

GENERAL NOTES

- EACH ALARM AND SUPERVISORY SIGNAL INITIATING DEVICE CIRCUIT SHALL BE WIRED FOR CLASS "B", STYLE "4" OPERATION. FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT SHALL BE WIRED FOR CLASS "B", STYLE "Y" OPERATION.
- 2. THE EXTERIOR OF ALL FIRE ALARM SYSTEM JUNCTION BOXES SHALL BE PAINTED RED.

ALL PENETRATIONS IN WALLS, CEILINGS, AND FLOORS SHALL BE SEALED TO THE FULL THICKNESS OF THE PENETRATION WITH AN APPROVED FIRE STOPPING MATERIAL. PENETRATIONS IN EXISTING FIRE RATED WALLS, CEILINGS AND FLOORS SHALL BE SEALED TO THE FULL THICKNESS OF THE PENETRATION WITH AN APPROVED FIRE-STOPPING MATERIAL OF EQUAL OR GREATER FIRE RESISTANCE.

- 4. ALL WALL AND FLOOR PENETRATIONS SHALL BE CORE-DRILLED AND SLEEVED.
- 5. MANUAL PULL STATIONS SHALL BE MOUNTED AT 48 INCHES ABOVE THE FINISHED FLOOR TO CENTER OF DEVICE.
- 6. WALL-MOUNTED AUDIO APPLIANCES SHALL BE MOUNTED WITH THE TOP OF THE APPLIANCE NOT LESS THAN 90 INCHES ABOVE THE FINISHED FLOOR AND BELOW THE CEILING NOT LESS THAN 6 INCHES.
- WALL-MOUNTED VISUAL APPLIANCES SHALL BE MOUNTED WITH THE ENTIRE LENS NOT LESS THAN 80 INCHES ABOVE THE FINISHED FLOOR OR 6 INCHES BELOW THE CEILING, WHICHEVER I LOWER.
- 8. WALL-MOUNTED AUDIO/VISUAL APPLIANCES SHALL BE MOUNTED WITH THE ENTIRE LENS NOT LESS THAN 80 INCHES ABOVE THE FINISHED FLOOR OR 6 INCHES BELOW THE CEILING, WHICHEVER IS LOWER.
- 9. LOCATE DETECTORS A MINIMUM OF 4 INCHES FROM THE EDGE OF THE WALL, A MINIMUM OF 3 FEET FROM AIR DIFFUSERS OF AIR HANDLING UNITS, AND A MINIMUM OF 12 INCHES FROM ANY PART OF ANY LIGHTING FIXTURE.
- 10. ALL DETECTOR BASES SHALL BE MARKED IN PERMANENT INK WITH DEVICE ADDRESS INTERNALLY AS WELL AS TYPEWRITTEN LABEL ON THE BASE.
- 11. LOCATE INTERFACE MODULES WITHIN 3 FEET OF DEVICE THAT IS CONTROLLED
- 12. COORDINATE THE LOCATION OF THE SECURITY KEY PAD AT THE FRONT AND STAFF ENTRY WITH THE OUTBOUND READER. THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF THE OFFICE AND FACILITY MANAGER KEYPAD WITH THE SCHOOL PRINCIPAL PRIOR TO INSTALL. PROVIDE LISTED KEYPAD BACK BOX AS REQUIRED.
- 13. SECURITY CONTRACTOR SHALL VERIFY DEVICE LOCATIONS AND PLACE DEVICES FOR OPTIMUM EFFECTIVENESS. CEILING CORNER MOUNT IS PREFERRED.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING THE MEETING MINUTES AND DISTRIBUTING THEM ELECTRONICALLY WITHIN THREE BUSINESS DAYS OF THE MEETING.
- 15. THE FIRE ALARM SYSTEM VENDOR IS RESPONSIBLE FOR PROVIDING ALL COMPONENTS NECESSARY FOR PROPER SYSTEM FUNCTION ON THE SHOP DRAWING SUBMITTAL
- 16. ALL SURFACE MOUNTED DEVICES SHALL HAVE THE BACKBOX PROTECTED WITH A DEVICE SPECIFIC BACKBOX SKIRT.

DESIGN CRITERIA FOR LITTLETON PUBLIC SCHOOLS **DEVICE CANDELA** THE FIRE ALARM SYSTEM DESIGN IS BASED UPON THE FOLLOWING CODES: NOTIFICATION METHOD: 1. 2006 - INTERNATIONAL BUILDING CODE (IBC) <u>PUBLIC MODE</u> 2. 2006 - INTERNATIONAL MECHANICAL CODE (IMC) 3. 2006 - INTERNATIONAL FIRE CODE (IFC) CANDELA RATING: xxC = CEILING MOUNT 4. 2011 - NATIONAL ELECTRICAL CODE (NEC) 15 = 15 CANDELA 5. 2013 - NATIONAL FIRE ALARM CODE (NFPA 72) 30 = 30 CANDELA 75 = 75 CANDELA 6. 1997 - ELEVATOR SAFETY CODE (ANSI A17.1) 95C 95 = 95 CANDELA 110 = 110 CANDELA 7. AMERICANS WITH DISABILITIES ACCESSIBILITY GUIDELINES (ADAAG) 8. STATE OF COLORADO REQUIREMENTS 9. LITTLETON PUBLIC SCHOOLS TECHNICAL GUIDELINES IN ADDITION TO THE STATE AND CODE REQUIREMENTS, THE FIRE ALARM SYSTEM DESIGN INCORPORATES THE FOLLOWING ADDITIONAL DESIGN CRITERIA: SMOKE DETECTION: 1. SMOKE DETECTORS SHALL BE LOCATED IN ALL ELECTRICAL ROOMS.

- 2. SMOKE DETECTORS SHALL BE LOCATED IN ALL MDF, IDF AND OTHER COMMUNICATION TYPE ROOMS.
- 3. A SMOKE DETECTOR SHALL BE LOCATED AT FIRE ALARM CONTROL PANEL AS REQUIRED BY NFPA 72 (2013) SECTION17.4.10.
- 4. SMOKE DETECTORS SHALL BE LOCATED AT ALL FIRE ALARM REMOTE POWER SUPPLY PANELS AS REQUIRED BY NFPA 72 (2013) SECTION17.4.10.
- 5. SMOKE DETECTORS SHALL BE LOCATED IN ELEVATOR LOBBIES, ELEVATOR MACHINE ROOM, AND THE ELEVATOR SHAFT FOR ELEVATOR CONTROL PURPOSES AS REQUIRED BY CODE.
- 6. ONLY A SINGLE SMOKE DETECTOR IS REQUIRED IN EACH MODULAR CLASSROOMS.
- 7. CONTRACTOR SHALL UTILIZE INTELLIGENT BEAM DETECTORS IN PLACE OF SPOT SMOKE DETECTORS WHERE COST EFFICIENT. WHERE BEAM DETECTORS ARE USED CONTRACTOR SHALL PROVIDE KEYED OVERRIDE SWITCH, WITH FOUR HOUR TIMER, NEXT TO REMOTE TEST SWITCH, AT LOCATION TO BE APPROVED BY LPS.
- 8. IN A SPRINKLERED BUILDING, SMOKE DETECTORS FOR DOOR RELEASE SERVICE SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 17.7.5.6.5.1. 9. SMOKE DETECTORS FOR FIRE/SMOKE DAMPER AND FIREFLY RELEASE SHALL BE LOCATED IN ACCORDANCE WITH IBC 716.3.2.1. CONTRACTOR SHALL PRETEST FIRE/SMOKE DAMPER AND FIREFLY FUNCTION PRIOR TO START OF CONSTRUCTION AND REPORT DEFICIENCIES TO LPS.

HEAT DETECTION:

- 1. HEAT DETECTORS SHALL BE LOCATED IN ALL CODE REQUIRED AREAS NOT SUITABLE FOR SMOKE DETECTION, AND SHALL BE INTELLIGENT, ANALOG HEAT DETECTORS.
- 2. HEAT DETECTORS SET AT THE HIGHEST PROGRAMMABLE FIXED TEMPERATURE SETTING (190°F) SHALL BE LOCATED IN ALL BOILER ROOMS, CHILLER ROOMS AND OTHER SIMILAR ROOMS LOCATED BELOW CORRIDOR GRADE LEVEL.
- 3. HEAT DETECTORS SET AT THE HIGHEST PROGRAMMABLE FIXED TEMPERATURE SETTING (190°F) SHALL BE LOCATED IN THE KILN ROOM. 4. HEAT DETECTORS SHALL BE LOCATED IN THE ELEVATOR MACHINE ROOM AND ELEVATOR SHAFT FOR ELEVATOR SHUNT TRIP PURPOSES AS REQUIRED BY STATE CODE. HEAT DETECTORS SHALL BE LOCATED WITHIN 2 FEET OF EVERY ELEVATOR SHAFT AND ELEVATOR MACHINE ROOM SPRINKLER HEAD.

