PSD 7 Schools Fire Alarm Replacement ADDENDUM 3

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Addendum #3 – November 13, 2020



The following items are hereby amended and are to be incorporated into the Bid Documents. Bidders are required to acknowledge receipt of all addenda issued.

Fire Alarm Plans:

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TLH Fire

- 1. Add clarification to section 3 of the scope of work, "Updated graphic map shall match field signage."
- 2. Add clarification to section 6 of the scope of work, "Updated record drawings shall match field signage."
- 3. Add to section 4 of the alternates:

Carbon monoxde locations: CLPM (4): Facilities Plumbing (next to Kitchen 122A), Kitchen 122A, Athletics Gym, 154 West Locker Room, below Theatre Stage 137, Modular Building Furnace Closets (2) FCHS (2): Room B06, Kitchen A28 LMS (2): Facilities Mechanical 111, Kitchen 102 PHS (2): Facilities Plumbing (lower level), Kitchen, Modular Building Furnace Closets (6) RMHS (3): Facilities Plumbing 117, Facilities Mechanical 419A, Kitchen 122A TES (3): Facilities Boiler 601, Kitchen 416, Room 405 WMS (2): Facilities Plumbing E14A, Kitchen E12A, Modular Building Furnace Closets (1)

Bosch Clarification

1. Telephone line from the Bosch communicator to the FACP shall be installed in conduit. Installation manual guidelines attached.

Attachments:

2020.11.11-PSD7Schools_FireAlarmReplacement_Add3_Plans (1 page) B465_IOG_Contractor Installation_Manual (1 page) Existing carbon monoxide location maps (8 pages)



DESIGN CRITERIA

DESIGN STANDARDS HAVE BEEN TRUNCATED FOR THE NOTIFICATION UPGRADE PROJECTS AND EXISTING INITIATING DEVICES MAY NOT COMPLY WITH STATE CODE REQUIREMENTS (INTERNATIONAL BUILDING CODE 2018) AND NFPA 72 2016). THE FIRE ALARM SYSTEM DESIGN INCORPORATES THE FOLLOWING DESIGN CRITERIA. (EXCEPTIONS FOR SCHOOLS PROTECTED THROUGHOUT WITH AUTOMATIC SPRINKLERS ARE NOTED WHERE APPLICABLE.) SMOKE DETECTION

1. SMOKE DETECTORS SHALL BE LOCATED THROUGHOUT ALL COMMON CORRIDORS. THESE SMOKE DETECTORS SHALL CONTROL MAGNETIC DOOR HOLD OPENS. DOOR HOLDERS SHALL RELEASE UPON GENERAL ALARM. (FULLY SPRINKLERED SCHOOLS SHALL ONLY HAVE SMOKE DETECTORS WITHIN 5 FEET OF MAGNETIC DOOR HOLDERS.) 2. A SMOKE DETECTOR SHALL BE LOCATED IN THE MAIN ELECTRICAL ROOM.

3. SMOKE DETECTORS SHALL BE LOCATED AT ALL FIRE ALARM REMOTE POWER SUPPLY PANELS AND FIRE ALARM CONTROL PANEL LOCATIONS UNLESS THE ENVIRONMENT IS UNSUITABLE FOR SMOKE DETECTORS IN WHICH CASE 135 DEGREE FIXED TEMPERATURE HEAT DETECTORS SHALL BE UTILIZED. 4. SMOKE DETECTORS SHALL BE LOCATED IN ALL COMPUTER CLASSROOMS. (NOT REQUIRED IF THE BUILDING IS PROTECTED THROUGHOUT WITH AUTOMATIC SPRINKLERS.)

5. SMOKE DETECTORS SHALL BE LOCATED IN THE LIBRARY/MEDIA CENTER. (NOT REQUIRED IF THE BUILDING IS PROTECTED THROUGHOUT WITH AUTOMATIC SPRINKLERS.) 6. A SMOKE DETECTOR SHALL BE LOCATED IN EACH MDF/IDF ROOM.

7. A SMOKE DETECTOR SHALL BE LOCATED IN EACH MODULAR CLASSROOM AND SHALL BE NON-INTELLIGENT.

8. SMOKE DETECTORS SHALL BE LOCATED IN ELEVATOR LOBBIES, ELEVATOR MACHINE ROOM, AND THE TOP OF SHAFT FOR ELEVATOR CONTROL PURPOSES AS REQUIRED BY ANSI A 17.1. 9. SMOKE DETECTORS SHALL BE PROVIDED AS REQUIRED BY THE INTERNATIONAL MECHANICAL CODE FOR FIRE/SMOKE DAMPERS IF APPLICABLE TO THE SCHOOL. 10.PROVIDE WIRE GUARDS FOR ALL GYM AND CAFETERIA SMOKE DETECTORS. CONTRACTOR SHALL NOTCH WIRE GUARDS TO ALLOW FOR MAGNETIC TESTING. NOTE: MAGNET TESTING IS NOT A SUBSTITUTE FOR SMOKE CHAMBER ENTRY TESTING. **HEAT DETECTION:**

1. WHEN THE FACP IS LOCATED IN THE VESTIBULE, AN INTELLIGENT 135 DEGREE FIXED TEMP HEAT DETECTOR SHALL BE LOCATED IN THE VESTIBULE. 2. HEAT DETECTORS SHALL BE LOCATED IN ALL CODE REQUIRED AREAS, NOT SUITABLE FOR SMOKE DETECTION.

