ABBREVIATIONS					
&	AND	GPM	GALLONS PER MINUTE		
Ø /R	ROUND ON ROOF	HD H.P.	HEAD HIGH PRESSURE		
A	AIR	HTG	HEATING		
AB ABV	ABOVE BASE	IN	INLET		
ACOUS	ACOUSTICAL		INSULATION	ΔΡΜ	
ADD	ADDITIONAL	ITC	INSPECTOR TEST CONNECT	ACU	
AFF	ABOVE FINISHED FLOOR	JT LAB	JOINT LABORATORY	BAT FMC	
AHJ	AUTHORITY HAVING JURISDICTION			DAC	
ALT ALV	ALTERNATE ALARM VALVE	LB LB/HR	POUND POUNDS PER HOUR	FAA FAC	
ALUM		LF	LINEAL FOOT	FSC	
ARCH	ACCESS PANEL ARCHITECT/ARCHITECTURAL	LOC	LOCATION LOW PRESSURE	GAP LCD	
		MA	MIXED AIR	LOC	
BFF	BELOW FINISHED FLOOR	MAN MAX	MANUAL MAXIMUM	NAC PRE	
BFV BSMT	BUTTERFLY VALVE BASEMENT	MD MFR	MOTORIZED DAMPER MANUFACTURER	PRN	
BTWN	BETWEEN	MIN	MINIMUM	UPS	
CAP	CONSTANT FLOW CNTRL. VL.	MISC MRA	MISCELLANEOUS MOST HYDRAULICALY	EVA	
CFM	CUBIC FEET PER MINUTE		DEMANDING AREA		
CIS	COMMON INTELLIGEBELITY SYS.	NIC NFPA	NOT IN CONTRACT NATIONAL FIRE PROTECTION		
CEG	CEILING		ASSOCIATION		
COMB	COMBINATION	NP	NOT TO SCALE		
		0 OPNG			
COORD	COORDINATE	PD	PRESSURE DROP		
COR CTR	CONTRACTOR OFFICES REP. CENTER	PIV PR	POST INDICATOR VALVE PAIR	AS CO2	
CUFT	CUBIC FEET	PREL	PRELIMINARY	CA	
D/° DCA	DEGREE DETECTOR CHECK ASSY.	PS PRIM	PRESSURE PRIMARY	DL DC	
	DOUBLE DETECTOR CK. ASSY.	PRV PSI	PRESS. REDUCING VALVE	EPC	
DIA	DUCTILE IRON	PSIG	LBS. PER SQ. IN. GAUGE	⊢ HL	
	DISCHARGE	PW REC	POTABLE WATER RECESSED	PRE	
DNI IX	DOWN	RED	REDUCER	WC	
DWG EA	DRAWING EACH	REQD SF	SQUARE FOOT		
ECS	EMERGENCY COMM. SYSTEM	SD SIM	SMOKE DAMPER		
EAH EX	EXISTING	SLV	SLEEVE		
EXP	EXPANSION EXPANSION IOINT	SP SPS	STATIC PRESSURE STATIC PRESSURE STATION		
ESP	EXTERNAL STATIC PRESSURE	SQ	SQUARE		
F FD	DEGREES FAHRENHEIT FIRE DAMPER	STD	STANDARD	CO	
FDV	FIRE DEPARTMENT VALVE	T SYS	THERMOSTAT	CA	
FHV	FIRE HOSE VALVE	TCP	TEMP. CONTROL PANEL	DC	
FPI FI FX	FINS PER INCH FI FXIBI F	TD TEMP	TEMPERATURE	F HI	
FLG	FLANGE	TSP TYP	TOTAL STATIC PRESSURE	M	
FI	FOOTING	U/G	UNDER GROUND	P WM	
FUT	FUTURE	U/S UNO	UNDER SLAB UNLESS NOTED OTHERWISE	WC	
GALV	GALVANIZED	VL	VALVE		
	EQUIPMENT ABE	BREVIAT	IONS		
DBP	DOMESTIC WATER BOOST PUMP	FDCP	F.A. ACCESS PANEL		
DCA DDCA	DETECTOR CHECK ASSY. DOUBLE DETECTOR CHECK ASSY	FMCP FAA	F.A. MASS NOTIFICATION PNL.		
FHR	FIRE HOSE STATION	LOC	LOCAL OPERATOR CONSOLE	SYME	
F.A. FPU	FIRE ALARM FIRE PUMP	NRSV ITC	NON-RISING STEM VALVE	∇	
FDC	FIRE DEPARTMENT CONTROL	PNL	PANEL		
	FIRE ALARM	PHASIN	IG		
			STRUCTION FIRE		
		W CONS	STRUCTION)	>o $($	
	<u> </u>				
		ISTING I	FIRE ALARM EQUIPMENT	<u>~</u> ₽`	
		RE AI AR			
DEMOLITION (TYPICAL FOR ALL					
(D)FACP					
FIRE ALARM SHEET SET NOTE					
* NOTE *					
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO					
SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THE					
CONTAINED REFERENCE DRAWINGS.					

