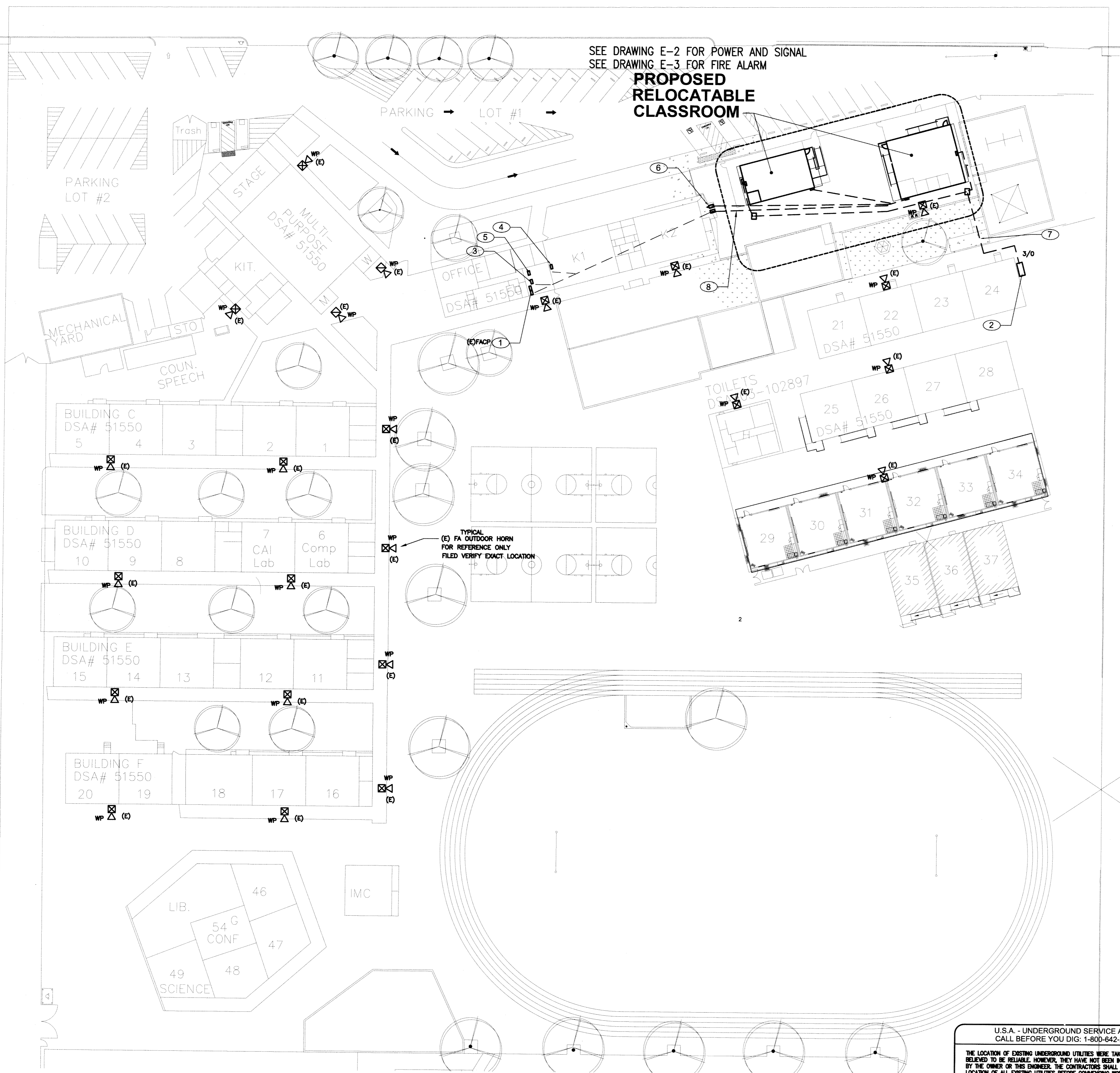


SITE PLAN - ELECTRICAL
3 RELOCATABLE CLASSROOM

SCALE : 1" = 30' - 0"

SEE DRAWING E-2 FOR POWER AND SIGNAL
 SEE DRAWING E-3 FOR FIRE ALARM

**PROPOSED
 RELOCATABLE
 CLASSROOM**



SHEET NOTES

- 1 APPROXIMATE LOCATION OF EXISTING ADDRESSABLE FIRE ALARM CONTROL PANEL & VOICE EVACUATION PANEL TO REMAIN IN SERVICE. PROVIDE CONNECTION TO NEW FIRE ALARM DEVICES PER PLANS. UPDATE NEW FIRE ZONE MAP. PROGRAM NEW DEVICES INFORMATION, MEASURE ACTUAL LOAD CURRENT AND VOLTAGE DROP FOR EACH WING SIGNAL CIRCUITS, AND FACT STANDBY CURRENT AND ALARM CURRENT. SEND THE REPORT TO OWNER AND ENGINEER FOR REVIEW, AND PLASTIC LAMINATED ONE COPY INSIDE FACP CABINET DOOR.
- 2 APPROXIMATE LOCATION OF EXISTING BODY MAIN SWITCHBOARD. PROVIDE NEW BREAKERS, FEEDERS AND POWER CONNECTION FOR NEW RELOCATABLE CLASSROOM BUILDINGS PER PLANS. SEE SINGLE LINE DIAGRAM.
- 3 APPROXIMATE LOCATION OF EXISTING PA/C/TELEPHONE EQUIPMENT IN ADMIN OFFICE. PROVIDE NEW CABLE AND CONNECTION FOR NEW SIGNAL DEVICES PER PLANS.
- 4 APPROXIMATE LOCATION OF EXISTING COMPUTER MOF SERVER EQUIPMENT IN ADMIN OFFICE. PROVIDE NEW CABLE AND CONNECTION FOR NEW SIGNAL DEVICES PER PLANS.
- 5 APPROXIMATE LOCATION OF EXISTING MASTER INTRUSION ALARM EQUIPMENT IN ADMIN OFFICE. PROVIDE NEW CABLE AND CONNECTION FOR NEW SIGNAL DEVICES PER PLANS.
- 6 (E) SIGNAL AND FA PULL BOXES. EXTEND NEW U/S CONDUITS AND WIRING TO NEW BUILDINGS PER PLANS. SEE RISER DIAGRAMS.
- 7 FURNISH AND INSTALL NEW UNDERGROUND POWER CONDUITS AND FEEDERS PER PLANS. SEE SINGLE LINE DIAGRAM.
- 8 FURNISH AND INSTALL NEW UNDERGROUND FA AND SIGNAL CONDUITS PER PLANS. SEE RISER DIAGRAMS.

LEGEND

- DISTRIBUTION PANEL
- ⊠ TERMINAL CABINET
- ⊕ JUNCTION BOX
- ⊕³ DUPLEX OUTLET ON CIRCUIT NO. 3
- GFI GROUND FAULT INTERRUPTER
- WP WEATHERPROOF
- ⊕ WALL SWITCH +48" AFF
- CONDUIT RUN UNDER GROUND
- CONDUIT RUN IN CEILING AND IN WALL
- ⊕ MOTOR DISCONNECT FUSED SWITCH
- C CONDUIT RACEWAY
- (E) EXISTING TO REMAIN
- (R) REMOVE (E) ELECTRICAL DEVICE AND ASSOCIATE WIRING
- ⊠ (E) INDICATE EXISTING FIRE ALARM OUTDOOR HORN. FOR REFERENCE ONLY, FIELD VERIFY AS REQUIRED.

CODE RULES AND REGULATIONS

ALL WORK AND MATERIAL SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE FIRE MARSHAL, THE CALIFORNIA ELECTRICAL CODE, THE SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY AND OTHER APPLICABLE STATE LAWS OR REGULATIONS. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

DIVISION OF THE STATE ARCHITECT APPLICABLE CODES AND STANDARDS:
 2013 CALIFORNIA ELECTRIC CODE (CEC).
 2013 CALIFORNIA FIRE CODE (CFC).
 2013 TITLE 19 (CCR), PUBLIC SAFETY, STATE FIRE MARSHAL
 2013 NFPA 72 (CALIFORNIA AMENDED)-NATIONAL FIRE ALARM CODES POLICY #05-03, FIRE AND LIFE SAFETY, DIVISION OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES.