CARBON MONOXIDE (CO) SENSORS (ALTERNATE 4): 1. CARBON MONOXIDE (CO) SENSORS SHALL BE MONITORED BY ADDRESSABLE FIRE ALARM MONITOR MODULE, AND SHALL REPORT TO THE FIRE ALARM SYSTEM AS AN "ALARMSUPERVISORY" TYPE DEVICE. 2. CARBON MONOXIDE (CO) SENSORS SHALL HAVE THREE CO EXPOSURE LEVEL SETTINGS FOR SHORT, MEDIUM, AND LONG DURATION PERIODS OF EXPOSURE TO CO GAS. 3. CARBON MONOXIDE DETECTORS SHALL BE LOCATED IN KITCHEN, BOILER ROOM, ROOMS WITH GAS FIRED EQUIPMENT INCLUDING SCIENCE PREP ROOMS, SCIENCE CLASSROOMS, LABORATORIES, HOME ECONOMICS (WITH GAS), GAS WATER HEATERS, GAS FURNACES, AND GAS FIRED AHUS OR FIRST ROOM SERVED BY A GAS FIRED AHU.

4. CARBON MONOXIDE DETECTORS SHALL BE LOCATED IN EACH MODULAR CLASSROOM AND SHALL BE NON-INTELLIGENT.

AUDIBLE, VISUAL, AND AUDIBLE/VISUAL NOTIFICATION APPLIANCES (BASE BID): 1. HORNS AND HORN/STROBES SHALL BE GENERALLY LOCATED TO PROVIDE A MINIMUM OF 15DB ABOVE AMBIENT SOUND LEVELS THROUGHOUT ALL BUILDING AREAS. 2. HORN/STROBES SHALL BE LOCATED IN ALL MECHANICAL ROOMS, AND OTHER HIGH-NOISE AREAS.

3. HORN/STROBES SHALL BE LOCATED IN ALL CLASSROOM AREAS. 4. HORNS AND STROBES SHALL BE LOCATED IN GYMNASIUMS.

5. ALL HORNS SHALL BE SET TO THE LOW VOLUME SETTING AND SHALL BE PLACED TO MEET DB LEVEL REQUIREMENTS.

6. HORN/STROBES SHALL BE LOCATED IN ALL COMMON "PUBLIC AREA" SPACES, INCLUDING CORRIDORS, CLASSROOMS, OPEN OFFICE AREAS, AND OTHER AREAS WHERE MORE THAN ONE-PERSON OCCUPANCY WOULD BE EXPECTED.

7. STROBES SHALL BE LOCATED IN ALL RESTROOMS EXCEPT SINGLE WATER CLOSETS (TOILET ONLY) WITHOUT A SINK SPECIFICALLY IN KINDERGARTEN AND PRE-SCHOOL CLASSROOMS. 8. 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.

9. STROBES SHALL BE LOCATED IN CLINICS AND CONFERENCE ROOMS.

10.STROBES SHALL NOT BE INSTALLED IN SINGLE OCCUPANT OFFICES. 11.CEILING MOUNTED HORN/STROBES ARE PREFERRED OVER WALL MOUNTED IN CLASSROOMS, RESTROOMS, AND OFFICES. CEILING MOUNTED HORNS, STROBES, AND HORN/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 OR AHJ. 12.WHEN CEILING MOUNTING IS NOT PRACTICAL, HORNS, STROBES, AND HORN/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. 13.FOR SPECIFIC LIMITED APPLICATIONS, THE HORNS, STROBES, AND HORN/STROBES MAY BE INSTALLED WITH THE TOP OF THE VISUAL SIGNAL (STROBE) LENS AT UP TO 96" ABOVE FINISHED FLOOR. EACH LOCATION MUST BE APPROVED IN WRITING BY THE ENGINEER OR AHJ. 14.EXTERIOR WEATHERPROOF HORN/STROBES SHALL BE PROVIDED AT THE FIRE DEPARTMENT RESPONSE POINT. THE HORN SHALL BE SILENCEABLE AND THE NOTIFICATION APPLIANCE SHALL BE MOUNTED 10 FEET

ABOVE GRADE.

15.PROVIDE WIRE GUARDS FOR ALL LOCKER ROOM, GYM AND CAFETERIA HORNS, STROBES AND HORN/STROBES.

16.HORNS, STROBES AND HORN/STROBES SHALL BE RED AND LABELED "FIRE" AUDIBLE, VISUAL, AND AUDIBLE/VISUAL NOTIFICATION APPLIANCES (ALTERNATE 2):

1. SPEAKERS AND SPEAKER/STROBES SHALL BE GENERALLY LOCATED TO PROVIDE A MINIMUM OF 15DB ABOVE AMBIENT SOUND LEVELS THROUGHOUT ALL BUILDING AREAS. 2. SPEAKER/STROBES SHALL BE LOCATED IN ALL MECHANICAL ROOMS, AND OTHER HIGH-NOISE AREAS. 3. SPEAKER/STROBES SHALL BE LOCATED IN ALL CLASSROOM AREAS.