DUCT SMOKE DETECTION:

- 1. DUCT SMOKE DETECTORS SHALL BE INTELLIGENT ANALOG/ADDRESSABLE TYPE, WHICH SHALL REPORT TO THE FIRE ALARM SYSTEM AS A "SUPERVISORY" TYPE DEVICE.
- 2. DUCT SMOKE DETECTORS SHALL BE LOCATED IN THE RETURN AIR DUCTWORK OF ALL HVAC UNITS GREATER THAN 2,000 CFM. DUCT SMOKE DETECTORS SHALL BE LOCATED IN THE RETURN AIR DUCTWORK OF ALL HVAC SYSTEMS WITH A COMBINED CAPACITY GREATER THAN 2,000 CFM.
- 3. DUCT SMOKE DETECTORS SHALL BE LOCATED IN THE RETURN DUCTWORK OF ALL HVAC UNITS GREATER THAN 15,000 CFM WHERE RETURN AIR RISERS SERVE TWO OR MORE STORIES SUCH SMOKE DETECTORS SHALL BE INSTALLED AT EACH STORY PER THE IMC.
- 4. DUCT SMOKE DETECTORS SHALL BE LOCATED WITHIN FIVE FEET OF EACH SMOKE DAMPER OR FIRE/SMOKE DAMPER USED FOR CONTROL PURPOSES UNLESS AN ALTERNATE METHOD FROM IMC 607.3.3.2 CAN BE APPLIED.
- 5. DUCT SMOKE DETECTORS SHALL SHUTDOWN RESPECTIVE HVAC UNIT.
- MANUAL PULL STATIONS: 1. MANUAL PULL STATIONS SHALL BE DUAL ACTION TYPE.
- 2. THE FIRE ALARM CONTROL PANEL SHALL BE PROGRAMMED SUCH THAT ACTIVATION OF A PULL STATION INITIATES A 2 MINUTE DELAY AT MIDDLE AND HIGH SCHOOLS ONLY. ACTIVATION OF A SECOND ALARM DEVICE WILL IMMEDIATELY ACTIVATE NOTIFICATION APPLIANCES.
- 3. MANUAL PULL STATIONS SHALL BE LOCATED AT EACH DOUBLE DOOR EXIT FROM THE SCHOOL.
- 4. MANUAL PULL STATIONS SHALL BE LOCATED AT THE EXIT DOORS IN GYMS, CAFETERIAS AND ASSEMBLY ROOMS
- 5. MANUAL PULL STATIONS SHALL BE LOCATED AT THE EXIT DOORS IN MECHANICAL ROOM AND ELECTRICAL ROOMS.
- 6. A MANUAL PULL STATION SHALL BE LOCATED BY THE FACP IN THE MAIN OFFICE.
- 7. MANUAL STATIONS SHALL BE MOUNTED WITH THE OPERATING MECHANISM AT 48" ABOVE FINISHED FLOOR.
- 8. ALL EXISTING SOUNDER COVERS SHALL BE REINSTALLED WITH THE SOUNDER DISABLED.
- MAGNETIC DOOR HOLDERS: 1. EXISTING MAGNETIC DOOR HOLDERS SHALL REMAIN IN PLACE.
- 2. MAGNETIC DOOR HOLDERS SHALL BE PROVIDED AND INSTALLED AT RATED 2HR WALLS.

3. ALL MAGNETIC DOOR HOLDERS SHALL BE 120VAC.

VISUAL NOTIFICATION APPLIANCES:

1. STROBES SHALL BE LOCATED IN ALL COMMON "PUBLIC AREA" SPACES, INCLUDING CORRIDORS, CLASSROOMS, RESTROOMS, OPEN OFFICE AREAS, AND OTHER AREAS WHERE MORE THAN TWO PERSON OCCUPANCY IS CURRENTLY ESTABLISHED.

- 2. STROBES SHALL BE LOCATED IN ALL RESTROOMS EXCEPT SINGLE WATER CLOSETS (TOILET ONLY) WITHOUT A SINK SPECIFICALLY IN KINDERGARTEN AND PRE-SCHOOL CLASSROOMS.
- 3. STROBES SHALL BE LOCATED IN COPY ROOMS, WORK ROOMS, STORAGE ROOMS GREATER THAN 400 SQUARE FEET, AND STORAGE ROOMS WHERE HIGH OCCUPANT USAGE LEVELS ARE ANTICIPATED UNDER NORMAL CONDITIONS.
- 4. STROBES SHALL BE LOCATED IN CLINICS AND CONFERENCE ROOMS.
- 5. STROBES SHALL NOT BE INSTALLED IN SINGLE OCCUPANT OFFICES.
- 6. CEILING MOUNTED STROBES ARE PREFERRED OVER WALL MOUNTED IN ALL AREAS WITH ACOUSTICAL GRID. CEILING MOUNTED STROBES SHALL BE CENTERED IN THE SPACE AS MUCH AS POSSIBLE, BUT SHALL NOT EXCEED 5 FEET IN ANY DIRECTION FROM THE CENTER, UNLESS APPROVED BY THE ENGINEER, LPS OR AHJ.
- 7. WHEN CEILING MOUNTING IS NOT PRACTICAL STROBES SHALL BE WALL MOUNTED WITH THE BOTTOM OF THE VISUAL SIGNAL (STROBE) LENS AT 80" ABOVE FINISHED FLOOR, OR WITH THE TOP OF THE VISUAL SIGNAL (STROBE) LENS AT 6" BELOW THE CEILING (FOR LOW CEILING AREAS), WHICHEVER IS LOWER.
- 8. EXTERIOR WEATHERPROOF HORN/STROBES SHALL BE PROVIDED AT THE FIRE DEPARTMENT RESPONSE POINT. THE HORN/STROBE SHALL TRACK WATERFLOW AND THE NOTIFICATION APPLIANCE SHALL BE MOUNTED 10 FEET ABOVE GRADE.

AUDIBLE NOTIFICATION APPLIANCES:

1. INTERFACE WITH IP FOR SPEAKERS.

- 2. IP SPEAKERS SHALL BE LOCATED TO PROVIDE A MINIMUM OF 60dBA SOUND LEVELS THROUGHOUT ACOUSTICALLY DISTINGUISHABLE SPACES.
- 3. IP SPEAKERS SHALL BE LOCATED IN ALL MECHANICAL ROOMS, AND OTHER HIGH-NOISE AREAS.
- 4. IP SPEAKERS SHALL BE LOCATED IN ALL CLASSROOM AREAS.

5. IP SPEAKERS SHALL BE LOCATED IN ORDER TO MEET MASS NOTIFICATION AUDIBILITY AND INTELLIGIBILITY REQUIREMENTS.

WIRE GUARDS:

1. WIRE GUARDS SHALL BE PROVIDED AND INSTALLED ON NOTIFICATION AND INITIATING DEVICES LOCATED IN ALL GYMS, CAFETERIAS AND PACE ROOMS. END FIRE ALARM SYSTEM DESIGN CRITERIA

FIRE ALARM SYSTEM WIRE SCHEDULE

		SOLID CONDUCTOR WIRE SCHEDULE & COLOR CODE											
NO. OF CONDUCTORS	AWG SIZE	SHIELD	TYPE	SOLID	THHN PERMITTED FOR CONDUIT INSTALLATIONS	MANUFACTURER REQUIRED TAPPAN OR EQUIVALENT		DESCRIPTION (FOR CONDUIT SYSTEM)					
2	#14		\mathbb{X}	\mathbb{X}	FPLP	TAPPAN	RED(+) / BLACK(-) GREEN STRIPE ON JACKET	(STROBE OR HORN/STROBE CIRCUIT)					
2	#14		\mathbb{X}	\mathbb{X}	FPLP	TAPPAN	RED(+) / BLACK(-) BROWN STRIPE ON JACKET	(IDC SUPERVISORY CIRCUIT)					
2	#14		\mathbb{X}		FPLP	TAPPAN	RED(+) / BLACK(-) BLACK STRIPE ON JACKET	(24VDC POWER OR RELAY CIRCUIT)					
2	#16 #18		X		FPLP	TAPPAN	RED(+) / BLACK(-) SLC TYPE ON JACKET	(SLC ANALOG LOOP)					
2	#16				FPLP	TAPPAN	RED(+) / BLACK(-) YELLOW STRIPE ON JACKET	(LOW LEVEL AUDIO CIRCUIT)					
R	REFER TO 28 05 00 FOR COMPLETE LIST OF REQUIREMENTS INCLUDING UNDERGROUND (AQUASHIELD OR APPROVED EQUIVALENT).												