MEP COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE ISA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAILS IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DEFLECTION REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1910A.1.10 THROUGH 1910A.1.28 AND ASCE 7-10 CHAPTER 13, 28 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HANG WIRES) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS SECURED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE FOREVER ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL, THIS DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 50 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HANG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE ISA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS REFERRED IN ASCE 7-10 SECTION 12.6A, 13.6A.6 AND 2013 CBC, SECTION 1910A.1.23, 1910A.1.24, 1910A.1.25 AND 1910A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE COMPO PRE-APPROVALS (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF WIRING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE AGENCY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

U.S.A. - UNDERGROUND SERVICE ALERT
 CALL BEFORE YOU DIG: 1-800-642-2444

THE LOCATION OF EXISTING UNDERGROUND UTILITIES WERE TAKEN FROM SOURCES BELIEVED TO BE RELIABLE. HOWEVER, THEY HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THIS ENGINEER. THE CONTRACTORS SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTIFY OWNER 72 HOURS PRIOR TO ANY EXCAVATION

Ownership of Documents
 This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM, Inc. and is not to be used, in whole or in part for any other project without written authorization.
 © COPYRIGHT 2013

integrated designs by SOMAM, Inc.
 ARCHITECTURE - ENGINEERING - INTERIOR DESIGN - CONSTRUCTION MANAGEMENT
 6011 N. Fresno, Suite 130 - Fresno, California 93710
 Phone (559) 438-0881 Fax (559) 438-0887 E-Mail: design@somam.com
 www.integrateddesigns.com

Rev. No.	Rev. Date	Rev. Description

Sheet Title: **SITE PLAN - ELECTRICAL**

Project Name & Address: **FREMONT ELEMENTARY SCHOOL
 2 RELOCATABLE CLASSROOMS
 BAKERSFIELD CITY SCHOOL DISTRICT
 607 TEXAS STREET, BAKERSFIELD, CA**

Issue Date: 00/00/14	Date: 05/28/14	Designer: J. CHONG	DR: J. CHONG	PC: C.M.
----------------------	----------------	--------------------	--------------	----------

Agency Approval Stamp:

Stamp(s):

IDENTIFICATION STAMP
 (BY) OF THE STATE ARCHITECT
 APP03 116973
 AC: FLS
 DATE: APR 18 2014

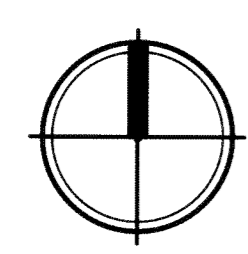
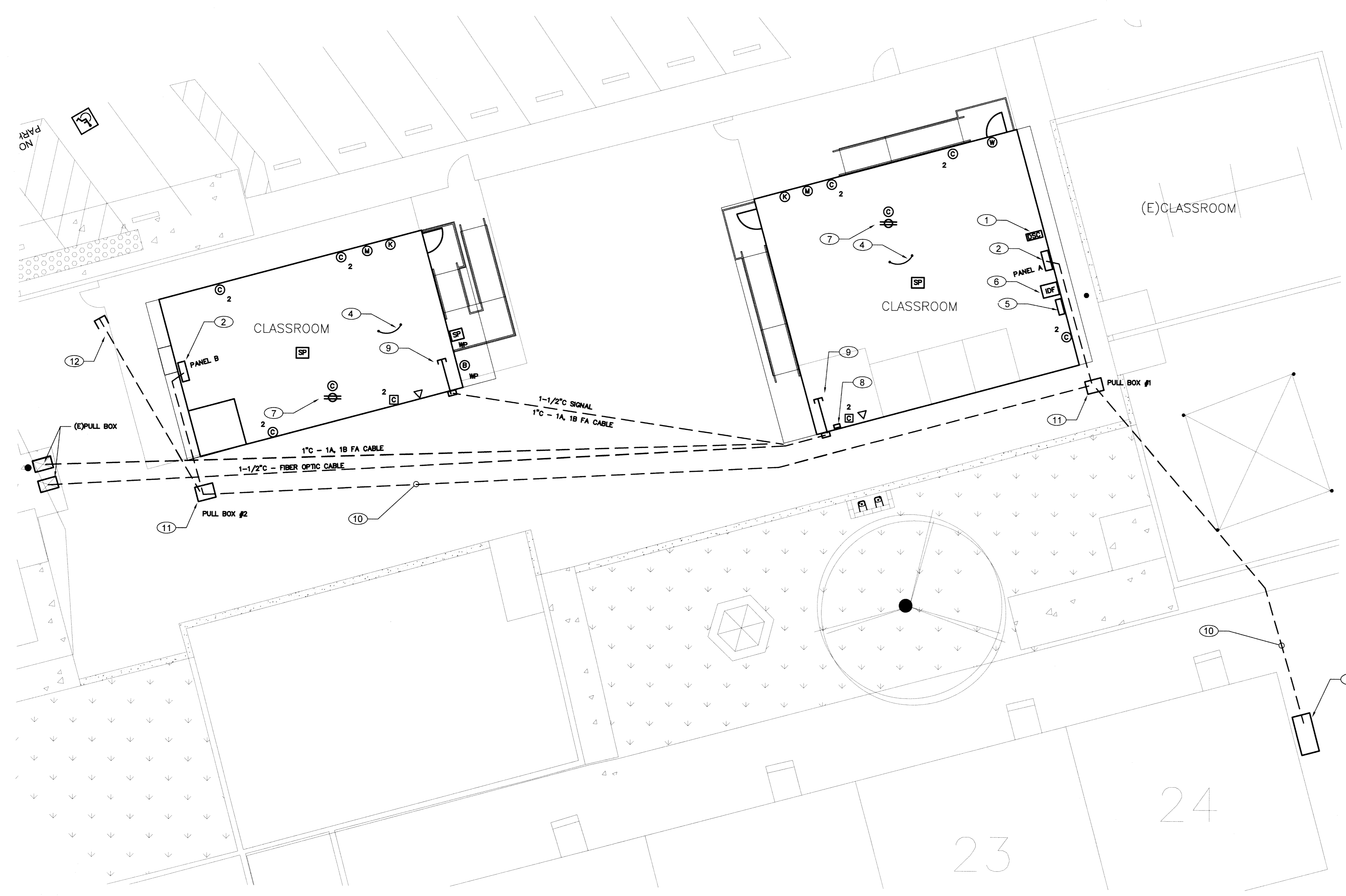
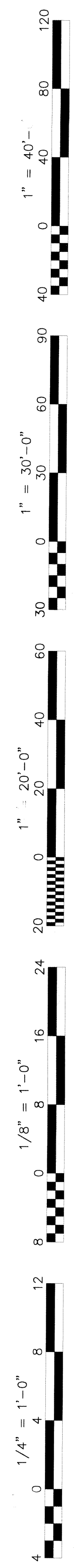
Job No.: **5176**

Sheet No.: **E-1**

Release:

CONSULTING ENGINEERS
JOHN CHONG ENGINEERING
 JOHN S. CHONG
 E 14419
 Exp. 8/30/2016
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA

207 E. DECATUR AVE, FRESNO CA 93720
 (559) 215-9286 • FAX 207-9461
 jchong1@earthlink.net



POWER AND SIGNAL PLAN

3 RELOCATABLE CLASSROOMS

SCALE : 1/8" = 1' - 0"

SERVING		120/240V 1Ø 3W		REAR		FLUSH	
		100 AMP MAIN BREAKER		10,000 AIC		NEMA 1	
LT	NOTE	QTY	AVG	QTY	AVG	QTY	AVG
1	RECEPTACLE	12/12	20/1	0.7/7.1	80/2	8	10
3	RECEPTACLE	12/12	20/1	0.7/7.1			
5	SPACE	12/12	20/1		20/1	12/12	SPACE
7	SPACE	12/12	20/1		20/1	12/12	SPACE
9	INT/EXT LIGHTS	12/12	20/1	0.9	20/1	12/12	SPACE
11	INT LIGHTS	12/12	20/1	0.8/0.1	20/1	12/12	2
		8.7KVA		8.7KVA			
		72A		72A			

NOTES:
 1. PROVIDE CIRCUIT DIRECTORY INSIDE PANEL.
 2. PROVIDE NEW MATCHING BREAKER AND MECHANICAL LOCK ON BREAKER PER NFPA 72, 10.6.5.2. DEDICATED CIRCUIT, MECHANICALLY PROTECTED (LOCKOUT), RED MARKING, ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL. I/D AS FIRE ALARM, EMERGENCY COMMUNICATIONS OR FIRE ALARM/ECS. LOCATION OF CIRCUIT DISCONNECT (BREAKER) PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.

SHEET NOTES

- FURNISH AND INSTALL NEW FIRE ALARM SIGNAL AND VOICE VAC BOOSTER PANEL. PROVIDE 110V POWER CONNECTION FROM PANEL. A CIRCUIT #A-12. FIELD VERIFY EXACT LOCATION. SEE FA DRAWING E-3 RISER DIAGRAM.
- PROVIDE POWER CONNECTION FOR RELOCATABLE BUILDING PRE-WIRED PANEL. SEE SINGLE LINE DIAGRAM ON DRAWING E-4.
- EXISTING 800A MAIN SWITCHBOARD, PROVIDE NEW MATCHING BREAKERS AND FEEDER FOR NEW PRE-WIRED PANEL. POWER CONNECTION. SEE SINGLE LINE DIAGRAM.
- 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.
- NEW IDF AND CABINET SURFACE MOUNTED BELOW CEILING. PROVIDE 110V POWER CONNECTION, DATA SWITCH, PD CABLE AND DATA CABLE PATCH PANEL FOR NEW DATA OUTLET CONNECTION. PROVIDE PD CABLE TO (C) IDF IN ADMIN OFFICE FOR INTERCONNECTION. FIELD VERIFY EXACT LOCATION AND REQUIREMENT WITH OWNER PRIOR TO INSTALLATION. SEE RISER DIAGRAM.
- DATA AND POWER OUTLET AT CEILING FOR SMART BOARD. FIELD VERIFY EXACT LOCATION AND REQUIREMENT WITH OWNER PRIOR TO INSTALLATION. SEE RISER DIAGRAM.
- PROVIDE 50 PAIR PUNCH DOWN BLOCK AND SURFACE MOUNTED BELOW CEILING FOR INTERCOM / TELEPHONE WIRING TERMINATION.
- NEW 24"X24"X4" MEMOR SIGNAL, TC SURFACE MOUNTED ON EXTERIOR WALL. PROVIDE (2) 2" STUB INTO BUILDING ATTIC CAVITY. SEE SIGNAL RISER DIAGRAM.
- SAW CUT AND PATCH EXISTING CONCRETE FLOOR TO INSTALL NEW POWER UNDERGROUND AND FEEDER PER PLANS. SEE SINGLE LINE DIAGRAM.
- NEW 12"X24" PULL BOX WITH EXTENSION. FIELD VERIFY LOCATION. SEE RISER DIAGRAMS.
- 1" STUB OUT FOR FUTURE SIGNAL. FIELD VERIFY LOCATION WITH OWNER AND GENERAL CONTRACTOR PRIOR TO INSTALLATION.

