R	RESIDENT ROOM SMOKE DETECTOR AND SOUNDER BASE	CEIL./WALL
(H)	AREA HEAT DETECTOR	CEIL./WALL
H◁	HEARING IMPAIRED HORN & STROBE SIGNAL	WALL 80" A.F.F.



5 DEVICE MOUNTING HEIGHT
SCALE: NOT TO SCALE



4 FACP PHONE LINE DETAIL
SCALE: NOT TO SCALE

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