EXAMPLE FIRE ALARM SYSTEM REPLACEMENT

DUCT DETECTORS		EXI	STIN	IG DEV	/ICES	s to d	EMOLISI	4					FA ;	SYSTEM DEVICE LEG	GEND
DUCT DETECTORS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH IMC 606.2 (COPIED BELOW). QUANTITY AND LOCATION OF DUCT DETECTORS SHALL BE COORDINATED WITH MECHANICAL PLANS AND CONTRACTOR.	INPUT DEVICES	Q 1	FLOW			MPER			BELL		MODULES MONITC	 ۲ [DEVICE FACP	DESCRIPTION FIRE ALARM CONTROL PANEL	
606.2 WHERE REQUIRED. SMOKE DETECTORS SHALL BE INSTALLED WHERE INDICATED IN SECTIONS 606.2.1 THROUGH 606.2.3. EXCEPTION: SMOKE DETECTORS SHALL NOT BE REQUIRED WHERE AIR DISTRIBUTION SYSTEMS ARE INCAPABLE OF SPREADING SMOKE BEYOND THE				-									FSA RPS	FIRE ALARM ANNUNCIATOR STROBE POWER SUPPLY	
ENCLOSING WALLS, FLOORS AND CEILINGS OF THE ROOM OR SPACE IN WHICH THE SMOKE IS GENERATED. 606.2.1 RETURN AIR SYSTEMS.	SMOKE DETECTOR	¥ [DETECTOR		DE DE	TECTOR		GHT	HOLDER					DIGITAL ALARM COMMUNICATOR - POINT CONTACT ID LAN INTERFACE - IN EACH FACP GRAPHIC MAP	
SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2,000 CFM (0.9 M3/S), IN THE RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS, OUTDOOR AIR CONNECTIONS, OR DECONTAMINATION EQUIPMENT AND APPLIANCES.	THERMAL SMOKE DETECTOR MANUAL STATION		LEVEL DETECTOR				LIGH	T (F/S FIRE/SMOK DAMPER	E	ISOLATI MODULI		CAB P	RECORD DOCUMENT CABINET	W/ KEY
EXCEPTION: SMOKE DETECTORS ARE NOT REQUIRED IN THE RETURN AIR SYSTEM WHERE ALL PORTIONS OF THE BUILDING SERVED BY THE AIR DISTRIBUTION SYSTEM ARE PROTECTED BY AREA SMOKE DETECTORS CONNECTED TO A FIRE ALARM SYSTEM IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE. THE AREA SMOKE DETECTION SYSTEM SHALL COMPLY WITH SECTION 606.4.		SE	QUE	NCE C	DF OF	PERATI	IONS	I			I		2 BT 2BR	PHOTOELECTRIC SMOKE DETECTOR, INTELLIGENT PHOTOELECTRIC BEAM DETECTOR, INTELLIGENT (TRANS	SMITTER AND REFLECTOR)
606.2.2 COMMON SUPPLY AND RETURN AIR SYSTEMS. WHERE MULTIPLE AIR-HANDLING SYSTEMS SHARE COMMON SUPPLY OR RETURN AIR DUCTS OR PLENUMS WITH A COMBINED DESIGN CAPACITY GREATER THAN 2,000 CFM (0.9 M3/S), THE RETURN AIR SYSTEM SHALL BE PROVIDED WITH SMOKE DETECTORS IN ACCORDANCE WITH SECTION 606.2.1.			ontrol Unit	t Annuciation		ATES)	Notification	Re	quired Fire Satety Col		Supplementary		 J I/F 190° J I/F 135° 	FIXED TEMP 190° HEAT DETECTOR, INTELLIGENT FIXED TEMP 135° HEAT DETECTOR, INTELLIGENT	
EXCEPTION: INDIVIDUAL SMOKE DETECTORS SHALL NOT BE REQUIRED FOR EACH FAN-POWERED TERMINAL UNIT, PROVIDED THAT SUCH UNITS DO NOT HAVE AN INDIVIDUAL DESIGN CAPACITY GREATER THAN 2,000 CFM (0.9 M3/S) AND WILL BE SHUT DOWN BY ACTIVATION OF ONE OF THE FOLLOWING: 1. SMOKE DETECTORS REQUIRED BY SECTIONS 606.2.1 AND 606.2.3.							30					F	RT	REMOTE TEST STATION	
 AN APPROVED AREA SMOKE DETECTOR SYSTEM LOCATED IN THE RETURN AIR PLENUM SERVING SUCH UNITS. AN AREA SMOKE DETECTOR SYSTEM AS PRESCRIBED IN THE EXCEPTION TO SECTION 606.2.1. 	THE CONTRACTOR SHALL SUBMIT A COMPREHENSIVE SEQUENCE OF OPERATIONS.				VEL (FACP)	R (FSA) ALARM DE	ERFACE AN INTERF/ VTERFACE	z		885				RELAY MODULE, INTELLIGENT, WITH HEAVY DUTY RELAY OUTPUT MODULE, INTELLIGENT	, HFFLO OR LOW-FLO
IN ALL CASES, THE SMOKE DETECTORS SHALL COMPLY WITH SECTIONS 606.4 AND 606.4.1. 606.2.3 RETURN AIR RISERS.			ATOR		NTROL PAP	NUNCIATO	ZIA LAN INT ORKS VIA L S VIA LAN IN MISSION	RANSMISSI	QUIRED)	LIRED DOC				SINGLE INPUT MODULE, INTELLIGENT	
THAN 15,000 CFM (7.1 M3/S), SMOKE DETECTORS SHALL BE INSTALLED AT EACH STORY. SUCH SMOKE DETECTORS SHALL BE LOCATED UPSTREAM OF THE CONNECTION BETWEEN THE RETURN AIR RISER AND ANY AIR DUCTS OR PLENUMS.	SEQUENCE OF OPERATIONS	NDICATOR	SNAL INDIC	AL INDICATO	ALARM CC	ALARM AN VATION (UI SIGNALS LS	YXWORKS PS ONYXW NYXWORKI AR TRANSA	CELLULAR T JLAR TRAN	PER (AS RE	INLOCK SEC	OVE FDC			AUTOMATIC SPRINKLER TAMPER SWITCH FIRE DEPARTMENT CONNECTION	
SMOKE DAMPER ACTIVATION	_	IGNAL M SIGNAL II SIGNAL	1 RELAY RVISORY SIG	ISORY SIGN	LE SIGNAL US ON FIRE	US ON FIRE LARM ACTI CUATION 5	TO LPS ON IGNAL TO L VIA CELLUL	IGNAL VIA (IL VIA CELLI NTROLLER F	ALL HAFT DAM HVAC UNIT	SHTS SYSTEM - L	STROBE AB TO BMS TO SECURI	ָּגָ גַרָ	2 15 2 15C	STROBE, WALL MOUNT, CANDELA INTENSITY STROBE, CEILING MOUNT, CANDELA INTENSITY WEATHERPROOF HORN/STROBE	
SMOKE DAMPER ACTIVATION SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH IMC 607.3.3.2 (COPIED BELOW). QUANTITY AND LOCATION OF DAMPERS SHALL BE COORDINATED WITH MECHANICAL PLANS AND CONTRACTOR. WHERE SMOKE DAMPERS ARE INSTALLED, ACTUATION METHOD 4 (CORRIDOR SMOKE DETECTION) IS THE PREFERRED METHOD. CONTRACTOR SHALL PROVIDE AND INSTALL CORRIDOR DETECTION WHERE APPLICABLE.		AUDIBLE SI MON ALARI SLE ALARM	RAL ALARM	SLE SUPERV RISORY RE	BLE TROUBL	ge of stati elay for a udible eva i. evacuat	RM SIGNAL ERVISORY SI JBLE SIGNA RM SIGNAL	ERVISORY SI JBLE SIGNA VATOR COI	/ATOR REC FLASH LEVATOR SI SPECTIVE H	EIIL DUUK TORIUM LIG	E SIGNAL IDE HORN/ M SIGNAL			FIRE/SMOKE DAMPER SMOKE DAMPER	
607.3.3.2 SMOKE DAMPER ACTUATION. THE SMOKE DAMPER SHALL CLOSE UPON ACTUATION OF A LISTED SMOKE DETECTOR OR DETECTORS INSTALLED IN ACCORDANCE WITH SECTION 907.3 OF THE INTERNATIONAL BUILDING CODE AND ONE OF THE FOLLOWING METHODS. AS APPLICABLE:		JATE FACP JATE COMI	JATE GENEI JATE COMI	JATE AUDIE JATE SUPEI JATE COMI	JATE AUDIE LAY CHANG	LAY CHANG SECOND DI JATE ALL A JATE VISUA	VSMIT ALAF VSMIT SUPF VSMIT TROI VSMIT ALAF	VSMIT SUPE VSMIT TROI VT TRIP ELE VAT ELEVA	RNATE ELE ATOR HAT V TOP OF E F DOWN RE	N ON AUDIT	UCE A UDIBL JATE OUTS) FIRE A LAR	<u>ا</u> ا		KITCHEN ANSUL SYSTEM MAGNETIC DOOR HOLDER	
1. WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SMOKE DETECTOR SHALL BE INSTALLED IN THE DUCT WITHIN 5 FEET (1524 MM) OF THE DAMPER WITH NO AIR OUTLETS OR INLETS BETWEEN THE DETECTOR AND THE DAMPER. THE DETECTOR SHALL BE LISTED FOR THE AIR VELOCITY, TEMPERATURE AND HUMIDITY ANTICIPATED AT THE POINT WHERE IT IS INSTALLED, OTHER THAN IN MECHANICAL SMOKE CONTROL SYSTEMS, DAMPERS	SYSTEM INPUTS	АСТ АСТ АСТ	D ACTU	н ACTU Р ACTU Н ACTU	- ACTL	N DISP T 120 M ACTU	O TRAN D A TRAN TRAN TRAN	s TRAN TRAN C SHUT	ALTE ALTE SHUT SHUT SHUT SHUT SHUT SHUT SHUT SHUT		EINE AF AG		$\overline{\mathbf{X}}$	TRANSIENT SUPPRESSION PROTECTION DATA (REFER TO 270000)	