SIGNAL AND COMM. LEGEND

- SECURITY ALARM SYSTEM**
- DSU: DIGITAL SECURITY ALARM CONTROL PANEL, MODEL CONTROL (4ZONE). INTERFACE WITH EXISTING BUILDING MASTER SECURITY ALARM PANEL AS REQUIRED.
 - K: LEO KEYPAD - MATCH EXISTING EQUIPMENT AS REQUIRED.
 - M: DUAL TECHNOLOGY CEILING MOUNT DETECTOR. MATCH EXISTING EQUIPMENT AS REQUIRED.
 - B: EXTERIOR BELL (SIREN) - DISCARD/SWITCH WITH WEATHERPROOF BACKBOX AND TAMPER SWITCH.
 - W: DOOR CONTACT SWITCH. RECESS ABOVE DOOR JAMB AT OPEN SIDE.
 - B: INDOOR SECURITY ALARM CABLE. WEST PENN #241
 - B1: OUTDOOR SECURITY ALARM CABLE. WEST PENN #A00224
- COMMUNICATION (TELEPHONE/INTERCOM) SYSTEM**
- HP: HANDSET/P PHONE - FIELD VERIFY MODEL NO. AND MATCH EXISTING MASTER EQUIPMENT AS REQUIRED.
 - SP: CEILING SPEAKER - RAILAND #JUS221 W/ACC1000 Baffle. PROVIDE BACKBOX AND CEILING SUPPORT AS REQUIRED.
 - MP: OUTDOOR SPEAKER - ATLAS #PFF15 HORN W/FWAR AND LOWELL (#R304 FOR SURFACE, #P70X FOR RECESS) BACK BOX W/SILK GRILL.
 - T: OUTDOOR TELEPHONE CABLE. 22AWG SOLID COPPER 12 PAIR SHIELDED AND 12 PAIR UNSHIELDED CABLE.
 - T1: INDOOR TELEPHONE CABLE. CAT.3 22AWG SOLID COPPER 4UTP SHIELDED CABLE.
 - P1: OUTDOOR PA/C CABLE - WEST PENN #A00-389
- DATA COMMUNICATION SYSTEM**
- C2: DATA OUTLET - LEVITON CAT 5E (DUAL RECEPTACLE RED IN COLOR FOR ADMINISTRATIVE)
 - C: 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" FOR OUTDOOR. SEE RISER DIAGRAM FOR MODEL NO.
 - C1: (ONE) CAT 5E 22AWG 4UTP. SEE RISER DIAGRAM FOR MODEL NO.
 - C2: (TWO) CAT 5E 22AWG 4UTP. SEE RISER DIAGRAM FOR MODEL NO.

NOTES:

- ALL SIGNAL CONDUCTORS CANNOT SPLICE INSIDE PULL BOX. CONDUCTOR MUST BE CONTINUOUS RUN BETWEEN SIGNAL DEVICES BACK BOX OR ABOVE GROUND TERMINAL CABINET.

Ownership of Documents
 This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.
 © COPYRIGHT 2013

integrated designs by SOMAM, Inc.
 ARCHITECTURE - ENGINEERING - INTERIOR DESIGN - CONSTRUCTION MANAGEMENT
 6011 N. Fresno, Suite 130 - Fresno, California 93710
 Phone: (569) 439-0887 Fax: (569) 439-0887 E-Mail: design@somam.com
 www.integrateddesigns.com

Rev. Date: _____
 Revision Description: _____

POWER AND SIGNAL PLAN

FREMONT ELEMENTARY SCHOOL
2 RELOCATABLE CLASSROOMS
 BAKERSFIELD CITY SCHOOL DISTRICT
 607 TEXAS STREET, BAKERSFIELD, CA

Project Name & Address: _____
 Designer: J. CHONG
 DR: J. CHONG
 PC: C.M.

Issue Date: 00/00/14
 Date: 05/28/14
 Agency Approval Stamp: _____

Stamp(s): _____

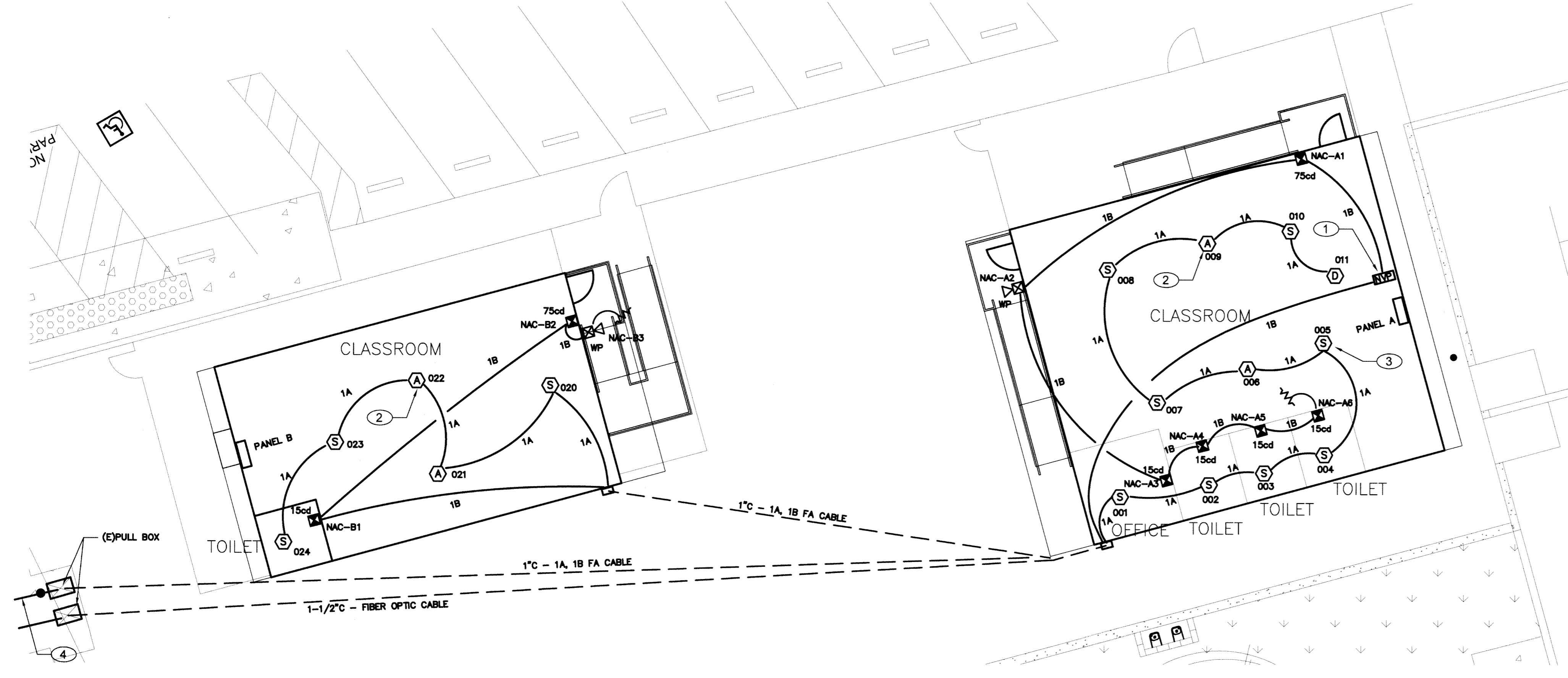
IDENTIFICATION STAMP:
 DIV. OF THE STATE ARCHITECT
 APP03 116973
 AC: FLS, ST, SS, ET
 DATE: APR 18 2016

CONSULTING ENGINEERS
JOHN CHONG ENGINEERING
 JOHN S. CHONG
 E 14419
 Exp. 6/30/2018
 ELECTRICAL
 STATE OF CALIFORNIA

1071 E. DEGATUR AVE, FRESNO CA 93710
 (569) 315-2200 • FAX 257-2461
 jchenginer@aol.com

Job No.: **5176**
 Sheet No.: **E-2**
 Release: _____

1" = 40'-0"
1" = 30'-0"
1" = 20'-0"
1/8" = 1'-0"
1/4" = 1'-0"



FIRE ALARM PLAN

3 RELOCATABLE CLASSROOMS

SCALE : 1/8" = 1' - 0"

BATTERY POWER CALCULATIONS

NEW NAC SIGNAL & AUDIO BOOSTER PANEL

DEVICE	NO. OF DEVICES	CURRENT PER DEVICE STANDBY	CURRENT PER DEVICE ALARM	STANDBY CURRENT	ALARM CURRENT
UNIT	1	0.120A	9A	0.120A	9A
OUTDOOR HORN	2	---	0.050A	---	0.100A
VISUAL 15od	0	---	0.041A	---	0.000A
AUDIO/VISUAL 15od	5	---	0.093A	---	0.465A
AUDIO/VISUAL 30od	0	---	0.114A	---	0.000A
AUDIO/VISUAL 75od	2	---	0.157A	---	0.314A
SYNC MODULES	0	---	0.035A	---	0.000A
1/4 W SPEAKER	8	---	0.010A	---	0.080A
SUB-TOTAL					9.959A

24 HOUR STANDBY CURRENT: 2.880AH
15 MINUTE LED CURRENT (0.25 HR): 2.480AH
SUBTOTAL: 5.370AH

20% SAFETY FACTOR: 1.0744AH
TOTAL AMPS-HRS REQUIRED: 6.444AH
PROVIDE (2) 7AH BATTERY

DURING THE FINAL TESTING, MEASURE EXACT STANDBY AND ALARM CURRENT. VOLTAGE DROP FOR EACH SIGNAL CIRCUIT. SEND OWNER AND ENGINEER ONE COPY RECORD FOR REVIEW, AND PLASTIC LAMINATED ONE COPY INSIDE CABINET DOOR.