	FIF		M DEVICES	
г			FIRE ALARM CONTRO	L PANEL
	####		FIRE ALARM PANEL T	YPE
	CONTROL I	PANELS	ABBREVIATIONS:	
APM ACU BATT FMCP DACT FAA FACP FSCP GAP LCD LOC NAC PRE PRN MIC UPS EVAC	AMPLIFIER F AUTONOMO BATTERY CA COMBI. FIRE DIGITAL ALA FIRE ALARM FIRE ALARM FIRE SUPPR GRAPHIC AN LCD ANNUN LOCAL OPEF NOTIFICATIO PRE-ACTION PRINTER REMOTE VO UINTERRUP VOICE EVAC	RACK US CONT ABINET ALARM/ RM COM ANNUNC CONTRO ESSION INUNCIA CIATOR RATORS ON CIRCU I SYSTEM ICE TABLE PO CUATION	TROL UNIT MASS NOTIFICATION MUNICATOR TRANSM CIATOR DL CONTROL TOR CONTROL JIT POWER BOOSTER M	CONTROL
	F		-FIRE ALARM ABORT	SWITCH
	### -		-FIRE ALARM ABORT S TYPE	SWITCH
	ABOR	T SWITC	H ABBREVIATIONS:	
AS CO2 CA DL DC EPO F HL PRE WM WC	ABORT SWI CARBON DI CLEAN AGE DELUGE SP DRY CHEMI EMERGENC FOAM HALON PREACTION WATER MIS WET CHEM	TCH OXIDE NT RINKLEF CAL CY POWE I SYSTEN T ICAL	R OFF	SYMBOL S S P
	F ###		-FIRE ALARM PULL STATION -FIRE ALARM PULL	F
				WF
CO2	CARBON DI	OXIDE	ADDREVAIIIONS.	VS
CA DL DC F HL	CLEAN AGE DELUGE SP DRY CHEMI FOAM HALON	NT RINKLEF CAL	2	DH
M P WM WC	MANUAL PULL STATA WATER MIS WET CHEM	AION T ICAL		E
				AIM
				$\langle \rangle$
SYMBOL	. DESCRI CEILING	PTION 6 MOUNT	SPEAKER AND CLEAN	R STROBE, 15
∑15 ⊠	WALL N	IOUNT SI	PEAKER AND CLEAR S	STROBE, 15 C
15	CEILING) MOUNT	CLEAR STROBE, 15 C	ANDELA UNL
15 	WALL N		LEAR STROBE, 15 CAN	NDELA UNLES