SHALL BE CLOSED UPON FAN SHUTDOWN WHERE LOCAL SMOKE DETECTORS REQUIRE A MINIMUM VELOCITY TO OPERATE. 2. WHERE A SMOKE DAMPER IS INSTALLED ABOVE SMOKE BARRIER DOORS IN A SMOKE BARRIER, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED ON FITHER SIDE OF THE SMOKE BARRIER DOOR OPENING.	ALARM (FROM EACH DEVICE) 1 MANUAL PULL STATIONS 2 SMOKE DETECTORS - ALL LOCATIONS	• • •	•		•	• • • •	• •			• • •		1	СОМ	PHONE LINE DACT (REFER TO 270000) COMMUNICATIONS VAULT OR CONNECTION TO MOE REMAIN AND REUSE) UNLESS SIZE IS LESS THAN 12	DULAR CLASSROOM. (EXISTING TO "x12".
3. WHERE A SMOKE DAMPER IS INSTALLED WITHIN AN UNDUCTED OPENING IN A WALL, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED WITHIN 5 FEET (1524 MM) HORIZONTALLY OF THE DAMPER.	3 SMOKE DETECTORS - ELEVATOR MACHINE ROOM 4 SMOKE DETECTORS - ELEVATOR SHAFT AS REQUIRED 5 SMOKE DETECTORS - ELEVATOR SHAFT AS REQUIRED	• • • • • •	•			• • •	• • • •	•••			•••	3		PERMITS AND FEE	S
 WHERE A SMOKE DAMPER IS INSTALLED IN A CORRIDOR WALL OR CEILING, THE DAMPER SHALL BE PERMITTED TO BE CONTROLLED BY A SMOKE DETECTION SYSTEM INSTALLED IN THE CORRIDOR. WHERE A TOTAL-COVERAGE SMOKE DETECTOR SYSTEM IS PROVIDED WITHIN AREAS SERVED BY A HEATING, VENTILATION AND AIR-CONDITIONING (IN A C) OVERTIAL ONDER DAMPERS OF A DEPENDENT OF DEPENDENCE DETECTION OVERTIAL. 	5 SMORE DETECTORS - LOWER LEVEL ELEVATOR LOBBY 6 SMOKE DETECTORS - MAIN LEVEL ELEVATOR LOBBY 7 BEAM SMOKE DETECTORS	• • • • • •	•			• • • • • • • •	• • • • • •		•			5 6 0BTA 7 THER	CONTRACTOR SH INING PERMITS I RE MAY BE COST	HALL INCLUDE ALL FEES AND COSTS AS FOR EACH SCHOOL. THE CONTRACTOR S INCURRED BY THE STATE OF COLOR	SSOCIATED WITH R IS ADVISED THAT ADO, DORA AS WELL
	 8 HEAT DETECTORS - ALL LOCATIONS 9 HEAT DETECTORS - ELEVATOR MACHINE ROOM 10 HEAT DETECTORS - ELEVATOR SHAFT AS REQUIRED 	• • • • • •	•			• • • • • • • •	• • • • • •	•) (((((((((((((((((((8 AS T⊢ 9 BOTH 10	IE LOCAL AUTHO	ORITY HAVING JURISDICTION. SOME JUPERMIT AS WELL AS AN ELECTRICAL PE	RISDICTIONS REQUIRE
	11 KITCHEN ANSUL SYSTEM 12 WATERFLOW - MAIN	• • • • • •	•			• • • • • • •	• •) () () () () () () () ()		11 12 ALL C	 EILINGS ARE SN	JEILING INFORMATI	ABOVE FINISHED FLOOR
INTEGRATE WITH IP: SOUND LEVELS FOR THE MASS NOTIFICATION AND FIRE ALARM SYSTEM MUST BE 15DBA ABOVE AMBIENT AND MUST MEET INTELLIGIBILITY REQUIREMENTS AS STATED BY LIEC 4-021-01 AS STATED BELOW:	13 DUCT DETECTOR 14 ELEVATOR SHUNT TRIP POWER SUPERVISION	•	•	••	•	•	•	•	•			UNLES 13 JOIST 14 FINISH	SS OTHERWISE N CONSTRUCTION HED FLOOR. SEI	NOTED. GYMNASIUMS IN ALL THE SCH N AT CEILING HEIGHTS GREATER THAN E FLAG NOTES.	OOLS ARE EXPOSED 10 FEET ABOVE
VERIFY INTELLIGIBILITY BY MEASUREMENT AFTER INSTALLATION. SPEAKER TAP SETTINGS ARE FIELD ADJUSTABLE TO ALLOW ADJUSTMENT AFTER INSTALLATION TO MEET AUDIBILITY & INTELLIGIBILITY REQUIREMENTS.	15 TAMPER SWITCH 16 GENERATOR - RUNNING/NOT IN AUTO 17 BEAM DETECTOR OVERRIDE KEY SWITCH	•	•	• • • • • •		• · · · · · · · · · · · · · · · · · · ·		• · · · · · · · · · · · · · · · · · · ·				15 16 17	DEM	IOLITION ON FLOOR	PLANS
ENSURE THAT A CIS SCORE GREATER THAN 0.8 IS PROVIDED IN EACH AREA WHERE BUILDING OCCUPANTS NORMALLY COULD BE FOUND. NOTE: VALUES OF 0.75 THROUGH 0.84 WILL BE ROUNDED TO 0.8.	 18 BIDIRECTIONAL AMPLIFICATION LOSS OF POWER 19 BIDIRECTIONAL AMPLIFICATION ANTENNA FAILURE 20 BIDIRECTIONAL AMPLIFICATION LOSS OF PADIO SIGNAL 	•	•	•••		•		•				18 THE 19 INFO 20 EXIS [®]	DEMOLITION INFOR)RMATION AVAILABL STING FIRE ALARM A	RMATION ON EACH FLOOR PLAN SHOWS THE E .E. THE CONTRACTOR IS RESPONSIBLE FOR C T EACH SCHOOL.	XISTING FIRE ALARM SYSTEM OMPLETE DEMOLITION OF ALL
AREAS OF THE BUILDING PROVIDED WITH HARD WALL AND CEILING SURFACES (SUCH AS METAL OR CONCRETE) THAT ARE FOUND TO CAUSE EXCESSIVE SOUND REFLECTIONS MAY BE PERMITTED TO HAVE A CIS SCORE LESS THAN 0.8 IF APPROVED BY THE GFD AND IF BUILDING OCCUPANTS IN THESE AREAS CAN DETERMINE THAT A VOICE SIGNAL IS BEING BROADCAST AND THEY MUST WALK NO MORE	20 DIDIRECTIONAL AND ENTERNING COSS OF NADIO STONAL 21 BIDIRECTIONAL AMPLIFICATION BACK UP BATTERY POWER 22 LOSS OF POWER FROM EMERGENCY GENERATOR	•	•	•••		•		•				21 22 EXIS ⁻ 22 SYST	TING FIRE ALARM S` TEM ARE SHOWN IN'	YSTEM DEVICES THAT ARE TO REMAIN AS PART I BOLD (BLUE) ON THE FLOOR PLAN SHEET:	OF THE NEW FIRE ALARM
THAN 10 M (33 FT) TO FIND A LOCATION WITH A CIS SCORE OF AT LEAST 0.8. AREAS OF THE BUILDING WHERE OCCUPANTS ARE NOT EXPECTED TO BE NORMALLY PRESENT ARE PERMITTED TO HAVE A CIS SCORE	TROUBLE (FROM EACH DEVICE) 23 OPEN CIRCUIT 24 GROUND FAULT	•		•	• • •	•	•	•				23 EXIS ⁻ 24 INCC	,TING DOOR HOLDE! ORPORATED INTO T	RS THAT ARE NOT INDICATED IN THE CONSTRU THE AS-BUILT DOCUMENTS, FIRE ALARM INTERF	ICTION DOCUMENTS SHALL BE
LESS THAN 0.8 IF PERSONNEL CAN DETERMINE THAT A VOICE SIGNAL IS BEING BROADCAST AND THEY MUST WALK NO MORE THAN 15 M (50 FT) TO A LOCATION WITH A CIS SCORE OF AT LEAST 0.8.	 25 NOTIFICATION APPLIANCE CIRCUIT - CLASS B/STYLE Y: WIRE-TO-WIRE SHORT 26 SIGNALING LINE CIRCUIT - CLASS B/STYLE Y: WIRE-TO-WIRE SHORT 27 COMMUNICATION FAILURE - DIALER TO MONITORING STATION 	•		•		•		•				25 PRO 26 27 EXIS	VIDED.	EVICE INFORMATION IS SHOWN AS SHADED (G	REEN).
CONDITIONS (E.G., STANDING, SITTING, SLEEPING, AS APPROPRIATE). COMMERCIALLY AVAILABLE TEST INSTRUMENTATION SHALL BE USED TO MEASURE INTELLIGIBILITY AS SPECIFIED BY IEC 60849 AND IEC	28 SMOKE DETECTORS 29 BEAM SMOKE DETECTORS	•		•	• • •	•	•					28 29 NEW	/ FIRE ALARM DEVIC	CES ARE SHOWN AS BOLD (RED).	Υ ΓΙ (C _P
60268-16. THE MEAN VALUE OF AT LEAST THREE READINGS SHALL BE USED TO COMPUTE THE INTELLIGIBILITY SCORE AT EACH TEST LOCATION.	30 HEAT DETECTORS 31 MANUAL PULL STATIONS 32 WATERFLOW	•				•						30 31 32			
DESIGN STRATEGY:	33 KITCHEN ANSUL SYSTEM 34 GENERATOR - FAULT 35 DUCT SMOKE DETECTORS	•		•	• • •	•		•				33 34 35 CONTE	SH 	PRINKLER MONITOF	LER SYSTEM AT ALL TIMES.
	36 TAMPER SWITCHES 37 ELEVATOR SHUNT TRIP BREAKER	•		•		•	•	•				36 WRITI	RACTOR SHALL CO		
	38 FIRE ALARM AC POWER FAILURE 39 FIRE ALARM SYSTEM LOW BATTERY SYSTEM FUNCTIONS	•			• • •	•						38 39 LEAD-f	BASED PAINT: PL'	EASE KNOW THAT IF YOU WILL BE DISTUF	REING AN INTERIOR
JAL NOT	40 ACKNOWLEDGE 41 ALARM SIGNAL SILENCE 42 SYSTEM RESET	- 							·		• · · · ·	40 PAINTE 41 GATHE 42	ED SURFACE OF (ERED PRIOR.	OVER 6 SQ. FT, A LEAD BASED PAINT SAN	IPLE SHOULD BE
	MAGNETIC DOOR HOLE	DER S	I D I E SMOł	KE DE	TECT	K L M N	<u>ορια</u> κ FPA 72 (2	<u>s t u v</u> 2013) RE		a ab ac ENT;	AD AE AF AG	ASBES THE BI	STOS: YOUR CON UILDINGS AND TH J KNOW SPECIFIC	ITRACTOR SHOULD BE MADE AWARE THA HAT THEY MAY ACCESS THE AHERA PLAN: CALLY WHAT SURFACES WILL BE DISTURB	T ASBESTOS EXISTS IN S PRIOR TO THEIR WORK. ED DURING YOUR