BATTERY POWER CALCULATIONS

EXISTING FIRE ALARM CONTROL PANEL

NEW INITIATING DEVICES SUMMARY

DEVICE	NO. OF DEVICES	CURRENT PER DEVICE STANDBY	CURRENT PER DEVICE LED	STANDBY CURRENT	LED CURRENT
NEW SMOKE DETECTOR	12	0.0003A	0.0065A	0.0036A	0.078A
NEW HEAT DETECTOR	4	0.0003A	0.0065A	0.0012A	0.028A
SUB-TOTAL					0.104A

24 HOUR STANDBY CURRENT: 0.115AH
15 MINUTE LED CURRENT (0.25 HR): 0.028AH
SUBTOTAL: 0.141AH

20% SAFETY FACTOR: 0.028AH
TOTAL NEW AMPS-HRS REQUIRED: 0.169AH
REPLACE EXISTING FACP 6AH BATTERY WITH NEW 12AH BATTERIES

VOLTAGE DROP CALCULATION

WORST CASE VOLTAGE DROP AT THE LAST DEVICE

SIGNAL	CKT NO.	AMPERES	APPROX LENGTH	RESISTIVITY DIM	WIRE AWG	AREA CM	VOLTS DROPPED	% VOLTS DROP
OKT. A	1	0.579A	200'	21.6	12	6530	0.363V	1.6%
OKT. A	1	0.300A	250'	21.6	12	6530	0.249V	1.0%

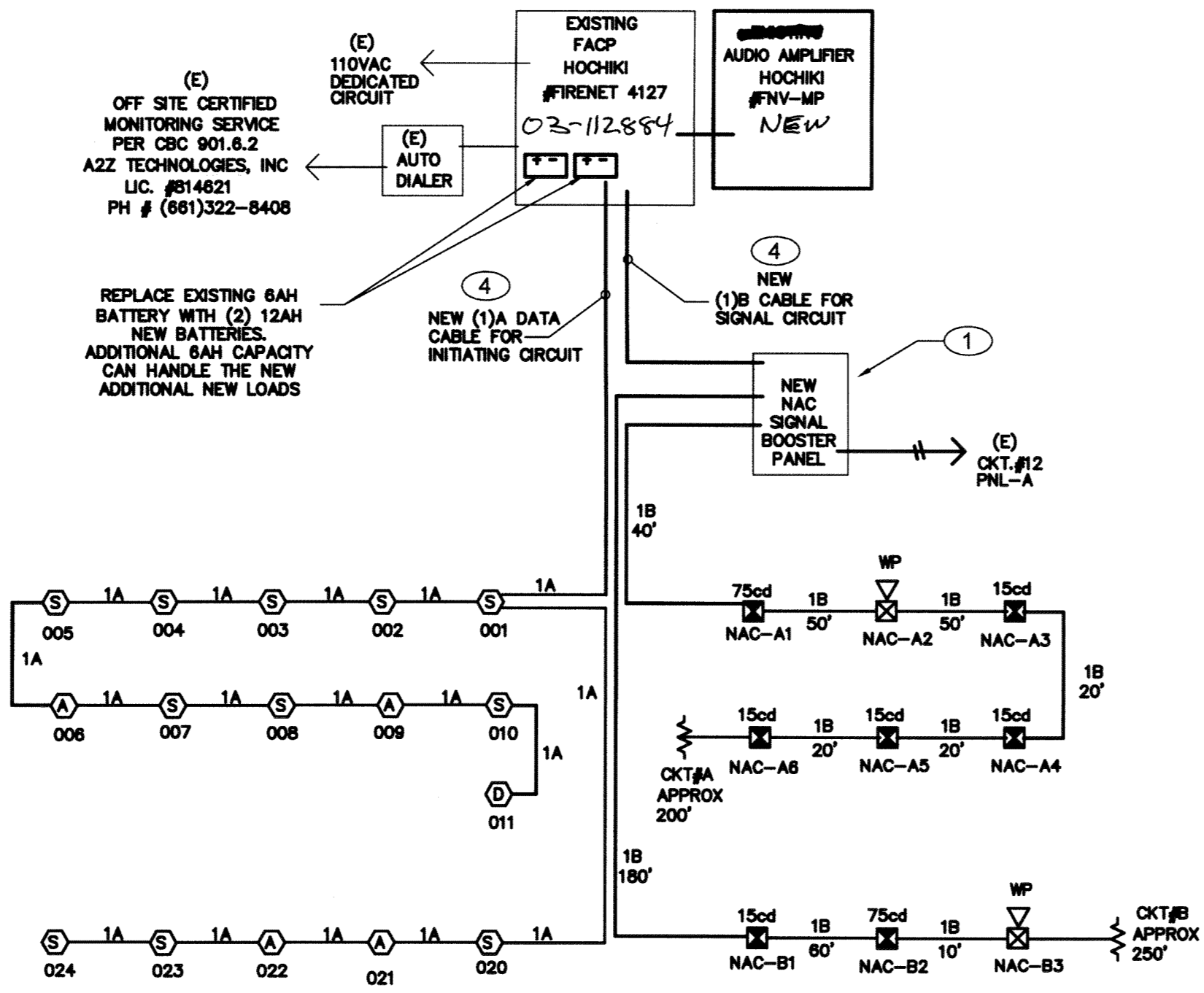
VD = VOLTAGE DROP
I = TOTAL LOAD
K = 21.8
CM = DISTANCE TO THE LOAD
C = CIRCULAR MILLS (CROSS SECTION OF 12 AWG = 6530)
V = VOLTAGE (24Vdc)
VD = K * I * L / CM

SIGNAL CIRCUIT LOAD SUMMARY

OUTDOOR HORN	VISUAL 15od	AUDIO/VISUAL 15od	AUDIO/VISUAL 30od	AUDIO/VISUAL 75od	SYNC MODULES	1/4 W SPEAKER	TOTAL
OKT. A	0	4	0	1	0	0	0.579A
OKT. B	0	1	0	1	0	0	0.300A

FIRE ALARM SYMBOLS AND SCHEDULE

ITEM	DESCRIPTION	MODEL NUMBER	CSFM NUMBER	MOUNT	BACK BOX
[FACP]	EXISTING FACP (FOR REFERENCE ONLY)	HOCHIKI #FIRENET 4127	7165-0410:0159	+80"	EQUIPMENT CABINET
[VEP]	VOICE EVACUATION PANEL	HOCHIKI #VAV 50	6911-0410:0178	+80"	EQUIPMENT CABINET
[NVP]	NAC SIGNAL & VOICE VAC BOOSTER PANEL SIGNAL EXPANDER	WHEELLOCK #SPB 80/4	6911-0785:0157	+80"	EQUIPMENT CABINET
[S]	SPEAKER STROBE 15od 30od 75od 110od TEMPORAL CODE 3	HOCHIKI #HSSPKWP	7320-0410:0195	+80"	4"SQ X 2 1/2"D
[MP]	NEW 6AH BATTERY WITH WEATHER PROOF BOX	HOCHIKI #ALK-V	7320-1053	+80"	4"SQ X 2 1/2"D
[S]	ADDRESSABLE CEILING SMOKE DETECTOR WITH BASE	HOCHIKI #NNS-NSA-4	7272-0410:0173 7300-0410:0132	CEILING	4"SQ X 2 1/2"D
[A]	ATTIC HEAT DETECTOR 190V TEMP WITH BASE AND MONITOR MODULE	HOCHIKI #HFE 190/HSC-X00L #FROME-4	7270-0410:0119 7300-0410:0150	ATTIC	4"SQ X 2 1/2"D
[D]	DUCT SMOKE DETECTOR WITH HOUSING AND MONITOR MODULE	SYSTEM SENSOR #D4120 #FROME-4	3242-1653:0207 7300-0410:0150	HVAC DUCT	4"SQ X 2 1/2"D
[R]	END OF LINE RESISTOR	N/A	N/A	LAST DEVICE	4"SQ X 2 1/2"D



- ### NOTES:
- RISER DIAGRAM IS DIAGRAMMATIC. SEE FIRE ALARM FLOOR PLAN AND FIELD VERIFY EXACT ROUTING AS REQUIRED.
 - ALL INTERIOR FIRE ALARM CONDUCTORS ARE INSTALLED IN EMT CONDUIT AND CONCEAL ABOVE CEILING OR INSIDE WALL WITH 3/4" C.
 - FIRE ALARM CONDUCTOR CANNOT SPICE INSIDE PULL BOX. CONDUCTOR MUST BE CONTINUE RUN BETWEEN FIRE ALARM DEVICES BACK BOX OR TERMINAL CABINET.