4. LOUDSPEAKERS AND STROBES SHALL BE LOCATED IN GYMNASIUMS.

5. ALL SPEAKERS SHALL BE SET TO THE VOLUME SETTING RECOMMENDED BY MANUFACTURER TO MEET INTELLIGIBILITY AND DB LEVEL REQUIREMENTS. 6. SPEAKER/STROBES SHALL BE LOCATED IN ALL COMMON "PUBLIC AREA" SPACES, INCLUDING CORRIDORS, CLASSROOMS, RESTROOMS, OPEN OFFICE AREAS, AND OTHER AREAS WHERE MORE THAN ONE-PERSON OCCUPANCY WOULD BE EXPECTED. 7. STROBES SHALL BE LOCATED IN ALL RESTROOMS EXCEPT SINGLE WATER CLOSETS (TOILET ONLY) WITHOUT A SINK SPECIFICALLY IN KINDERGARTEN AND PRE-SCHOOL CLASSROOMS. 8. 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.

9. STROBES SHALL BE LOCATED IN CLINICS AND CONFERENCE ROOMS. 10.STROBES SHALL NOT BE INSTALLED IN SINGLE OCCUPANT OFFICES.

11.CEILING MOUNTED SPEAKER/STROBES ARE PREFERRED OVER WALL MOUNTED IN CLASSROOMS, RESTROOMS, AND OFFICES, CEILING MOUNTED SPEAKERS, STROBES, AND SPEAKER/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 OR AHJ. 12.WHEN CEILING MOUNTING IS NOT PRACTICAL, SPEAKERS, STROBES, AND SPEAKER/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.

13.FOR SPECIFIC LIMITED APPLICATIONS, THE SPEAKERS, STROBES, AND SPEAKER/STROBES MAY BE INSTALLED WITH THE TOP OF THE VISUAL SIGNAL (STROBE) LENS AT UP TO 96" ABOVE FINISHED FLOOR. EACH LOCATION MUST BE APPROVED IN WRITING BY THE ENGINEER OR AHJ.

14.EXTERIOR WEATHERPROOF HORN/STROBES SHALL BE PROVIDED AT THE FIRE DEPARTMENT RESPONSE POINT. THE HORN SHALL BE SILENCEABLE AND THE NOTIFICATION APPLIANCE SHALL BE MOUNTED 10 FEET ABOVE GRADE. 15.PROVIDE WIRE GUARDS FOR ALL GYM AND CAFETERIA SPEAKERS, STROBES AND SPEAKER/STROBES.

16.SPEAKERS, STROBES AND SPEAKER/STROBES SHALL BE WHITE AND LABELED "FIRE"

17.SPEAKERS AND SPEAKER/STROBES SHALL BE INSTALLED IN DEDICATED ZONES AS REQUIRED BY DIVISION 284650.

REMOTE MONITORING, FIRE ALARM CONTROL PANEL AND REMOTE POWER SUPPLY (ALTERNATE 3): 1. A BOSCH 465 COMMUNICATOR SHALL BE PROVIDED FOR OFFSITE MONITORING. THE FIRE ALARM SYSTEM SHALL REPORT ALARM, TROUBLE, SUPERVISORY AND WATERFLOW TO THE MONITORING COMPANY. 2. PROVIDE A NETWORK DROP AT THE FACP FOR A WEB INTERFACE ALLOWING REMOTE VIEWING OF THE FACP.

3. AN ELECTRICAL OUTLET IS REQUIRED AND SHALL BE PROVIDED BY EACH FACP.

4. THE ELECTRICAL CONTRACTOR SHALL RUN EM POWER TO FACP AND RPS FROM THE FACILITY EM PANEL. LABELS FOR DEVICES:

1. ALL EQUIPMENT SHALL BE CLEARLY LABELED WITH THE DEVICE ADDRESS ON THE BASE OF THE DETECTOR OR MANUAL PULL STATION WITH TYPE BLACK LETTERED ON A CLEAR BACKGROUND LABELS WITH A TEXT SIZE OF AT LEAST 18 POINT.

i. SMOKE DETECTORS AND MANUAL PULL STATIONS SHALL BE LABELED WITH THE DEVICE ADDRESS ON THE BASE OF THE DETECTOR OR MANUAL PULL STATION. ii. ALL NOTIFICATION APPLIANCES SHALL BE LABELED WITH THE NOTIFICATION CIRCUIT DESIGNATION. THE "END OF LINE" SHALL BE CLEARLY LABELED. iii. MONITOR AND RELAY MODULES SHALL BE LABELED WITH THE DEVICE ADDRESS AND FUNCTION. (FOR EXAMPLE: L1M-23 WATERFLOW; L1M-50 MAG DOOR RELEASE; ETC.) iv. DUCT DETECTORS SHALL BE LABELED WITH THE DEVICE ADDRESS ON THE BASE OF THE DETECTOR AND THE CEILING GRID SHALL BE LABELED AS DUCT DETECTOR, HVAC UNIT AND DEVICE ADDRESS. REMOTE TEST SWITCH SHALL INDICATE HVAC UNIT AND DEVICE ADDRESS.

2. ALL MODULES SHALL HAVE THE STATUS LEDS VISIBLE WITHOUT REQUIRING THE REMOVAL OF A CEILING TILE OR COVER PLATE.

GRAPHIC MAP: 1. GRAPHIC MAPS SHALL BE SECURELY MOUNTED NEXT TO THE FIRE ALARM CONTROL PANEL. A GRAPHIC MAP IS ALSO REQUIRED NEXT TO THE REMOTE ANNUNCIATOR (IF PROVIDED). GRAPHIC MAP LOCATION AND COLORS SHALL BE APPROVED BY PSD AND TLH PRIOR TO MOUNTING AND INSTALLATION. END OF FIRE ALARM DESIGN CRITERIA

GENERAL NOTES

1. 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. 3. 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. 7. 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 IS 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 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING THE MEETING MINUTES AND DISTRIBUTING THEM ELECTRONICALLY WITHIN THREE BUSINESS DAYS OF THE MEETING.