	GENERAL SYMBOLS	
-	REVISION NUMBER SHOWN ON PLANS	
	POINT WHERE NEW CONNECTS TO EXISTING	GENERA
	DEMOLISH TO POINT INDICATED	
	1 FX001 NUMBER OF DETAIL ON SHEET NUMBER OF SHEET WHERE DETAIL APPEARS	2. ALL
)L	(1) KEYNOTE	3. STF 4. ALL 5. THE
	\sim PIPE CONTINUATION	CO SO
	SPACE TAG: OFFICESPACE NAME 101	6. CO AH. 7. NO CO
	ITEM TO BE DEMOLISHED	AU ⁻ 8. SEI
	AREA NOT IN CONTRACT	9. SEC BY
	FIRE ALARM DEVICE MOUNTING NOTE	FOI
-	WALL MOUNTED VISUAL DEVICES TO BE LOCATED SUCH THAT THE ENTIRE LENS OF THE STROBE IS BETWEEN 80" AND 96" AFF. ALL WALL MOUNTED NOTIFICATION DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT AFF TO ACHIEVE A UNIFORM APPEARANCE OR AS DIRECTED BY THE A/E. WATTAGE AND CANDELA ARE	10. CIR 11. ALL PAN DE
	GUIDELINES. CONTRACTOR RESPONSIBLE FOR FINAL SPACING AND TOTAL DEVICE POWER.	LOCATIO
		1. IN A CO
		2. WA
1BOL	DESCRIPTION	3. ALL 4 ALL
5 P	SPOT-TYPE SMOKE DETECTOR (P-PHOTO, 1-IONIZATION, SB-SOUNDER BASE)	5. SM
T		6. EAC
S S	(S-SUPPLY, R-RETURN)	
	HEAT DETECTOR (RATE OF RISE)	8. DAI
=	MANUAL PULL STATION (48" AFF UNLESS NOTED OTHERWISE)	9. WH
VF	WATER FLOW SWITCH	BE ⁻ SAI
/S	VALVE SUPERVISORY (TAMPER) SWITCH	CAI PO
ЭH	DOOR HOLD OPEN MODULE. PROVIDE FIRE ALARM LISTED HOLD-OPEN ASSEMBLY IF NOT CALLED OUT IN DOOR HARDWARE SCHEDULE.	PERFOR
	ELECTRIC BELL FOR WATER FLOW. INSTALL AT 9'+/- ABOVE FINISHED GRADE OR AS DIRECTED BY FIRE MARSHAL.	TR/ MA CO REI
IM	ADDRESSABLE MODULE (AIM - INPUT, AOM - OUTPUT, AIO - INPUT/OUTPUT)	2. DU THE INS
\sum	UV FLAME DETECTOR	3. FIR 4. UNI
/		5. INIT
3E, 1	5 CANDELA UNLESS NOTED OTHERWISE	ACCEPT
15 C	CANDELA UNLESS NOTED OTHERWISE	1. A C THE SH/
UNI	LESS NOTED OTHERWISE	2. ALL
INLE;	33 INUTED UTREKWISE	
		4. EAC
		SH/ SYI
		VO

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- RE ALARM SYSTEM AND DEVICES SHALL BE INSTALLED TO , AND LOCAL REQUIRMENTS.
- L FIRE ALARM INSTALLATIONS, INCLUDING PULLING OF WI VE OVERSIGHT OF A NICET LEVEL II FIRE ALARM TECHNIC ROBES SHALL BE SYNCHRONIZED PER NFPA 72.
- FIRE ALARM CABLE SHALL BE RUN IN RED FACTORY COL IESE DESIGN DOCUMENTS PROVIDE GENERAL SPACING, L ONTRACTOR SHALL BE RESPONSIBLE FOR CIRCUIT CONFIC DFTWARE CONFIGURATION, DEVICE PROGRAMMING, SYST ARRANTY.
- DNTRACTOR SHALL SUBMIT FIRE ALARM, DATA CUT-SHEET IJ AND A/E FOR REVIEW AND APPROVAL PRIOR TO BEGINM) FA DOCUMENTS/PLANS SHALL BE USED FOR INSTALLATI
- ONTAIN A REVIEW AND APPROVAL STAMP FROM THE AHJ / JTHORITY TO STOP ANY WORK UNTIL SUCH PLANS ARE ON EPARATE FIRE ALARM SPECIFICATIONS CONTAIN VERY DE
- ID SHALL BE FOLLOWED. ON-SITE AND AVAILABLE DURING CONDARY POWER PERFORMANCE TO MEET NFPA 72. 24
- ' 15 MINUTES OF ALARM FOR ALL CONNECTED DEVICES A OR THE SYSTEM SHALL ALSO BE DESIGNED TO OPERATE M NUTES IMMEDIATELY FOLLOWING DISCONNECTION OF PR RCUITS TO BE 24V TYPICAL
- . NEW SYSTEMS AND DEVICES MUST INTERFACE WITH AF NEL AND DEVICES MUST COMMUNICATE WITH EXISTING S VICES MUST INTERFACE WITH EXISTING SHELL PANEL AN

