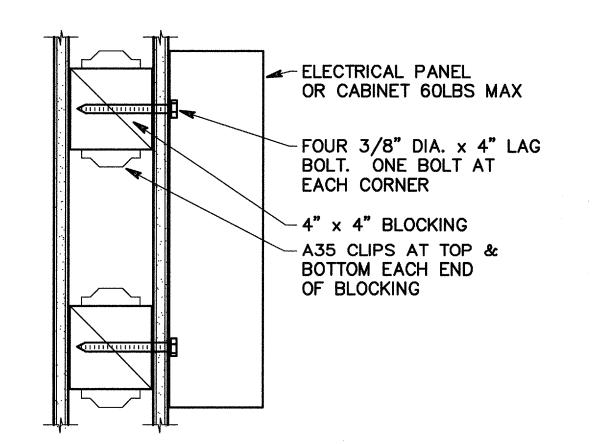


POWER AND SIGNAL PLAN

4 RELOCATABLE CLASSROOMS 1 TOILET BLDG

PANEL A							120/	24	0V	1ø 3W	/		R	EΑ	R	FLUSH	
						10	O AMP	, M	AIN	BREA	KER	$\neg \top$	10	0,0	00 AIC	NEMA 1	
5	SERVING		2	AVG	AMP	POLE	тот ØА	AL L		KVA	AMP	AVG	GND	MOTE	SEF	RVING	5
	RECEPTACLE RECEPTACLE	ļ		-	20	•	0.7 7.1	0.7	7.1		60/2	8	10		HVAC 3.5 TON		2
5	SPACE		12	12	20						20/1				SPACE		16
<u>'</u>	SPACE		-	<u> </u>	20	£					20/1				SPACE		8
	INT/EXT LIGHTS					<u> </u>	0.9				20/1				SPACE		1
1	INT LIGHTS	l	12	12	20	<u>/1</u>		0.8			20/1	12	12	2	FIRE ALARM N	AC PANEL	1.
							B.7KVA		KVA	ļ							
7 7	ES:						72A	/	<u> 2A</u>	<u> </u>							
•	PROVIDE CIRCUIT DIRECTORY INS PROVIDE NEW MATCHING BREAKE DEDICATED CIRCUIT, MECHANICAL AUTHORIZED PERSONNEL, ID'D A ALARM/ECS. LOCATION OF CIRC ALARM CONTROL UNIT.	IR / LLY AS	AND PR FIRE	ME OTE	ECH CTE LAR	ED RM,	(LOCKOL EMERGE	Л), NCY	RED CO	MARKI MMUNIC	NG, AC	CCE	SSI R F	BLE	ONLY TO		