13. THE FIRE ALARM SYSTEM VENDOR IS RESPONSIBLE FOR PROVIDING ALL COMPONENTS NECESSARY FOR PROPER SYSTEM FUNCTION ON THE SHOP DRAWING SUBMITTAL 14. ALL SURFACE MOUNTED DEVICES SHALL HAVE THE BACKBOX PROTECTED WITH A DEVICE SPECIFIC BACKBOX SKIRT.

15. WIRING SHALL NOT BE T-TAPPED. INTELLIGENT DEVICE WIRING T-TAPS SHALL BE APPROVED BY ENGINEER AND OWNER PRIOR TO INSTALL

PERMITS AND FEES

THE CONTRACTOR SHALL INCLUDE ALL FEES AND COSTS ASSOCIATED WITH OBTAINING PERMITS FOR EACH SCHOOL. THE CONTRACTOR IS COLORADO, DORA AS WELL AS THE LOCAL AUTHORITY HAVING JURISDICTION. SOME JURISDICTIONS REQUIRE BOTH A FIRE ALARM PERMIT

CEILING INFORMATION

CEILINGS IN CORRIDORS, ADMINISTRATIVE AREA, AND NEW ADDITION CLASSROOMS ARE SUSPENDED ACOUSTICAL TILE (SAT) LESS THAN 10 FINISHED FLOOR. THE GYM. LIBRARY. AND ALL OTHER CLASSROOMS HAVE EXPOSED BEAM CONSTRUCTION.

DEMOLITION ON FLOOR PLANS

THE DEMOLITION INFORMATION ON EACH FLOOR PLAN SHOWS THE EXISTING FIRE ALARM INFORMATION AVAILABLE. THE CONTRACTOR IS F ALARM WHETHER OR NOT SPECIFICALLY SHOWN.

ENVIRONMENTAL CONCERNS

LEAD-BASED PAINT: PLEASE KNOW THAT IF YOU WILL BE DISTURBING AN INTERIOR PAINTED SURFACE OF OVER 6 SQ. FT, A LEAD BASED PAINT ASBESTOS: WHILE THE REPORTS WILL GIVE SOME INSIGHT INTO CERTAIN BUILDING MATERIALS, THEY DO NOT PROVIDE ENOUGH INFORMATION PROJECT TO ENSURE NO ACM WILL BE IMPACTED. THIS IS A SUBSTANTIAL PROJECT AND ONE THAT SHOULD BE EVALUATED BY A THIRD PART IMPACTED.

PINK DEVICES

DEVICES THAT ARE COLORED PINK ARE NEW DEVICE LOCATIONS. CONTRACTOR SHALL PROVIDE AND INSTALL HARDWARE AS

PROTECTION DURING CONSTRUCTION

CONTRACTOR SHALL PROTECT EXISTING SMOKE DETECTOR SENSORS DURING CONSTRUCTION AND CLEAN UP IN ACCORDAN §17.7.1.11.3.

1. CACHE LA POUDRE MIDDLE SCHOOL \mid THE GOAL OF THIS LIMITED NOTIFICATIO AFP-200 (ALT1 - UPGRADE FACP)

- 2. LINCOLN MIDDLE SCHOOL AFP-200 (ALT1 - UPGRADE FACP)
- 3. TRAUT ELEMENTARY SCHOOL AFP-200 (ALT1 - UPGRADE FACP)
- 4. WEBER MIDDLE SCHOOL
- AFP-200 (ALT1 UPGRADE FACP) 5. FORT COLLINS HIGH SCHOOL
- NFS2-3030 (ALT1 UPGRADE UDACT)
- 6. POUDRE HIGH SCHOOL NFS2-3030 (ALT1 - UPGRADE UDACT)

7. ROCKY MOUNTAIN HIGH SCHOOL NFS2-3030 (ALT1 - UPGRADE UDACT)

SCOPE OF WORK - LIMITED NO

AND TO INCLUDE ADDITIONAL HORN/STF SCHOOLS. UTILIZE NOTIFIER BY TECH EL

- 1. EXISTING HORN/STROBES AND STRO TO PRODUCE A SYNCHRONIZED FLA CONVERTING FOUR WIRE NOTIFICA CIRCUITS. MAINTAIN CIRCUIT INTEGR CONNECTORS. SPARE WIRES SHALL "SPARE". THE MEANS AND METHODS NFPA 72 (2016). HORN/STROBES AND
- 2. ADD ADDITIONAL POWER SUPPLIES A SMOKE DETECTOR. ALSO, THE SU ADDITIONAL POWER SUPPLIES, IF R ACHIEVE SYNCHRONIZED NOTIFICAT SYNCHRONIZATION, UTILIZE INTELL PSD. LOCATIONS SHALL BE FIELD CO
- 3. PROVIDE UPDATED GRAPHIC MAP A UPDATED GRAPHIC MAP SHALL MAT
- 4. THE CONTRACTOR SHALL CARRY A THE OWNER'S REQUEST OR TO BE L **REPLACE STROBES WITH HORN/STR** RESPONSIBLE FOR PROVIDING ADDI STATED HEREIN.
- 5. PROVIDE AND INSTALL RELAYS TO SI TURN ON AUDITORIUM LIGHTS
- PROVIDE ACCURATE RECORD DRAW EACH FACILITY, THAT, MAY NOT BE SI <u>MATCH FIELD SIGNAGE.</u>