1 FIRE ALARM RISER DIAGRAM N.T.S.

2 TYPICAL FIRE ALARM DEVICES MTD DETAIL N.T.S.

FA CABLE SCHEDULE

TYPE	DESCRIPTION
A	INITIATING CIRCUIT CABLE 2#16 AWG SOLID COPPER PVC JACKET POWER LIMITED FPLR CABLE, FOR INDOOR AND OUTDOOR VIA MIN. 3/4" CONDUIT INSTALLATION. WEST PENN #D980 OR EQUAL CSFM# 7161-0859:0101
B	NAC SIGNAL CIRCUIT CABLE 2#12 AWG SOLID COPPER PVC JACKET POWER LIMITED FPLR CABLE, AND 2#22 TWIST SHIELD SPEAKER CABLE. MIN. 3/4" CONDUIT INSTALLATION. WEST PENN #AQ227 OR EQUAL CSFM# 7161-0859:0101

- ### COMPLETE AUTOMATIC FIRE ALARM PLAN SUBMITTAL
- THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.
 - THE AUTOMATIC FIRE ALARM SYSTEM SHALL COVER ALL ROOMS AND AREAS AND UPON ACTIVATION OF AN INITIATING DEVICE ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION. (EXCEPTION: SMOKE DETECTORS ARE NOT REQUIRED IN NON-ACCESSIBLE AREAS AS DEFINED IN EMERGENCY EXPRESS TERMS OF PROPOSED S.F.A.M. AMENDMENTS TO 2013 C.F.C. SECTION 210 (C.F.C. SECTIONS 1008.2.4.2.2.1.1 AND 1006.2.4.2.2.1.5)

FIRE ALARM SEQUENCE OF OPERATIONS

MANUAL PULL STATION	SMOKE DETECTORS	HEAT DETECTORS	DUCT DETECTOR	DUCKET DETECTOR	POST INDICATOR VALVE	WIRING CONDITIONS	SIGNALING LINE CIRCUIT (SLC)	NOTIFICATION APPLIANCE CIRCUIT (NAC)	LOSS OF 120VAC POWER	SIGNAL BLEND	RESET FACP
ALL (EXCEPT LISTED BELOW)	ALL (EXCEPT LISTED BELOW)	ALL (EXCEPT LISTED BELOW)	ALL (EXCEPT LISTED BELOW)	ALL (EXCEPT LISTED BELOW)	ALL (EXCEPT LISTED BELOW)	WIRE-TO-WIRE SHORT	WIRE-TO-WIRE SHORT	WIRE-TO-WIRE SHORT	WIRE-TO-WIRE SHORT	WIRE-TO-WIRE SHORT	WIRE-TO-WIRE SHORT

NOTE: SOME SEQUENCE OF OPERATIONS SHOWN MAY NOT APPLY

SHEET NOTES

- FURNISH AND INSTALL NEW FIRE ALARM NAC SIGNAL AND VOICE VAC BOOSTER PANEL. SURFACE MOUNT ON WALL. PROVIDE 110V POWER CONNECTION FROM PANEL A CIRCUIT #A-12. FIELD VERIFY EXACT LOCATION.
- LOCATE HEAT DETECTOR IN ATTIC AND SURFACE MOUNT ON THE BOTTOM OF RAFTER. DETECTOR COVERAGE WILL BE DERATED 50% ACROSS THE RAFTER. FIELD VERIFY LOCATION WITH GENERAL CONTRACTOR AND PROVIDE ATTIC HEAT DETECTOR IN EACH BAY OF STRUCTURAL.
- CEILING SMOKE DETECTOR 5 FEET FROM NEW NAC SIGNAL EXPANDER PANEL.
- PULL BACK NEW FA CABLE TO EXISTING FACP VIA EXISTING CONDUITS RECEIVING PER PLANS.

F.A SYSTEM SCOPE OF WORK

- PROVIDE AUTOMATIC FIRE ALARM SYSTEM WITH VOICE EVACUATION SPEAKERS FOR THE NEW CLASSROOM BUILDINGS PER PLANS.
- EXISTING FACP IS 24VDC ADDRESSABLE, AND CLASS B WIRING SYSTEM, AND WITH OFF SITE MONITORING SERVICE VIA AUTO DUAL LINE DIALER AND TELEPHONE LINES.
- DURING THE FINAL TESTING, MEASURE ALL FIRE ALARM CURRENTS, VOLTAGE DROP FOR EACH SIGNAL CIRCUIT. SEND OWNER AND ENGINEER ONE COPY RECORD FOR REVIEW, AND PLASTIC LAMINATED ONE COPY INSIDE FACP CABINET DOOR.
- COMPLETE FIRE ALARM DRAWING SUBMITTAL IS PROVIDED.

FIRE ALARM NOTES

- APPLICABLE STANDARD 2013 NFPA 72
- INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
- COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
- A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
- DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
- PENETRATIONS THROUGH RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, 11, OR OTHER LAB TESTING CRITERIA. APPROVED TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
- WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
- WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.
- AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (Dba) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 Dba ABOVE THE MAXIMUM SOUND LEVEL, HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPANCY SPACE WITHIN THE BUILDING.
- AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
- THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISUAL DEVICES WITHIN 5' FROM EACH OTHER SHALL BE SYNCHRONIZED.
- UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVAL FOR WET LOCATIONS.
- ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THIN OR THIN.
- PER NEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPICE THE WIRE. ALL BOXES TO BE 300% PER NEC.
- SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1" FROM FIRE SPRINKLERS OR 3" FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
- ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILING, UNDER FLOORS AND IN WALLS IN A MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
- FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
- A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE EXERCISED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
- THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 10.18.2.1.1.
- CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48"
- THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CEC.
- SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
- OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

F.A. MONITORING NOTES

- THE AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AND AMENDED EITHER UFXF OR ULUIS BY UNDERWRITERS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BY ARRANGED BY OWNER.

Ownership of Documents
This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Design by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.
© COPYRIGHT 2013

Integrated Design by SOMAM, Inc.
ARCHITECTURE - ENGINEERING - INTERIOR DESIGN - CONSTRUCTION MANAGEMENT
9011 N. Fremont, Suite 130 - Fremont, California 94710
Phone (510) 438-0881 Fax (510) 438-0887 E-Mail: design@somam.com
www.integrateddesign.com

Project Name & Address:
FREMONT ELEMENTARY SCHOOL
2 RELOCATABLE CLASSROOMS
BAKERSFIELD CITY SCHOOL DISTRICT
607 TEXAS STREET, BAKERSFIELD, CA

Sheet Title:
FIRE ALARM PLAN

Issue Date: 06/00/14
Date: 05/28/14
Designer: J CHONG
DR: J CHONG
PC: C-M

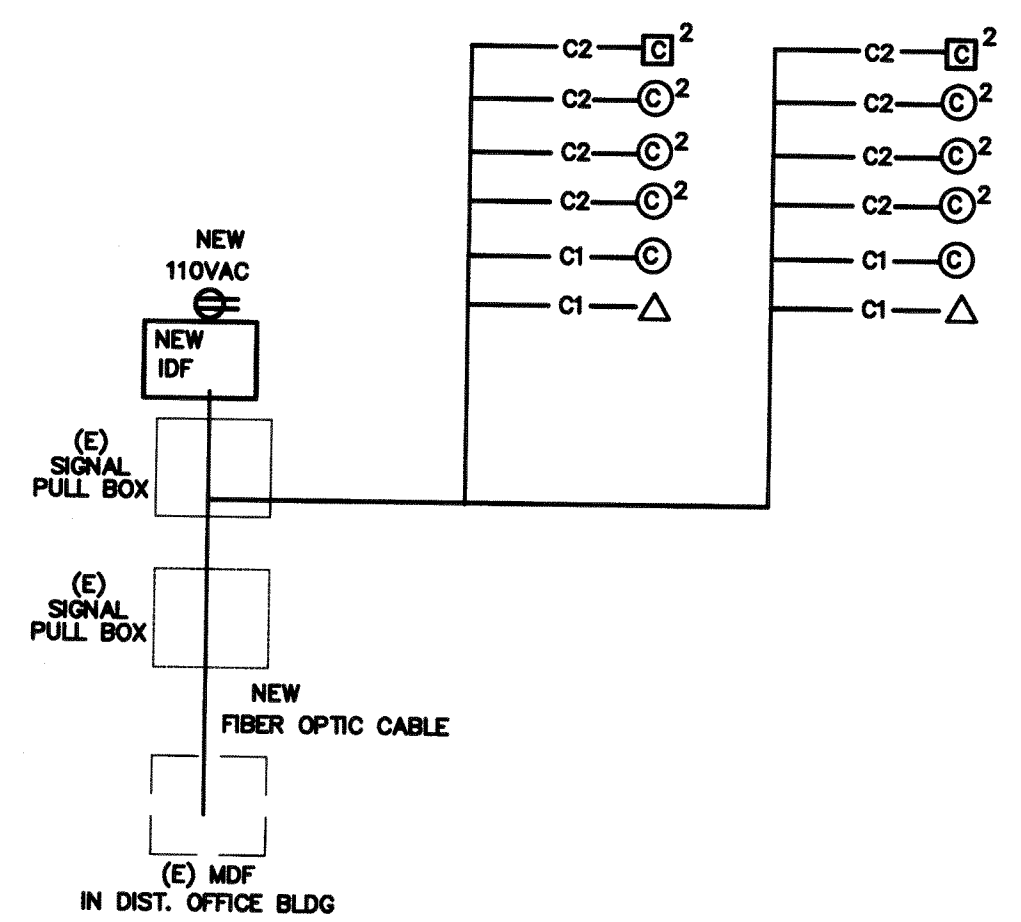
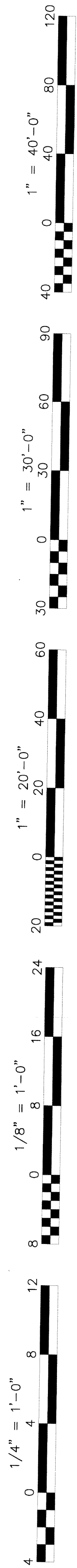
Agency Approval Stamp:
Stamps:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPD 116973
AC: FLS
DATE: APR 18 2016