* 15CD NOTIFICATION APPLIANCES ARE	Depth of wall Door frame Ceiling or wall mounted section above mounted door	S	MOKE DE	ETECTORS SH	IALL BE PR	ROVIDED AND I	INSTALLED FOR M	AGNETIC DOOR H	OLDERS AS REQU	RED BY N	IFPA 72 (2013):	PROJE MATEF	CT WE CAN ACCE RIALS (ACM).	ESS POTENTIAL DISTURBANCES OF ASBE	STOS CONTAINING
USED IN CORRIDORS AS ALLOWED BY FACILITATION METHOD. ** OCCUPANTS NOT NORMALLY PRESENT	Smoke detector listed for frame d part of closer Smoke detector ceiling or wall mounted	S IF 1	ECTION 1 DOORS	17.7.5.6.5.1 (SI ARE TO BE C I(A) THROUGI	EE FIGURE LOSED IN F 1 17,7,5,6,5	E 17.7.5.6.5.1(A) RESPONSE TO 5 1(D) SHALL AF))) SMOKE FLOWING PPI Y	IN EITHER DIREC	TION, THE REQUIR	EMENTS	OF		BUI	LDING CODE ANALY	/SIS
Image: Section and Sectin and Section and Section and Section and Secti	A B 4.0 in12.0 in. (100 mm-300 mm)	– D R	(A) I DETECTOF REQUIRED	IF THE DEPTH R SHALL BE R), ONE ON EA	I OF WALL : EQUIRED (CH SIDE OI	SECTION ABO ON ONE SIDE (F THE DOORW	VE THE DOOR IS 2 OF THE DOORWAY /AY. FIGURE 17.7.5	4 IN. (610 MM) OR ′ ONLY, OR TWO W .6.5.1(A), PART A C	LESS, ONE CEILING /ALL-MOUNTED DE DR B, SHALL APPLY	G-MOUNT TECTORS	ED SMOKE S SHALL BE	BUILDI BUILDIN CITY/ST	ING NAME: NG ADDRESS: TATE/ZIP:		
Image: Description of the second state of the second st	0-24 in. (0-610 mm) on both sides of doorway Detector or 0-24 in. (610 mm) 0 difference 0 d	c	(B) I DNE WALL	F THE DEPTH CEILING-M -MOUNTED D	OF WALL	SECTION ABOY SMOKE DETECT SHALL BE REC	VE THE DOOR IS O TOR SHALL BE RE QUIRED ON BOTH	GREATER THAN 24 QUIRED ON THE H SIDES OF THE DOO	IN. (610 MM) ON O IGHER SIDE OF TH ORWAY. FIGURE 17	NE SIDE (E DOORW (.7.5.6.5.1)	DNLY, ONE /AY ONLY, OR (A), PART D,	SCOPE OCCUP	OF WORK: FIRE ALARN PANCY GROUP: XXX T	M UPGRADE TOTAL SQUARE FOOTAGE: XXX	
1 CORRIDORS •	detector closer mounted on either side 12 in. (300 mm) One ceiling-mounted detector on either side or one wall-mounted detector on each side d _p > 24 in. C D 5 ft (1.52 m)	or 	6HALL APF (C)*	PLY. IF THE DEPTI CEILING-M	H OF WALL OUNTED C	L SECTION ABC	OVE THE DOOR IS	GREATER THAN 24 SHALL BE REQUI	4 IN. (610 MM) ON E RED, ONE ON EACH	OTH SIDE I SIDE OF	ES, TWO THE	NEW BU	JILDING: NO EXIS	STING FACP MODEL: XXXX KLERED	
5 AUDITORIUMS • • • 6 CAFETERIAS • • 7 LOUNGES/CONFERENCE ROOMS • •	$\begin{array}{c} (>610 \text{ mm}) \\ d_1 \leq 24 \text{ in}, \\ (\leq 610 \text{ mm}) \\ \hline \\ 24 \text{ in}, \end{array} \qquad \begin{array}{c} (>610 \text{ mm}) \\ \hline \\ \hline \\ \end{array} \qquad \begin{array}{c} (100 \text{ mm}-300 \text{ mm}) \\ \hline \\ \hline \\ \hline \\ \hline \\ \end{array} \qquad \begin{array}{c} (100 \text{ mm}-300 \text{ mm}) \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \end{array} \qquad \begin{array}{c} (100 \text{ mm}-300 \text{ mm}) \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \end{array} \qquad \begin{array}{c} (100 \text{ mm}-300 \text{ mm}) \\ \hline \\ \end{array} \qquad \begin{array}{c} (100 \text{ mm}-300 \text{ mm}) \\ \hline \\ $		OORWAY (D) I DET	7. FIGURE 17.7 IF A DETECTO ECTOR-DOO	7.5.6.5.1(A), OR IS SPEC R CLOSER), PART F, SHAL CIFICALLY LISTI R ASSEMBLY IS	LL APPLY. ED FOR DOOR FRA USED, ONLY ONE	AME MOUNTING, C DETECTOR SHAL	OR IF A LISTED CON L BE REQUIRED IF	1BINATIO	N OR INTEGRAL	AHJ (FI	IRE DEPARTMENT RE	LICABLE: NFPA 72 2010, FCODES 2009, NEC 2011 ESPONSIBLE FOR REVIEW): STATE OF COLORADO	AND XXX
8 GYMNASIUM • <	an one side only. Detector or detector closer mounted on	S N	MANNER F HALL APP IOT BE RE	RECOMMEND PLY IF CORRI EQUIRED IN A	DOR DETE	CTION IS UTILI	IZED, ADDITIONAL A 72 (2013):	SMOKE DETECTO	RS FOR MAGNETIC	A), PARTS	OLDERS WILL	1.	FA-1 FIR	SHEET INDEX	
12 CUSTODIAL CLOSETS 13 KITCHENS	higher side One ceiling-mounted detector on higher side or one wall-mounted detector on each side E F 5 ft (1.52 m) max 5 ft (1.52 m) max	C S	OR ENCLC	SMORE DETE SED SPACE (PERMITTED 1	ON EACH S	SIDE OF THE SMOKE	MOKE DOOR AND DOOR RELEASE S	THAT ARE LOCATE ERVICE.	ED AND SPACED A	S REQUIR	ED BY 17.7.3	2. 3. 4.	FA-2 EXA FA-3 EXA FA-4 EXA FA-5 EXA	AMPLE EXISTING FIRE ALARM SYSTEM INFORM AMPLE SCHOOL - FIRE ALARM SYSTEM PLAN · AMPLE SCHOOL - FIRE ALARM SYSTEM PLAN · AMPLE SCHOOL - FIRE ALARM SYSTEM PLAN ·	MATION - DEMOLITION - NEW - LOWER LEVEL - NEW - MAIN LEVEL
ARCHITECTURAL TEAM SHALL DEVELOP ACOUSTICALLY DISTINGUISHABLE SPACE (ADS) MAPS FOR EACH SCHOOL.	Over $d > 24$ in, (610 mm) (> 610 mm) $d = d$	Г										6. 7.	FA-6 COI FA-7 CO	DNCEPTUAL RISER DIAGRAM - ELEMENTARY S DNCEPTUAL RISER DIAGRAM - MIDDLE/HIGH S	CHOOL CHOOL
	Sides Detector or detector closer mounted on either side Two detectors required	-	COMPLET	SC(DPE (OF WO	RK	FIRE/SMC	ECORD	DRA'	WINGS	CON		PRE-TEST EXISTING MAGNETIC DOOR HOL	STING ders. fire/smoke
INTELLIGIBILITY REQUIRED AFTER TRAVEL DISTANCE OF 30 FEET DUE TO HARD SURFACES	Over G 60 in, (1.52 m) Might require additional detectors		APPLICAE INCORPO DEMOLITI	BLE CODES AN PRATE MASS N ION OF EXISTII	ID LITTLETC OTIFICATIO NG FIRE AL	ON PUBLIC SCH ON WITH IT SPEA ARM SYSTEM.	100L STANDARDS. AKERS. COMPLETE	ALARM R RESPONS AND ELEC	ECORD DRAWINGS SIBLE FOR COORD CTRICAL CONTRAC	B. CONTR NATION V TORS. R	ACTOR IS WITH MECHANICA EFER TO	- DAM DEFI CON	PERS, AND ELEVA ICIENCIES SHALL I ISTRUCTION.	ATOR RECALL, IN ACCORDANCE WITH SPEC BE REPORTED IN WRITING TO LPS PRIOR T	CIFICATIONS . O START OF
INTELLIGIBILITY REQUIRED AFTER TRAVEL DISTANCE OF 50 FEET	FIGURE 17.7.5.6.5.1(A) Detector Location Requirements for Wall Sections.		REV	/ISION	Drawing	g Title:			BREQUIREMENTS.			A	COORDI	NATION SUBMITTAL	07/22/14 TLH
	ROOM SIGNAGE	=	INFOF NUMBER:	KMATION	·		ALARM S' FORMATI	YSTEM ON				B		INATION SUBMITTAL	09/23/14 TLH
	PLACARDS SHALL REFLECT THE LPS ROOM	⊢RAME R FRAME -	DATE:						REFE		DRAWING	NO.		ISION-LOCATION ECN	APPROVED
	DESIGNATION AND SHALL BE ENGRAVED PH LABELS MATCHING THE COLOR OF EXISTING DOOR FRAME LA	HENOLIC ABELS,	TIME:		Project	Title:								BY: CCP DATE: 04/30/14 BY: OWNER:	DATE:
	APPROXIMATELY 2" TALL BY 5" WIDE AND ATTACHED TO THE TRIGHT CORNER OF THE DOOR FRAME (STICKY BACK). EXAMPLE SHOWN:	IOP _ PLE	Size – 3	30x42		FIRE	E ALARM) [[]	ITTLETON PUBLIC S	I AINDA	העור	LITTLETON PUBLIC SCHOOLS 5776 SOUTH CROCKER STREET LITTLETON, COLORADO	
ADS LOWER LEVEL ADS MAIN LEVEL	321X		FILE NAM	E:	IVIAS			JIANUAK	ר פע.		ITTLETON, COLORAI	0			DRAWING NUMBER