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NOTE: THE SCOPE OF WORK FOR THIS PROJECT INCLUDES, BUT IS NOT LIMITED TO, WORK CONTRACTOR'S RESPONSIBILITY TO PROVIDE A COMPLETE AND PROPERLY FUNCTIONING 1. THE INTENT OF THIS ALTERNATE IS TO UPGRADE THE FIRE ALARM CONTROL PANEL

- A. PROGRAM FIRE SYSTEM WITH ZONE REPORTING TO DISTRICT MONITORING STAT B. PROVIDE AND INSTALL DIALER CAPTURE ETHERNET MODULE TO MDF ROOM C. PROVIDE AND INSTALL FACP WEB CARD.
- D. MODIFY FACP PROGRAMMING TO MATCH FIELD SIGNAGE.
- E. ADD NEW GRAPHIC MAPS AT FACP AND ANNUNCIATOR (COORDINATE WITH PSD). F. PROVIDE FIRE WATCH FOR BUILDINGS OCCUPIED DURING THE FACP SWAP-OUT PROCEDURE LOCATED IN THE FIRE ALARM LOG BOOK. CONTRACTOR SHALL PROV a. EXISTING WIRING SHALL BE REUSED EXCEPT WHERE ADDITIONAL WIRE IS REC
- G. PROVIDE AND INSTALL NEW BATTERIES AND POWER SUPPLY IN FACP. H. DIALER: PROVIDE DIGITAL ALARM COMMUNICATOR TRANSMITTER (UDACT-2) THAT ALARM, WATER FLOW, SUPERVISORY, OR TROUBLE. THE DACT SHALL UTILIZE ONI
- UTILIZE CONTACT ID TYPE POINT-BY-POINT COMMUNICATION FORMAT. THE DACT TRANSMITTER (DACT). THE CONTRACTOR SHALL PROVIDE ALL POINT-BY-POINT P NORMAL CONDITIONS, INCLUDING ALARM, SUPERVISORY, WATER FLOW AND TRO I. FIRE ALARM CONTRACTOR SHALL UPGRADE ALL FIRMWARE IN FIRE ALARM SYSTI
- a. REPLACE EXISTING CPU WITH LATEST TECHNOLOGY (CPU-2) b. REPLACE EXISTING SLC CARDS WITH FLASH SCAN TECHNOLOGY.
- c. REPLACE EXISTING FACP POWER SUPPLIES WITH LATEST TECHNOLOGY. d. REPLACE EXISTING PANEL COMPONENTS WITH LATEST TECHNOLOGY.
- J. EXISTING DEVICES THAT ARE ABOVE AND BEYOND THE CURRENT STANDARDS S K. ETHERNET COMMUNICATIONS (NWS-3): PROVIDE ETHERNET TOPOLOGY DATA CO OFF NORMAL CONDITION, INCLUDING ALARM, WATER FLOW, SUPERVISORY, OR T DATA ETHERNET CONNECTION PORT FOR INTERCONNECTION TO THE DISTRICT L BROWSING AND EMAIL ALERT FUNCTIONS.
- CONTRACTOR SHALL PROVIDE AND INSTALL NEW VOICE EVACUATION NOTIFI PROJECT SPECIFICATIONS. ADDED AUDIBLE NOTIFICATION MAY BE ACCOMPL CIRCUIT AND REPLACING HORNS/STROBES WITH SPEAKER/STROBES OR A CO CONTRACTOR ELECTS TO UTILIZE SPARE CIRCUITS FOR NEW SPEAKERS, MEG
- A. ADD DIGITAL VOICE COMMAND AND DAA2-SERIES AMPLIFIERS.
- B. CONTRACTOR SHALL INCLUDE DESIGN-BUILD NOTIFICATION APPLIANCE LA C. CONTRACTOR SHALL REPLACE EXISTING SOUND SYSTEM SHUTDOWNS WI GYMNASIUM, CAFETERIA/AUDITORIUM, ETC.).
- BOSCH COMMUNICATOR (PROGRAMMING BY PSD): A. PROVIDE TWO (2) PHONE LINE FROM THE NEAREST TELECOM 66 BLOCKS (PROVID BOXES AND ONE DATA LINE FROM CLOSEST NETWORK PATCH PANEL IN A IDF OR
- a. EXTEND DACT PHONE LINE FROM MDF 66 BLOCK TO BOSCH 465 MODULE. PHO LINE. b. THE BOSCH 465 SHALL UTILIZE A CATEGORY 6 RJ45 DATA ETHERNET CONNEC
- c. PROVIDE THREE (3) FIRE ALARM MONITOR MODULES TO SUPERVISE BOSCH B4
- d. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE INSTAL OWNER AND ENGINEER. B. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL RACEWAY, BOXES, SLEEVE
- CONTRACTOR FOR REQUIREMENTS. C. ELECTRICAL CONTRACTOR SHALL EMPLOY DISTRICT APPROVED TELECOM\DATA
- DROPS. DISTRICT IT DEPARTMENT SHALL MAKE ALL FINAL CROSS-CONNECTS TO 4. PROVIDE CARBON MONOXIDE DETECTION IN ACCORDANCE WITH THE IFC. CARBON MONOXDE LOCATIONS:
 - CLPM: FACILITIES PLUMBING (NEXT TO KITCHEN 122A), KITCHEN 122A, A MODULAR BUILDING FURNACE CLOSETS (2) FCHS: ROOM B06, KITCHEN A28
 - LMS: FACILITIES MECHANICAL 111, KITCHEN 102
 - PHS: FACILITIES PLUMBING (LOWER LEVEL), KITCHEN, MODULAR BUILD RMHS: FACILITIES PLUMBING 117, FACILITIES MECHANICAL 419A, KITCHE TES: FACILITIES BOILER 601, KITCHEN 416, ROOM 405
- WMS: FACILITIES PLUMBING E14A, KITCHEN E12A, MODULAR BUILDING 5. PROVIDE AND INSTALL NEW WIRE FOR VISUAL NOTIFICATION APPLIANCE CIRC 6. PROVIDE AND INSTALL NEW WIRE FOR AUDIBLE NOTIFICATION APPLIANCE CIR