ION / SPACING

- ACCORDANCE WITH 2019 NFPA 72, STROBES MAY BE MOR **DRRIDOR WHEN ROOM SPACING CRITERIA APPLIES USING** ALL MOUNTED SPEAKER, STROBES, OR SPEAKER/STROBE
- EILING, WHICHEVER IS LOWER. _ SMOKE DETECTORS SHALL BE LOCATED WHERE THEY (
- SMOKE DETECTORS SHALL BE CEILING MOUNTED OR W IOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 3' OF
- FG CRITERIA AND APPENDIX 'A' OF NFPA 72. ACH POWER BOOSTER PANEL OR FIRE ALARM PANEL SHAL
- ETECTOR. WHEN PROVIDED, AREA DETECTORS WITHIN TH EQUIREMENT.
- HANDLER SYSTEMS OVER 2,000 CFM SHALL BE PROVIDE ETECTION OF SMOKE. THESE DETECTORS SHALL NOT INIT
- AMPER AND HVAC SMOKE DETECTORS SHALL BE PROVIDE STED WITH THE FIRE ALARM SYSTEM, AND INCORPORATE
- HERE APPLICABLE, SMOKE DETECTORS FOR AIR-HANDLEF ND RETURN DUCTS.
- ALL MOUNTED VISUAL DEVICES TO BE LOCATED SUCH THA ETWEEN 80" AND 96" AFF. ALL WALL MOUNTED NOTIFICATION AND SET A ME HEIGHT AFF TO ACHIEVE A UNIFORM APPEARANCE OF NDELA ARE GUIDELINES. CONTRACTOR RESPONSIBLE FO OWER.

RMANCE

- Y SMOKE DETECTOR THAT HAS BEEN INSTALLED PRIOR ADES AND WITHOUT PRIOR WRITTEN APPROVAL OF THE ARKED IN A MANNER THAT WILL IDENTIFY IT FROM RE-USE DMMISSIONING OF THE SYSTEM OR TURNING OVER TO THE PLACED AT THE SOLE EXPENSE OF THE INSTALLING CON JCT DETECTORS SHALL BE MONITORED FOR INTEGRITY AN
- HE FIRE ALARM PANEL. AIR HANDLER SYSTEMS SHALL BE STALLATION OF SMOKE DETECTORS.
- RE ALARM AUDIBLE ALERT SIGNALS SHALL BE SET TO TEM LESS OTHERWISE NOTED THE FOLLOWING MINIMUM SUR
- GNALING LINE CIRCUITS CLASS "B", AND NOTIFICATION CIF
- ITIATING DEVICES SHALL BE INDIVIDUALLY ADDRESSABLE

ANCE TESTING

- COMPLETED AND SIGNED RECORD (CERTIFICATE) OF COM IE CONTRACTOR TO THE AHJ, OWNER, AND A/E PRIOR TO IALL CERTIFY THAT THE CONTRACTOR HAS PRE-TESTED STEM AND REPAIRED ANY DEFICIENCIES PRIOR TO THE C
- SMOKE DETECTORS SHALL BE COMMISSIONED USING C INCTIONALLY TEST THE SMOKE CHAMBER. THE USE OF MA **IOKE DETECTORS IS STRICTLY PROHIBITED.**
- ACH AND EVERY DEVICE SHALL BE TESTED DURING COMM VER TO THE OWNER.
- ACH NOTIFICATION CIRCUIT SHALL BE TESTED UNDER STAI IAT MEASURES LESS THAN 20 VOLTS DC OR THE NAMEPLA HALL BE CONSIDERED AS FAILING THE DESIGN. NOTE: SOM NCHRONIZING MODULES CAN IMPAIR RESULTS. IF THE MO)LTAGE READINGS, THE MANUFACTURER SHOULD BE CON ANNOT BE MEASURED, CIRCUIT WIRE RESISTANCE READIN) DESIGN CALCULATIONS (MAKE SURE CIRCUIT IS REMOVE OBTAINING WIRE RESISTANCE). ONLY A QUALIFIED TECHNIC CONTRACTOR SHOULD PERFORM THIS FUNCTION.
- EACH CIRCUIT'S END-OF-LINE VOLTAGE SHALL BE DOCUMEN 5. END-OF-LINE CALCULATIONS.