	LITTLETON PUBLIC SCHOOLS INSPECTION AND TESTING FORM		SYSTEM TESTS AND INSPECTIONS INTERFACE FOURPMENT Visual Device Simulated	
	Schools INSPECTION FUBLIC SCHOOLS INSPECTION AND TESTING FORM	SUPERVISORY SIGNAL-INITAIATING DEVICES AND CIRCUIT INORMATION	TYPE VISUAL FUNCTIONAL COMMENTS Control Unit Image: Control Contro	NOTES AND COMMENTS.
	TIME: 07:30	Quantity Circuit Style N/A Building Temperature	Interface Equipment \square	NOTES AND COMMENTS:
	SERIVICE ORGANIZATION PROPERTY NAME (USER)	N/A Site Water Temperature N/A Site Water Level	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1. NO PULL STATION IN OFFICE AREA.(not required)
	Name: LITTLETON PUBLIC SCHOOLS Name: NORTH ELEMENTARY SCHOOL Address: 5776 S. CROCKER ST. LITTLETON, CO.80120 Address: 1907 POWERS AVE.	N/A Fire Pump Power N/A Fire Pump Running	Primary Power Supply Image: Additional systems Trouble Signals Image: Additional systems	2. NO REMOTE TEST SWITCHES ON L01D23,L1D15 TESTED O
	Representative: GLENN BENJAMINOwner Contact: TERRY DAVISLicense No.: NICET IV 106440Telephone: 303-347-3425	N/A Fire Pump Auto Position	Disconnect Switches Image: Constraint of the second seco	4. NO SPRINKLER SYSTEM.
	Telephone: 303-347-3552	N/A Fire Pump Running	Special Procedures:	 6. SYSTEM DOES NOT SYNC.
	MONITORING ENTITY APPROVING AGENCY Contact: LPS SECURITY Contact: LITTLETON FIRE RESCUE	N/A Generator in Auto Position N/A Generator or Controller Trouble	SECONDARY FOWER TYPE VISUAL FUNCTIONAL COMMENTS ANSUL SYSTEM TESTED BY CONTRACTOR TEST RESULTS IN FIRE ALARM SYSTEM LOG BOOK.	
	Telephone: 303-347-3420 Manitaring Account Ref No. 14	N/A Switch Transfer N/A Generator Engine Running	Battery Condition OK Load Voltage OK 24 VDC	
	TYPE TRANSMISSION SERVICE	N/A Other:	Discharge Test Image: Strate Supervising Station Monitoring Yes No Time Comments	
	☐ McCulloh ☐ Weekly	SIGNALING LINE CIRCUITS Quantity and style of signaling line circuits connected to system (See NFPA 72, Table 6.6.1):	Specific Gravity SEALED BATTERY Alarm Signal Image: 1 structure Alarm Restoration Image: 1 structure	
	Multiplex Monthly Digital Quarterly Reverse Brights Semienpuelly	Quantity: 1 Style: 4	TRANSIENT SUPPRESSORS N/A	
	□ RE □ Semialinuary □ RF □ □ Annually □ Other (Specify) PROPRIETARY □ □ Other (Specify)	(a) Primary (Main): Nominal Voltage 120 Amps .37	REMOTE ANNUNCIATORS Image: Mail and the supervisory Signal Image: Mail and the supervisory Signal Supervisory Restoration Image: Mail and the supervisory Restoration	
	Control Unit Manufacturer: NOTIFIER Model Number: 10/10	Over current Protection: Type CIRCUIT BREAKER #20 Amps 20	NOTIFICATION APPLIANCES NOTIFICATIONS THAT TESTING IS COMPLETE Yes No Time Comments Building Management Image: Comments Image: Comments Image: Comments Image: Comments	
_	Circuit Styles: 4,B	Location (of primary supply panel board): ELECTRICAL RM.PNL.001 Disconnecting Means Location: ELECTRICAL RM.	Audubie Image: Constraint of the second se	
ţ.	Software Rev.: 5.5	(b) Secondary (Standby): BATTERY Storage Battery: Amp-Hr. Bating 24	Speakers Image: Speakers Image: Speakers Image: Speakers Voice Clarity Image: Speakers Image: Speakers	
	Last Date System Had Any Service Performed: UNKNOWN Last Date That Any Software or Configuration Was Received: 04/14/2008	Calculated capacity to operate system in hours: X 24 60	The following did not operate correctly: system worked well	
	ALARM-INITIATING DEVICES AND CIRCUIT INFORMATION	Engine driven generator dedicated to fire alarm system:	Loc. & S/N Device Type Visual Functional Factory Setting Measured Setting Pass Fail System restored to normal operation: Date: 6/24/13 Time: 3:30 PM	
	Quantity Circuit Style 19 4 Manual Fire Alarm Boxes	Location of fuel storage: N/A TYPE BATTERY		
	0 4 Ion Detectors 62 4 Photo Detectors	Dry Cell	N/A Image: This Testing Was Performed in Accordance with APPLICABLE NFPA STANDARDS. N/A Image: Name of Inspector: GLENN BENJAMIN Date: 6/24/13 Time: 3:30PM	
	10 4 Duct Detectors 8 4 Heat Detectors	Sealed Lead-Acid	NVA D Signature: Stenn Benjamen	
	0 N/A Water Flow Switches	Conter (Specify):		
	1 4 ANSUL MONITORING	(c) Emergency or standby system used as a back up to primary power supply, instead of using a secondary power supply:	Comments: SEE FIRE ALARM SYSTEM POINT REPORT IN FIRE ALARM LOG BOOK FOR DEVICE DETAILS.	
	2 4 BEAM DETECTORS	N/A Emergency system described in NFPA 70, Article 700 N/A Legally required standby described in NFPA 70, Article 701	Signature:	
	Alarm verification feature is disabled [] enabled ALARM NOTIFICATION APPLIANCES AND CIRCUIT INFORMATION	N/A Optional standby system described in NFPA 70, Article 702, which also meets the requirements of Article 700 or 701	Phone Set I N/A COMMENTS	
	Quantity Circuit Style	PRIOR TO ANY TESTING	Phone Jacks N/A Off-Hook Indicator N/A	
	N/A Chimes	NOTIFICATIONS ARE MADE YES NO WHO TIME Monitoring Entity Image: Construction of the second seco	Amplifiers Image: Conventory Tops Conventory Image: Conventory	
	N/A Speakers	Building Occupants ALL Building Management ALL	Call-in Signal I I/A Call-in Signal I I/A	
	35 Y Horn/Strobe Number of alarm notification appliance circuits: 9	Other Specify: LFR	System Performance 🖾 🖾 OK	
	Are circuits monitored for integrity? 🖾 Yes 🗌 No	And Nouned of any impairment		-
			3	.
	~ NORTH	NORTH		
Ka:	NORTH Initialize_SPL Point Report from DIA now	NORMAL HEAT (ANALOG) BOYS RM JAN CLOSET V000 M 051 L01D08 (Z10 Z100)	NORMAL SMOKE (PHOTO) MAIN CORR CENTER V000 M 043 L01D31 V000 M 043 L01D31 (Z50 Z100)	NORMAL SMOKE (PHOTO) INFANT 1 (Z30 Z100)
	PRESS 1=SYS, 2=HIS : 1 PRESS 1=SYS, 2=POINT, 3=ALM, 4=TBL, 5=DIS, 6=MONON, 7=CTLON : 2 PRESS 1=REQUEST 2=ABORT	NORMAL SMOKE (PHOTO) TOP OF WEST STAIRS VOOD M 045 L01D09	NORMAL SMOKE (PHOTO) MAIN CORR NORTH V000 M 055 L01D32 NORMAL SMOKE (PHOTO) MAIN CORR. WEST V000 M 044 L01D53	NORMAL SMOKE (PHOTO) INFANT 2
	***** INSTALLED POINT REPORT BEGIN ***** 01:44P 08/13/08 NORMAL FORWARD ZONE MAIN LEVEL WEST WING 210	NORMAL SMOKE(PHOTO) CLASSROOM 105 V000 M 045 L01D12	(220 2100) NORMAL HEAT (ANALOG) NORTH JAN CLOSET VOO M 053 L01D33 NORMAL SMOKE (PHOTO) MAIN CORR WEST VOO M 039 L01D54	(230-2100) NORMAL SMOKE(PHOTO) INFANT 2 CRIB AREA
		(Z10 Z100)	(Z20 Z100)	(Z30 Z100)
	O	NORMAL SMOKE (PHOTO) CLASSROOM 105 V000 M 050 L01D13 (Z10 Z100)	NORMAL SMOKE(PHOTO) TOP OF NORTH STAIRS VOO M 057 L01D34 (Z50 Z100) VOO M 057 L01D34 (Z20 Z100) VOO M 046 L01D55	NORMAL SMOKE(PHOTO) HC RR 108 (Z30 Z100)