Job No: **5176**
Sheet No: **E-3**

CONSULTING ENGINEERS
JOHN CHONG ENGINEERING
2071 E. DELGADO AVE, FRESNO CA 93710
(559) 315-2306 • FAX 551-3404
jchong@jce.com

REGISTERED PROFESSIONAL ENGINEER
JOHN S. CHONG
E 14419
Exp. 6/30/2016
ELECTRICAL
STATE OF CALIFORNIA



FIBER OPTIC CABLE
 THREE MULTIMODE PAIRS (SIX STRANDS) AND THREE SINGLE-MODE PAIRS (SIX STRANDS)
 OPTICAL CABLE COMPANY # DX 12/06SD--W35B/1UC--85YMC--YMD/900--OFNR OF EQUAL
CAT5E CABLE
 SENP4P24--BL--BER--PV OR EQUAL

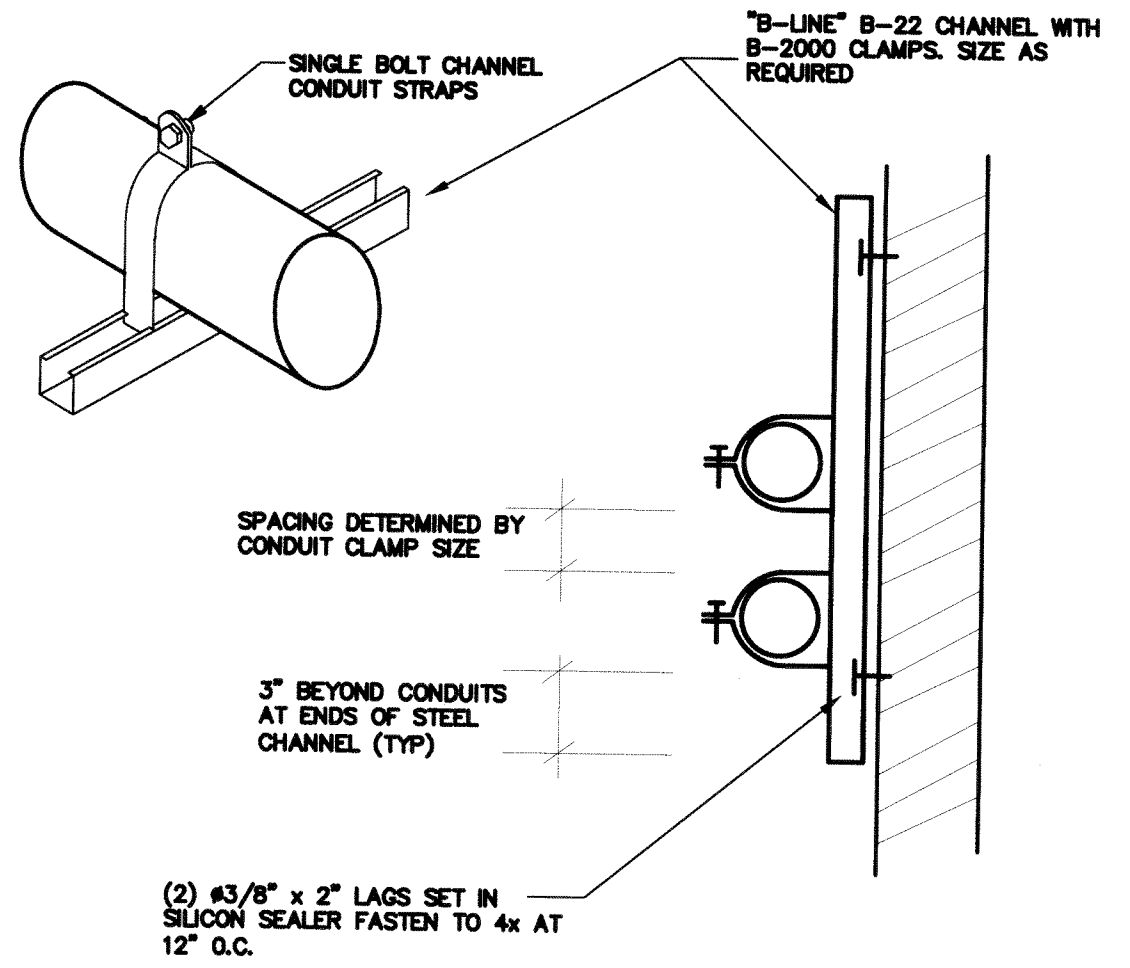
CABLE TESTING
 ALL FIBER OPTIC CABLE MUST BE TESTED TO SUPPORT 1000BASE-FX FULL DUPLEX STANDARDS,
 ALL CAT 5E CABLE MUST BE TESTED TO SUPPORT 1000BASE-TX.
 TEST RESULTS ARE TO BE PROVIDED TO SCHOOL TECHNOLOGICAL SERVICES FOR REVIEW AND APPROVAL.

IDF SWITCH EQUIPMENT
 F/O CISCO WS-C2950G-24 W/ WS-C5484 GBIC
 TP CISCO WS-C2950-24
 CABINETS SOUTH WESTERN DATA PRODUCT SNE 4000-18UBULK OR EQUAL
 JACKS ALLEN TEL AT55-16 OR EQUAL
 FACEPLATE ALLEN TEL AT30-2-09 OR EQUAL
 PATCH PANEL ALLEN TEL ATPHL-2-24 OR EQUAL

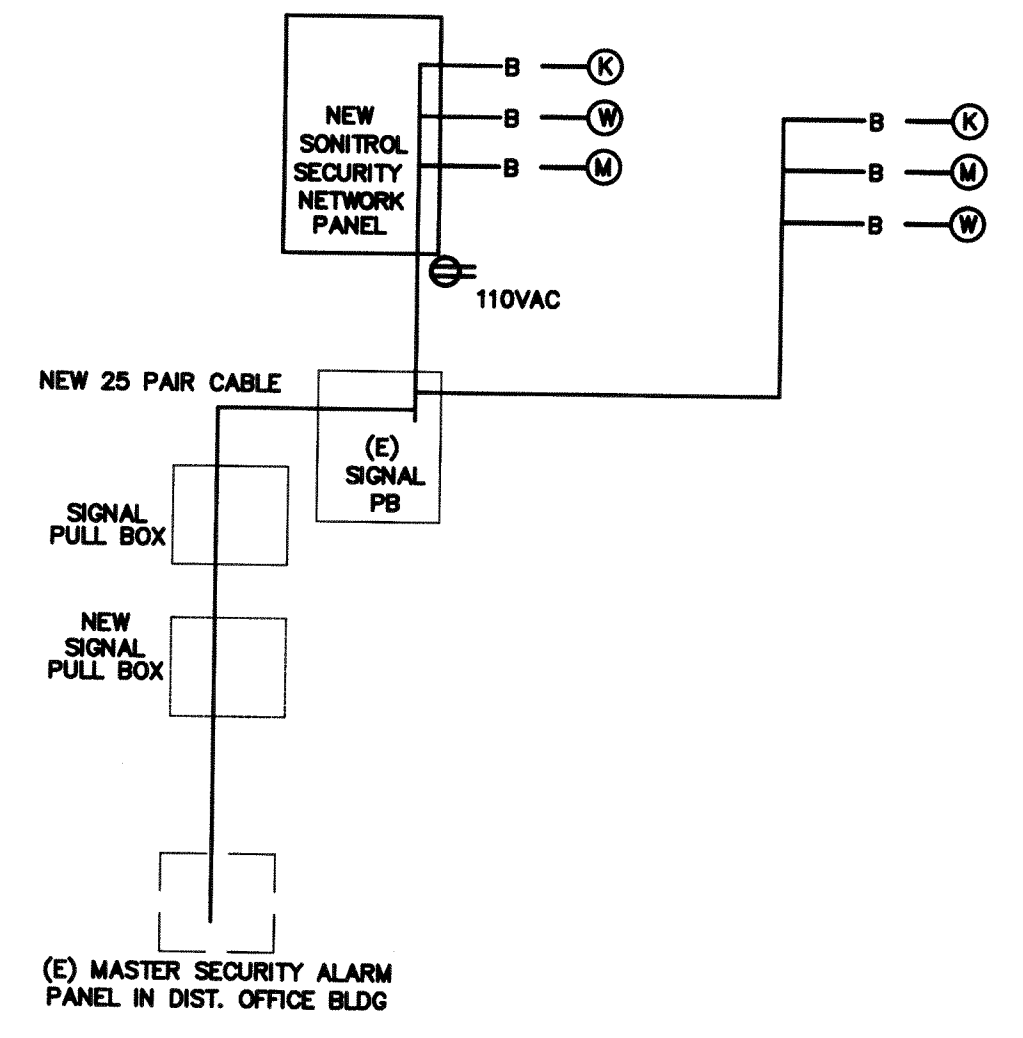
LABELING IDENTIFICATION
 ALL INSTALLED EQUIPMENT, CABLES, TERMINATIONS, ETC. WILL BE PERMANENTLY AND UNIQUELY MARKED. CABLES
 WILL BE MARKED USING A CONVENTION THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION. LAN TERMINATIONS WILL
 SIMILARLY BE MARKED TO UNIQUELY IDENTIFY THEM WHILE PROVIDING THE SOURCE AND DESTINATION OF CABLE.
 IDENTIFICATIONS MUST BE SUCH THAT THEY WILL NOT RUB OFF, FALL OFF, OR EASILY BREAK AWAY.