	1
) THE LATEST EDITION OF NEPA 72, NEPA	
IRE AND MOUNTING OF DIVICES, SHALL	
CIAN OR HIGHER.	
OCATION, AND COORDINATION CRITERIA. GURATION, SYSTEM PERFORMANCE, TEM COMMISSIONING, AND SYSTEM	
TS, AND VOLTAGE DROP CALCULATIONS TO NING ANY WORK ON THE FA SYSTEM. ION OF THIS SYSTEM UNLESS THEY AND THE A/E. THE LOCAL AHJ HAS THE N SITE AND IN USE. TAILED INFORMATION ABOUT THIS SYSTEM ANY CONSTRUCTION. HOURS OF STANDBY POWER FOLLOWED T MAXIMUM LOAD. SECONDARY POWER MAXIMUM CONNECTER ALARM LOAD FOR 60 RIMARY POWER.	
PPLICABLE EXISTING SYSTEMS. SHELL SITE FIRE ALARMS AND TENANT FINISH ND SYSTEMS.	
RE THAN 15 FEET FROM THE END OF A THE APPROPRIATE CANDELA. ES SHALL BE AT 96" OR 6" BELOW THE	
CAN BE READILY SERVICED. /ITHIN 12" OF THE CEILING. FAN AIR-SUPPLY OR RETURN GRILLE PER	
LL BE PROTECTED BY A SMOKE IE SAME SPACE WILL SATISFY THIS	
ED WITH MEANS TO SHUT DOWN UPON THE TATE A GENERAL FIRE ALARM. ED BY THE FIRE ALARM CONTRACTOR, ADDRESSABLE MODULES. R SHUT DOWN SHALL BE ON BOTH SUPPLY	
AT THE ENTIRE LENS OF THE STROBE IS ON DEVICES SHALL BE MOUNTED AT THE R AS DIRECTED BY THE A/E. WATTAGE AND OR FINAL SPACING AND TOTAL DEVICE	
TO THE CONSTRUCTION CLEANUP OF ALL ENGINEER AND LOCAL AHJ SHALL BE E AND SHALL BE REPLACED PRIOR TO E OWNER. SUCH DETECTORS SHALL BE ITRACTOR. ND PROVIDE A SUPERVISORY SIGNAL AT RAN AND BLOWN OUT PRIOR TO	
APORAL CODE PER NFPA 72. RVIVABILITY CRITERIA SHALL BE MET: RCUITS CLASS "B".	
IPLETION FORM SHALL BE PROVIDED BY COMMISSION TESTING. THIS CERTIFICATE EVERY DEVICE AND FUNCTION OF THE COMMISSIONING TEST. CANNED SMOKE OR A METHOD THAT WILL AGNETS FOR COMMISSION TESTING OF	
IISSIONING AND PRIOR TO BEING TURNED	
NDBY/BATTERY POWER. ANY CIRCUIT ATE VOLTAGE, WHICHEVER IS HIGHER, ME SYSTEMS INCORPORATING ODULE CANNOT BE BYPASSED FOR NTACTED FOR GUIDANCE. WHEN VOLTAGE NGS AND DEVICE LOAD MAY BE COMPARED ED FROM POWER SUPPLY WHEN CIAN EMPLOYED BY THE INSTALLING	
NTED FOR COMPARISON TO THE DESIGN	

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