THE SHOP DRAWING SUDIVITIAE.				
ATION.	SHEET NUMBER	SHEET DESCRIPTION	SHE	
	FA000	COVER PAGE - FIRE ALARM SYSTEM	LI.	
	FA001	CONCEPTUAL SEQUENCE, ADS & WIRE CHART	PH	
S ADVISED THAT THERE MAY BE COSTS INCURRED BY THE STATE OF	CL.FAO101	OVERALL - FIRE ALARM SYSTEM PLAN		
AS WELL AS AN ELECTRICAL PERMIT.	CL.FA101A	AREA A - FIRE ALARM SYSTEM PLAN		
	CL.FA101B	AREA B - FIRE ALARM SYSTEM PLAN] PH	
	CL.FA101C	AREA C - FIRE ALARM SYSTEM PLAN	PH	
)' ABOVE FINISHED FLOOR. CEILING IN CAFETERIA IS SAT 14' ABOVE	FC.FAO101	LOWER LEVEL - OVERALL - FIRE ALARM SYSTEM PLAN	PH	
	FC.FAO102	UPPER LEVEL - OVERALL - FIRE ALARM SYSTEM PLAN		
	FC.FA101A	LOWER LEVEL - AREA A - FIRE ALARM SYSTEM PLAN		
	FC.FA101B	LOWER LEVEL - AREA B - FIRE ALARM SYSTEM PLAN	PH	
RESPONSIBLE FOR COMPLETE DEMOLITION OF ALL EXISTING FIRE	FC.FA101C	LOWER LEVEL - AREA C - FIRE ALARM SYSTEM PLAN	PH	
	FC.FA101D	LOWER LEVEL - AREA D - FIRE ALARM SYSTEM PLAN	PH	
	FC.FA101E	LOWER LEVEL - AREA E - FIRE ALARM SYSTEM PLAN		
SAMPLE SHOLLD BE GATHERED PRIOR	FC.FA101F	LOWER LEVEL - AREA F - FIRE ALARM SYSTEM PLAN		
ON TO BE CONSIDERED A COMPREHENSIVE EVALUATION OF THE	FC.FA101G	LOWER LEVEL - AREA G - FIRE ALARM SYSTEM PLAN	PH	
Y CONSULTANT, RLH ENGINEERING, TO ENSURE NO ASBESTOS IS	FC.FA101H	LOWER LEVEL - AREA H - FIRE ALARM SYSTEM PLAN	RM	
	FC.FA101I	LOWER LEVEL - AREA I - FIRE ALARM SYSTEM PLAN	RM	
	FC.FA101J	UPPER LEVEL - AREA J - FIRE ALARM SYSTEM PLAN		
	FC.FA101K	UPPER LEVEL - AREA K - FIRE ALARM SYSTEM PLAN		
SOCIATED WITH NEW DEVICE INSTALLATION.	FC.FA101L	UPPER LEVEL - AREA L - FIRE ALARM SYSTEM PLAN	_∣RM	
ON NC	FC.FA101M	UPPER LEVEL - AREA M - FIRE ALARM SYSTEM PLAN	RM	
ICE WITH NEPA 72	LI.FAO101	OVERALL - FIRE ALARM SYSTEM PLAN	RM	
	LI.FA101A	AREA A - FIRE ALARM SYSTEM PLAN		
	LI.FA101B	AREA B - FIRE ALARM SYSTEM PLAN		
	LI.FA101C	AREA C - FIRE ALARM SYSTEM PLAN	∣RN	

