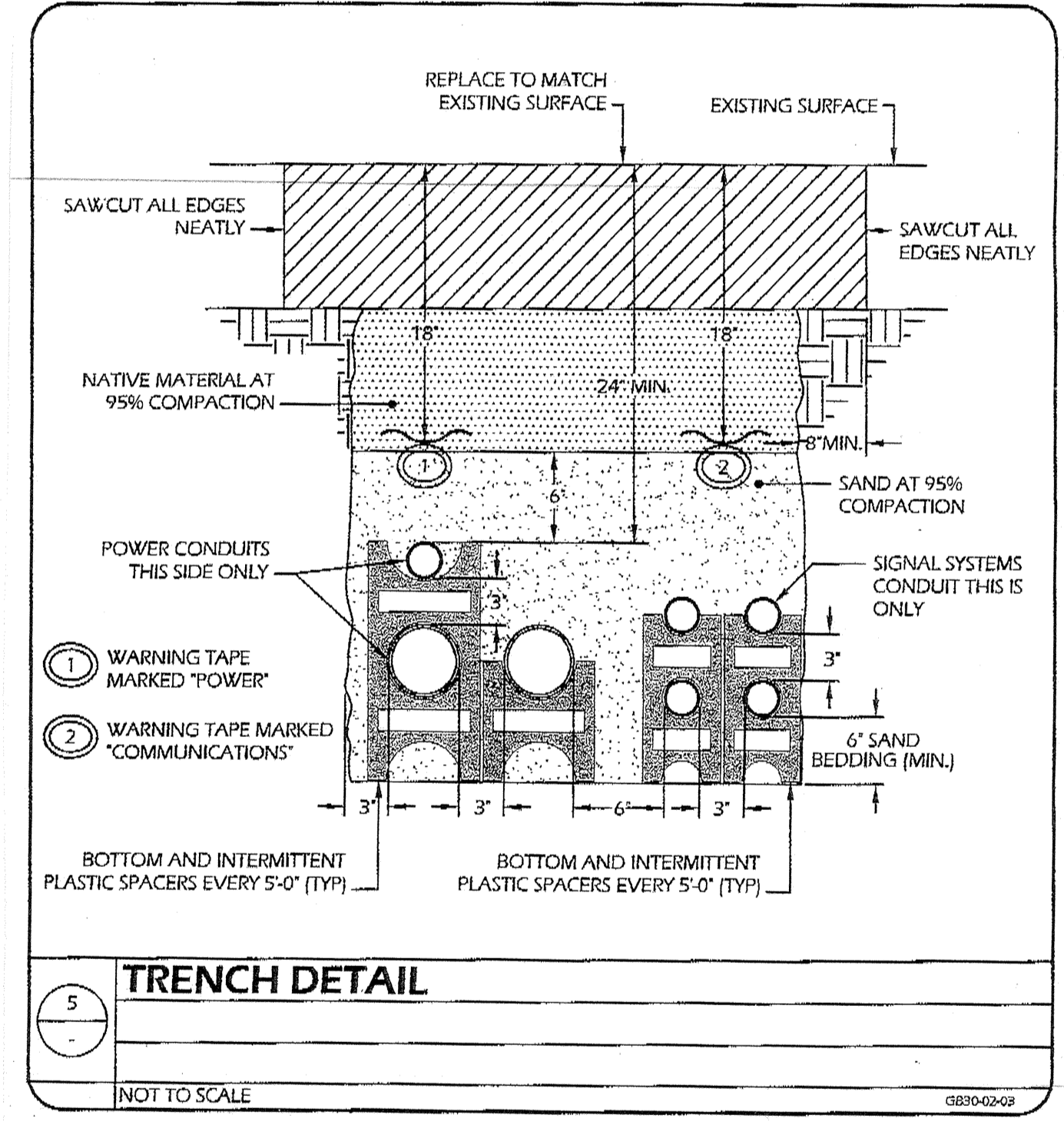


PANEL A		120/240V 1Ø 3W		REAR		FLUSH	
		100 AMP MAIN BREAKER		10,000 AIC		NEMA 1	
CKT	SERVING	NOTE	AVG	AVG	AVG	AVG	AVG
			AMP	AMP	AMP	AMP	AMP
			FILE	FILE	FILE	FILE	FILE
			ØA	ØB	ØA	ØB	ØA
1	RECEPTACLE		12/12	20/1	0.7/1.1	60/2	8/10
3	RECEPTACLE		12/12	20/1	0.7/1.1	20/1	12/12
5	SPACE		12/12	20/1		20/1	12/12
7	SPACE		12/12	20/1		20/1	12/12
9	INT/EXT LIGHTS		12/12	20/1	0.9	20/1	12/12
11	INT LIGHTS		12/12	20/1	0.8/1.1	20/1	12/12
			8.7KVA	8.7KVA	72A	72A	



POWER AND SIGNAL PLAN
3 RELOCATABLE CLASSROOMS
 SCALE : 1/8" = 1' - 0"