	NORMAL FORWARD ZONE INFANT CARE ADDITION Z30	NORMAL SMOKE (PHOTO) WEST ENTRY V000 M 051 L01D14 (Z10 Z100)	NORMAL HEAT (ANALOG) LOWER NORTH JAN CLST V000 M 051 L01D35 (Z60 Z100) V000 M 051 L01D35 (Z20 Z100)	NORMAL HEAT(ANALOG) LAUNDRY 106 (Z30 Z100)
	NORMAL FORWARD ZONE CAFE-GYM AREA Z40	NORMAL HEAT (ANALOG) MAIN LOBBY JANITOR V000 M 063 L01D15	NORMAL HEAT (ANALOG) NORTH COMP STORAGE V000 M 051 L01D36 V000 M 053 L01D57	NORMAL SMOKE (PHOTO) BREAST FEEDING 105
	NORMAL FORWARD ZONE UPPER NORTH WING 250	NORMAL SMOKE(PHOTO) MAIN CORR EAST V000 M 056 L01D16	(220 2100) NORMAL SMOKE(PHOTO) MAIN CORR NORTH V000 M 039 1 01p37 NORMAL HEAT(ANALOG) GIRLS JANITOR CLST V000 M 051 4 01p58	(230 2100)
		(Z10 Z100)	(Z60 Z100)	(z30 z100)
	NORMAL FORWARD ZONE LOWER NORTH WING Z60	NORMAL SMOKE (PHOTO) TOP OF MAIN STAIRS V000 M 057 L01D17 (Z40 Z100)	NORMAL SMOKE(PHOTO) MAIN CORR CENTER V000 M 040 L01038 (Z60 Z100) V000 M 040 L01038 (Z103 L01M51) V01 DUCT DET RETURN V000 M 036 L01D59	NORMAL SMOKE(PHOTO) ADDIT CORRIDOR WEST (Z30 Z100)
	NORMAL FORWARD ZONE SPRINKLER WATER FLOW Z95	NORMAL HEAT (ANALOG) CAFETERIA WEST V000 M 051 L01D18 (240 2100)	NORMAL SMOKE (PHOTO) MAIN CORR SOUTH V000 M 049 L01D39 NORMAL SMOKE (PHOTO) RTU4 DUCT DET RETURN V000 M 037 L01D60 (2103 L01M52)	NORMAL <u>SMOKE(PHOTO)</u> STAFF OFFICE (Z30 Z100)
	NORMAL FORWARD ZONE VALVE SUPERVISORY	NORMAL SMOKE (PHOTO) MAIN LOBBY V000 M 055 L01D19	NORMAL SMOKE (PHOTO) LOWER OFFICE RM V000 M 055 L01D40 NORMAL SMOKE (PHOTO) RTU4 DUCT DET SUPPLY V000 M 036 L01D61	NORMAL SMOKE (PHOTO) DIRECTORS OFFICE
		$(240 \ 2100)$	(250 2100) (2103 L01m52) (2103 L01m52) (2103 L01m52) (2103 L01m52)	$(230 \ 2100)$
	(Z150)			(Z30 Z100)
	NORMAL FORWARD ZONE PULL STATION ALARM Z101 (Z150)	NORMAL SMOKE(PHOTO) COUNSELING OFFICE V000 M 048 L01D21 (Z10 Z100)	NORMAL HEAT (ANALOG) BOILER RM STORAGE V000 M 051 L01D42 (Z60 Z100) V000 M 051 L01D42 (Z103 L01M50)	NORMAL SMOKE(PHOTO) TODDLERS 4 (Z30 Z100)
	NORMAL FORWARD ZONE DUCT SUPERVISORY Z103	NORMAL HEAT (ANALOG) PE STORAGE RM V000 M 049 L01D22 (Z40 Z100)	NORMAL HEAT (ANALOG) COPIER-WORK ROOM VOO M 049 L01043 NORMAL SMOKE (PHOTO) RTU2 DUCT DET RETURN V000 M 038 L01064 (Z103 L01M50)	NORMAL SMOKE(PHOTO) TODDLERS 4 TOILET
	NORMAL FORWARD ZONE HORN STROBE TRIGGER Z150	NORMAL HEAT (ANALOG) FOOD STORAGE RM V000 M 050 L01D23	NORMAL SMOKE (PHOTO) LOWER OFFIC RM V000 M 045 L01D44 NORMAL SMOKE (PHOTO) RTU-1 DUCT DET V000 M 036 L01D65	NORMAL SMOKE (PHOTO) TODDLERS 3 TOILET
		(240, 2100)	(2103 ± 0.01) $(2103 \pm 0.01$	(230 2100)
	(Z103 L01M54)	(240 Z100)	$(z_{103} L_{01}M_{50})$	(Z30 Z100)
	NORMAL SMOKE(PHOTO) RTU3 DUCT DET RETURN V000 M 036 L01D02 (Z103 L01M54)	NORMAL HEAT (ANALOG) CAFETERIA EAST VOOO M 053 L01D25 (Z40 Z100)	NORMAL SMOKE (PHOTO) LOWER SOUTH LOBBY V000 M 043 L01D46 NORMAL SMOKE (PHOTO) RTU-5 SUPPLY DUCT V000 M 036 L01D70 (Z103 L01M70)	OFF TRBL MONITOR PS-1 TROUBLE K
	NORMAL_SMOKE(PHOTO) MAIN CORR. EAST V000 M 053 L01D03	NORMAL HEAT (ANALOG) CAFETERIA NORTH V000 M 053 L01D26 (240 2100)	NORMAL SMOKE(PHOTO) LOWER OFFICE RM V000 M 056 L01D47 NORMAL SMOKE(PHOTO) RTU-7 SUPPLY DUCT V000 M 037 L01D71 (Z60 Z100) (Z103 L01M71) (Z10M71) (Z10M71) (Z10M71	OFF CONTROL NAC-1 CF
	NORMAL SMOKE (PHOTO) MAIN CORR. EAST V000 M 055 L01D04	NORMAL HEAT (ANALOG) KITCHEN OFFICE HEAT V000 M 054 L01D27	NORMAL SMOKE(PHOTO) LOWER CENTER LOBBY V000 M 039 L01D48 NORMAL SMOKE(PHOTO) STORAGE V000 M 044 L01D80	OFF CONTROL NAC-2 CF
	VOOD M 045 LOIDOS		$(250 \ Z100)$ $(230 \ Z100)$ $NORMAL HEAT (ANALOG) + OWER SOLITH JAN CLST VOOD M 053 + 01049$ $NORMAL SMOKE(PHOTO) ADDIT CORRIDOR EAST VOOD M 045 + 01081$	
	(z40 z100)	(Z50 Z100)	(Z60 Z100)	OR(Z150)
	NORMAL SMOKE (PHOTO) MAIN CORR. CENTER VOOO M 054 L01D06 (Z10 Z100)	NORMAL SMOKE (PHOTO) COMPUTER CLASSROOM V000 M 042 L01D29 (250 Z100)	NORMAL SMOKE (PHOTO) MAIN CORR. EAST V000 M 051 L01D50 (Z30 Z100) ADDIT CORRIDOR CNTR V000 M 046 L01D82	OFF CONTROL NAC-4 CF OR(Z150)
	NORMAL SMOKE(PHOTO) MAIN CORR. WEST VOOO M 053 LO1D07 (Z10 Z100)	NORMAL_SMOKE(PHOTO) COMPUTER CLASSROOM V000 M 043 L01D30 (Z40 Z100)	NORMAL SMOKE(PHOTO) MAIN CORR. EAST VOOD M 054 L01D51 (Z20 Z100) INFANT 1 CRIB AREA VOOD M 050 L01D83	OFF <u>CONTROL</u> HORN CONTROL CF OR(2150)
	Page 1	Page 2	Page 3 Page 4	Page 5
	NORTH NORMAL MON PULL STA WEST STAIRS PULL LO1M20	OFF FORM C RELAY RTU-2 SHUTDOWN CF L01M50		
¥.	NORMAL MON PULL STA CLASSROOM 105	OFF FORM C RELAY HVU-1 SHUTDOWN CF		
	(Z10 Z101)			
	(Z10 Z101)	OR (Z100)		
	NORMAL MON PULL STA CLASSROOM 104 EXIT L01M23 (Z10 Z101)	OFF FORM C RELAY RTU-1 SHUTDOWN CF L01M53 OR(Z100)		
	NORMAL MON PULL STA CLASSROOM 103 EXIT	OFF FORM C RELAY RTU-3 SHUTDOWN CF L01M54		
	NORMAL MON PULL STA CLASSROOM 102 EXIT	OFF TRBL MONITOR PS-2 TROUBLE K 101M60		
	NORMAL MON PULL STA MAIN LOBBY PULL LO1M30 (Z40 Z101)	OFF CONTROL NAC 1 CF L01M61 OR(Z150)		
	OFF POWER (CONV) BEAM POWER CONTROL CF L01M31 OR()	OFF CONTROL NAC 2 CF L01M62 OR(Z150)		
	NORMAL SMOKE (CONV) GYM BEAM DETECTORS L01M32	OEF CONTROL NAC 3 CF L01M63		
	NORMAL MONI PULL STA BOTI FR RM FXTT			
	(Z60 Z101)	OR(Z150)		
	NORMAL MON PULL STA GYM EAST EXIT PULL LO1M34 (Z40 Z101)	OFF FORM C RELAY RTU-5 SHUTDOWN CF L01M70		
	NORMAL MON PULL STA KITCHEN EAST EXIT L01M35	OFF FORM C RELAY RTU-7 SHUTDOWN CF L01M71		
	NORMAL MONITOR KITCHEN DETECTORS	NORMAL MON PULL STA TODDLERS RM 114 FXTT		
	NORMAL MON PULL STA TOP OF NORTH STAIRS LO1M38 (Z50 Z101)	NORMAL MON PULL STA TODDLERS RM 119 EXIT L01M81 (Z30 Z101)		
	NORMAL MON PULL STA NORTH EXIT PULL LO1M39 (260 Z101)	NORMAL MON PULL STA LOBBY 100 EXIT		- 1
	NORMAL MONITOR BOILER RM HEAT DET LO1M41	OFF FORM C RELAY ADDIT DOOR CONTROL CF L01M83	REVISION Drawing Title:	A COORDINA
	NORMAL MON PULL STA LWR ONTR LORRY PULL			
	(Z60 Z101)	OR(Z100)		
	NORMAL MON PULL STA LOWER LOBBY PULL LO1M46 (Z60 Z101)	OFF TRBL MONITOR PS-3 TROUBLE MON K L01M90	DATE:	REFERENCE DRAWING NO. REVISI
	NORMAL MON PULL STA LOWER WEST ENTRY LO1M47 (Z20 Z101)	OFF CONTROL PS-3 NAC 1 CF L01M91 OR(Z150)		SALES ENGINEER: PROJECT MANAGER: APPLICATION ENGINEER
	NORMAL MON PULL STA BOTTOM OF WEST STAIR LO1M48	OFF CONTROL PS-3 SIGNAL SILENCE CF S L01M95	TIME: Project Title:	
	NORMAL MONITOR KITCHEN HOOD ANSUL LOIMAG	OR(Z150) ****** INSTALLED POINT REPORT END ****** 01.48p 02/12/02	LITTLETON PUBLIC SCHOOLS	PROJECT: FA MN STANDARDS 0
900 15	(Z40 Z100)		Size - 30x42 FIRE ALARM AND	
	Page 6	Page 7	MASS NOTIFICATION STANDARDS	LITTLETON PUBLIC SCHOOLS
			FILE NAME:	
				•

EXAMPLE EXISTING FIRE ALARM SYSTEM INFORMATION

REVISION INFORMATION	Drawing Title:			A B	COORI COORI	DINATION DINATION
IUMBER:	INFORMATION					
DATE:		REFERENCE D	RAWING	NO.	RE	VISION-
		SALES ENGINEER:	PROJECT N	ANAGER:	APPLICATION ENGIN	IEER:
IME:	Project Title:					
Size — 30x42	LITTLETON PUBLIC SCHOOLS FIRE ALARM AND MASS NOTIFICATION STANDARDS	PROJECT:	FA MN	STANI c schools	DARDS	OWNEF LIT 57 LIT
ILE NAME:			TLETON, COLC	RADO		

INTERFACE EQUIPMENT (Specify) AHU SHUTDOWN (Specify) MAG, DOOR HOLDERS (Specify) SMOKE DAMPERS	Visuat	Device Operation X X			Simulated Operation			NOTES AND COM	IMENTS:	
SPECIAL HAZARD SYSTEMS (Specify) ANSUL (Specify) (Specify) Special Procedures:								 NO PULL NO REMO SYSTEM NO SPRIN ALL DET SYSTEM 	STATION IN OFFICE TE TEST SWITCHES RESTORED TO NORM KLER SYSTEM. CTOR CONTAMINA DOES NOT SYNC.	AREA.(not required) ON L01D23,L1D15 TES IAL. TION LEVELS BELOW
ANSUL SYSTEM TESTED BY CONTR Comments: DUCT SMOKE DETECTION IS SUPE	ACTOR T	EST RESULTS I NON ALARM C	IN FIRE	ALARM :	SYSTEM LOG E	OOK.				
SUPERVISING STATION MONITOR Alarm Signal Alarm Restoration Trouble Signal Supervisory Signal Supervisory Restoration NOTIFICATIONS THAT TESTING I Building Management Monitoring Agency Building Occupants AHJ	RING S COMPL	Yes X X X X ETE Yes X X X X		Time 5 SEC. 5 SEC. N/A N/A Time	Comments					
The following did not operate correctly: s	ystem work	ked well								
System restored to normal operation: THIS TESTING WAS PERFORMED Name of Inspector: GLENN BENJAMIN Signature: Diana Benjamin Name of Owner corresponding: LPS ME	Date: 6/	/24/13 RDANCE WITE /24/13	Time: I APPLI Time:	3:30 PM ICABLE I 3:30PM	NFPA STANDA	RDS.				
Date: Time:	CHANICA	L'SYSTEMS M/	ANAGE	<u>r</u>			11 (17, 10 -			
Signature										

L01M13 L01M14 S:L01M15 Image: Signame information informatina informatinterval information information informatinte		0 M 048 0 M 048 0 M 046 0 M 045 0 M 045 0 M 046 0 M 045 0 M 055	L01D84 L01D84 L01D85 L01D85 L01D85 L01D86 L01D87 L01D88 L01D89 L01D93 L01D93 L01D93 L01D93 L01D93 L01D93				
DWNER: LITTLETON PUBLIC SCHOOLS 5776 SOUTH CROCKER STREET LITTLETON, COLORADO DRAWING NUMBER	ATION SU ATION SU SION-LOC R: BY: CCP	IBMITTAL IBMITTAL IBMITTAL ATION DRAWN DATE: C	L01M13 L01M14 L01M15	ECN BY:	07, 09, DA	/22/14 /23/14 DATE PROVED TE:	TLH TLH BY
	UTTLET	ON PUBLIC S SOUTH CROC ON, COLORAI	,+, 30/14 SCHOOLS KER STREE DO	T		RACT NUM	IBER





EXAMPLE SCHOOL: FIRE ALARM SYSTEM PLAN - DEMOLITION

REVISION	Drawing Title:			А	COORI	DINATIO	N
INFORMATION				В	COORI	DINATIO	N
NUMBER:	FIRE ALARM SYSTEM PLAN						
DATE:	DEMOLITION	REFERENCE D	RAWING	NO.	RE	VISION	_
		SALES ENGINEER:	PROJECT N	IANAGER:	APPLICATION ENGIN	NEER:	
TIME:	Project Title:						
	LITTLETON PUBLIC SCHOOLS	PROJECT:	FA MN	STAN	DARDS	OWNE	R
Size — 30x42	FIRE ALARM AND MASS NOTIFICATION STANDARDS		TLETON PUBLI	C SCHOOLS		L 5 L	IT 7 IT
FILE NAME:			TLETON, COLO	RADO			

					_		
N SUBMIT	TAL				(07/22/14	TLH
N SUBMIT	TAL					09/23/14	TLH
-LOCATIO	N	ECN				DATE	ΒY
	DRAWN		APPROVED				
BY: CCP	DATE: 04/30	/14	BY:				
R: TTLETON F 776 SOUT TTLETON,	PUBLIC SCHOO H CROCKER S COLORADO	DLS STREET			CO • Di	NTRACT NUN	/BER BER
					F/	\-3	







EXAMPLE SCHOOL: FIRE ALARM SYSTEM PLAN - NEW - LOWER LEVEL

NEW FIRE ALARM PLAN - LOWER LEVEL SCALE: 1/8"=1'-0"

KEY PLAN (NOT TO SCALE):

N



REVISION INFORMATION NUMBER: DATE:	Drawing Title: EXAMPLE SCHOOL FIRE ALARM SYSTEM PLAN NEW - LOWER LEVEL	REFERENCE D SALES ENGINEER:	RAWING PROJECT	A B NO.	COOR COOR	DINATION DINATION EVISION-
TIME: Size – 30x42 FILE NAME:	Project Title: LITTLETON PUBLIC SCHOOLS FIRE ALARM AND MASS NOTIFICATION STANDARDS	PROJECT:	FA MN	I STANE IC SCHOOLS DRADO	DARDS	OWNE

MOUNT SMOKE OR HEAT DETECTOR TO THE B JOIST <u>TOP</u> CHORD. PAINT CONDUIT TO MATCH SURFACE. MOUNT STROBE OR HORN/STROBE TO THE BC JOIST <u>BOTTOM</u> CHORD. USE CONDUIT AND PA EXISTING SURFACE. USE STI-8170 BACK PLA SMOKE DETECTOR SERVES FACP AND MAGNET IN ACCORDANCE WITH NFPA 72. SOME FACIL A SMOKE DETECTOR WITHIN 6' OF THE FACP WITH NFPA 72 SECTION 17.4.10	OTTOM OF THE H EXISTING DTTOM OF THE AINT TO MATCH ATE. IC DOOR HOLDER ITIES MAY REQUIRE IN ACCORDANCE
(19)	
	——————————————————————————————————————
UNFINISHED CLG BOILER 25 STORAGE 24 O	
HED CLG	
	(K)
SUBMITTAL SUBMITTAL	07/22/14 TLH 09/23/14 TLH
DCATION ECN DRAWN DATE: 04/30/14 BY: ETON PUBLIC SCHOOLS	DATE BY APPROVED DATE: CONTRACT NUMBER
SOUTH CROCKER STREET ETON, COLORADO	DRAWING NUMBER





EXAMPLE SCHOOL: FIRE ALARM SYSTEM PLAN - NEW - MAIN LEVEL

KEY PLAN (NOT TO SCALE):

N





CONCEPTUAL RISER DIAGRAM - ELEMENTARY SCHOOL



REVISION INFORMATION NUMBER:	Drawing Title: CONCEPTUAL RISER DIAGRAM		A B		COORDI COORDI	INATION INATION	N SUBMI N SUBMI	TTAL TTAL			07/22/14 09/23/14	TLH TLH
DATE:	ELEMENTARY SCHOOL	REFERENCE D SALES ENGINEER:	RAWING NO. PROJECT MANAGER:	APF	REV	ISION-	-LOCATIC	DRAWN	E	CN	DATE APPROVED	BY
TIME:	Project Title:						BY: CCP	DATE: 04/30)/14	BY:	DATE:	
Size - 30x42	LITTLETON PUBLIC SCHOOLS FIRE ALARM AND	PROJECT:	FA MN STAN	DAR	rds	OWNE	r: Ttleton 776 Sou ⁻ Ttleton	PUBLIC SCHOO	OLS STREET	-	CONTRACT NUM	MBER
FILE NAME:	MASS NOTIFICATION STANDARDS		TLETON, COLORADO				TILLION,	COLONADO			drawing num FA-6	IBER



CONCEPTUAL RISER DIAGRAM - MIDDLE /HIGH SCHOOL