OTIFICATION UPGRADE	FIRE AL	ARM SYSTEM DEVICE LEGEND
ON UPGRADE IS TO PROVIDE NFPA COMPLIANT VISUAL NOTIFICATION ROBES TO PROVIDE AUDIBILITY (60 DBA MINIMUM) THROUGHOUT THE		DESCRIPTION FIRE ALARM CONTROL PANEL - NOTIFIER NFS2-3030
LECTRONICS. OBES SHALL BE REPLACED WITH THE LATEST SYSTEM SENSOR MODEL,	MAP	GRAPHIC MAP, SNAP FRAME
SH AND TEMPORAL 3 TONE. THE CONTRACTOR IS RESPONSIBLE FOR	CAB	
RITY OF THE UNUSED CIRCUIT UTILIZING WIRE NUTS OR WAGO		100W AMPLIFIER
S USED BY THE CONTRACTOR SHALL COMPLY WITH THE NEC (2017) AND	DACT	DIGITAL ALARM COMMUNICATOR - POINT CONTACT ID
WHERE REQUIRED. ALL POWER SUPPLIES SHALL BE PROTECTED WITH	СТХ	BOSCH 465 COMMUNICATOR - POINT CONTACT ID
PPLEMENTAL INTERCOM NON-COMPLIANT TONE SHALL BE REMOVED. EQUIRED, SHALL BE COMPATIBLE WITH EXISTING POWER SUPPLIES TO		
TION CIRCUITS. IF POWER SUPPLIES MUST BE REPLACED TO ACHIEVE	F	MANUAL PULL STATION, DOUBLE ACTION, INTELLIGENT W/
ORDINATED AND APPROVED BY PSD.	K K	KNOX BOX, EXISTING
TCH FIELD SIGNAGE.	2	PHOTOELECTRIC SMOKE DETECTOR, INTELLIGENT
BUDGET FOR 10% ADDITIONAL ADDED DEVICES TO BE INSTALLED AT JSED AS SPARE PARTS. THE ADDITIONAL DEVICES MAY BE USED TO		SMOKE DETECTOR, CONVENTIONAL
COBES IN ORDER TO ACHIEVE 60 DBA MINIMUM. THE CONTRACTOR IS	$\mathbf{F}_{\text{F}} 135^{\circ}$	FIXED 135° HEAT DETECTOR, CONVENTIONAL
	RT	REMOTE TEST STATION
WINCO WIND UNDERVICTING NOTIFICATION DEVICES PRESENT AT		PHOTOELECTRIC DUCT SMOKE DETECTOR, INTELLIGENT, HI-FLO OR LOW-FLO
HQWN QN-THE BID DOCUMENTS. UPDATED RECORD DRAWINGS SHALL		CARBON MONOXIDE DETECTOR, NON-INTELLIGENT
ÎÊŚ		SINGLE INPUT MODULE, INTELLIGENT, WITH HEAVY DUTY RELAY
ADD 3 COUTLINED IN THIS NARRATIVE. ANY OMISSIONS DO NOT RELIEVE THE	←- <u> DH</u>]*	MAGNETIC DOOR HOLDER, EXISTING
SYSTEM AS REQUIRED BY POUDRE SCHOOL DISTRICT.		AUTOMATIC SPRINKLER WATER FLOW SWITCH
TON.		HORN/STROBE, CEILING MOUNT, CD INTENSITY
		HORN, CEILING MOUNT
		HORN/STROBE, WALL MOUNT, CANDELA INTENSITY
DURING OUT OF SERVICE TIME IN ACCORDANCE WITH THE FIRE WATCH VIDE A DEDICATED INDIVIDUAL FOR FIRE WATCH.	LS, 7.5	STROBE, CEILING MOUNT, CANDELA INTENSITY
QUIRED FOR NEW DEVICES.	<u>ю</u> 15	STROBE, WALL MOUNT, CANDELA INTENSITY
T SHALL TRANSMIT ALL CONTROL PANEL OFF NORMAL CONDITION, INCLUDING	\$75C	HORN/STROBE, CEILING MOUNT, CD INTENSITY - BASE BID
IE (1) CAT6E VOICE LINE TO COMPLY WITH NFPA 72 REQUIREMENTS, SHALL SHALL BE NOTIFIER MODEL UDACT-2 OR DISTRICT APPROVED EQUIVALENT	1.0W	HORN, CEILING MOUNT - BASE BID ADD
ROGRAMMING TO SUPPORT TRANSMISSION OF ALL CONTROL PANEL OFF DUBLE.	WG	DEVICE SPECIFIC UL LISTED WIRE GUARD/PROTECTIVE CC
EM TO MOST RECENT VERSIONS.	ĸ	FIRE DEPARTMENT CONNECTION
		PHONE LINE
		TRANSIENT SURGE PROTECTION
HALL REMAIN IN PLACE.)MMUNICATIONS MODULE (LAN) THAT SHALL TRANSMIT ALL CONTROL PANEL	DE	VICE CANDELA & LABELING
ROUBLE VIA EMAIL. THE LAN MODULE SHALL UTILIZE A CATEGORY 6 RJ45 AN/WAN NETWORK. THE LAN MODULE SHALL SUPPORT REMOTE WEB		NOTIFICATION METHOD - PUBLIC MODE
ISHED BY ADDING SPEAKER ONLY DEVICES OR UTILIZATION OF SPARE		
GGER TESTING IS REQUIRED TO VERIFY CIRCUIT INTEGRITY.	NOTIF	FICATION APPLIANCES SHALL BE RED AND LABELED "FIRE"
AYOUT.	*REFER TO RM	1.FA101A FOR ACOUSTICALLY DISTINGUISHABLE SPACES CHA
ITH LOW LEVEL AUDIO AND DUCKING MODULES (AUX GYMNASIUM,		SURVIVABILITY LEVEL = 0
	APPLIC	ABLE CODES & STANDARDS
DE ADDITIONAL BLOCK IF REQUIRED) AND TERMINATED IN THE FACP IN RJ31X & MDF ROOM. BOSCH 465 DIALER CAPTURE ETHERNET MODULE:	NFPA 72 (2016) , IFC	2 (2018), IMC (2018), IBC (2018), NEC (2017)
ONE LINE SHALL RETURN TO 66 BLOCK FOR CONNECTION TO A LEASED VOICE		GOVERNING CODES