SURFACE MOUNTED IDF DETAIL N.T.S

FIRE ALARM SE	QI	J	E	1	10		Ε	() 	_	C)F) 		R	F	\7		C	1(1	S	
	ACTIVATE ALARM FACP	ACTIVATE ALARM AT REMOTE ANNUNCIATOR	ł	TROUBLE SIGNAL AT	ACTIVATE SUPERMSORY SIGNAL AT FACP	ACTIVATE SUPERMISORY SIGNAL AT REMOTE ANNUNCIATOR	SEND ALARM OFF-SITE WA COMMUNICATOR	SEND SUPERSORY SIGNAL OFF-SITE MA COMMUNICATOR	SEND SUPERISORY SIGNAL OFF-SITE MA COMMUNICATOR	ACTIVATE AUDIBLE/MSIBLE SIGNALS	ACTIVATE WATER FLOW BELL	PRIMARY FLOOR RECALL	SECONDARY FLOOR RECALL	ELECATOR SHUNT TRAP	SHUTODIN HVAC UNITS	SHUT FRE/SHOKE DAMPERS	CLOSE FIRE DOORS	RESET 120VAC INTIATING DEVICES	ACTIVATE BATTER BACK-UP	DEACTIVATE AUDIBLE SIGNALS	DEACTIVATE VISIBLE SIGNALS	RESET 24V 4-MINE DEVICES	SYSTEM NORMAL
MANUAL PULL STATION	X	X					X			X							X						
SMOKE DETECTORS:	 	T	Γ	Ι	ı					1	1		т	1			,,1				Γ	T	
ALL (EXCEPT LISTED BELOW)	X	X	 	-	-	<u> </u>	X	Н		X	$\vdash \vdash$	_	\dashv	\dashv		_	X	$\vdash \vdash$	_		-	_	
PRIMARY FLOOR LOBBY	X	X	-	-	-	_	X	Ш	_	X	$\vdash \dashv$		X	_	-		X	\vdash			<u> </u>	-	
ALL OTHER LOBBIES	X	X	_	_	_	-	X	H		X	\vdash	X	ᅴ	_		_	X				<u> </u>	_	
ELEVATOR MACHINE ROOM	X	X	-	_	_	-	X	Н		X	-	-	X	\dashv			X						
ELEVATOR SHAFT	 ^					<u> </u>	X	Ш		X		X	1				X			L	L	<u> </u>	
HEAT DETECTORS:	+	v	Ι		Γ	Γ	X	П		X	П	Ţ	7	_	\neg	_	X						
ALL (EXCEPT LISTED BELOW)	X	X	\vdash	\vdash	 -	-	X	H	-	x	\vdash	-	\dashv	X	\dashv	-	X						
ELEVATOR MACHINE ROOM	 x	X	 	\vdash	-	 	X	Н		X	\vdash	-	\dashv	x	\dashv	-	X	\vdash	H			\vdash	
ELEVATOR SHAFT DUCT DETECTOR	+^	 ^	\vdash	\vdash	X	X		\vdash	X	-	\vdash		\dashv		X	x		Н	H			Н	
	×	x	\vdash		Ĥ	H	X	Н	_	x	X	\dashv	\dashv	\dashv	<u> </u>	_	¥	\dashv			\vdash	\vdash	
FIRE SPRINKLER WATERFLOW SWITCH	+~	Ĥ	\vdash	\vdash	Y	X	\vdash	Н	x			\dashv	-	_	\dashv	\dashv					\vdash	-	
FIRE SPRINKLER TAMPER SWITCH	+	 	 	-	X			\vdash	$\hat{\mathbf{x}}$	\dashv	\vdash	-	\dashv	\dashv	\dashv	\dashv	\dashv	\dashv		-	Н		
POST INDICATOR VALVE WIRING CONDITIONS:	+	Щ	L	<u> </u>				لــــا			Ш						i	I	Lİ	L	L	1	
SIGNALING LINE CIRCUIT (SLC)-	+	Γ	Γ	Γ						П	П	T	Т	1			\neg						
WRE-TO-WRE SHORT	+		x	X		H	H	x		\vdash	\dashv	1	\dashv	\dashv	_		\dashv						
SINGLE OPEN	+	_	1	X				X		\dashv		\dashv	7	1	-	\dashv	\dashv	\neg			Н	Н	
SINGLE GROUND		-	-	X			Н	X					1		\neg	\dashv	\dashv				\vdash	Н	
INITIATING DEVICE CIRCUIT (IDC)—	+		L	·		ئــــا		لثنا			·L		L		1			1					
WIRE-TO-WIRE SHORT	X	X		Γ			X			X		٦	П	\neg	7		X						
SINGLE OPEN	\top			X		М		X				1	7	\neg	7	7	\neg	\sqcap				П	
SINGLE GROUND	\top		X					X				一	\dashv		7	\dashv	\dashv	\dashv				П	
NOTIFICATION APPLIANCE CIRCUIT (NAC)-	.	L		·	L			1			1	1						1	لـــــا			لــــا	
WIRE-TO-WIRE SHORT	\top		X	X								П	П	٦	\neg		- 1						
SINGLE OPEN	\top	_		X			\vdash	\Box		\dashv		\dashv	\dashv	7	\neg	\dashv	\dashv	\dashv				П	
SINGLE GROUND	\top			X		H	\vdash			\neg		1	\dashv	\neg	\neg	\dashv	\dashv	\neg				П	
LOSS OF 120VAC POWER	+	\vdash	X	-		Н		X		\dashv		1	+	\dashv	7	\dashv	\dashv	\dashv	X	-	\vdash	H	
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RESET FACP	\top					H	Н	H	\dashv			1	1	7	寸	\dashv	\dashv	x			X		X

NOTES SHEET APPROXIMATE LOCATION FOR NEW FIRE ALARM SIGNAL AND AUDIO BOOSTER PANEL, PROVIDE 110V POWER CONNECTION AND DEDICATED CIRCUIT FROM PANEL A-12. SEE DRAWING E-3 FOR MORE INFORMATION. PROVIDE POWER CONNECTION FOR RELOCATABLE BUILDING PRE-WIRED PANEL. SEE SINGLE LINE DIAGRAM ON DRAWING E-4. PROVIDE 2°C ENT BETWEEN BUILDINGS AND STUB INTO BUILDING CEILING CAVITY FOR SIGNAL WIRING RACEWAY. CORE DRILL AND SEAL EXTERIOR WALL AS REQUIRED. PULL BACK PA/IC/TELE CABLE TO ADMIN OFFICE MASTER EQUIPMENT FOR NEW DEVICES CONNECTION. SEE RISER PROVIDE #6 COPPER GROUNDING CONDUCTOR AND BOND TO EACH SECTION STRUCTURAL STEEL BEAM, FIELD VERIFY EXACT LOCATION WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION. NEW SECURITY ALARM PANEL AND SYSTEM, PROVIDE 110V POWER CONNECTION AND INTERCONNECTION TO (E) MASTER EQUIPMENT IN ADMIN OFFICE. FIELD VERIFY EXACT LOCATION AND REQUIREMENT WITH OWNER PRIOR TO INSTALLATION. SEE RISER DIAGRAM. POWER CONNECTION, DATA SWITCH, FO CABLE AND DATA CABLE PATCH PANEL FOR NEW DATA OUTLET CONNECTION. PROVIDE FO CABLE TO (E) MDF IN ADMIN OFFICE FOR INTERCONNECTION. FIELD VERIFY EXACT LOCATION AND REQUIREMENT WITH OWNER PRIOR TO INSTALLATION. SEE DATA AND POWER OUTLET AT CEILING FOR SMART BOARD. FIELD VERIFY EXACT LOCATION AND REQUIREMENT WITH OWNER PRIOR TO INSTALLATION. CEILING FOR INTERCOM / TELEPHONE WIRING TERMINATION. NEW 24"x24"x4" NEMA3R SIGNAL TO SURFACE MOUNTED ON EXTERIOR WALL PROVIDE (2) 2°C STUB INTO BUILDING ATTIC CAVITY. SEE SIGNAL RISER DIAGRAM. NEW PAD MOUNTED STEP DOWN TRANSFORMER, PROVIDE CONCRETE PAD AND DISCONNECT SWITCH. SEE SINGLE LINE DIAGRAM. PROVIDE NEW PULL BOXES FOR NEW UNDERGROUND POWER AND SIGNAL CONDUITS INSTALLATION. FIELD VERIFY LOCATION. TRENCHING AND INSTALL NEW UNDERGROUND POWER AND SIGNAL CONDUITS, SAW CUT AND PATCH EXISTING GROUND AS REQUIRED. SEE SIGNAL AND COMM. LEGEND SECURITY ALARM SYSTEM DIGITAL SECURITY ALARM CONTROL PANEL. MODEL SONITROL (64ZONE). INTERFACE WITH EXISTING BUILDING MASTER SECRITY ALARM PANEL AS DSC LCD KEYPAD - MATCH EXISTING EQUIPMENT AS REQUIRED. DUAL TECHNOLOGY CEILING MOUNT DETECTOR. MATCH EXISTING EQUIPMENT AS REQUIRED. EXTERIOR BELL (SIREN) - DSC/JSD15W WITH WEATHERPROOF BACKBOX AND TAMPER SWITCH. DOOR CONTACT SWITCH. RECESS ABOVE DOOR JAMB AT OPEN — B — INDOOR SECURITY ALARM CABLE. WEST PENN #241 COMMUNICATION (TELEPHONE/INTERCOM) SYSTEM HANDSET/IP PHONE - FIELD VERIFY MODEL NO. AND MATCH EXISTING MASTER EQUIPMENT AS REQUIRED. CEILING SPEAKER — RAULAND #US0221 W/ACC1000 BAFFLE. PROVIDE BACKBOX AND CEILING SUPPORT AS REQUIRED OUTDOOR SPEAKER - ATLAS #APF15 HORN W/XFMR AND LOWELL (#CB84 FOR SURFACE, #P875X FOR RECESS) BACK BOX W/SQLK GRILL T — OUTDOOR TELE/IC CABLE. 22AWG SOILD COPPER 12 PAIR SHIELDED AND 12 PAIR UNSHIELDED CABLE. --- P1 --- OUTDOOR PA/IC CABLE - WEST PENN #AQC-369 DATA COMMUNICATION SYSTEM DATA OUTLET - LEVITON CAT 5E (DUAL RECEPTACLE RED IN COLOR FOR ADMINISTRATIVE) DATA OUTLET - LEVITON CAT 5E (DUAL RECEPTACLE BLUE IN COLOR FOR INSTRUCTIONAL) ---FO ---- FIBER OPTIC CABLE VIA INNER DUCT WITH J-HOOK IN ATTIC AND 2°C FOR OUTDOOR. SEE RISER DIAGRAM FOR MODEL NO. NOTES: I. ALL SIGNAL CONDUCTORS CANNOT SPLICE INSIDE PULL BOX. CONDUCTOR MUST BE CONTINUE RUN BETWEEN SIGNAL DEVICES BACK BOX OR ABOVE GROUND TERMINAL CABINET. JOHN CHONG ENGINEERING $\sqrt{}$ John S. Chong $^{ar{\ }}$ E 14419 2017 E DECATUR AVE, PRESNO CA 95720 (559) 925-9388 · FAX 297-9401 jcengineer@aol.com

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PROVIDE 50 PAIR PUNCH DOWN BLOCK AND SURFACE MOUNTED BELOW

SCHOOL 1 TOILET BLDG N MIDDLE (SPROMS AND CITY SCHOOL BAKFRSFIEL

WASHINGTON I RELOCATABLE CLASSR BAKERSFIELD CIT 1101 NOBLE AVE., B.

FILE #: 15-6

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