DATA COMMUNICATION SYSTEM NOTES
 1. CONTRACTOR TO PROVIDE ALL EQUIPMENT, PATCH CABLE AND ACCESSORY FOR A FULLY FUNCTIONAL SYSTEM.
 2. NEW DATA JACK WIRING CONFIGURATION MUST BE MATCHED EXISTING SYSTEM. FIELD VERIFY PRIOR TO
 INSTALLATION.
 3. ADMINISTRATIVE NODE TO BE RED IN COLOR WITH THE INSTRUCTIONAL NODE TO BE BLUE IN COLOR. NODE
 LOCATION MUST BE 12" WITHIN POWER RECEPTACLE AND FIELD VERIFY EXACT LOCATION WITH OWNER PROJECT
 COORDINATOR OR TECHNOLOGICAL SERVICES PERSONNEL PRIOR TO INSTALLATION.
 4. ALL EQUIPMENT DOCUMENTATION AND WARRANTY INFORMATION WILL BE PROVIDED TO OWNER TECHNOLOGICAL
 SERVICES. WARRANTY CARDS WILL BE PROVIDED TO USJD TECHNOLOGICAL SERVICES FOR FILING WITH
 MANUFACTURERS UPON COMPLETION OF INSTALLATION.

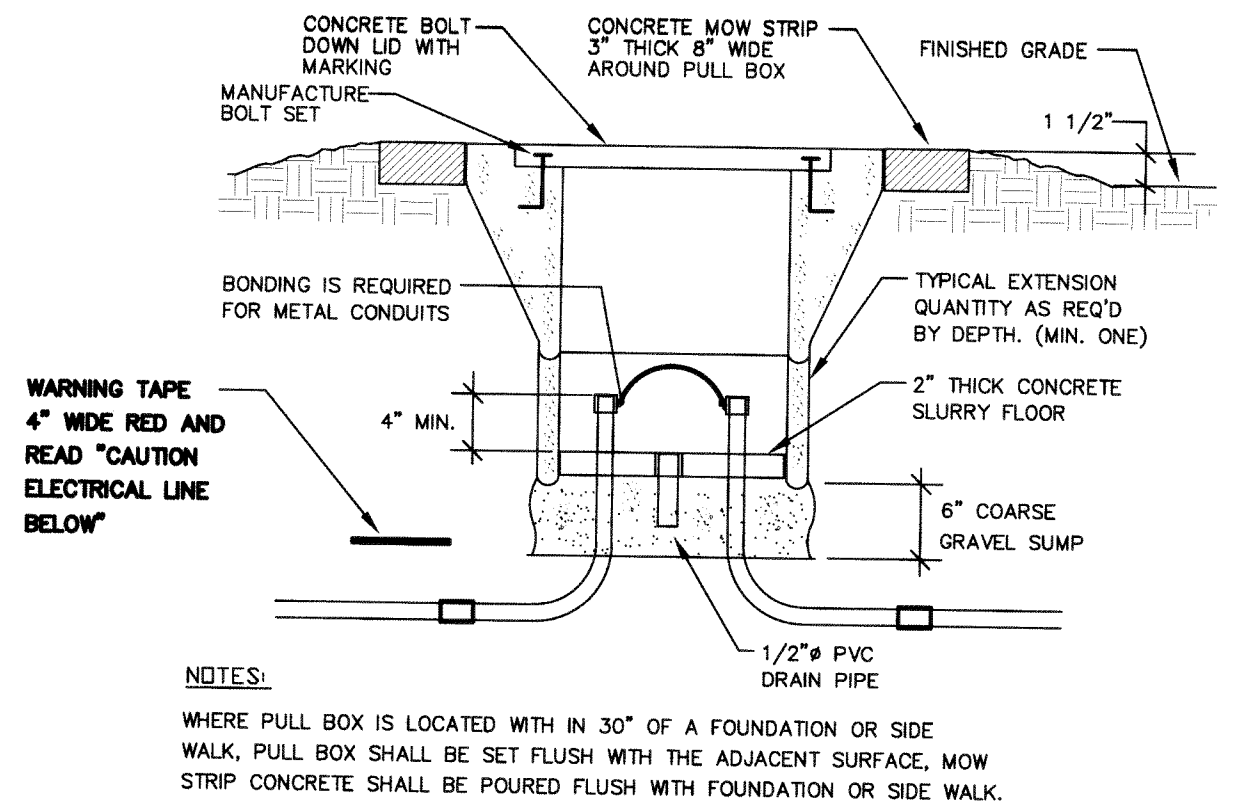
7 DATA COMMUNICATION SYSTEM RISER DIAGRAM N.T.S.



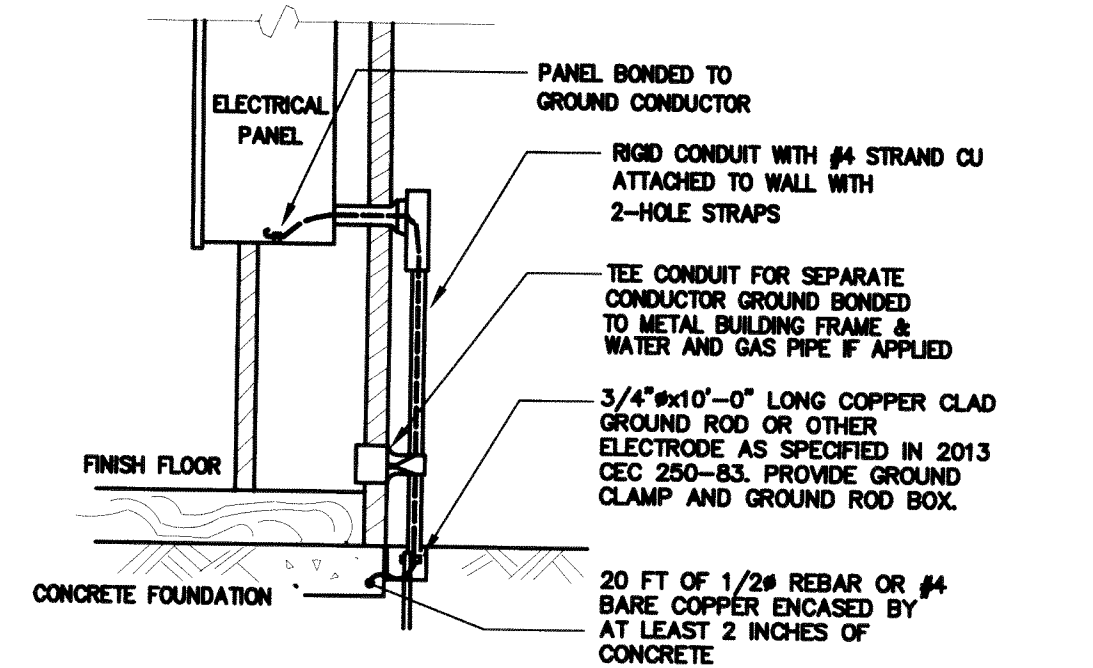
6 CONDUIT SUPPORT DETAIL N.T.S.