TION PORT FOR INTERCONNECTION TO THE DISTRICT LAN/WAN NETWORK. 465 SYSTEM TROUBLE, B465 LOSS OF 120VAC, B465 BATTERY FAIL.	IBC 2018 303.1.3 / SPACE USED FO	ASSOCIATED WITH GROUP E OCCUPANCIES A ROOM C R ASSEMBLY PURPOSES THAT IS ASSOCIATED WITH A
L LOCATION OF THE BOSCH COMMUNICATOR, PHONE AND DATA DROPS WITH	GROUP E OCCUP • 2018 INTERN	PANCY IS NOT CONSIDERED A SEPARATE OCCUPANCY NATIONAL BUILDING CODE
S, ETC. AS REQUIRED. COORDINATE WITH LOW VOLTAGE CABLING	 2018 INTERN 2018 INTERN 	VATIONAL FIRE ALARM CODE
CABLING CONTRACTOR TO RUN ALL DATA AND TELEPHONE CABLING AND	 2018 INTERN 	
U ENSURE LINE SEIZURE AT THE FACE.	2018 INTERN 2017 NATION CONSTRUCT	VATIONAL EIVERGY CODE VATIONAL PLUMBING CODE VAL ELECTRICAL CODE
	 2018 INTERN 2017 NATION CONSTRUCT NUMBER OF 	VATIONAL EIVERGY CODE VATIONAL PLUMBING CODE VAL ELECTRICAL CODE FION TYPE: II-B STORIES: 1-2
ATHLETICS GYM 154 WEST LOCKER ROOM, BELOW THEATRE STAGE 137	 2018 INTERN 2017 NATION CONSTRUCT NUMBER OF OCCUPANCY FIRE ALARM 	ATIONAL ENERGY CODE NATIONAL PLUMBING CODE NAL ELECTRICAL CODE TION TYPE: II-B STORIES: 1-2 Y:E, A2.1 :HORN/STROBES
ATHLETICS GYM 154 WEST LOCKER ROOM, BELOW THEATRE STAGE 137	 2018 INTERN 2017 NATION CONSTRUCT NUMBER OF OCCUPANCN FIRE ALARM FIRE PROTE CLPM: NO 	ATIONAL ENERGY CODE VATIONAL PLUMBING CODE VAL ELECTRICAL CODE TION TYPE: II-B STORIES: 1-2 Y:E, A2.1 HORN/STROBES CTION: FULLY SPRINKLERED FCHS: YES LMS: NO
ATHLETICS GYM 154 WEST LOCKER ROOM, BELOW THEATRE STAGE 137 ING FURNACE CLOSETS (6) EN 122A	 2018 INTERN 2017 NATION CONSTRUCT NUMBER OF OCCUPANC^N FIRE ALARM FIRE PROTE CLPM: NO PHS: PART SQUARE FOR 	NATIONAL ENERGY CODE NATIONAL PLUMBING CODE NAL ELECTRICAL CODE TION TYPE: II-B STORIES: 1-2 Y:E, A2.1 HORN/STROBES CTION: FULLY SPRINKLERED FCHS: YES LMS: NO IAL RMHS: YES TES: YES WMS: YES OTAGE (SQ. FT.):
ATHLETICS GYM 154 WEST LOCKER ROOM, BELOW THEATRE STAGE 137 ING FURNACE CLOSETS (6) EN 122A FURNACE CLOSETS (1)	 2018 INTERN 2017 NATION CONSTRUCT NUMBER OF OCCUPANC¹ FIRE ALARM FIRE PROTE CLPM: NO PHS: PART SQUARE FOR CLPM: 72,9 PHS: 285,28 	NATIONAL ENERGY CODE NATIONAL PLUMBING CODE NAL ELECTRICAL CODE TION TYPE: II-B STORIES: 1-2 Y:E, A2.1 HORN/STROBES CTION: FULLY SPRINKLERED FCHS: YES LMS: NO TAL RMHS: YES TES: YES WMS: YES OTAGE (SQ. FT.): 72 FCHS: 304,308 LMS: 107,220 38 RMHS: 288,768 TES: 50,868 WMS: 122,124
ATHLETICS GYM 154 WEST LOCKER ROOM, BELOW THEATRE STAGE 137, ING FURNACE CLOSETS (6) EN 122A FURNACE CLOSETS (1) CUITS. RCUITS.	 2018 INTERN 2017 NATION CONSTRUCT NUMBER OF OCCUPANC¹ FIRE ALARM FIRE PROTE CLPM: NO PHS: PART SQUARE FOR CLPM: 72,9 PHS: 285,28 	NATIONAL ENERGY CODE NATIONAL PLUMBING CODE NAL ELECTRICAL CODE TION TYPE: II-B STORIES: 1-2 Y:E, A2.1 I:HORN/STROBES CTION: FULLY SPRINKLERED FCHS: YES LMS: NO TAL RMHS: YES TES: YES WMS: YES OTAGE (SQ. FT.): 172 FCHS: 304,308 LMS: 107,220 88 RMHS: 288,768 TES: 50,868 WMS: 122,124
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Figure 4.19: 24VDC wiring to a UL Listed fire control panel or UL Listed power supply

Callout — Description
1 — Conduit required for use with external wiring
2-24 VDC from UL Listed fire control panel wiring or UL Listed power supply wiring
3 — Batteries wires (red and black)
4 — 12 V, 7-18 Ah sealed lead-acid rechargeable battery (D126/D1218)
5 — B465 ground wire connection



Notice!

24VDC input is polarity sensitive. If you connect the DC in the opposite direct the B465 will run but it will indicate a input power failure.



Notice!

Do not wire 16.5 VAC and 24 VDC at the same time. Doing so will damage the module, the transformer, and/or the 24 VDC power supply.