SHEET NOTES

- APPROXIMATE LOCATION FOR NEW FIRE ALARM DISTRIBUTED POWER MODULE. 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" EMT 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 DIAGRAMS.
- 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, FO CABLE AND DATA CABLE PATCH PANEL. FOR NEW DATA OUTLET CONNECTION, PROVIDE FO CABLE TO (E) 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.
- PROVIDE NEW FA PULL BOX, SEE DRAWING E-3 FOR MORE INFORMATION.
- PROVIDE FLEX CONDUIT RACEWAY BETWEEN BUILDINGS AS REQUIRED.
- NEW PANEL H. PROVIDE NEW CONDUITS AND FEEDERS FOR NEW PRE-WIRED PANEL POWER CONNECTION. SEE SINGLE LINE DIAGRAM.
- NEW SURFACE MOUNTED POWER CONDUITS AND FEEDERS. SEE SINGLE LINE DIAGRAM.
- NEW 24"x24"x4" NEMA3R SIGNAL TC SURFACE MOUNTED ON EXTERIOR WALL. PROVIDE (2) 2" STUB INTO BUILDING ATTIC CMVTY. SEE SIGNAL RISER DIAGRAM.
- EXTEND EXISTING STUB OUT (2) 2" U.G. CONDUITS TO NEW PANEL H AND PULL IN NEW CONDUCTORS. SEE SINGLE LINE DIAGRAM.
- PROVIDE SAFETY DISCONNECT SWITCH ON (E) XFMR PRIMARY SIDE. SEE SINGLE LINE DIAGRAM. FIELD VERIFY LOCATION.
- EXTEND EXISTING STUB OUT (3) 3/4" U.G. CONDUITS TO NEW SIGNAL TC AND FATC, PULL IN NEW CONDUCTORS. SEE SIGNAL RISER DIAGRAM.
- JOINT TRENCH WITH NEW U.G. PLUMBING PIPE TO INSTALL NEW (2) 2" U.G. CONDUITS FOR SIGNAL AND COMMUNICATION WIRING RACEWAY. FIELD VERIFY LOCATION WITH OWNER AND GENERAL CONTRACTOR PRIOR TO INSTALLATION. PROVIDE PULL CHAINS ON EXTERIOR WALL AS REQUIRED. PER DETAIL S/E-2. INSTALL NEW AC PAVING FLUSH WITH ADJACENT.

SIGNAL AND COMM. LEGEND

- SECURITY ALARM SYSTEM**
- [DSC] DIGITAL SECURITY ALARM CONTROL PANEL, MODEL SONITROL (64ZONE). INTERFACE WITH EXISTING BUILDING MASTER SECURITY ALARM PANEL AS REQUIRED.
 - [K] LOG KEYPAD - MATCH EXISTING EQUIPMENT AS REQUIRED.
 - [M] DUAL TECHNOLOGY CEILING MOUNT DETECTOR. MATCH EXISTING EQUIPMENT AS REQUIRED.
 - [B] EXTERIOR BELL (SIREN) - DSC/SD15W 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 #AQC224
- COMMUNICATION (TELEPHONE/INTERCOM) SYSTEM**
- [V] HANDSET/FP PHONE - FIELD VERIFY MODEL NO. AND MATCH EXISTING MASTER EQUIPMENT AS REQUIRED.
 - [SP] CEILING SPEAKER - RAILAND #JUS0221 W/ACC1000 Baffle. PROVIDE BACKBOX AND CEILING SUPPORT AS REQUIRED.
 - [WP] OUTDOOR SPEAKER - ATLAS #APF15 HORN W/XFMR AND LOWELL (#384 FOR SURFACE, #875X FOR RECESS) BACK BOX W/SOLK GRILL.
 - T- OUTDOOR TELE/AC 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/IC CABLE - WEST PENN #AQC-369
- DATA COMMUNICATION SYSTEM**
- [C]2 DATA OUTLET - LEWTON CAT 5E (DUAL RECEPTACLE RED IN COLOR FOR ADMINISTRATIVE)
 - [C]2 DATA OUTLET - LEWTON 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:
 1. ALL SIGNAL CONDUCTORS CANNOT SPLICE INSIDE PULL BOX. CONDUCTOR MUST BE CONTINUOUS RUN BETWEEN SIGNAL DEVICES BACK BOX OR ABOVE GROUND TERMINAL CABINET.

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Revision	Revision Description	Rev. Date

POWER AND SIGNAL PLAN

WAYSIDE ELEMENTARY SCHOOL
2 RELOCATABLE CLASSROOMS
 BAKERSFIELD CITY SCHOOL DISTRICT
 1000 MING AVE., BAKERSFIELD, CA

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 Issue Date: 00/00/14
 Date: 05/27/14
 Designer: J. CHONG
 DR: J. CHONG
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Agency Approval Stamp:

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 ACW FLS CO SS TB
 DATE 7/24/14

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Stamp: [Professional Engineer Seal]

Job No.: **5126**

Sheet No.: **E-2**

Release:

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