5 SECURITY ALARM SYSTEM RISER DIAGRAM N.T.S.

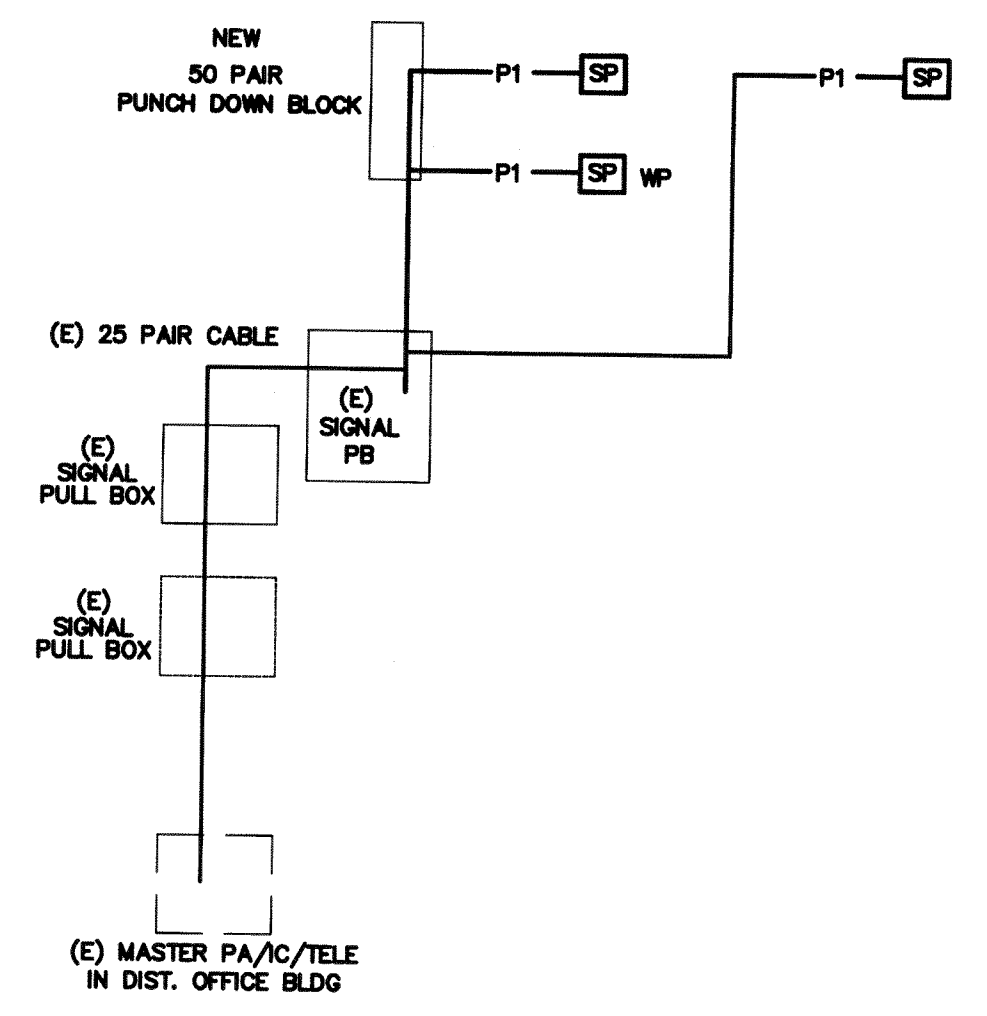


4 PULL BOX AT OPEN YARD DETAIL N.T.S.

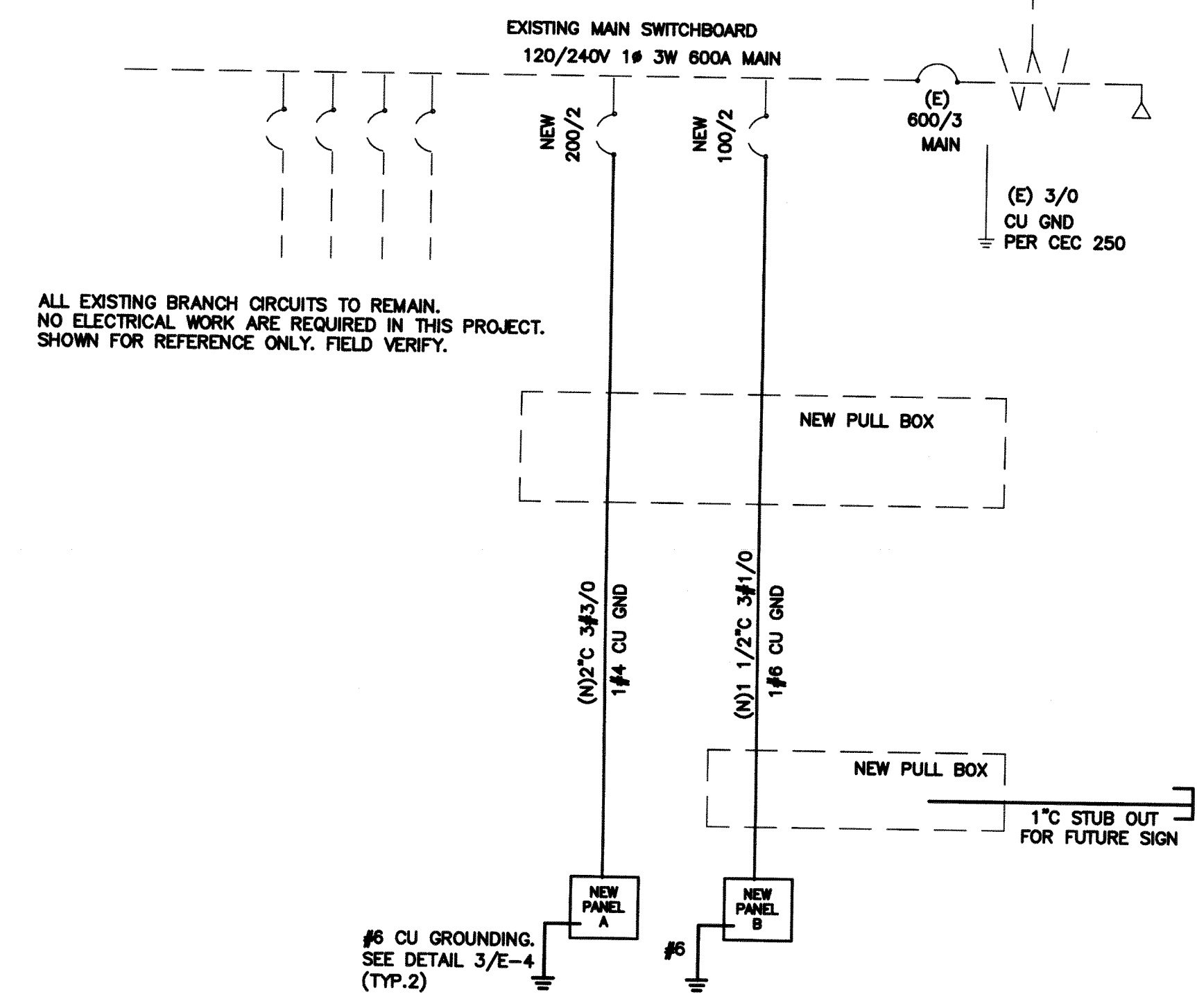


NOTES:
 1. SIZE OF CONDUCTORS SHALL COMPLY WITH 2013 CEC TABLE 250-66.
 2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME PER 2013 CEC 250-50. IN ADDITION TO THE DETAIL SHOWN ABOVE BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. IN SOIL IF AVAILABLE (CEC 250-50, 250-62).
 3. ALL MADE OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER, BOND TO HAND RAIL AND WATER PIPE IF APPLIED. (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
 4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEED 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (2013 CEC 250-84).
 5. FIELD INSPECTOR SHALL WITNESS GROUNDING TEST.

3 GROUNDING DETAIL N.T.S.



2 PA/IC/TELE SYSTEM RISER DIAGRAM N.T.S.



NOTES:
 1. PROVIDE NEW MATCHING BREAKERS, FEEDERS AND PANELS PER PLANS.
 2. ALL NEW CONDUCTOR SHALL BE 75°C THWN-2 COPPER IN CONDUIT. (AMPACITY FOR CONDUCTOR SELECTION MUST BE DETERMINED/DERATED BY THE ALLOWED TERMINATION RATINGS MARKED/APPROVED ON EACH DEVICES, MOTOR, APPLIANCE, XFMR O.C.P.C. PANEL, ETC. CONDUCTORS INSTALLED IN U.G OR WET LOCATIONS SHALL BE MARKER "W" PER 2013 CEC 110-14(C)(1)).
 3. ALL WIRING OVER 100 VOLT SHALL BE INSTALLED IN RACEWAY CONDUIT, EMT ABOVE GRADE, PVC SCH. 40 BELOW GRAD AND STEEL CONDUIT ON EXPOSE SURFACE BELOW 8' AFF. FOR PHYSICAL PROTECTION.
 4. STEEL BACK BOX SHALL BE PROVIDE FOR ALL NEW ELECTRICAL CONNECTION.
 5. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXISTING SWITCHBOARD AND PANELS ARE INSTALL PER ONE LINE DIAGRAM PRIOR TO WORKING, AND REPORT TO ENGINEERS IF ANY DISCREPANCY ARE FOUND.

1 SINGLE LINE DIAGRAM N.T.S.

CONSULTING ENGINEERS
JOHN CHONG ENGINEERING
 JOHN S. CHONG
 E 14419
 Exp. 6/30/2018
 ELECTRICAL
 2027 E. DEGATER AVE, FRESNO CA 93710
 (559) 215-2200 • FAX 257-2404
 joengineer@aol.com

Ownership of Documents
 This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Design by SOMAM, Inc. and is not to be used, in whole or in part for any other project without written authorization.
 © COPYRIGHT 2013

integrated designs by SOMAM, Inc.
 ARCHITECTURE · ENGINEERING · INTERIOR DESIGN · CONSTRUCTION MANAGEMENT
 6011 N. Fresno, Suite 130 - Fresno, California 93710
 Phone: (559) 436-0881 Fax: (559) 439-0857 E-Mail: design@somam.com
 www.integrateddesigns.com

Revision	Revision Description	Rev. Date

DETAILS AND SYSTEM DIAGRAMS
 Project Name & Address
**FREMONT ELEMENTARY SCHOOL
 2 RELOCATABLE CLASSROOMS**
 BAKERSFIELD CITY SCHOOL DISTRICT
 607 TEXAS STREET, BAKERSFIELD, CA

Issue Date: 00/00/14	Date: 05/28/14	Designer: J. CHONG	DR: J. CHONG	PC: CJM
----------------------	----------------	--------------------	--------------	---------

Agency Approval Stamp:

Stamp(s):

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APPROX 116973
 AC: FLS
 DATE: APR 18 2018

Job No.: **5176**
 Sheet No.: **E-4**
 Release: