S

SUBMITTA

APPLICABLE CODES AND REGULATIONS		PART 12-CALIFORNIA REFERENCE STANDARDS CODE	2016 EDITION
CALIFORNIA CODE OF REGULATIONS (C.C.R.), TITLE 24 (APPLIES AFTER JAN	PARTIAL LIST OF NFPA STANDARDS:		
PART 1-CALIFORNIA BUILDINGS STANDARD ADMINISTRATIVE CODE	2016 EDITION	NFPA 13-AUTOMATIC SPRINKLER SYSTEM,	2016 EDITION
PART 2-CALIFORNIA BUILDING CODE	2016 EDITION	NFPA 14-STANDPIPES SYSTEMS,	2016 EDITION
PART 3-CALIFORNIA ELECTRICAL CODE	2016 EDITION	NFPA 17A-WET CHEMICAL SYSTEMS,	2017 EDITION
PART 4-CALIFORNIA MECHANICAL CODE	2016 EDITION	NFPA 20-STANDARD FOR THE INSTALLATION OF STATIONARY	2016 EDITION
PART 5-CALIFORNIA PLUMBING CODE	2016 EDITION	PUMPS FOR FIRE PROTECTION	
PART 6-CALIFORNIA ENERGY CODE	2016 EDITION	NFPA 24-PRIVATE FIRE MAINS,	2016 EDITION
PART 7-NO LONGER PUBLISHED		NFPA 70-NATIONAL ELECTRICAL CODE	2017 EDITION
PART 8-CALIFORNIA HISTORICAL BUILDING CODE	2016 EDITION	NFPA 72-NAT. FIRE ALARM & SIGNALING CODE	2016 EDITION
PART 9-CALIFORNIA FIRE CODE	2016 EDITION	(CALIFORNIA AMENDED)	
PART 10-CALIFORNIA EXISTING BUILDING CODE	2016 EDITION	NFPA 72-NATIONAL FIRE ALARM & SIGNALING CODE	2016 EDITION
PART 11-CALIFORNIA GREEN BUILDING STANDARDS CODE	2016 EDITION	NFPA 96-STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS	2017 EDITION

IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TOWARD THIS END FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, 1) ELECTRICAL KEYNOTE: DENOTES KEYNOTE #1 OF NOTES ON SAME SHEET 1.) PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES: NOTHING IN THESE DRAWINGS AUTHORIZES DEVIATION FROM APPLICABLE CODES. DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH CIRCUIT HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS. PROVIDE A CODE APPROVED DISCONNECT SWITCH OR CIRCUIT BREAKER WITHIN SIGHT OF EVERY MOTOR AND FEED MOTORS NOT EQUIPPED WITH "BUILT IN" PROTECTION THROUGH A MAGNETIC OR MANUAL STARTER WITH OVERLOAD HEATERS SIZED TO COMPLY WITH MOTOR MANUFACTURER'S RECOMMENDATIONS AND FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATER AQUASTATS, SOLENOID VALVES, AND OTHER MECHANICAL EQUIPMENT AND FOR CONDUITS AND WIRE REQUIRED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS, REFER TO MECHANICAL PLANS AND DETERMINE EXACT LOCATIONS UNDER DIRECTION OF HEATING AND VENTILATING CONTRACTOR.) DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMETER EXCEEDS 1/3 THE THICKNESS OF THI SLAB. LOCATE CONDUITS WITHIN THE MIDDLE OF THE SLAB. WHERE CONDUITS ARE GROUPED IN PARALLEL RUNS, SPACE THEM 3" OR MORE APART. WHERE CONDUITS CROSS EACH OTHER, THICKEN THE SLAB PROPORTIONATELY OVER A HORIZONTAL AREA EQUAL TO TEN TIMES THE DIAMETER OF THE LARGEST CONDUIT) SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GUAGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/2" DEEP. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SEPARATED BY AT LEAST THREE (3) INCHES FROM WATER LINES WHENEVER THEY RUN ALONG SIDE OF ACROSS SUCH LINES. CONDUIT SHALL NOT BE RUN BELOW CABLE TRAYS OR LIGHT FIXTURES WITHOUT SPECIFIC APPROVAL OF THE OWNER'S REPRESENTATIVE. HANGERS SHALL BE FASTENED TO STEE OR MASONRY, BUT NOT TO PIPING. HANGERS AND SUPPORT SYSTEMS ARE AN INTEGRAL PART OF THE VISUAL ENVIRONMENT. ALL HANGERS AND SUPPORTS EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUBMITTED TO LANDLORD FOR APPROVAL OF APPEARANCE. ALL HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES. 8.) ALL WALL SWITCHES AND RECEPTACLES SHALL BE MOUNTED BETWEEN 18" AND 48" PER CALIFORNIA BUILDING CODE REQUIREMENTS UNLESS OTHERWISE NOTED. LECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF OUTLET BOX IOR LESS THAN 15" MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM. ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES, SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15" MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM. 9.) CONTRACTOR SHALL EXAMINE PLANS AND VERIFY IN FIELD LOCATIONS OF ALL FIRE RATED WALLS, CEILINGS AND FLOORS. CONTRACTOR SHALL SEAL ALL ELECTRICAL SYSTEM PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS WITH U.L. LISTED MATERIAL APPROVED BY THE AUTHORITY HAVING JURISDICTION. .) SURFACE MOUNTED RACEWAY COMPLETENESS: CONTRACTOR SHALL PROVIDE ALL RACEWAY, FITTINGS, SUPPORTS, BOXES, DEVICES, PLATES ETC. NECESSARY FOR A COMPLETE AND WORKABLE SURFACE MOUNTED ELECTRICAL RACEWAY SYSTEM. PRIOR TO INSTALLATION, CONTRACTOR SHALL PERFORM A PRE-INSTALLATION SURFACE MOUNTED RACEWAY JOB WALK WITH OWNER & ARCHITECT FOR CONTRACTOR TO FIELD VERIFY EXACT ROUTING OF ANY & ALL SURFACE MOUNTED RACEWAYS. FIRE ALARM SYSTEM BY CONTRACTOR CONTRACTOR SHALL FURNISH AND INSTALL A FIRE ALARM SYSTEM FOR THE PROJECT AREA TO INCLUDE: .) SMOKE DETECTORS IN ALL REQUIRED AREAS B.) HEAT DETECTORS IN ALL REQUIRED AREAS) DUCT DETECTORS IN ALL REQUIRED SPACES STROBES/ALARMS IN ALL REQUIRED AREAS PULL STATIONS AT ALL LEGAL FIRE EXITS — WHERE REQUIRED) TAMPER AND FLOW SWITCHES AT FIRE SPRINKLER RISERS AND BACKFLOW PREVENTERS) BRANCH CIRCUIT AND CONTROL WIRING TO FIRE SPRINKLER ALARM BELLS I.) SMOKE/FIRE DAMPER/HVAC UNIT SHUT-DOWN BRANCH CIRCUIT WIRING, CONTROL WIRING, CONTROL 1. CONTRACTOR SHALL SUBMIT FOR THE OWNER'S SIGNED APPROVAL, APPROVED FIRE DEPARTMENT FIRE ALARM DRAWINGS FOR THE PROJECT SPACE. 2. ALL DEVICES AND EQUIPMENT SHALL BE CALIFORNIA STATE FIRE MARSHAL APPROVED. 3. CONTRACTOR SHALL WARRANTY ALL DEVICES AND SYSTEMS FOR A PERIOD OF TWO YEARS. . CONTRACTOR SHALL PROVIDE SIX (6) SETS OF FIRE ALARM MANUALS FOR ALL SYSTEMS AND DEVICES IN ADDITION TO SIX (6) SETS OF A SYSTEM OPERATIONAL MANUAL TAILORED FOR THE PROJECT SPACE. 5. CONTRACTOR SHALL PROVIDE A SATISFACTORY TEST IN THE PRESENCE OF THE OWNER, FIRE PREVENTION BUREAU, AND CONSULTING ENGINEER. 6. CONTRACTOR SHALL PROVIDE ALL CONNECTIONS TO POWER PANELS, CONDUIT AND WIRE AND CONNECTIONS REQUIRED TO PROVIDE AN OPERATIONAL FIRE ALARM SYSTEM. SUBMITTAL DOCUMENTS FOR DEFERRED ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH DESIGN OF THE BUILDING. THE DEFERRED ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

SEISMIC ANCHORAGE REQUIREMENTS

MECHANICAL, ELECTRICAL AND PLUMBING ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTION 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 16, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVEABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- MOVEABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED TO 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 THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG 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 DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE

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 DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND THE 2013 CBC SECTION 1616A.1.23, 1616A.1.24, 1616A.1.25 AND

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPOR THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD) PLUMBING PIPING (PP) ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP MD PP EX OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC

MP MD PP E OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL

(OPM #) # _____ MP MD PP OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL OSHPD EDITION 2009, INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RETRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS.

ELECTRICAL SYMBOL LIST

DIMENSIONS INDICATED ARE MEASURED TO CENTERLINE OF ENCLOSURE, UNLESS OTHERWISE NOTED NOTE: SOME SYMBOLS SHOWN MAY NOT APPLY TO THIS PROJECT ANNOTATIONS & CALLOUTS

A INDICATES LIGHTING FIXTURE TAG NUMBER indicates wattage of light fixture

INDICATES MECHANICAL/PLUMBING EQUIPMENT OR DEVICE (FOUND ON ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT OR ON MECHANICAL PLANS MECHANICAL/PLUMBING TAG NUMBER

1 INDICATES DETAIL NUMBER E3.0 INDICATES SHEET NUMBER TO FIND DETAIL

BREAK LINE INDICATES WORK EXTENDED BEYOND LIMITS SHOWN ON DRAWING. CONDUIT & WIRING SYMBOLS

_A5-1-3-5,7 INDICATES A HOMERUN TO PANEL A5, CKTS 1-3-5 WITH SHARED NEUTRAL & CKT 7 WITH DEDICATED NEUTRAL. CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS

CONDUIT RUN CONCEALED BELOW FLOOR OR UNDERGROUND 3/4"C - 2 #12 & 1 #12 CU GND

 $\frac{1}{100}$ 3/4"C - 2 #10 & 1 #10 GND $\frac{1}{100}$ 3/4"C - 3 #10 & 1 #10 GND $\frac{1}{10}$ 3/4°C - 5 #10 & 1 #10 GND

> CONDUIT STUB, CAP AND IDENTIFY **Q.** FLEXIBLE CONDUIT CONNECTION. SEE PLAN.

> > (RECESSED, SURFACE MOUNTED)

LIGHTING FIXTURE SYMBOLS 2'X4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX

a & b, ETC. INDICATES SWITCH IDENTIFICATION - NUMBER INDICATES LIGHT FIXTURE BRANCH CIRCUIT 2'X2' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX (RECESSED, SURFACE MOUNTED)

CEILING MOUNTED FLUORESCENT LIGHTING FIXTURE WITH 4S OUTLET BOX (RECESSED, SURFACE MOUNTED) FLUORESCENT LIGHT FIXTURE WITH INTEGRAL 90 MINUTE EMERGENCY BATTER' PACK WITH 4S OUTLET BOX. (RECESSED, SURFACE MOUNTED) SURFACE MOUNTED FLUORESCENT STRIP LIGHTING FIXTURE WITH 4S BOX CEILING SURFACE MOUNTED LIGHTING FIXTURE WITH OUTLET BOX

CEILING RECESSED DOWNLIGHT FIXTURE CEILING RECESSED WALL WASH DOWNLIGHT FIXTURE

▼ ▼ TRACK LIGHTING (TRIANGLES INDICATE # OF HEADS) LIGHT FIXTURE, WALL MOUNTED WITH OUTLET BOX

EXIT SIGN WITH OUTLET BOX -ARROW DENOTES DIRECTIONAL CHEVRON

EXIT SIGN, END MOUNT ON WALL, WITH OUTLET BOX. SHADING DENOTES FACE OF EXIT SIGN. EMERGENCY LIGHTING UNIT WITH OUTLET BOX.

EXIT-EMERGENCY LIGHTING UNIT COMBO WITH OUTLET BOX.

PENDANT MOUNTED LIGHT FIXTURE WITH OUTLET BOX.

WITH OVERCURRENT PROTECTION UON

FIRE ALARM SYMBOLS

FACP FIRE ALARM CONTROL PANEL

CEILING MOUNT VISIBLE

HD HEAT DETECTOR W/ BASE END-OF-LINE RESISTOR

HORN WITH WEATHERPROOF ENCLOSURE

M ✓ MINI-HORN WALL MOUNT SPEAKER/STROBE

OUTDOOR WALL MOUNT SPEAKER

PANELBOARD PER PLANS, FLUSH MOUNTED IN WALL @ +6'-6" TO TOP OF TRIM

PANELBOARD PER PLANS, SURFACE MOUNTED ON WALL @ +6'-6" TO TOP OF TRIM

SINGLE RECEPTACLE, WALL MOUNTED @ +18" AFF, NEMA 5-20R UON DUPLEX RECEPTACLE, WALL MOUNTED @ +18" AFF, NEMA 5-20R UON GFI DENOTES GROUND FAULT INTERRUPTER RECEPTACLE) DUPLEX RECEPTACLE, WALL MOUNTED HORIZONTALLY @ +18" AFF, NEMA

DUPLEX TVSS RECEPTACLE, WALL MOUNTED @ +18" AFF, NEMA 5-20R UON DUPLEX RECEPTACLE, WALL MOUNTED @ +18" AFF, NEMA 5-20R UON TOP RECEPTACLE SWITCHED CEILING MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R UON

DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED @ +18" AFF, NEMA 5-20R UON SPECIAL PURPOSE ELECTRICAL OUTLET PER PLAN IN WALL @ +18", UON

JUNCTION BOX (ACCESSIBLE CEILING SPACE MTD.) SIZE PER TABLE AND NEC ARTICLE 370 JUNCTION BOX (WALL MTD.) SIZE PER TABLE AND NEC ARTICLE 370

RECESSED FLUSH FLOORBOX, FLOOR MOUNTED. SEE POWER AND SIGNAL PLANS. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. COORDINATE COVER FINISH/COLOR WITH ARCHITECT PRIOR TO ORDERING.

THERMOSTAT OUTLET BOX. 4S BOX WITH SINGLE GANG RING @ +42" AFF

VOICE/DATA SYSTEM

TELE/DATA OUTLET BOX IN WALL © +18", STUB A 1" CO UP 12" ABOVE ACCESSIBLE CEILING WITH BUSHING, 5S BOX WITH 1-GANG P-RING, UON TELE/DATA OUTLET BOX, MOUNTED IN WALL +6" ABOVE COUNTER OR SPLASH, STUB A 1" CO UP 12" ABOVE ACCESSIBLE CEILING WITH BUSHING, 5S BOX WITH

FLUSH CEILING MOUNTED TELE/DATA OUTLET, 5S BOX WITH SINGLE GANG PLASTER RING, UON

TELEVISION OUTLET IN WALL @ +84", 5S BOX WITH 1-GANG RING, UON

SINGLE-POLE SWITCH MOUNTED @ +42" AFF SINGLE POLE SWITCH @ +42", UON a INDICATES LIGHT FIXTURE TO BE SWITCHED TWO-POLE SWITCH MOUNTED @ +42" AFF

3-WAY SWITCH MOUNTED @ +42" AFF S₄ 4-WAY SWITCH MOUNTED @ +42" AFF SK KEYED SWITCH MOUNTED @ +42" AFF

S_M HORSEPOWER RATED SWITCH MOUNTED @ +42" AFF DIMMER SWITCH MOUNTED @ +42" AFF, 0-10V DIMMER COMPATIBLE WITH LED LIGHT FIXTURE, UON.

OCCUPANCY SENSOR WALL SWITCH PER PLANS, MOUNTED @ +42" AFF SINGLE-POLE SWITCH (WITH PILOT LIGHT) @ +42" AFF

TIME SWITCH, FLUSH MOUNTED @ +42" AFF. WATTSTOPPER, TS-400-W CEILING MOUNTED OCCUPANCY SENSOR COMPLETE WITH OUTLET BOX, PER PLANS.

CHELSEA DIGITAL WALL SWITCH MOUNTED @ +42" AFF PUSH BUTTON WALL SWITCH MOUNTED @ +42" AFF

CIRCUIT BREAKERS AND FUSES

225AF 150AT MOLDED CASE CIRCUIT BREAKER 225 AMP FRAME, 150 AMP TRIP RATING, 3-POLE

FUSED SWITCH, 100 AMP SWITCH RATING WITH 60 AMP FUSES, 3-POLE

100A UTILITY METER (OR AS NOTED)

60AS DISCONNECT SWITCH, 60AMP SWITCH, 35 AMP FUSES, 3-POLE

COMBINATION STARTER / DISCONNECT SWITCH SIZED PER PLAN EXHAUST FAN/MOTOR, SIZE AS INDICATED ON PLANS

SD SMOKE DETECTOR W/ BASE

WALL MOUNT STROBE

WALL MOUNT HORN/STROBE

DUCT DETECTOR

CEILING MOUNT AUDIBLE/VISIBLE

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BAKERSFIELD CITY SCHOOL



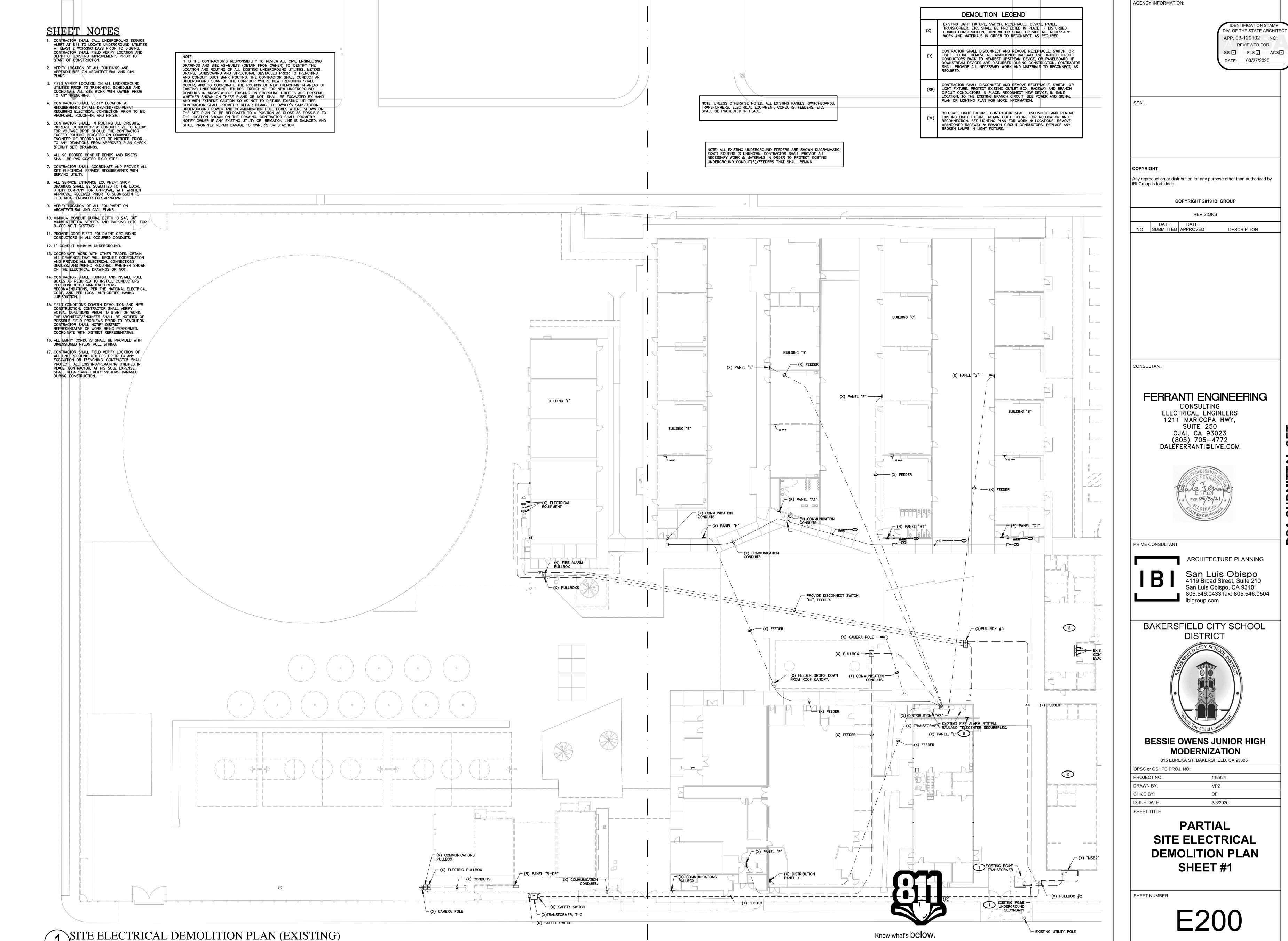
BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST. BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO: PROJECT NO: 118934 DRAWN BY VPZ

> SYMBOLS & **GENERAL NOTES**

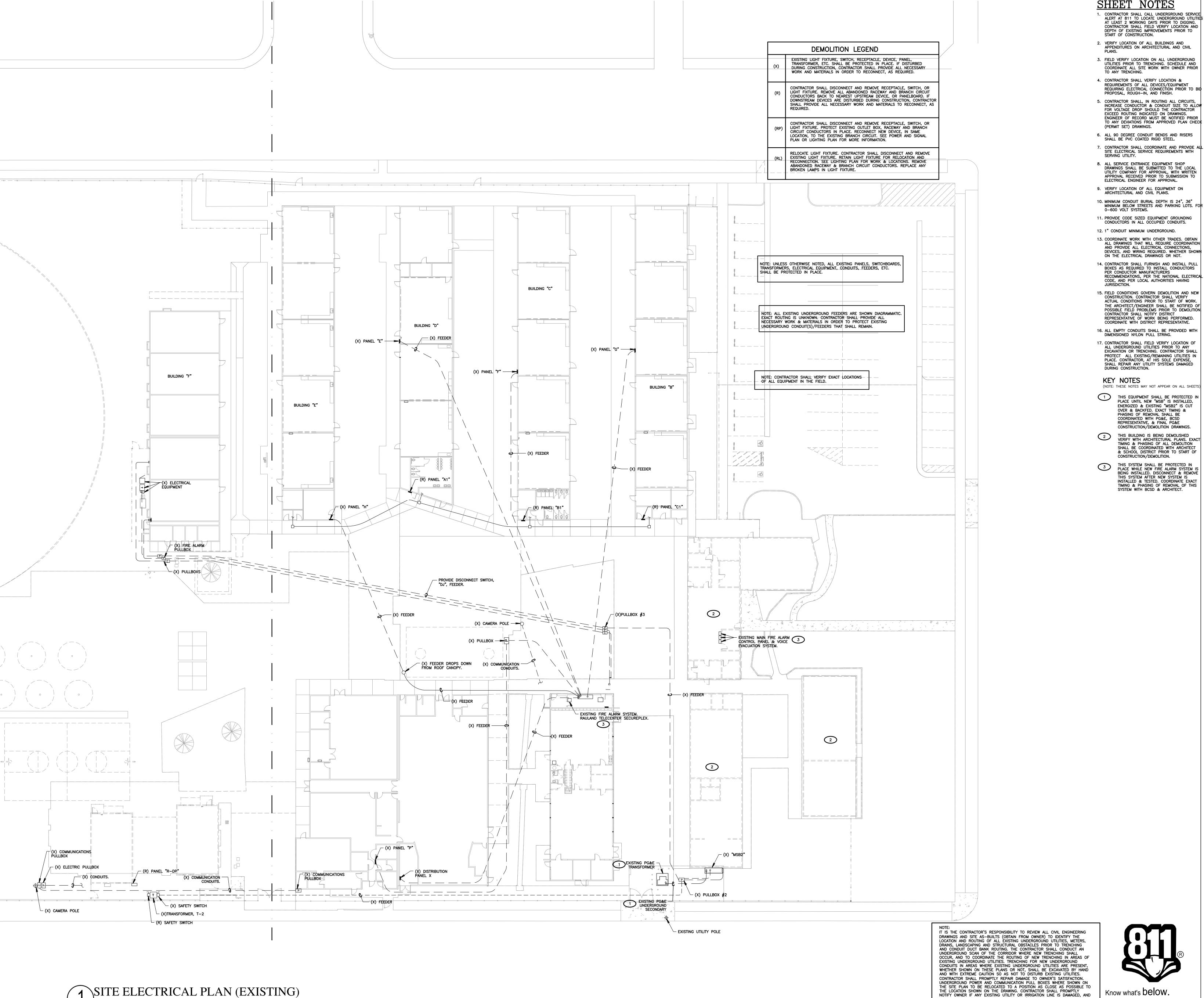
SHEET NUMBER



SCALE: I"=20'-0"

Call before you dig.





SCALE: 1"=20'-0"

SHEET NOTES 1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE

- 2. VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL
- 3. FIELD VERIFY LOCATION ON ALL UNDERGROUND
- 4. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BI
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK
- 6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL. 7. CONTRACTOR SHALL COORDINATE AND PROVIDE A
- 8. ALL SERVICE ENTRANCE EQUIPMENT SHOP

- CONDUCTORS IN ALL OCCUPIED CONDUITS.
- ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED. WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT. 14. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS
 RECOMMENDATIONS, PER THE NATIONAL ELECTRICA
 CODE, AND PER LOCAL AUTHORITIES HAVING
- CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE.
- 16. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
- PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.
- THIS EQUIPMENT SHALL BE PROTECTED IN PLACE UNTIL NEW "MSB" IS INSTALLED, ENERGIZED & EXISTING "MSB2" IS CUT OVER & BACKFED. EXACT TIMING & PHASING OF REMOVAL SHALL BE COORDINATED WITH PG&E, BCSD REPRESENTATIVE, & FINAL PG&E CONSTRUCTION/DEMOLITION DRAWINGS.
- THIS BUILDING IS BEING DEMOLISHED
 VERIFY WITH ARCHITECTURAL PLANS. EXACT
 TIMING & PHASING OF ALL DEMOLITION
 SHALL BE COORDINATED WITH ARCHITECT
 & SCHOOL DISTRICT PRIOR TO START OF
- THIS SYSTEM SHALL BE PROTECTED IN PLACE WHILE NEW FIRE ALARM SYSTEM IS BEING INSTALLED. DISCONNECT & REMOVE THIS SYSTEM AFTER NEW SYSTEM IS INSTALLED & TESTED. COORDINATE EXACT TIMING & PHASING OF REMOVAL OF THIS SYSTEM WITH BCSD & ARCHITECT.

AGENCY INFORMATION:

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REVISIONS

NO. SUBMITTED APPROVED DESCRIPTION

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BAKERSFIELD CITY SCHOOL



BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305 OPSC or OSHPD PROJ. NO:

DRAWN BY:

PROJECT NO:

PARTIAL

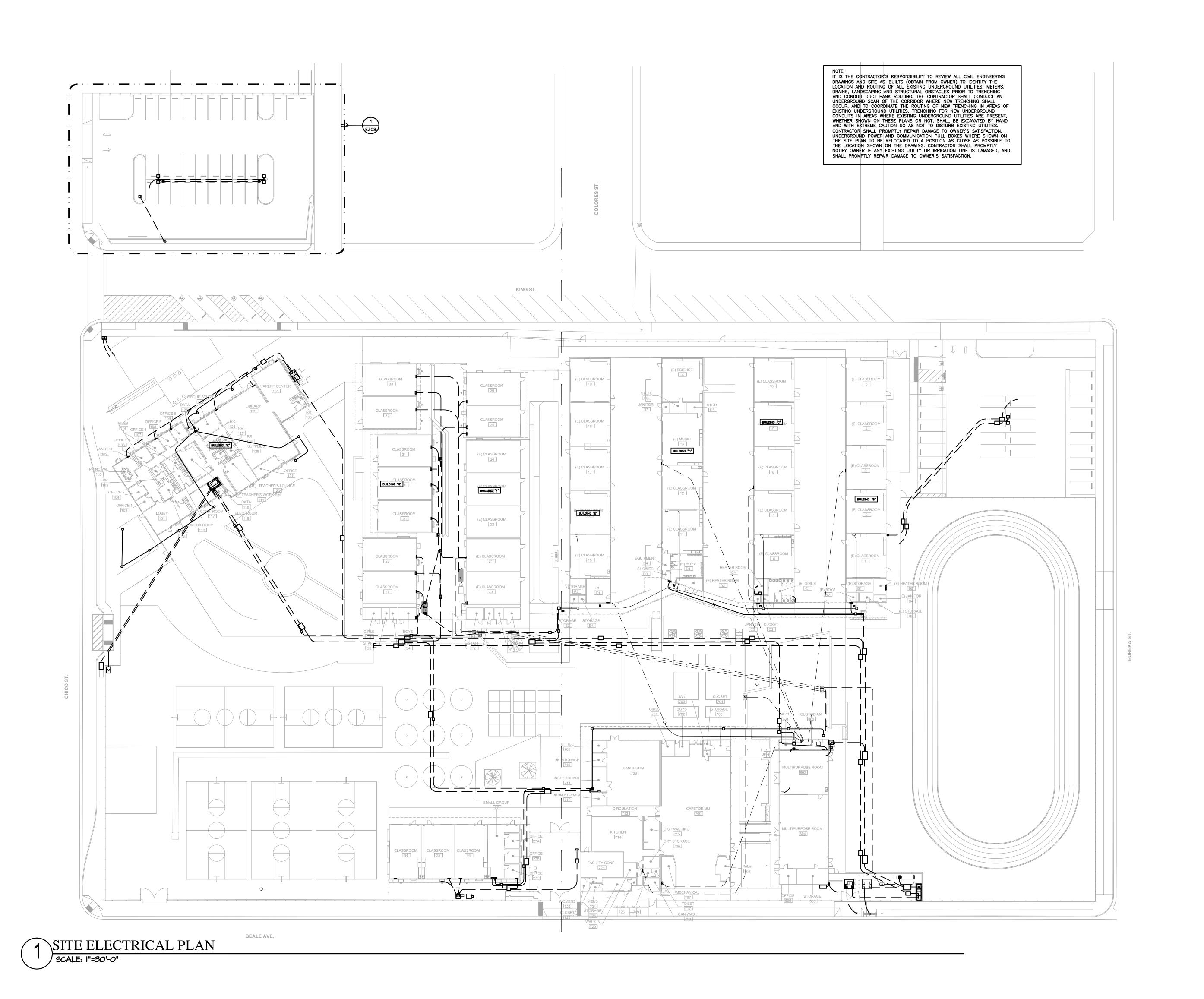
SITE ELECTRICAL PLAN (EXISTING) SHEET #2

VPZ

SHEET NUMBER

Call before you dig

SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION.



Know what's **below.** Call before you dig.

SHEET NOTES

- CONTRACTOR SHALL CALL UNDERGROUND SERVICE
 ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES
 AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
- 2. VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL
- FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
- 4. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH—IN, AND FINISH. 5. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
- 7. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
- 8. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
- VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
- 10. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS. 11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- 12. 1" CONDUIT MINIMUM UNDERGROUND.
- 13. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED. WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- 14. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING

15. FIELD CONDITIONS GOVERN DEMOLITION AND NEW

- CONSTRUCTION. CONTRACTOR SHALL VERIFY
 ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE. 16. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
- 17. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.

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BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

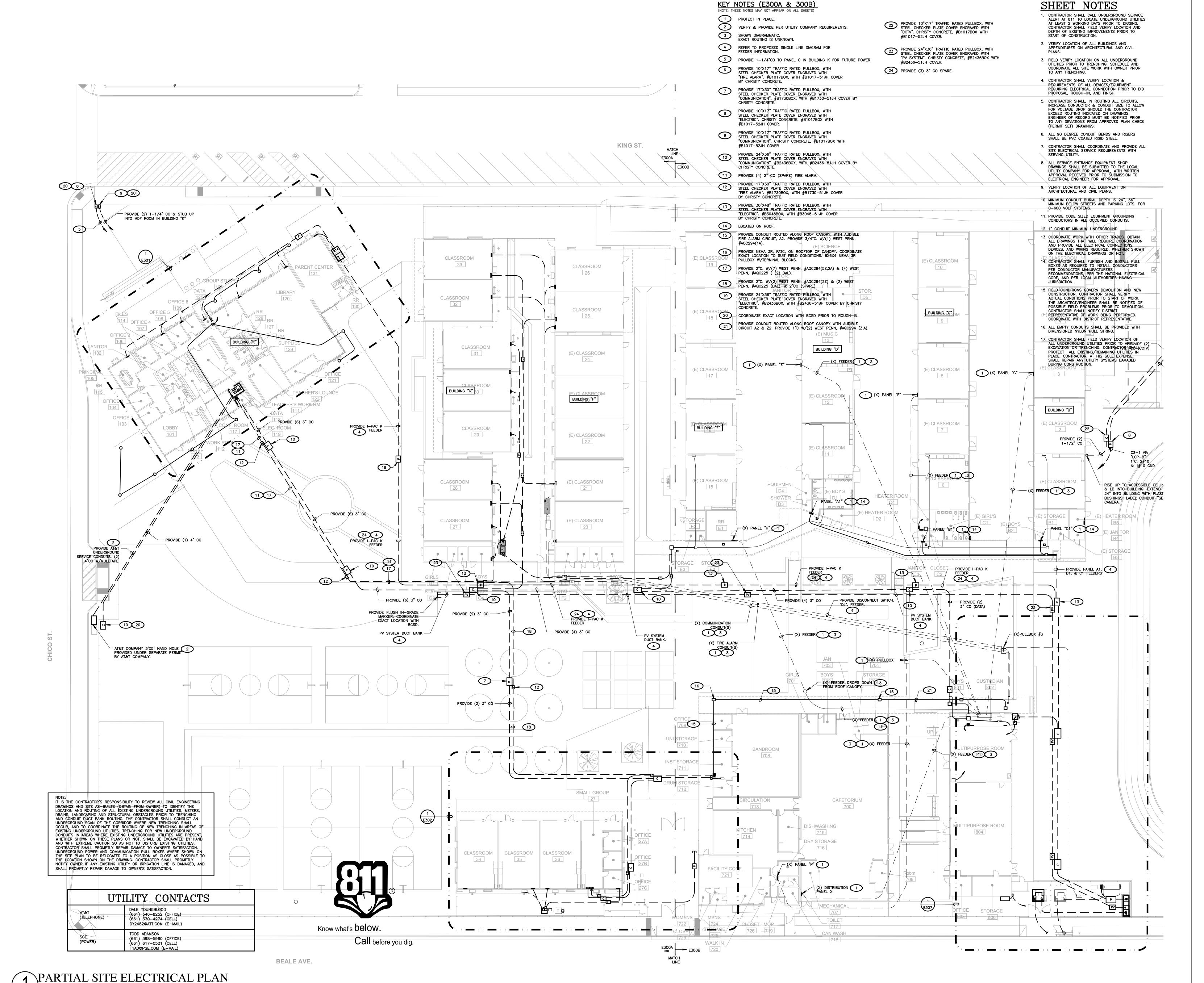
OPSC or OSHPD PROJ. NO: PROJECT NO: 118934 VPZ DRAWN BY: DF CHK'D BY: ISSUE DATE: 3/3/2020

SITE ELECTRICAL

SHEET NUMBER

E300

PLAN



SCALE: |"=20'-0"

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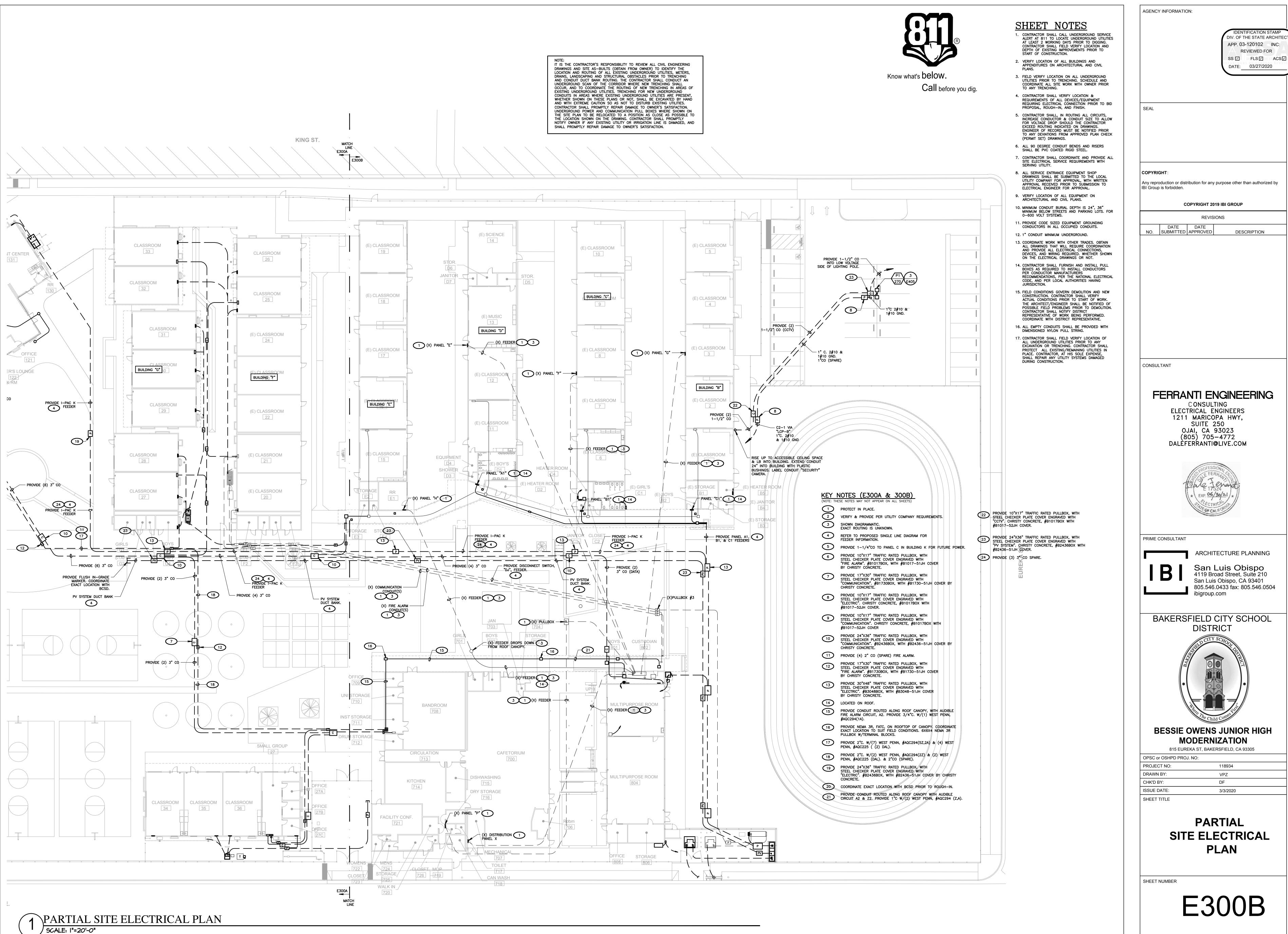
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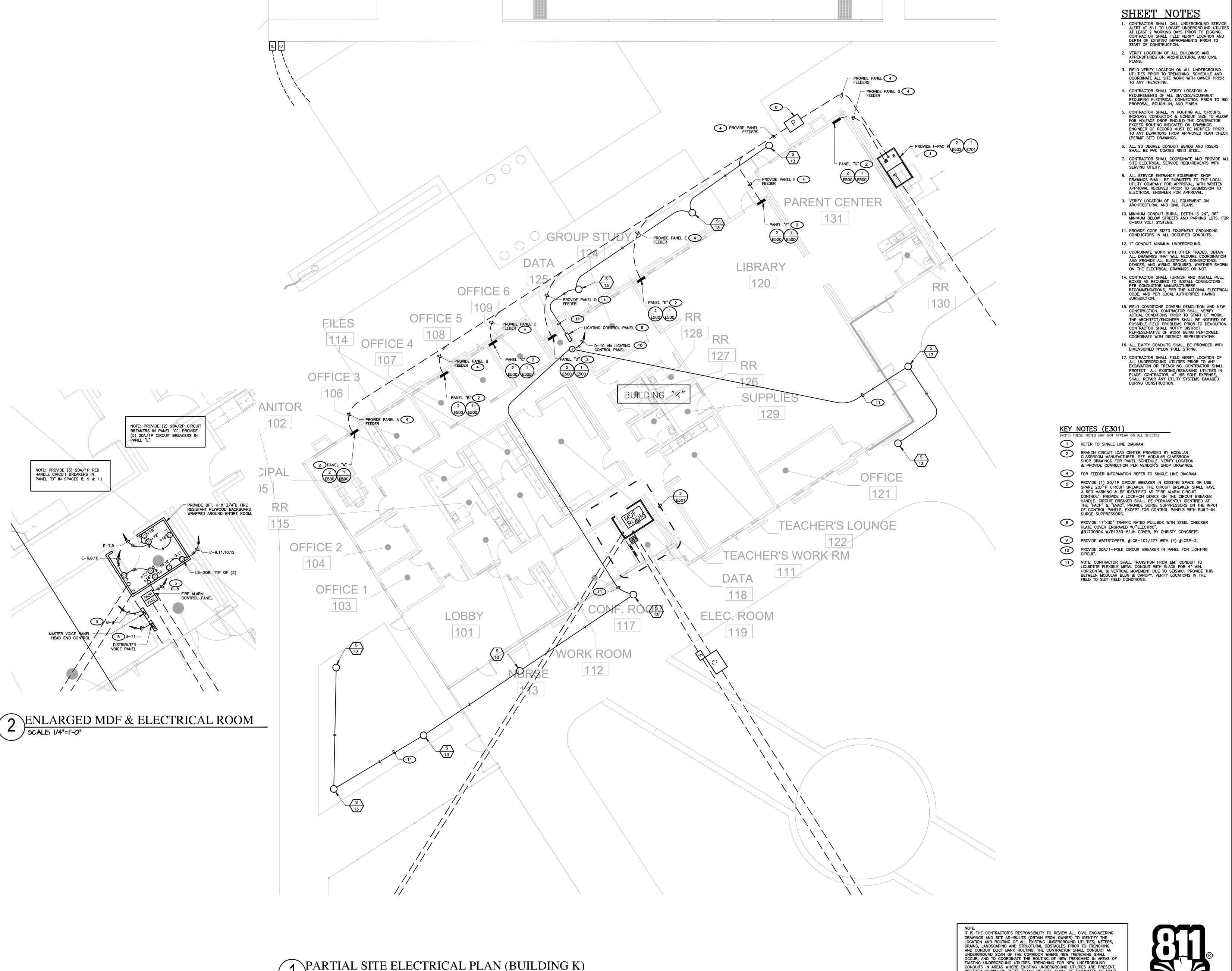
	OPSC or OSHPD PROJ. NO:	
	PROJECT NO:	118934
	DRAWN BY:	VPZ
	CHK'D BY:	DF
	ISSUE DATE:	3/3/2020
	SHEET TITLE	

PARTIAL SITE ELECTRICAL PLAN

SHEET NUMBER

E300A





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

SHEET NOTES

1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.

- 2. VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL
- FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
- 4. CONTRACTOR SHALL VERIFY LOCATION &
- 5. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK
- 6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
- 8. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO
- VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
- 11. PROVIDE CODE SIZED EQUIPMENT GROUNDING
- 12. 1" CONDUIT MINIMUM UNDERGROUND. 13. COORDINATE WORK WITH OTHER TRADES. OBTAIN
- ON THE ELECTRICAL DRAWINGS OR NOT. 14. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS
 RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL
- CODE, AND PER LOCAL AUTHORITIES HAVING 15. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION.
- CONTRACTOR SHALL NOTIFY DISTRICT
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BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE. VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.

FOR FEEDER INFORMATION REFER TO SINGLE LINE DIAGRAM. PROVIDE (1) 20/1P CIRCUIT BREAKER IN EXISTING SPACE OR USE SPARE 20/1P CIRCUIT BREAKER. THE CIRCUIT BREAKER SHALL HAVE A RED MARKING & BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". PROVIDE A LOCK-ON DEVICE ON THE CIRCUIT BREAKER

9 PROVIDE WATTSTOPPER, #LC8-102/277 WITH (4) #LCSP-2.

PROVIDE 20A/1-POLE CIRCUIT BREAKER IN PANEL FOR LIGHTING CIRCUIT.

NOTE: CONTRACTOR SHALL TRANSITION FROM EMT CONDUIT TO LIQUIDTITE FLEXIBLE METAL CONDUIT WITH SLACK FOR 4" MIN. HORIZONTAL & VERTICAL MOVEMENT DUE TO SEISMIC. PROVIDE THIS BETWEEN MODULAR BLDG & CANOPY. VERIFY LOCATIONS IN THE FIELD TO SUIT FIELD CONDITIONS.

Know what's below.

Call before you dig.

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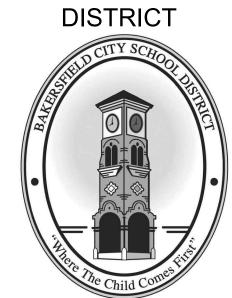
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BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305 OPSC or OSHPD PROJ. NO: PROJECT NO: 118934

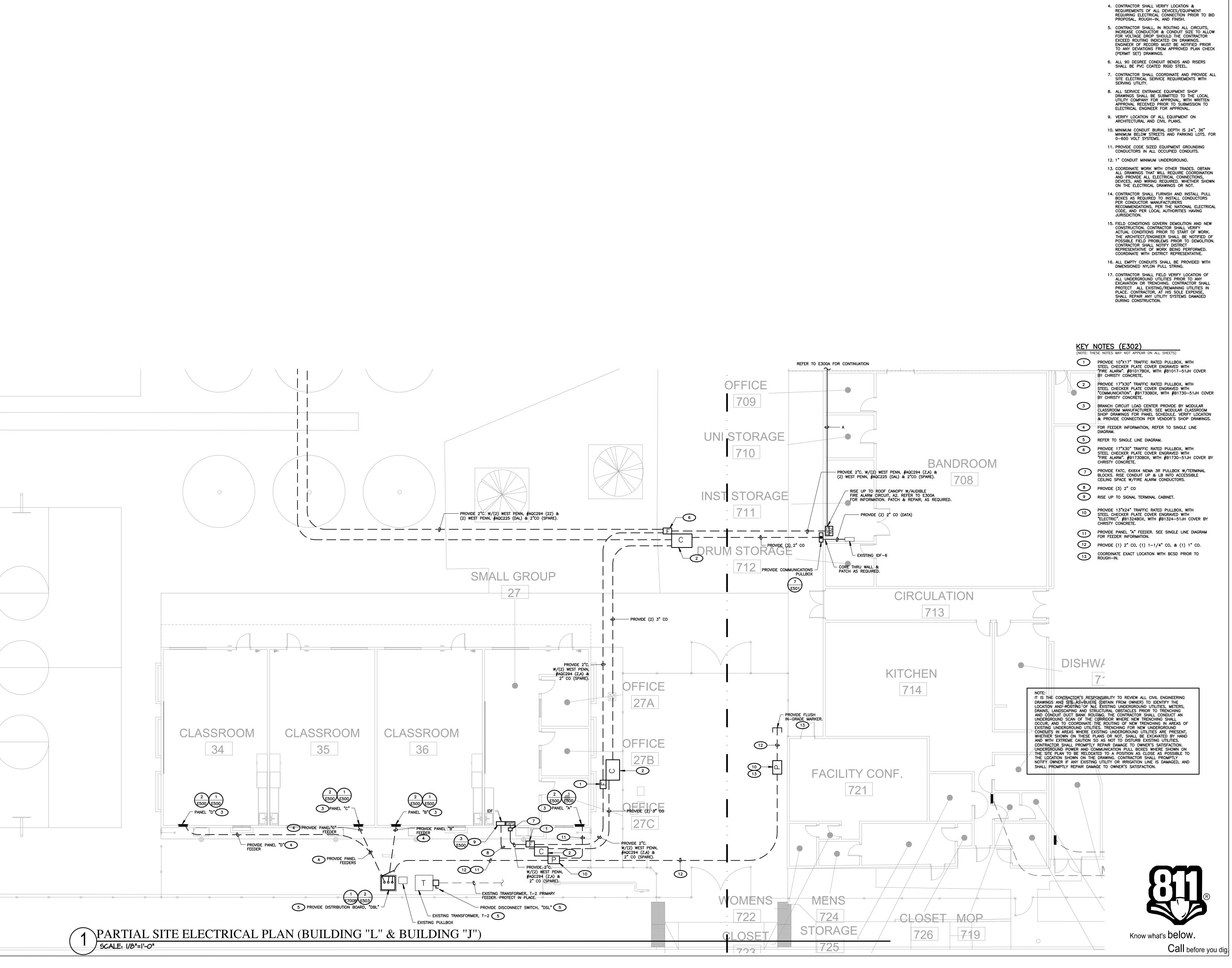
DRAWN BY: VPZ CHK'D BY: ISSUE DATE: 3/3/2020 SHEET TITLE

> **PARTIAL** SITE ELECTRICAL **PLAN** (BUILDING K)

SHEET NUMBER

UNDERGROUND SCAN OF THE CORRIDOR WHERE NEW TRENCHING SHALL CONDUCT AN UNDERGROUND SCAN OF THE CORRIDOR WHERE NEW TRENCHING SHALL OCCUR, AND TO COORDINATE THE ROUTING OF NEW TRENCHING IN AREAS OF EXISTING UNDERGROUND UTILITIES. TRENCHING FOR NEW UNDERGROUND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE PRESENT, WHETHER SHOWN ON THESE PLANS OR NOT. SHALL BE EXCAVATED BY HAND AND WITH EXTREME CAUTION SO AS NOT TO DISTURB EXISTING UTILITIES. CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION. UNDERGROUND POWER AND COMMUNICATION PULL BOXES WHERE SHOWN ON THE SITE PLAN TO BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWING. CONTRACTOR SHALL PROMPTLY NOTIFY OWNER IF ANY EXISTING UTILITY OR IRRIGATION LINE IS DAMAGED, AND

SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION.



- CONTRACTOR SHALL CALL UNDERGROUND SERVICE
 ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO
- 2. VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL
- 3. FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR
- TO ANY TRENCHING.

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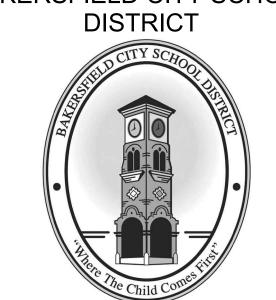


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BAKERSFIELD CITY SCHOOL



BESSIE OWENS JUNIOR HIGH MODERNIZATION

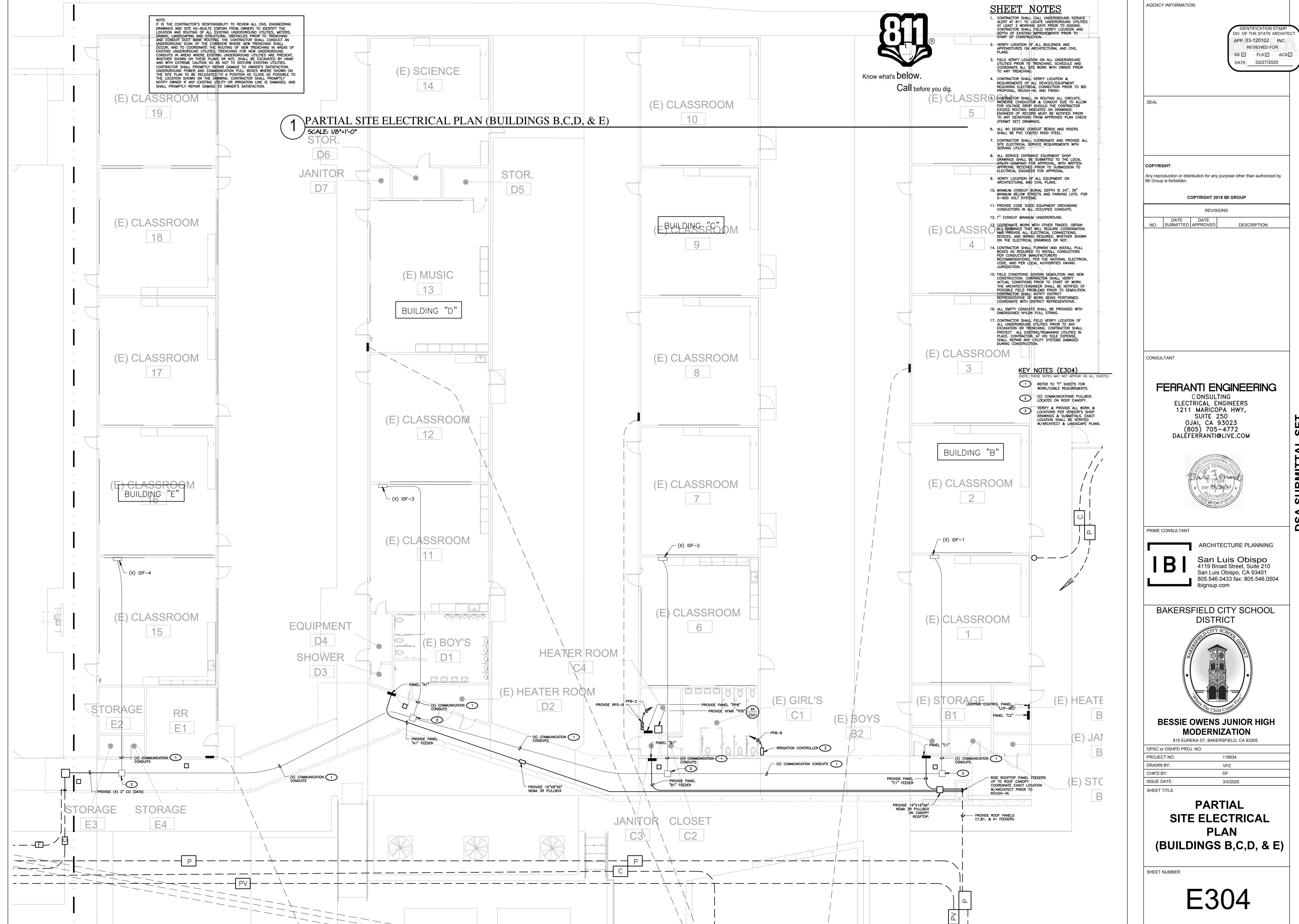
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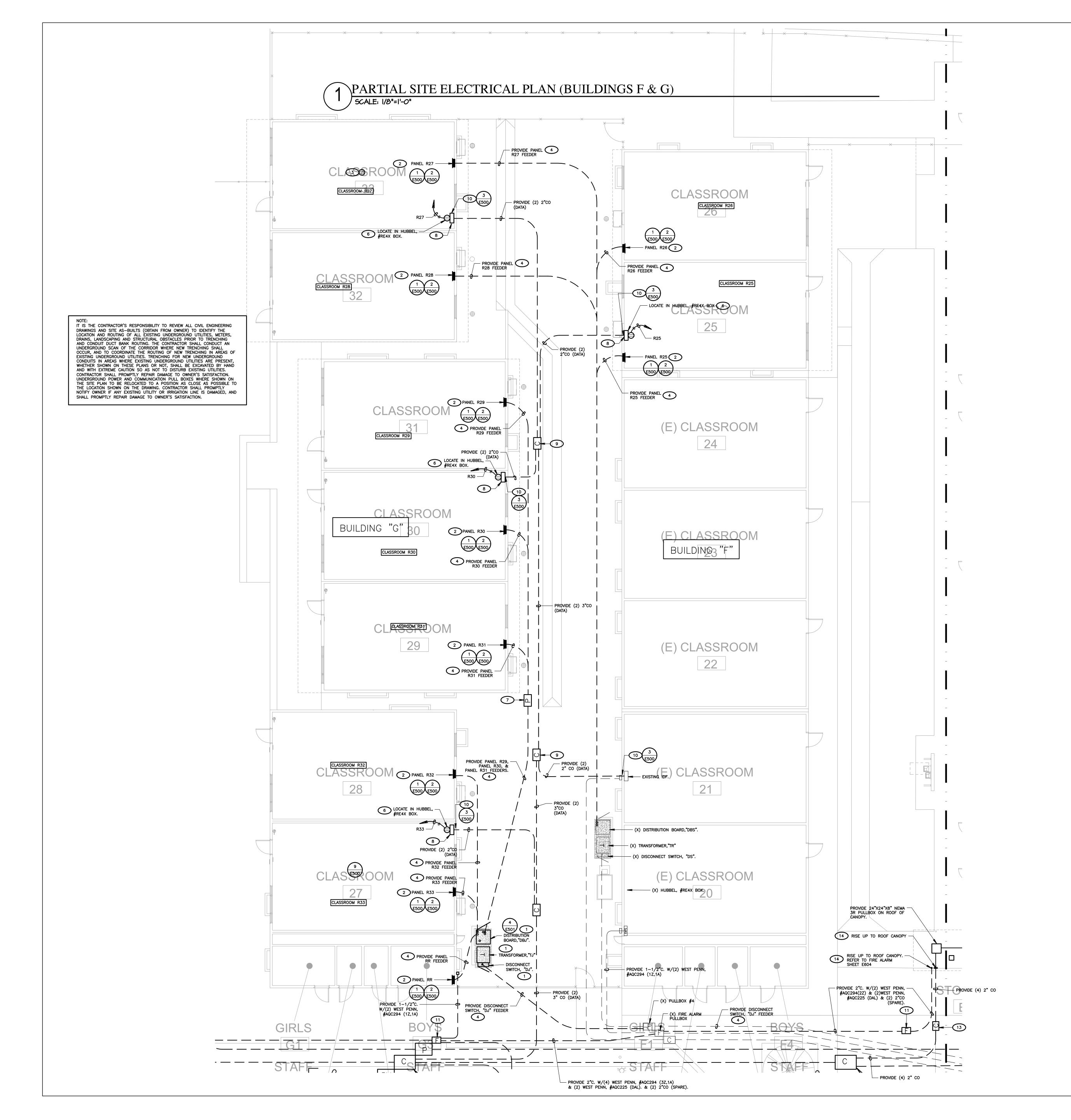
118934 DRAWN BY: VPZ ISSUE DATE:

PARTIAL SITE ELECTRICAL

PLAN (BUILDING L & J)

SHEET NUMBER





SHEET NOTES

- 1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
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- 4. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID
- REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH—IN, AND FINISH.

 5. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR
- (PERMIT SET) DRAWINGS.

 6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.

EXCEED ROUTING INDICATED ON DRAWINGS.

ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK

- 7. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
- SERVING UTILITY.

 8. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
- 9. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
- 10. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS.
- 11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.12. 1" CONDUIT MINIMUM UNDERGROUND.
- 13. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED. WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
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POWER PLAN KEY NOTES (E305) (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

 1 REFER TO PROPOSED SINGLE LINE DIAGRAM.
- BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE. VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
- PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING LIGHTING BRANCH CIRCUIT TO PROVIDE TITLE 24 COMPLIANT OCCUPANCY SENSOR CONTROL. PROVIDE ALL REQUIRED RELAYS, POWER PACKS, & SENSORS FOR A COMPLETE SYSTEM.
- FOR FEEDER INFORMATION REFER TO SINGLE LINE
- PROVIDE (1) 20/1P CIRCUIT BREAKER IN EXISTING SPACE OR USE SPARE 20/1P CIRCUIT BREAKER. THE CIRCUIT BREAKER SHALL HAVE A RED MARKING & BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". PROVIDE A LOCK-ON DEVICE ON THE CIRCUIT BREAKER HANDLE. CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE "FACP" & "EVAC". PROVIDE SURGE SUPPRESSORS ON THE INPUT OF CONTROL PANELS, EXCEPT FOR CONTROL PANELS WITH BUILT-IN SURGE SUPPRESSORS.
- 6 PROVIDE TVSS TYPE 120V,20A RECEPTACLE. LOCATE IN RE4 XBOX.
- PROVIDE 13"X24" TRAFFIC RATED PULLBOX. WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC"
 #B1324BOX WITH B1324-51JH COVER, BY CHRISTY
- 8 PROVIDE HUBBEL, #RE4XBOX.
- PROVIDE 13"X24" TRAFFIC RATED PULLBOX. WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "COMMUNICATION". #B1324BOX WITH B1324-51JH COVER, BY CHRISTY CONCRETE.
- 10 RISE UP TO SIGNAL TERMINAL CABINET.
- PROVIDE 17"X30" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM". #B1730BOX, WITH #B1730-51JH COVER
- PROVIDE 13"X24" TRAFFIC RATED PULLBOX. WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "COMMUNICATION" #B1324BOX WITH B1324-51JH COVER, BY CHRISTY CONCRETE.
 - BY CHRISTY CONCRETE.

 RISE UP ALONGSIDE STEEL SUPPORT COLUMN ATTACHED TO CANOPY. PROVIDE ALL REQUIRED SUPPORTS, UNISTRUT ASSEMBLIES, ETC. IN ORDER TO TRANSITION CONDUIT IN—GRADE, AS SHOWN. VERIFY EXACT LOCATION IN THE FIELD.

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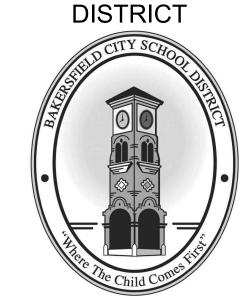
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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020
SHEET TITLE	

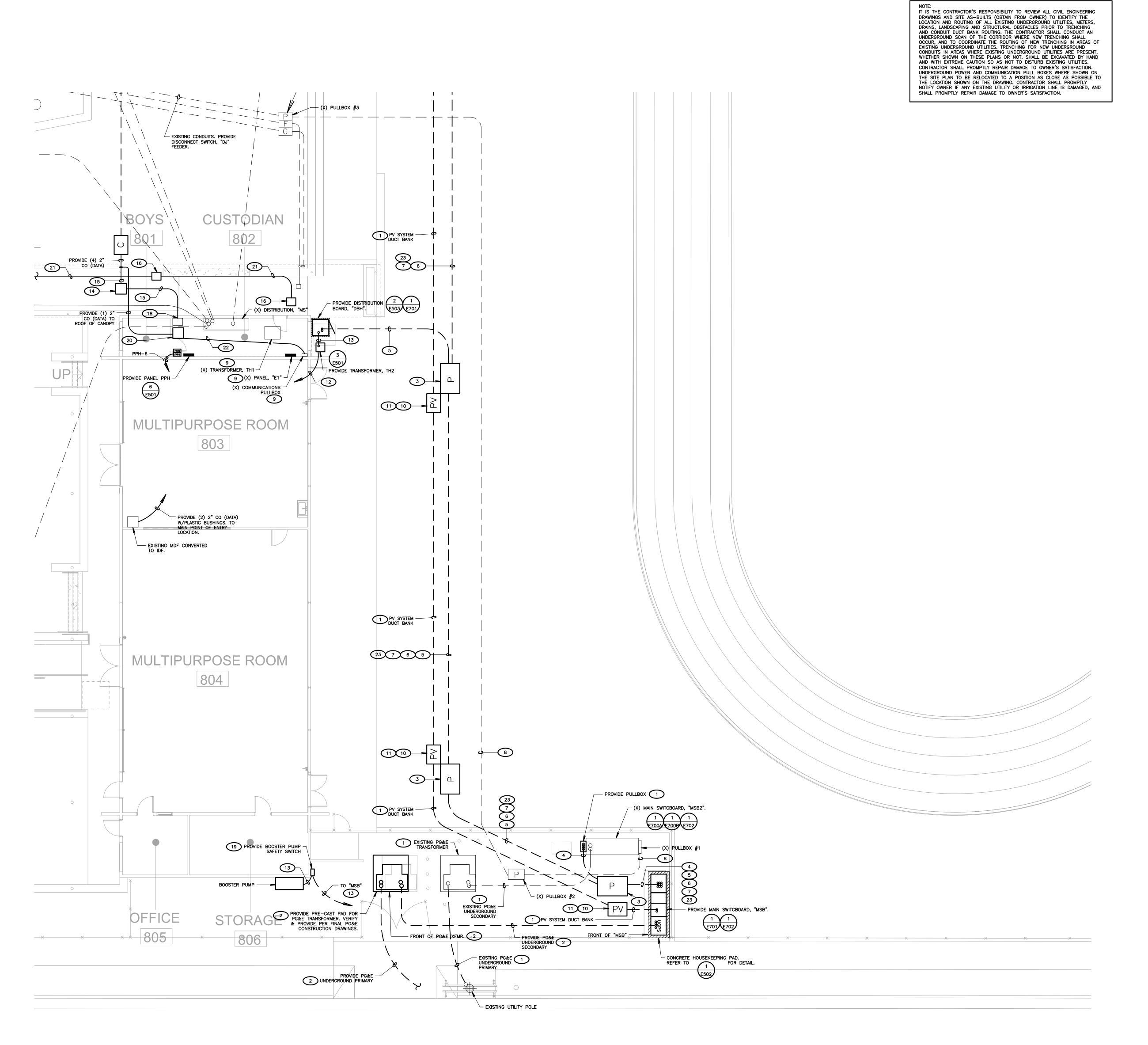
PARTIAL
SITE ELECTRICAL
PLAN
(BUILDINGS F & G)

SHEET NUMBER

E305

Know what's below.

Call before you dig.



SHEET NOTES

- 1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE
 ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES
 AT LEAST 2 WORKING DAYS PRIOR TO DIGGING.
 CONTRACTOR SHALL FIELD VERIFY LOCATION AND
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 4. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID

PROPOSAL, ROUGH-IN, AND FINISH.

- 5. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- 6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
- 8. ALL SERVICE ENTRANCE EQUIPMENT SHOP
 DRAWINGS SHALL BE SUBMITTED TO THE LOCAL
 UTILITY COMPANY FOR APPROVAL, WITH WRITTEN
 APPROVAL RECEIVED PRIOR TO SUBMISSION TO
- 9. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.

ELECTRICAL ENGINEER FOR APPROVAL.

- MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS.
- 11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.12. 1" CONDUIT MINIMUM UNDERGROUND.
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KEY NOTES (E307)
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

- 1 REFER TO SINGLE LINE DIAGRAM.
- ALL WORK & LOCATIONS SHALL BE COORDINATED WITH FINAL PG&E CONSTRUCTION DRAWINGS PRIOR TO STARTING CONSTRUCTION. VERIFY & PROVIDE ALL WORK PER PG&E COMPANY REQUIREMENTS.
- PROVIDE 3'X5'X4' TRAFFIC RATED VAULT, WITH STEEL DIAMOND PLATE COVER ENGRAVED WITH "ELECTRIC". EDISON 3548FP, BY OLD CASTLE PRECAST.
- EDISON 3548FP, BY OLD CASTLE PRECAST.

 4 PROVIDE MAIN SWITCHBOARD, "MSB2", FEEDER.
- 5 PROVIDE DISTRIBUTION BOARD, "DBH", FEEDER.
 6 PROVIDE PANEL A1, PANEL B1, & PANEL C1 FEEDERS.
 7 PROVIDE I—PAC K, FEEDER.
- 8 PROVIDE DISCONNECT SWITCH, "DJ" FEEDER.

 9 LOCATED ON ROOF.

 10 PROVIDE 24"X36" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "PV SYSTEM". CHRISTY CONCRETE, #B2436BOX WITH
- #B2436-51JH COVER.

 VERIFY & PROVIDE WITH FINAL PV SYSTEM VENDOR'S SHOP DRAWINGS & APPROVED SUBMITTALS. SHOWN FOR
- INFORMATION ONLY.
- PROVIDE PANEL PPH FEEDER. CORE THRU EXISTING WALL & PATCH. SEAL WEATHERTIGHT. REFER TO SINGLE LINE DIAGRAM.

 13 PROVIDE FEEDER. REFER TO SINGLE LINE DIAGRAM.
- PROVIDE NEMA 3R PULLBOX, 24X24X6, TIGHT TO UNDERSIDE OF CANOPY.
- PROVIDE (3) 2" CO (DATA) TO UNDERSIDE OF CANOPY.

 PROVIDE NEMA 3R, FATC, ON ROOFTOP OF CANOPY.
- PROVIDE NEMA 3R, FATC, ON ROOFTOP OF CANOPY.
 COORDINATE EXACT LOCATION TO SUIT FIELD CONDITIONS.
 6X6X4 NEMA 3R PULLBOX W/TERMINAL BLOCKS.

 RISE UP ALONGSIDE STEEL SUPPORT COLUMN ATTACHED
 TO CANOPY. PROVIDE ALL REQUIRED SUPPORTS, UNISTRUT
 ASSEMBLIES, ETC. IN ORDER TO TRANSITION CONDUIT
 IN—GRADE, AS SHOWN. VERIFY EXACT LOCATION IN THE
- CORE THRU WALL TO MAIN POINT OF ENTRY. PATCH & REPAIR, AS REQUIRED. PROVIDE PLASTIC BUSHINGS ON
- VERIFY & PROVIDE ALL WORK & LOCATIONS PER VENDOR'S SHOP DRAWINGS & APPROVED SUBMITTALS. EXACT LOCATION SHALL BE VERIFIED W/ARCHITECTURAL & LANDSCAPE PLANS.
- PROVIDE NEMA 3R PULLBOX, 24X24X6 ON ROOF OF COVERED CANOPY.
- PROVIDE CONDUIT ROUTED ALONG ROOF CANOPY WITH AUDIBLE CIRCUIT A2 & Z2. PROVIDE 1"C W/(2) WEST PENN, #AQC294 (Z,A)
- PROVIDE 2" CO (DATA) ON ROOF OF COVERED CANOPY.
 PROVIDE (3) 3" CO SPARE.

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BAKERSFIELD CITY SCHOOL DISTRICT



BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKI	ERSFIELD, CA 93305
OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020
SHEET TITLE	

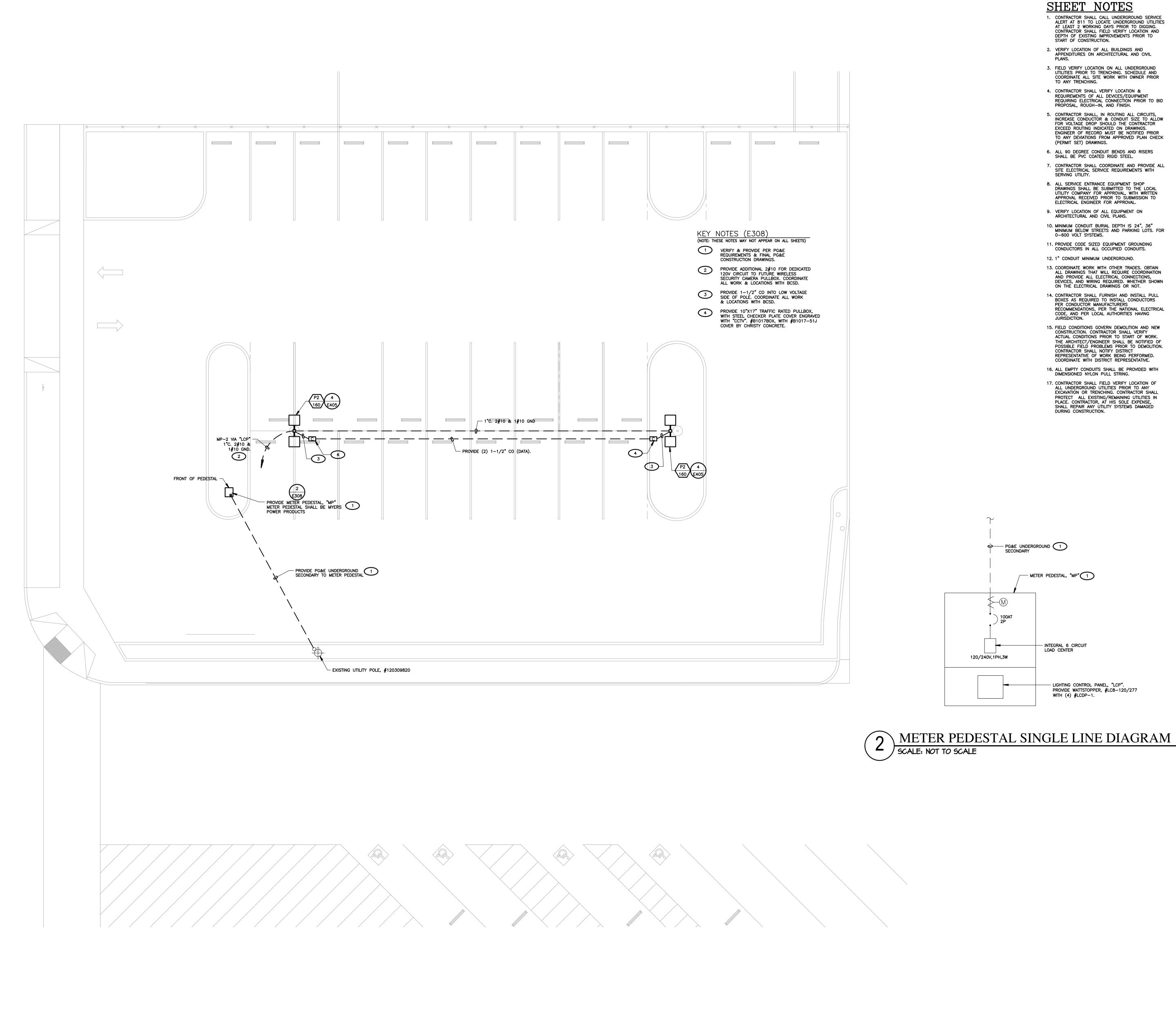
PARTIAL SITE ELECTRICAL PLAN

SHEET NUMBER

E307

Know what's below.

Call before you dig.



1 PARTIAL SITE ELECTRICAL PLAN

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

NOTE:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CIVIL ENGINEERING DRAWINGS AND SITE AS—BUILTS (OBTAIN FROM OWNER) TO IDENTIFY THE LOCATION AND ROUTING OF ALL EXISTING UNDERGROUND UTILITIES, METERS, DRAINS, LANDSCAPING AND STRUCTURAL OBSTACLES PRIOR TO TRENCHING AND CONDUIT DUCT BANK ROUTING. THE CONTRACTOR SHALL CONDUCT AN UNDERGROUND SCAN OF THE CORRIDOR WHERE NEW TRENCHING SHALL OCCUR, AND TO COORDINATE THE ROUTING OF NEW TRENCHING IN AREAS OF EXISTING UNDERGROUND UTILITIES. TRENCHING FOR NEW UNDERGROUND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE PRESENT, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE EXCAVATED BY HAND AND WITH EXTREME CAUTION SO AS NOT TO DISTURB EXISTING UTILITIES. CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION. UNDERGROUND POWER AND COMMUNICATION PULL BOXES WHERE SHOWN ON THE SITE PLAN TO BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWING. CONTRACTOR SHALL PROMPTLY NOTIFY OWNER IF ANY EXISTING UTILITY OR IRRIGATION LINE IS DAMAGED, AND SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION.



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BAKERSFIELD CITY SCHOOL DISTRICT



BESSIE OWENS JUNIOR HIGH MODERNIZATION 815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:

PROJECT NO: 118934

DRAWN BY: VPZ

CHK'D BY: DF

ISSUE DATE: 3/3/2020

PARTIAL SITE ELECTRICAL PLAN

SHEET NUMBER

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DATE: 03/27/2020

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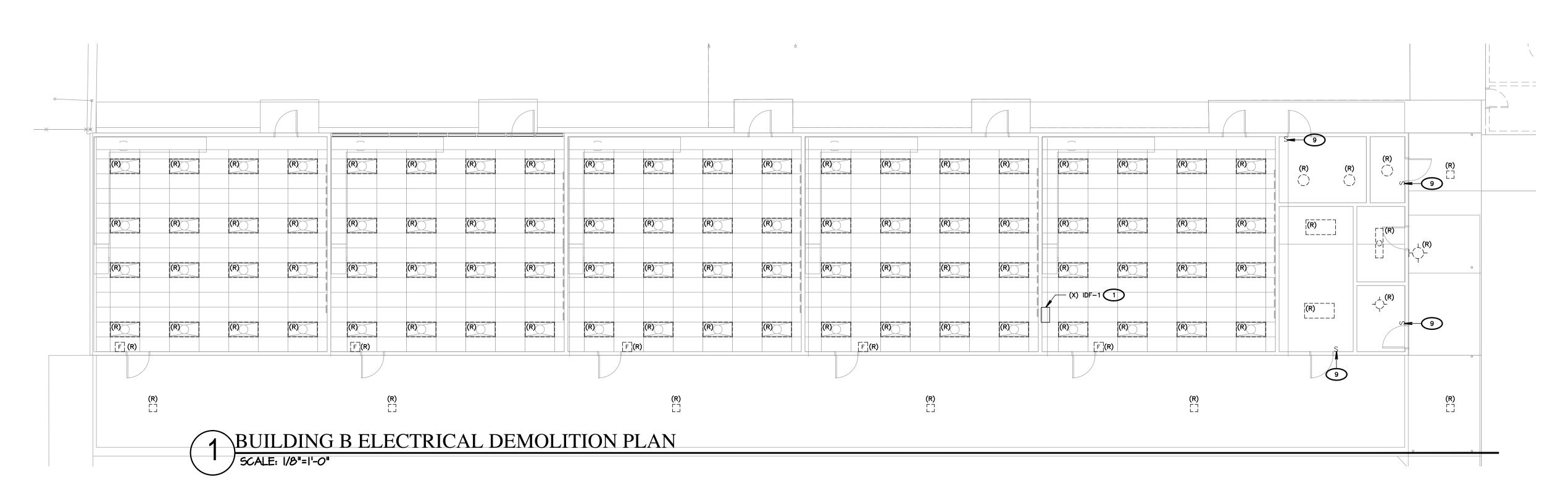
BESSIE OWENS JUNIOR HIGH MODERNIZATION 815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO: PROJECT NO: 118934 DRAWN BY: VPZ CHK'D BY: DF ISSUE DATE: 3/3/2020

BUILDING B LIGHTING DEMOLITION/LIGHTING PLAN

SHEET NUMBER

SHEET TITLE



TYPICAL $\frac{L1}{53}$

• 0

<u>_</u>7

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

2 BUILDING B LIGHTING PLAN

LINE INDICATES DAYLIT --CONTROL ZONE.

- INTERCEPT (X) BRANCH LIGHTING CIRCUIT IN ACCESSIBLE CEILING SPACE, COORDINATE EXACT POINT OF INTERCEPTION IN THE FIELD. INTERCEPT (X) BRANCH LIGHTING CIRCUIT IN ACCESSIBLE CEILING SPACE, COORDINATE EXACT POINT OF INTERCEPTION IN THE FIELD. INTERCEPT (X) BRANCH LIGHTING CIRCUIT IN ACCESSIBLE CEILING SPACE. COORDINATE EXACT POINT OF INTERCEPTION IN THE FIELD. - INTERCEPT (X) BRANCH LIGHTING CIRCUIT IN ACCESSIBLE CEILING SPACE, COORDINATE EXACT POINT OF INTERCEPTION IN THE FIELD. INTERCEPT (X) BRANCH LIGHTING CIRCUIT IN ACCESSIBLE CEILING SPACE, COORDINATE EXACT POINT OF INTERCEPTION IN THE FIELD. TYPICAL 49 2 , M 6 3 **4** 3 **d** 3 7 7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL • a • a • a 6 11 7 7 7 7

> KEYNOTES
>
> (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS) LIGHT FIXTURE LOCATED IN DAYLIT ZONE SHALL BE CONTROLLED BY SENSOR

W/DAYLIGHT CONTROL.

PROVIDE 1" C. EMT TO ACCESSIBLE CEILING SPACE W/PLASTIC BUSHING(S). PROVIDE ALL REQUIRED PRE—TERMINATED NLIGHT CATS CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S

INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE

PROVIDE PRE—TERMINATED LIGHT CATS
CABLES & CONNECT DEVICES. VERIFY &
PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE

4 INTERCEPT EXISTING RESTROOM BRANCH LIGHTING CIRCUIT HOT & NEUTRAL.

PROVIDE CEILING MOUNT OCCUPANCY
SENSOR. SENSOR SWITCH, #CMR-PDT-10.
SET TIME DELAY TO 30 MINUTES. PROGRAM
FOR AUTO-ON.

6 PROVIDE WALL SWITCH OCCUPANCY SENSOR. SENSOR SWITCH, #WSX-PDT-WH.

CONNECT LIGHT FIXTURE TO EXISTING BRANCH CIRCUIT AT SAME LOCATION OF REMOVED LIGHT FIXTURE. 8 NOT USED

9 REMOVE SWITCH & REPLACE WITH OCCUPANCY SENSOR SWITCH. SEE LIGHTING PLAN.

LIGHTING CONTROL SWITCH, "LCS". PROVIDE TORK ASTRO-CLOCK TIME SWITCH. COORDINATE PROGRAMMING W/DISTRICT. TORK, #S\$703Z.

PROVIDE ALL WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING BRANCH CIRCUIT HOMERUN & RE-ROUTE TO EXISTING 120V BRANCH CIRCUIT VIA "LCS" IN CLASSROOM.

12 BLANK OFF SWITCH.

CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE, OR PANELBOARD. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS PEOLIBED. CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICE, IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION. RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.

DEMOLITION LEGEND

EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE. IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.

ELECTRICAL DEMOLITION PLAN NOTES

1 PROTECT IN PLACE

LIGHTING SHEET NOTES 1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN

AND FINISH INSTALLATION. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY

DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS. 3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER

4. 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED. 5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY

SUPPORTED WITH SAFETY CABLES, PROVIDED BY

6. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.

LIGHTING HOMERUNS. 8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE

9. CONTRACTOR SHALL PROVIDE ALL BACKING BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.

10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.

12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.

13. GRAPHICS / SIGNAGE: VERIFY & PROVIDE CONNECTION TO SIGNAGE PER VENDOR'S SHOP DRAWINGS. VERIFY SIGN LOCATION, MOUNTING ELEVATION AND BRANCH CIRCUIT REQUIREMENTS

14. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED BY STATE OF CALIFORNIA TITLE 24 REGULATIONS.

15. PROVIDE ALL REQUIRED DEVICE COVER PLATES.

LIGHTING LEGEND

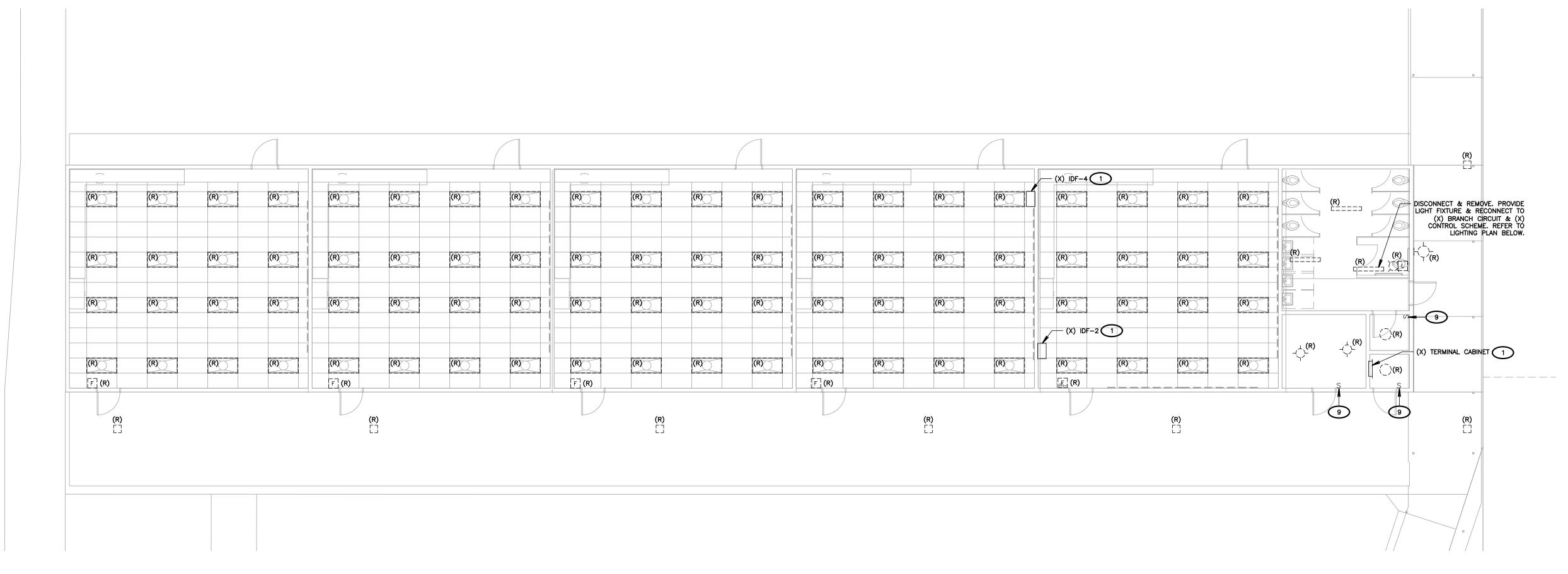
PROVIDE nLIGHT, #nPODM-2P-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

PROVIDE nLIGHT, #nPODM-4S-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. TEACHERS STATION. VERIFY EXACT LOCATION W/ARCH.

OS OCCUPANCY SENSOR WITH DAYLIGHT CONTROL, CEILING MOUNTED. PROVIDE nLIGHT, #nCMPDT-10-RJB-ADCX. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE nLIGHT, #nCMPDT-10-RJB. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

PROVIDE POWER/RELAY PACK IN ACCESSIBLE CEILING SPACE. PROVIDE nLIGHT, #nPP16-D-EFP.

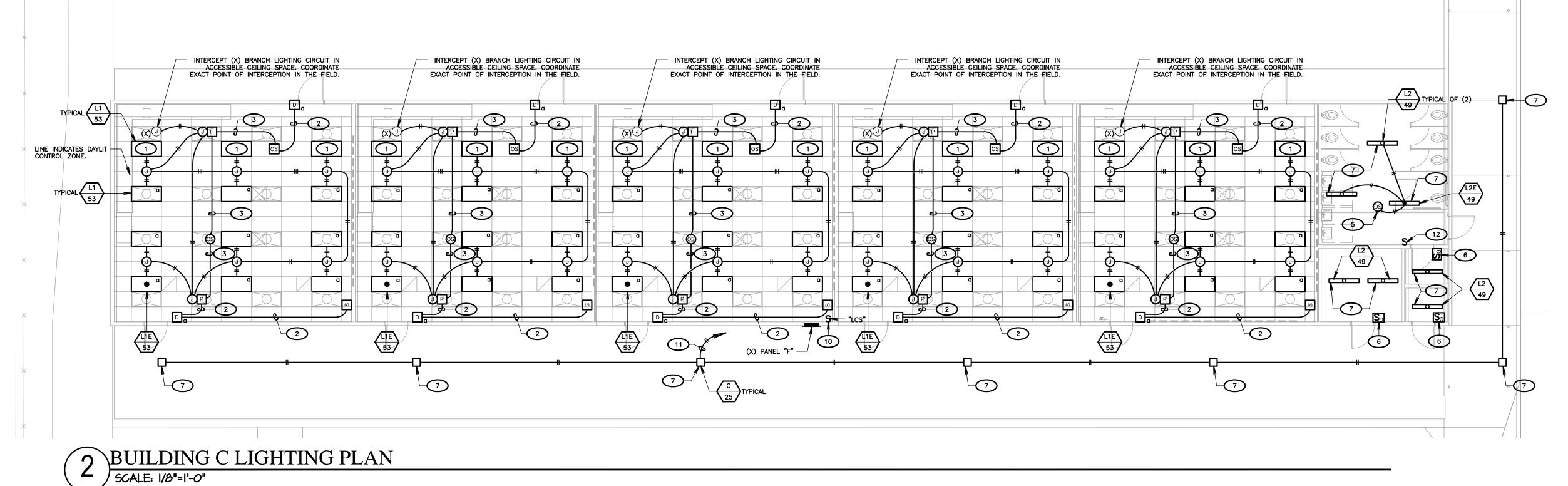


DEMOLITION LEGEND EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE. IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED. CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE, OR PANELBOARD. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED. CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICE, IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION. RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.

ELECTRICAL DEMOLITION PLAN NOTES

1 PROTECT IN PLACE

1 BUILDING C ELECTRICAL DEMOLITION PLAN SCALE: 1/8"=1'-0"



LIGHTING LEGEND

- PROVIDE nLIGHT, #nPODM-2P-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE nLIGHT, #nPODM-4S-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. TEACHERS STATION. VERIFY EXACT LOCATION W/ARCH.
- OS OCCUPANCY SENSOR WITH DAYLIGHT CONTROL, CEILING MOUNTED. PROVIDE nLIGHT, #nCMPDT-10-RJB-ADCX. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE nLIGHT, #nCMPDT-10-RJB. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE POWER/RELAY PACK IN ACCESSIBLE CEILING SPACE. PROVIDE nLIGHT, #nPP16-D-EFP.

<u>LIGHTING</u>

LIGHT FIXTURE LOCATED IN DAYLIT ZONE SHALL BE CONTROLLED BY SENSOR W/DAYLIGHT CONTROL.

KEYNOTES /
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

- PROVIDE 1" C. EMT TO ACCESSIBLE CEILING
 SPACE W/PLASTIC BUSHING(S).
 PROVIDE ALL REQUIRED PRE—TERMINATED
 nLIGHT CAT5 CABLES & CONNECT DEVICES.
 VERIFY & PROVIDE PER NOUNCETURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
- PROVIDE PRE-TERMINATED LIGHT CATS
 CABLES & CONNECT DEVICES. VERIFY &
 PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE
- INTERCEPT EXISTING RESTROOM BRANCH LIGHTING CIRCUIT HOT & NEUTRAL. PROVIDE CEILING MOUNT OCCUPANCY
 SENSOR. SENSOR SWITCH, #CMR-PDT-10.
 SET THE DELAY TO 30 MINUTES. PROGRAM FOR AUTO-ON.
- 6 PROVIDE WALL SWITCH OCCUPANCY SENSOR. SENSOR SWITCH, #WSX-PDT-WH. CONNECT LIGHT FIXTURE TO EXISTING BRANCH CIRCUIT AT SAME LOCATION OF REMOVED LIGHT FIXTURE. 8 NOT USED
- 9 REMOVE SWITCH & REPLACE WITH OCCUPANCY SENSOR SWITCH. SEE LIGHTING LIGHTING CONTROL SWITCH, "LCS". PROVIDE TORK ASTRO-CLOCK TIME SWITCH. COORDINATE PROGRAMMING W/DISTRICT.
- TORK, #S\$703Z. PROVIDE ALL WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING BRANCH CIRCUIT HOMERUN & RE-ROUTE TO EXISTING 120V BRANCH CIRCUIT VIA "LCS"
- 12 BLANK OFF SWITCH.

- CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH INSTALLATION. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 4. 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED. 5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL 8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
- 9. CONTRACTOR SHALL PROVIDE ALL BACKING BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES. 10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- 11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT. 12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS. 13. GRAPHICS / SIGNAGE: VERIFY & PROVIDE
 CONNECTION TO SIGNAGE PER VENDOR'S SHOP
 DRAWINGS. VERIFY SIGN LOCATION, MOUNTING
 ELEVATION AND BRANCH CIRCUIT REQUIREMENTS
- 14. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED BY STATE OF CALIFORNIA TITLE 24 REGULATIONS. 15. PROVIDE ALL REQUIRED DEVICE COVER PLATES..

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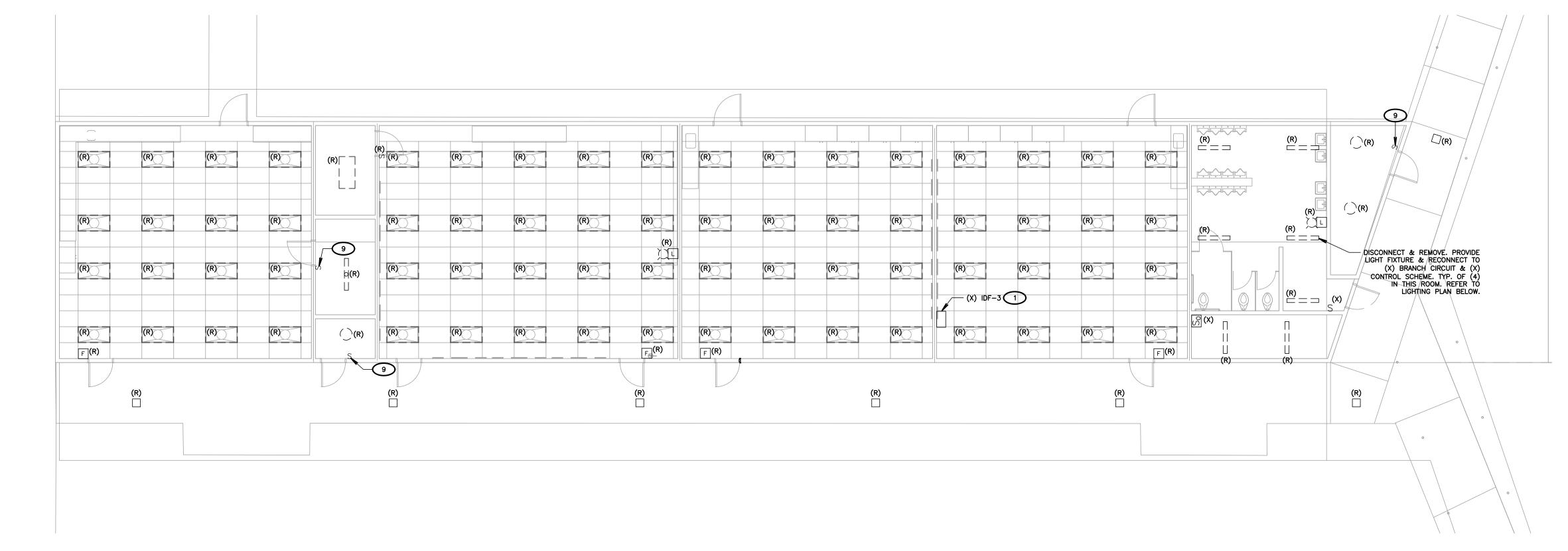


BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305 OPSC or OSHPD PROJ. NO: PROJECT NO: 118934 DRAWN BY: VPZ CHK'D BY: DF ISSUE DATE: 3/3/2020

> **BUILDING C LIGHTING DEMOLITION/LIGHTING PLAN**

SHEET NUMBER



DEMOLITION LEGEND

EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL,
TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE. IF DISTURBED
DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY
WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.

CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR
LIGHT FIXTURE. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT
CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE, OR PANELBOARD. IF
DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR
SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS
REQUIRED.

(RP)

CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR
LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH
CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICE, IN SAME
LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL
PLAN OR LIGHTING PLAN FOR MORE INFORMATION.

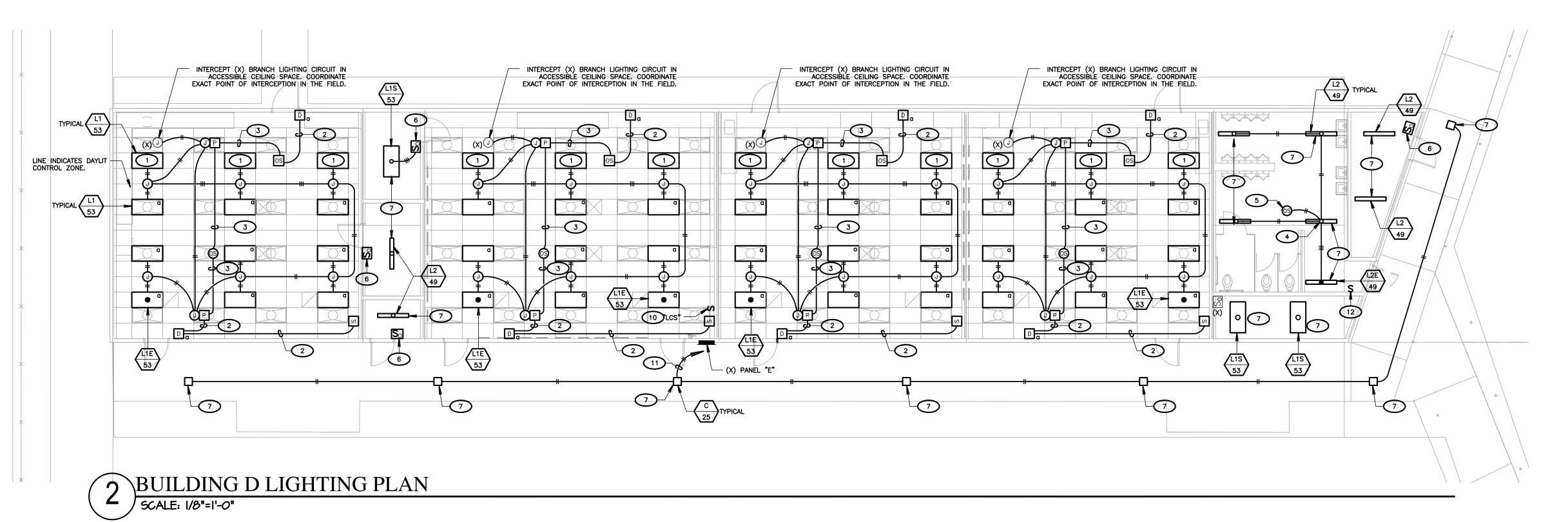
(RL)

RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE
EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND
RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE
ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY
BROKEN LAMPS IN LIGHT FIXTURE.

ELECTRICAL DEMOLITION PLAN NOTES
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1 PROTECT IN PLACE

BUILDING D ELECTRICAL DEMOLITION PLAN SCALE: 1/8"=1'-0"



KEYNOTES /
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS) LIGHT FIXTURE LOCATED IN DAYLIT ZONE SHALL BE CONTROLLED BY SENSOR W/DAYLIGHT CONTROL. PROVIDE 1" C. EMT TO ACCESSIBLE CEILING
SPACE W/PLASTIC BUSHING(S). PROVIDE ALL REQUIRED PRE-TERMINATED NLIGHT CATS CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE PROVIDE PRE-TERMINATED LIGHT CAT5
CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE. INTERCEPT EXISTING RESTROOM BRANCH LIGHTING CIRCUIT HOT & NEUTRAL. PROVIDE CEILING MOUNT OCCUPANCY SENSOR. SENSOR SWITCH, #CMR-PDT-10. SET TIME DELAY TO 30 MINUTES. PROGRAM 6 PROVIDE WALL SWITCH OCCUPANCY SENSOR. SENSOR SWITCH, #WSX-PDT-WH. CONNECT LIGHT FIXTURE TO EXISTING BRANCH CIRCUIT AT SAME LOCATION OF REMOVED LIGHT FIXTURE. 8 NOT USED 9 REMOVE SWITCH & REPLACE WITH OCCUPANCY SENSOR SWITCH. SEE LIGHTING PLAN. LIGHTING CONTROL SWITCH, "LCS". PROVIDE TORK ASTRO-CLOCK TIME SWITCH. COORDINATE PROGRAMMING W/DISTRICT. TORK, #S\$703Z. PROVIDE ALL WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING BRANCH CIRCUIT HOMERUN & RE-ROUTE TO EXISTING 120V BRANCH CIRCUIT VIA "LCS" IN CLASSROOM. 12 BLANK OFF SWITCH.

LIGHTING LEGEND

- PROVIDE nLIGHT, #nPODM-2P-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE nLIGHT, #nPODM-4S-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. TEACHERS STATION. VERIFY EXACT LOCATION W/ARCH.
- OS OCCUPANCY SENSOR WITH DAYLIGHT CONTROL, CEILING MOUNTED. PROVIDE nLIGHT, #nCMPDT-10-RJB-ADCX. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE nLIGHT, #nCMPDT-10-RJB. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE POWER/RELAY PACK IN ACCESSIBLE CEILING SPACE. PROVIDE nLIGHT, #nPP16-D-EFP.

LIGHTING SHEET NOTES

- CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH—IN AND FINISH INSTALLATION.
- 2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT
- SET) DRAWINGS.

 3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 4. 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED.
- 5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- 7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL
- 8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE
- SUPPORTS, AND MOUNTING HARDWARE NECESSARY T PROPERLY INSTALL LIGHTING FIXTURES.

 10. VERIFY THE EXACT ROUTING OF ALL EXPOSED

CONDUIT WITH OWNER PRIOR TO INSTALLATION.

9. CONTRACTOR SHALL PROVIDE ALL BACKING BRACKETS,

- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES,
- AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
 GRAPHICS / SIGNAGE: VERIFY & PROVIDE CONNECTION TO SIGNAGE PER VENDOR'S SHOP DRAWINGS. VERIFY SIGN LOCATION, MOUNTING ELEVATION AND BRANCH CIRCUIT REQUIREMENTS
- PRIOR TO ROUGH—IN.

 14. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED
- BY STATE OF CALIFORNIA TITLE 24 REGULATIONS.

 15. PROVIDE ALL REQUIRED DEVICE COVER PLATES..

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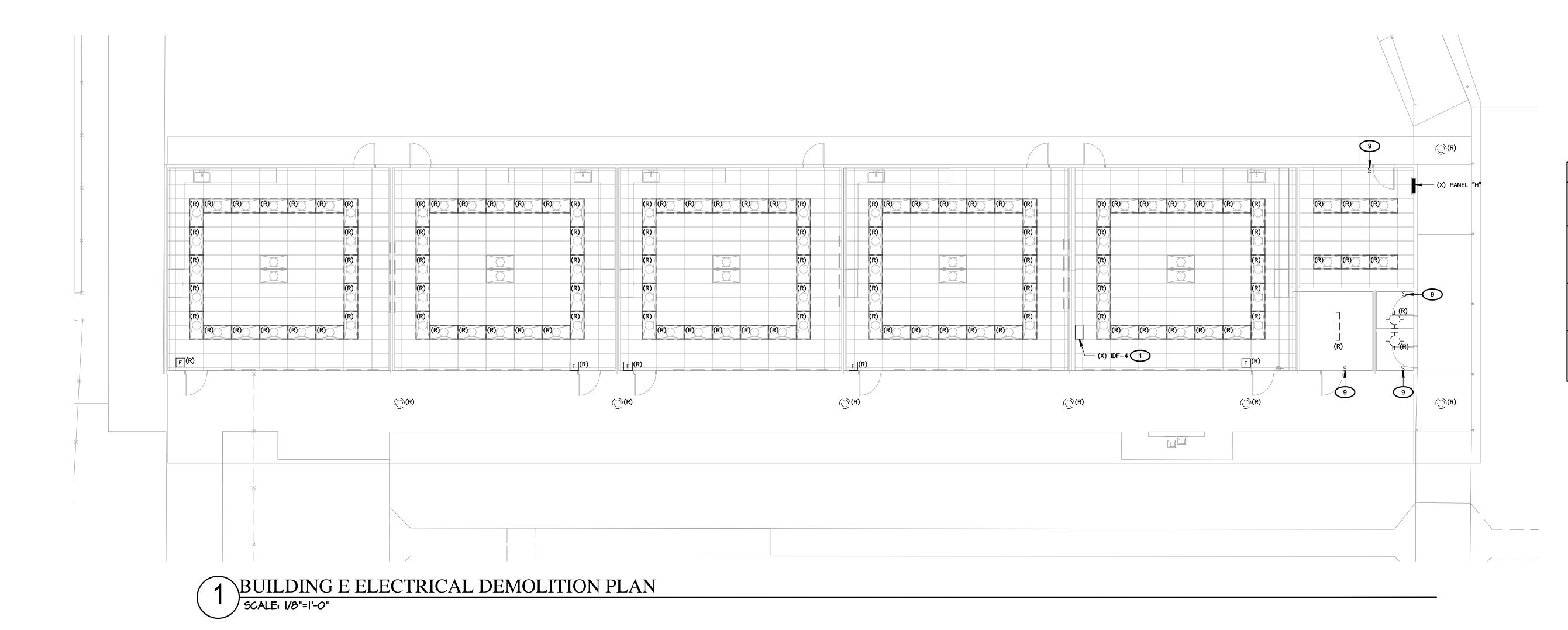
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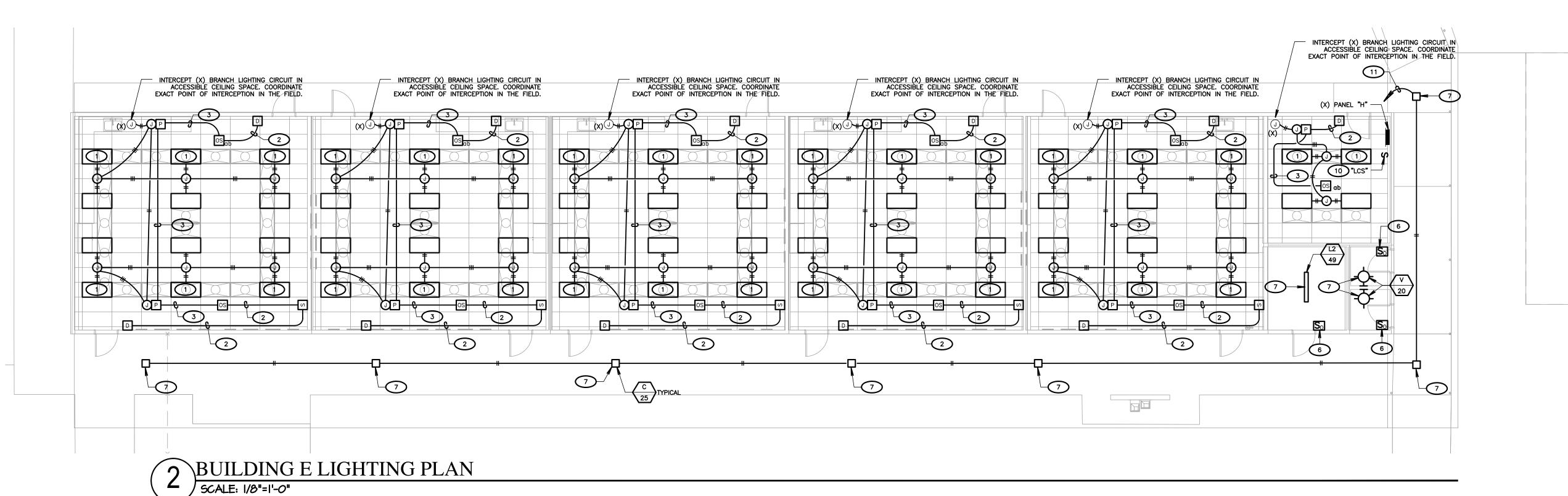
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BUILDING D LIGHTING DEMOLITION/LIGHTING PLAN

SHEET NUMBER





LIGHTING LEGEND

- PROVIDE nLIGHT, #nPODM-2P-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE nLIGHT, #nPODM-4S-DX-XX. VERIFY
 COLOR W/ARCH PRIOR TO ORDERING. PROVIDE
 1-GANG J-BOX & MOUNT PER MANUFACTURER'S
 INSTALLATION INSTRUCTIONS. TEACHERS STATION.
 VERIFY EXACT LOCATION W/ARCH.
- OCCUPANCY SENSOR WITH DAYLIGHT CONTROL,
 CEILING MOUNTED. PROVIDE nLIGHT,
 #nCMPDT-10-RJB-ADCX. MOUNT TO J-BOX PER
 MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE nLIGHT, #nCMPDT-10-RJB. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE POWER/RELAY PACK IN ACCESSIBLE CEILING SPACE. PROVIDE nLIGHT, #nPP16-D-EFP.

EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE. IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.

(R) CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE, OR PANELBOARD. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED.

(RP)

CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICE, IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION.

(RL)

RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.

ELECTRICAL DEMOLITION PLAN NOTES (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1 PROTECT IN PLACE

LIGHTING SHEET NOTE

SHEET NOTES

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH—IN AND FINISH INSTALLATION.

- 2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS
- 3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 4. 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED.
- ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
 ALL EXIT SIGNS ARE +12" TO CENTER LINE OF
- FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ALL BACKING BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
- 10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- 11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- 12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
- 13. GRAPHICS / SIGNAGE: VERIFY & PROVIDE
 CONNECTION TO SIGNAGE PER VENDOR'S SHOP
 DRAWINGS. VERIFY SIGN LOCATION, MOUNTING
 ELEVATION AND BRANCH CIRCUIT REQUIREMENTS

15. PROVIDE ALL REQUIRED DEVICE COVER PLATES..

PRIOR TO ROUGH—IN.

14. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED BY STATE OF CALIFORNIA TITLE 24 REGULATIONS.

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

- LIGHT FIXTURE LOCATED IN DAYLIT ZONE SHALL BE CONTROLLED BY SENSOR W/DAYLIGHT CONTROL.
- PROVIDE 1" C. EMT TO ACCESSIBLE CEILING—SPACE W/PLASTIC BUSHING(S).
 PROVIDE ALL REQUIRED PRE—TERMINATED INLIGHT CAT5 CABLES & CONNECT DEVICES.
 VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS, LOW VOLTAGE CABLING SHALL BE ROUTED ON J—HOOKS IN ACCESSIBLE CEILING SPACE.
- PROVIDE PRE-TERMINATED ILIGHT CAT5
 CABLES & CONNECT DEVICES. VERIFY &
 PROVIDE PER MANUFACTURER'S
 INSTALLATION INSTRUCTIONS. CONTRACTOR
 SHALL FIELD VERIFY ALL REQUIRED CABLE
 LENGTHS. LOW VOLTAGE CABLING SHALL BE
 ROUTED ON J-HOOKS IN ACCESSIBLE
 CEILING SPACE.
- INTERCEPT EXISTING RESTROOM BRANCH LIGHTING CIRCUIT HOT & NEUTRAL.
- PROVIDE CEILING MOUNT OCCUPANCY
 SENSOR. SENSOR SWITCH, #CMR-PDT-10.
 SET TIME DELAY TO 30 MINUTES. PROGRAM
 FOR AUTO-ON.
- 6 PROVIDE WALL SWITCH OCCUPANCY SENSOR. SENSOR SWITCH, #WSX-PDT-WH.
- CONNECT LIGHT FIXTURE TO EXISTING BRANCH CIRCUIT AT SAME LOCATION OF REMOVED LIGHT FIXTURE.
- 8 NOT USED
- 9 REMOVE SWITCH & REPLACE WITH OCCUPANCY SENSOR SWITCH. SEE LIGHTING
- LIGHTING CONTROL SWITCH, "LCS". PROVIDE TORK ASTRO-CLOCK TIME SWITCH. COORDINATE PROGRAMMING W/DISTRICT. TORK. #SS703Z.
- PROVIDE ALL WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING BRANCH CIRCUIT HOMERUN & RE-ROUTE TO EXISTING 120V BRANCH CIRCUIT VIA "LCS"
- IN CLASSROOM.

 12 BLANK OFF SWITCH.

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LIGHTING

SET) DRAWINGS.

SHEET NOTES

CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN

. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR

OF RECORD MUST BE NOTIFIED PRIOR TO ANY

3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS,

PER THE NATIONAL ELECTRICAL CODE, AND PER

4. 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED.

7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL

8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE

PROPERLY INSTALL LIGHTING FIXTURES.

10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.

CONNECTION TO SIGNAGE PER VENDOR'S SHOP DRAWINGS. VERIFY SIGN LOCATION, MOUNTING ELEVATION AND BRANCH CIRCUIT REQUIREMENTS

14. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED

BY STATE OF CALIFORNIA TITLE 24 REGULATIONS.

15. PROVIDE ALL REQUIRED DEVICE COVER PLATES..

KEYNOTES (BLDG H)

1 REMOVE EXISTING LIGHT FIXTURE AT THIS LOCATION. PROVIDE LICHT FIXTURE &

PROVIDE 3/4" C. EMT. PROVIDE ALL
REQUIRED PRE—TERMINATED nLIGHT CAT5
CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S

STARTING CONSTRUCTION.

EXISTING CONDUIT & CONDUCTORS. PROTECT IN PLACE.

TORK, #SS703Z.

LIGHTING CONTROL SWITCH, "LCS". PROVIDE TORK ASTRO-CLOCK TIME SWITCH.

PROVIDE ALL WORK & MATERIALS IN ORDER TO RE-ROUTE EXISTING EXTERIOR LIGHTING BRANCH CIRCUIT THRU TIME SWITCH.

6 PROVIDE WALL SWITCH OCCUPANCY SENSOR. SENSOR SWITCH, #WSX-PDT-WH.

CONNECT LIGHT FIXTURE TO EXISTING BRANCH CIRCUIT AT SAME LOCATION OF REMOVED LIGHT FIXTURE.

8 PROTECT EXISTING LIGHTING IN PLACE.

9 REMOVE SWITCH & REPLACE WITH OCCUPANCY SENSOR SWITCH. SEE LIGHTING

LIGHT FIXTURE SHALL BE CONTROLLED BY DAYLIGHT PHOTOSENSOR.

POWER PACK DEDICATED FOR DAYLIGHTING CONTROL.

PROVIDE nLIGHT, #nPODM-2P-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE

S PROVIDE nLIGHT, #nPODM-4S-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE

CORNER MOUNT OCCUPANCY SENSOR. PROVIDE nLIGHT, #nWVPDT-16. MOUNT AT 9FT AFF PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

PROVIDE POWER/RELAY PACK IN ACCESSIBLE CEILING SPACE. PROVIDE nLIGHT, #nPP16-D-EFP.

OCCUPANCY SENSOR WITH DAYLIGHT CONTROL, CEILING MOUNTED. PROVIDE nLIGHT, #nCMPDT-10-RJB-ADCX. MOUNT TO J-BOX PER

MANUFACTURER'S INSTALLATION INSTRUCTIONS.

VERIFY EXACT LOCATION W/ARCH.

PROVIDE RJ-45 SPLITTER.

LIGHTING LEGEND (BLDG H)

1-GANG J-BOX & MOUNT PER MANUFACTURER'S

1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. TEACHERS STATION.

LOCATION. PROVIDE LIGHT FIXTURE &
RECONNECT TO EXISTING BRANCH CIRCUIT.

INSTALLATION INSTRUCTIONS. CONTRACTOR

SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. CONTRACTOR SHALL WALK JOB

WITH BCSD REPRESENTATIVE IN ORDER 1

DETERMINE EXACT ROUTING OF EXPOSED SURFACE MOUNTED CONDUIT PRIOR TO

13. GRAPHICS / SIGNAGE: VERIFY & PROVIDE

ELECTRICAL DRAWINGS OR NOT.

9. CONTRACTOR SHALL PROVIDE ALL BACKING BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY T

11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE

5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY

6. VERIFY LOCATION OF ALL DEVICES ON

ARCHITECTURAL PLANS.

LIGHTING HOMERUNS.

DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT

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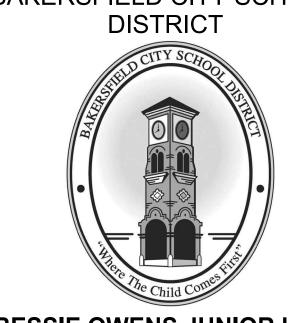
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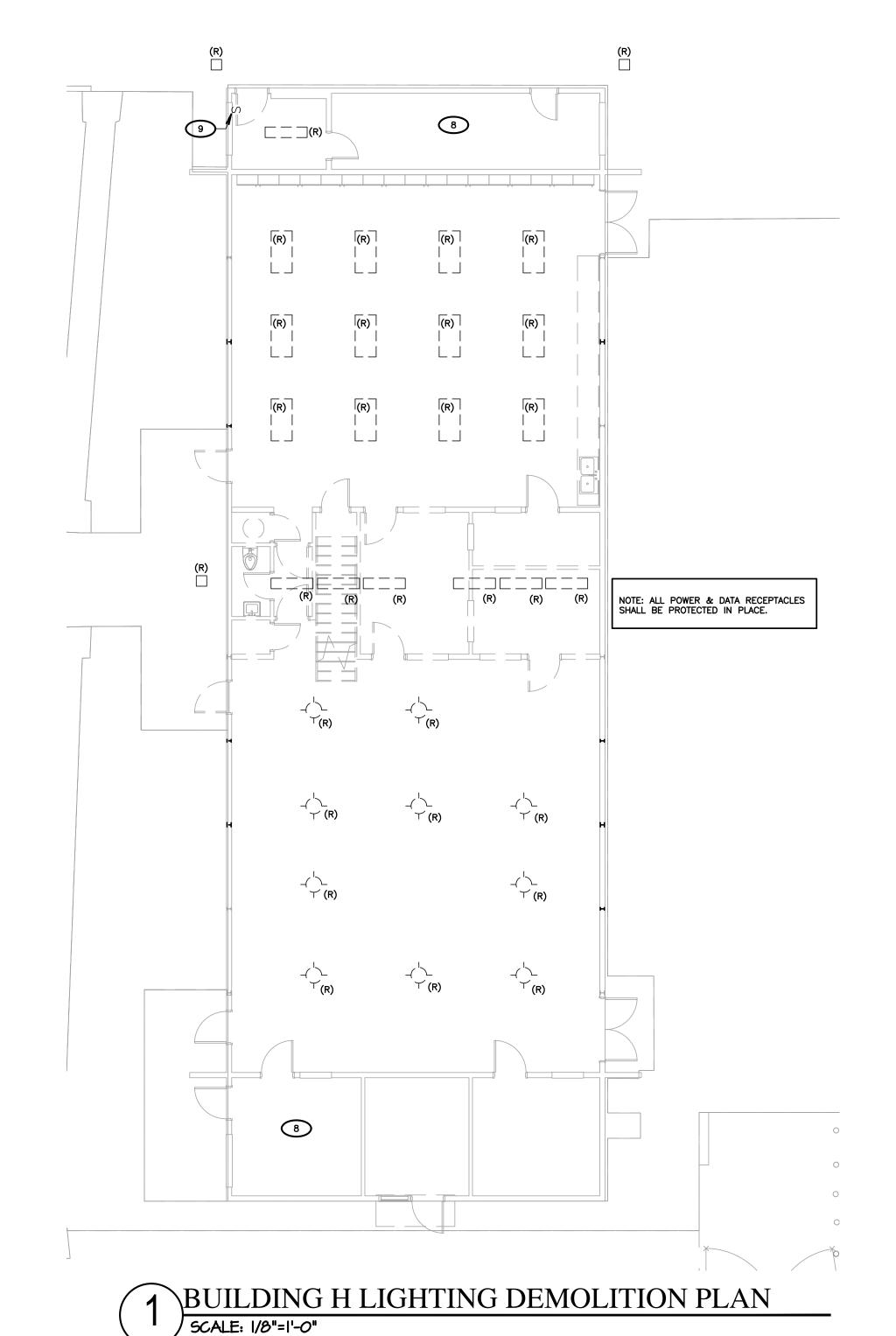
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DEMOLITION LEGEND EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE. IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED. CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE, OR PANELBOARD. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED. CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICE, IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION. RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE, RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY



ELECTRICAL DEMOLITION FOR REMODELING

EXAMINATION:
OBTAIN RECORD DRAWINGS / AS-BUILTS FROM OWNER. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS SHOWN ON RECORD DRAWINGS.

VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.

DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO OWNER AND ARCHITECT/ENGINEER BEFORE DISTURBING EXISTING INSTALLATION. BEGINNING OF DEMOLITION MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.

PREPARATION
DISCONNECT AND MAKE SAFE ALL ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

COORDINATE ELECTRICAL SERVICE OUTAGES WITH OWNER'S REPRESENTATIVE. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN REQUIRED EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.

EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER AT LEAST 72 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA WHEN OUTAGE AFFECTS BUSINESS OPERATION.

EXISTING FIRE ALARM SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE. EXISTING TELEPHONE SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE.

EXISTING SECURITY SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE.

DEMOLITION AND EXTENSION OF EXISTING WORK DEMOLISH AND EXTEND EXISTING ELECTRICAL WORK UNDER PROVISIONS OF THIS SECTION.

REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY AND RE-LABEL DEVICES AS SPARES.

REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.

DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.

DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.

DISCONNECT AND REMOVE ABANDONED CONDUIT.

REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.

MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, AND IN COMPLIANCE WITH NEW PROJECT SPECIFICATIONS.

MODIFY EXISTING AS-BUILT DRAWINGS TO NOTE CHANGES.

CLEANING AND REPAIR

CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED.

PANELBOARDS: CLEAN EXPOSED SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT. LUMINAIRES: REMOVE EXISTING LUMINAIRES, WHERE SCHEDULED TO REMAIN, FOR CLEANING. USE MILD DETERGENT TO CLEAN ALL EXTERIOR AND INTERIOR SURFACES; RINSE WITH CLEAN WATER AND WIPE DRY. REPLACE LAMPS, BALLASTS, AND BROKEN ELECTRICAL PARTS. <u>INSTALLATION</u>

INSTALL RELOCATED MATERIALS AND AS REQUIRED BY THIS SECTION AND OWNER'S REPRESENTATIVE.

EXISTING WOOD CEILING JOISTS. — SCREWS. PROVIDE 4" OCTAAGONAL PROVIDE SURFACE CONDUIT, AS -- PROVIDE CANOPY COVER. - PROVIDE LENGTH SUCH THAT BOTTOM OF LIGHT FIXTURE IS AT HEIGHT SPECIFIED IN LIGHT FIXTURE SCHEDULE. - PROVIDE POWER CORD. PROVIDE AIRCRAFT CABLE. PROVIDE AIRCRAFT CABLE. PROVIDE LIGHT FIXTURE
 18 LBS. - BOTTOM OF LIGHT FIXTURE

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BUILDING H LIGHTING PLAN

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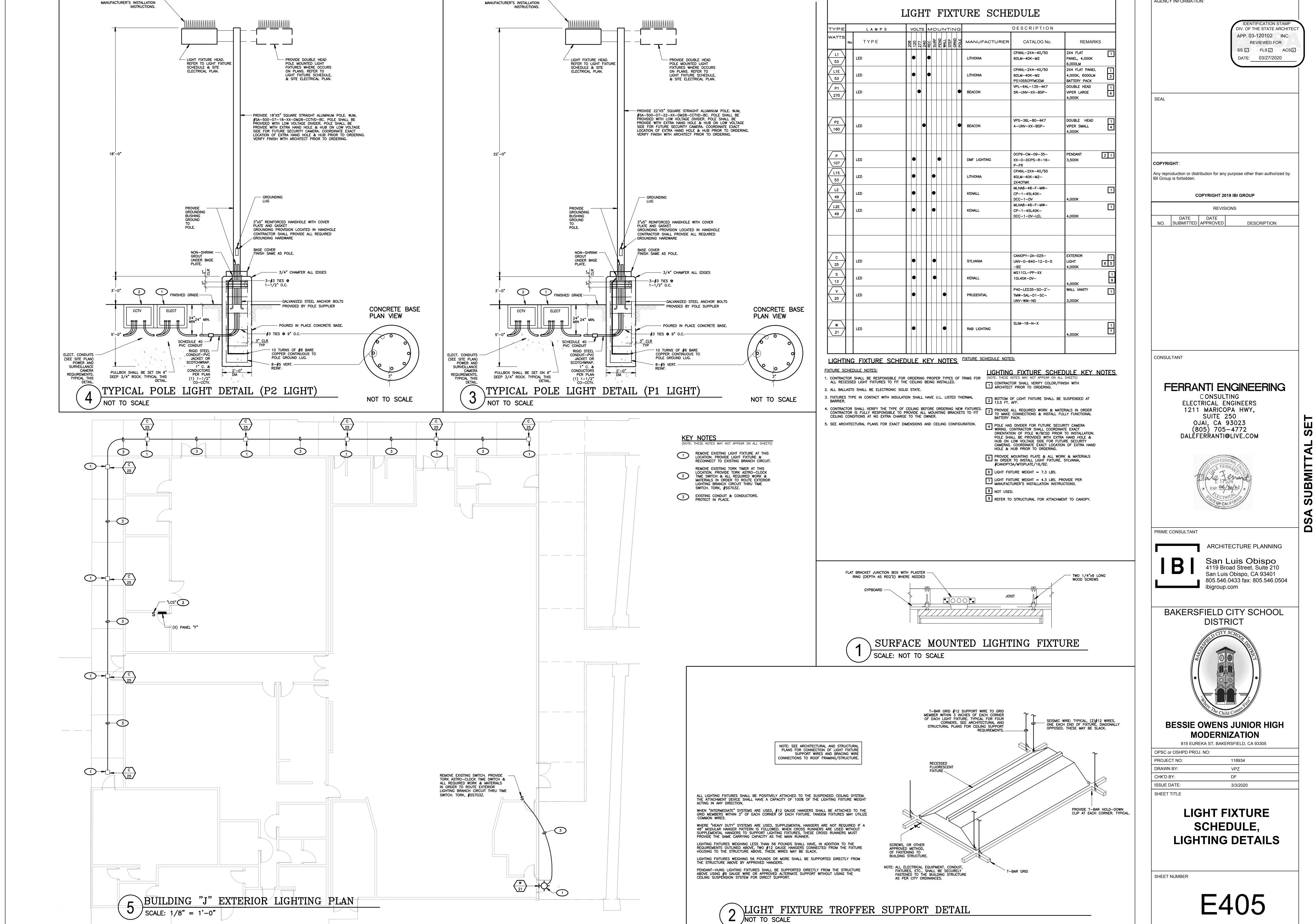
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TYPICAL PENDANT LIGHT MOUNTING DETAIL

EXISTING WOOD CEILING JOISTS. — PROVIDE (3) MIN, #8 WOOD SCREWS. PROVIDE 4" OCTAAGONAL PROVIDE SURFACE CONDUIT - WITH nLIGHT CAT5 CABLE, AS PROVIDE SWIV-L DROP CANOPY HANGER WITH SWAY ADAPTER THAT ALLOWS 45 DEGREES LATERAL MOVEMENT. - PROVIDE LENGTH SUCH THAT BOTTOM OF DAYLIGHT SENSOR IS AT 14.5 FEET ABOVE FINISHED FLOOR. PROVIDE CONDUIT WITH REQUIRED nLIGHT CAT5 CABLE. — PROVIDE OCTAGONAL J—BOX. - PROVIDE DAYLIGHTING SENSOR.

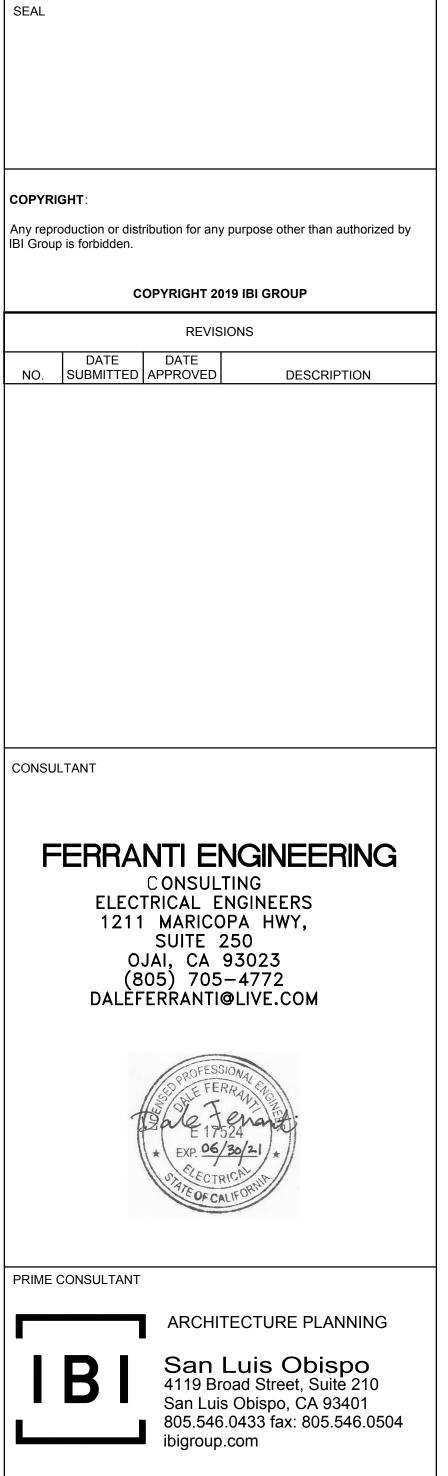
TYPICAL DAY LIGHT SENSOR MOUNTING DETAIL $\left(4\right)$ SENSOR MOUNT SCALE: NOT TO SCALE



PROVIDE "BIRD DETERRANT" PER -

SUBMITTAL

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118934

3/3/2020

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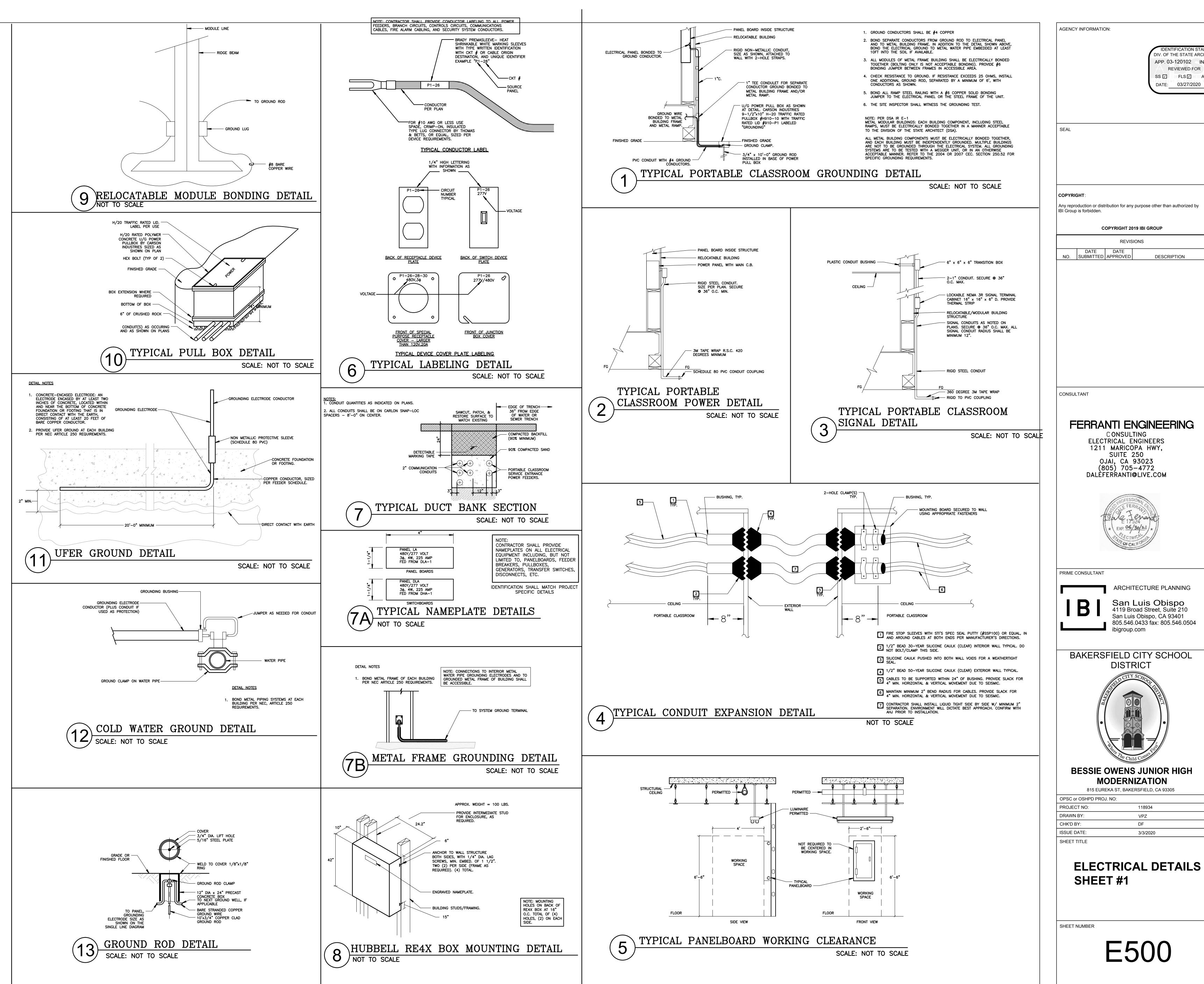
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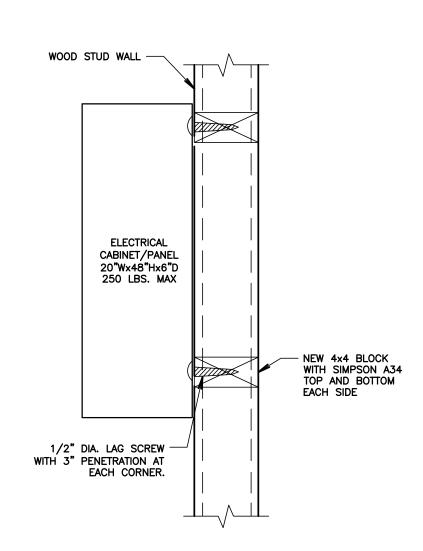
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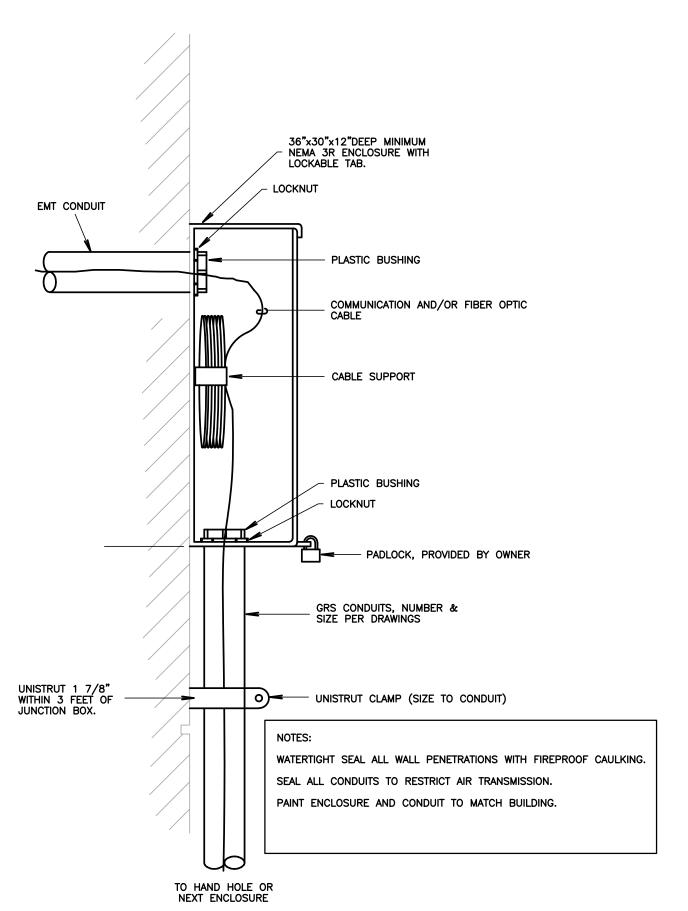
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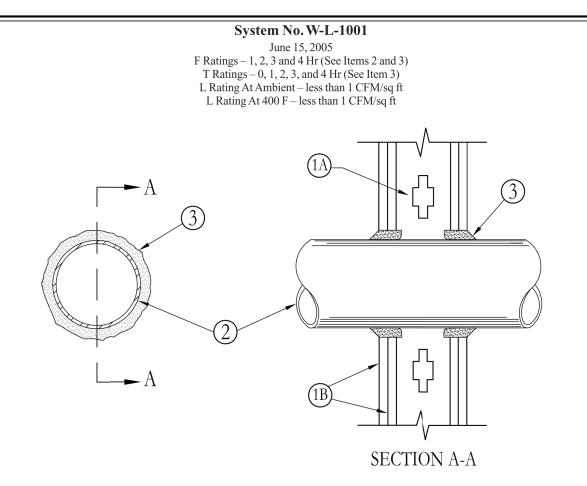
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SURFACE ELECTRICAL PANEL MOUNTING

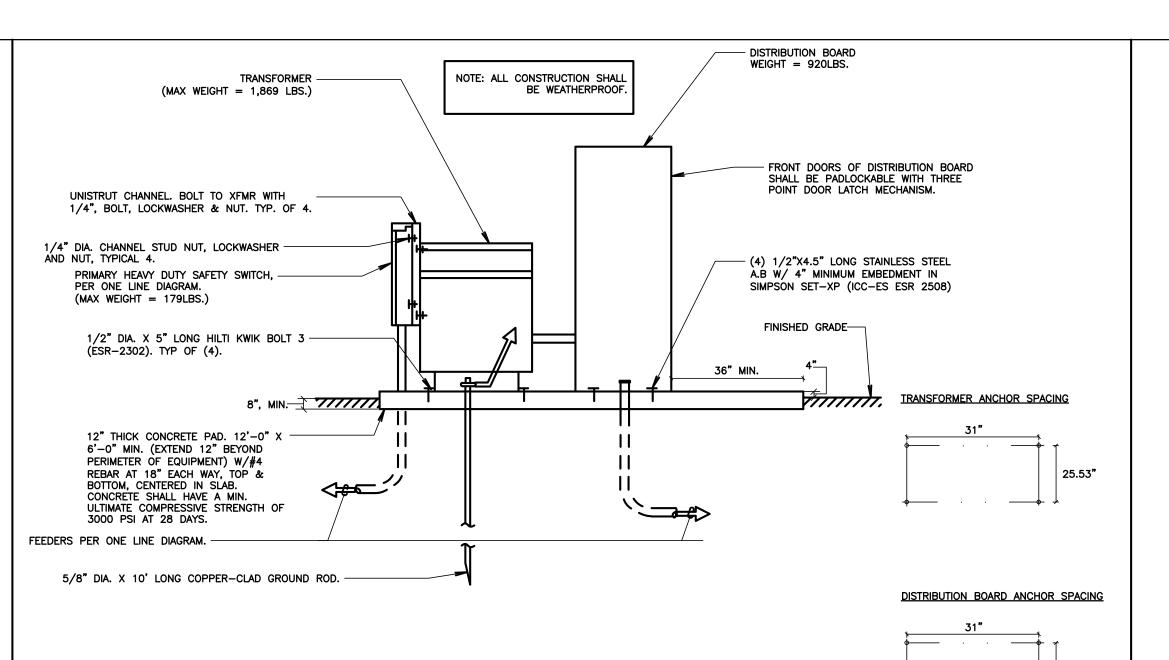


7 COMMUNICATIONS PULL BOX DETAIL
NOT TO SCALE

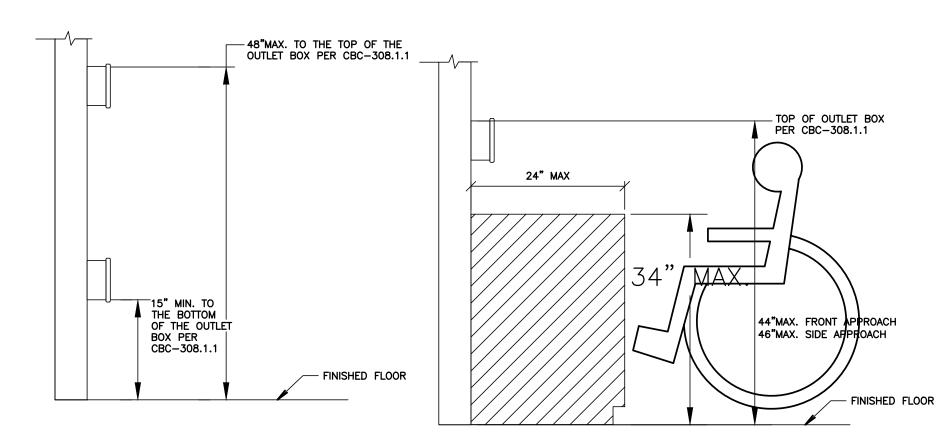


- Wall Assembly The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the
- A. Studs Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross
- braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC. B. **Gypsum Board*** – Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series
- 2. **Through Penetrant** One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or
- A. **Steel Pipe** Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. Iron Pipe Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
- C. Conduit Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing D. **Copper Tubing** – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing E. **Copper Pipe** – Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. F. Through Penetrating Product* – Flexible Metal Piping – The following types of steel flexible metal gas piping may be used:
- 1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly. OMEGA FLEX INC
- 2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly. TITEFLEX CORP A BUNDY CO
- 3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly. WARD MFG INC

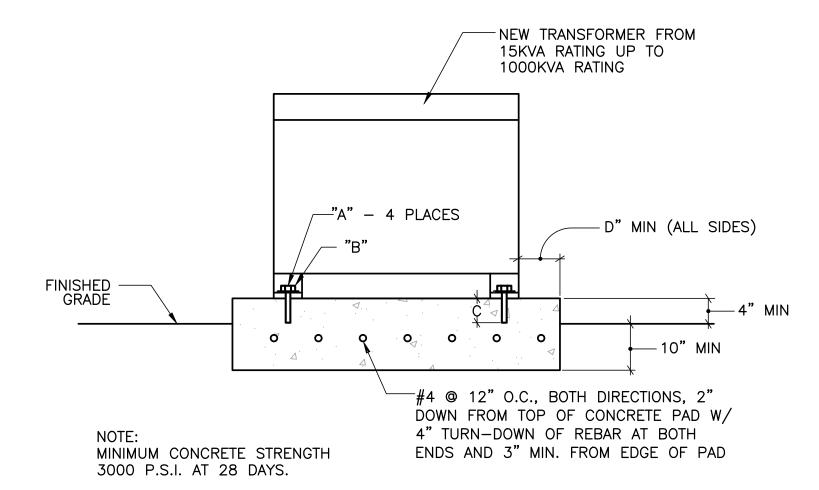
TYPICAL THROUGH PENETRATION FIRESTOP



TYPICAL TRANSFORMER AND DISTRIBUTION BOARD MOUNTING

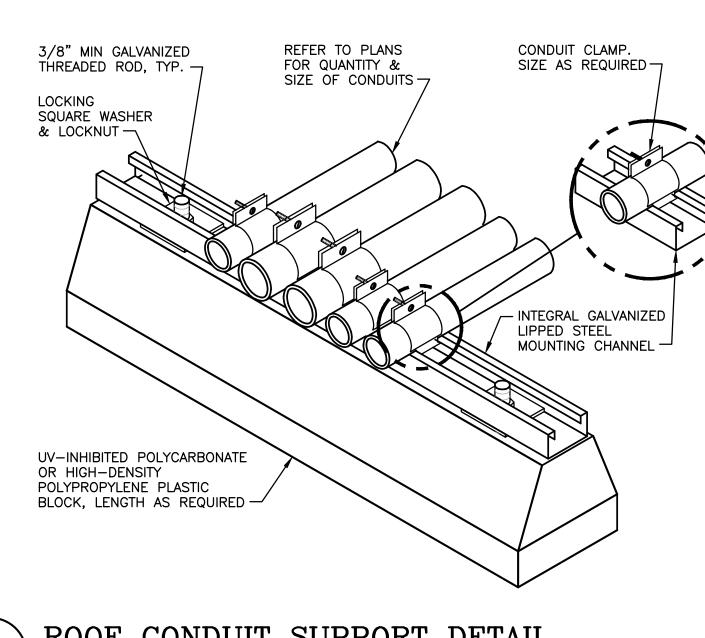


MOUNTING HEIGHT OVER OBSTRUCTION
NOT TO SCALE

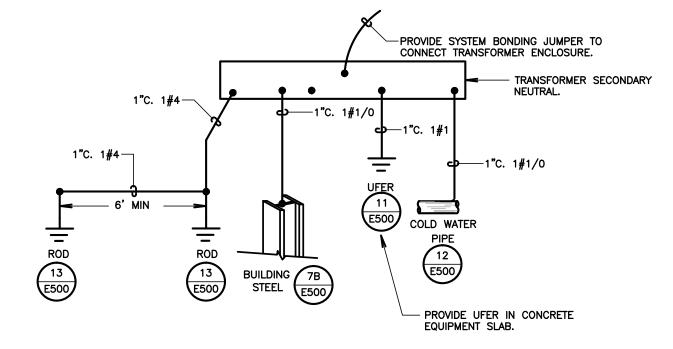


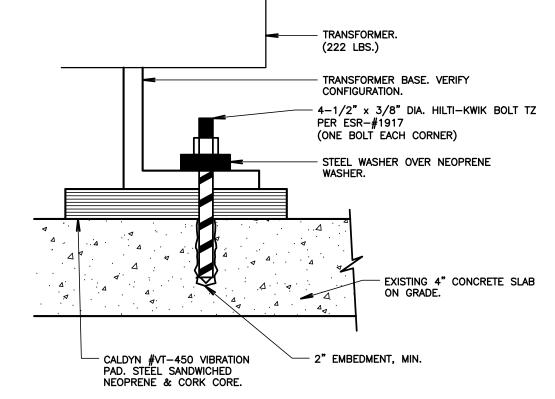
HILTI KB IN STEEL ANCHOR BOLTS ICBO ESR-#1917 FOR CONCRETE PAD (FOR NEW DRY TRANSFORMER 15KVA TO 1000KVA) KVA "A" SIZE "B" "C" MIN. EDGE THREAD THREAD LENGTH DISTANCE LENGTH LENGTH MIN / MAX 4" | 2-1/4" / 7" | 399 lbs

TRANSFORMER INSTALLATION (TH2) SCALE: NOT TO SCALE

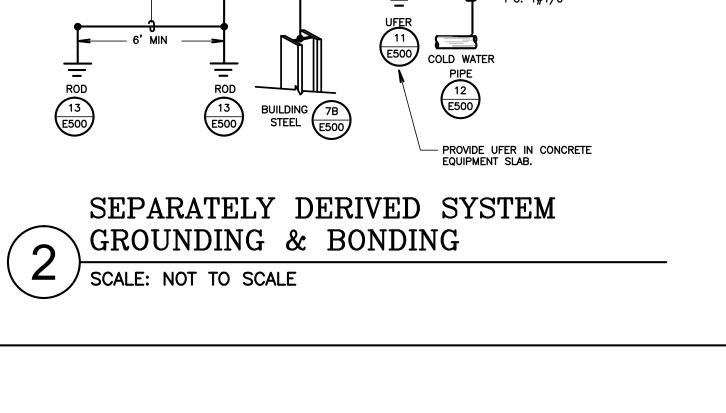


ROOF CONDUIT SUPPORT DETAIL SCALE: NO SCALE





TRANSFORMER MOUNTING DETAIL SCALE: NOT TO SCALE



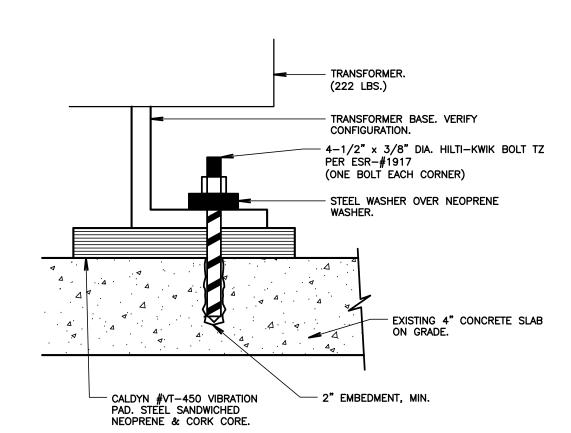
815 EUREKA ST, BAKERSFIELD, CA 93305 OPSC or OSHPD PROJ. NO: PROJECT NO: 118934 DRAWN BY: VPZ CHK'D BY: DF ISSUE DATE: 3/3/2020 SHEET TITLE

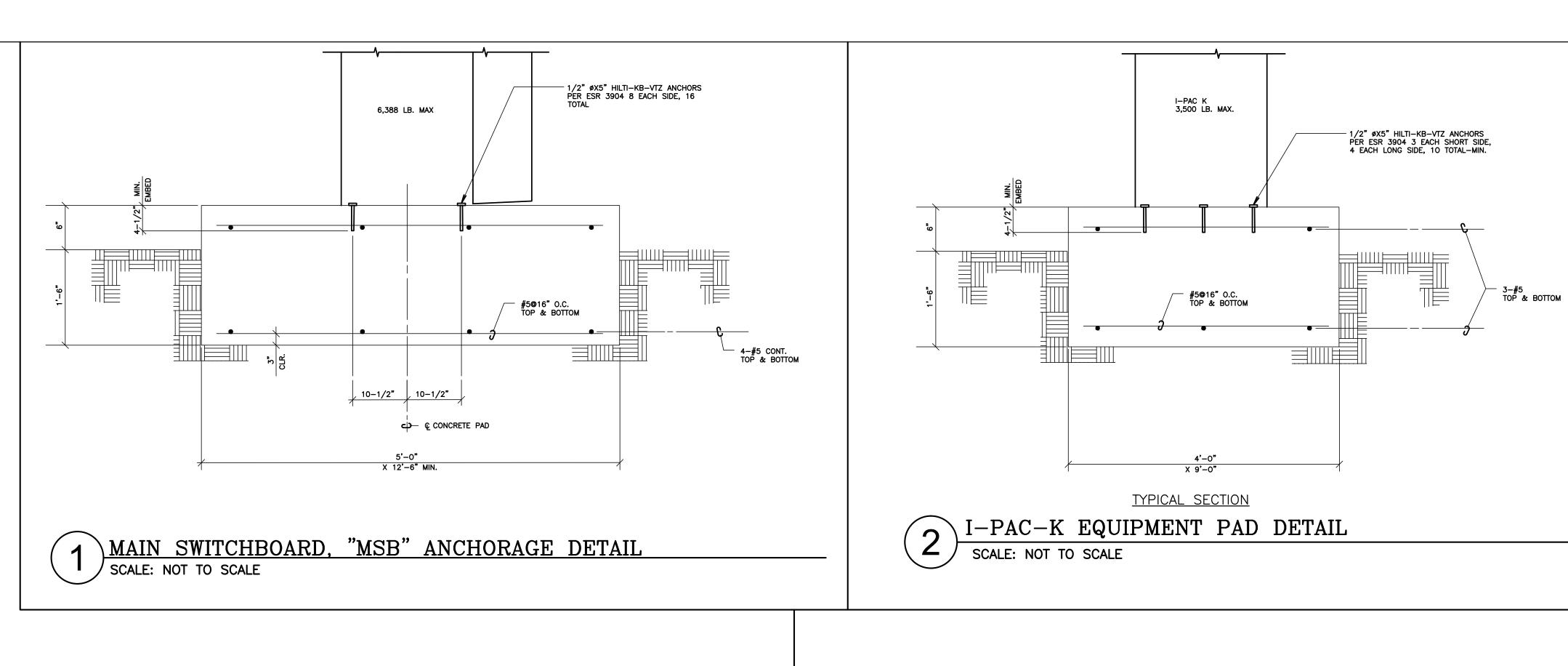
BESSIE OWENS JUNIOR HIGH

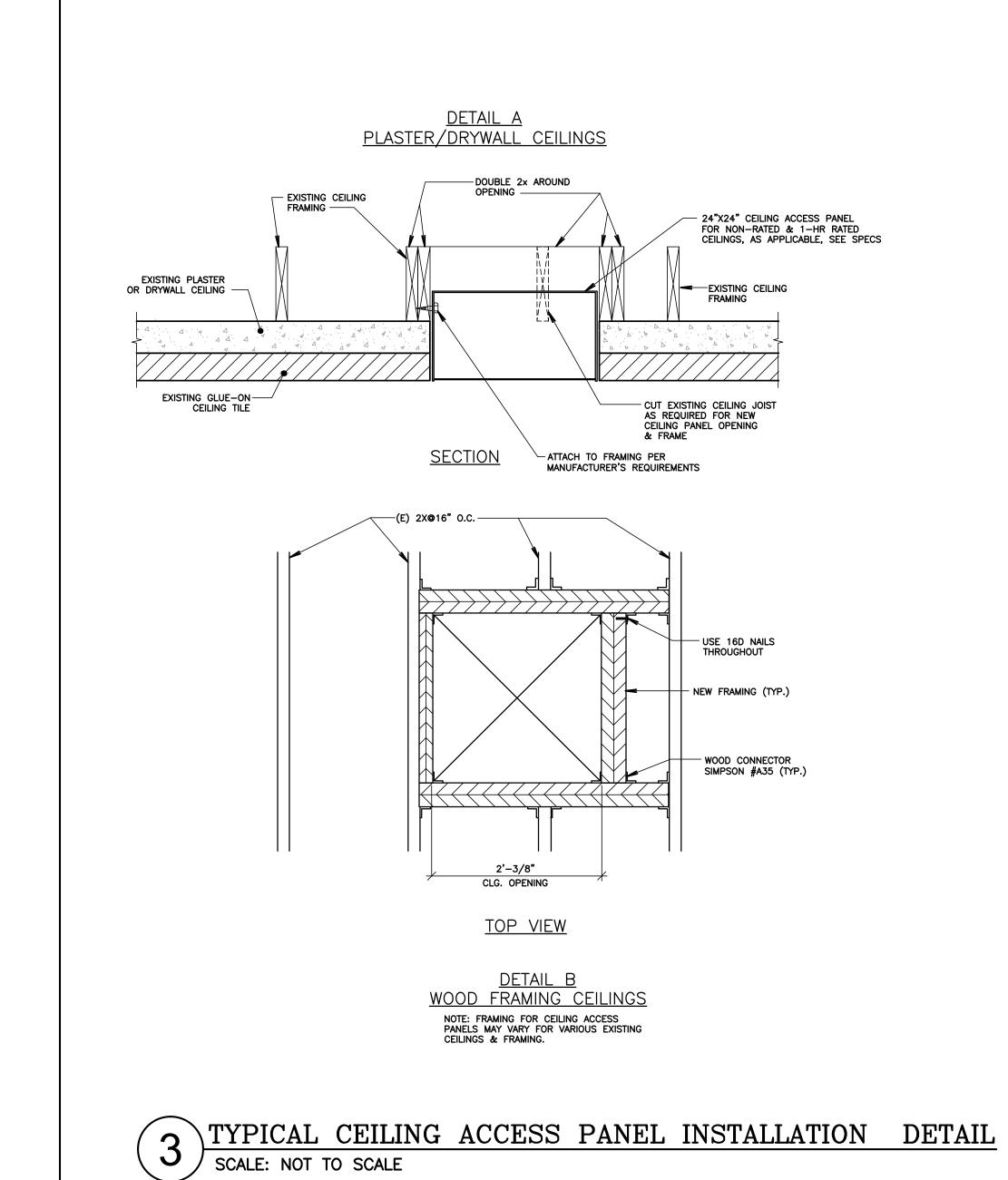
MODERNIZATION

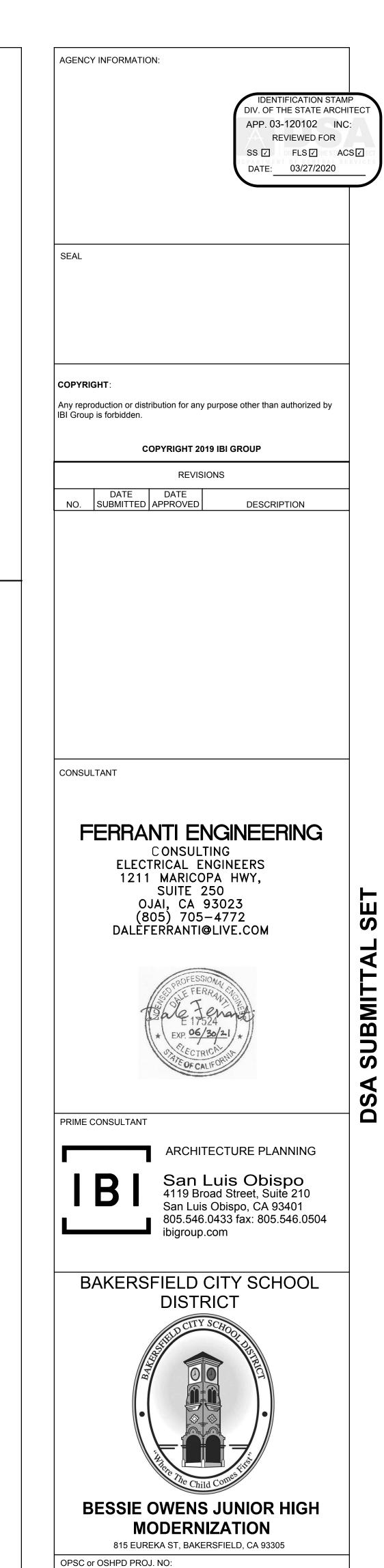
ELECTRICAL DETAILS SHEET #2

SHEET NUMBER









PROJECT NO:

DRAWN BY:

CHK'D BY:

ISSUE DATE:

SHEET TITLE

SHEET NUMBER

118934

3/3/2020

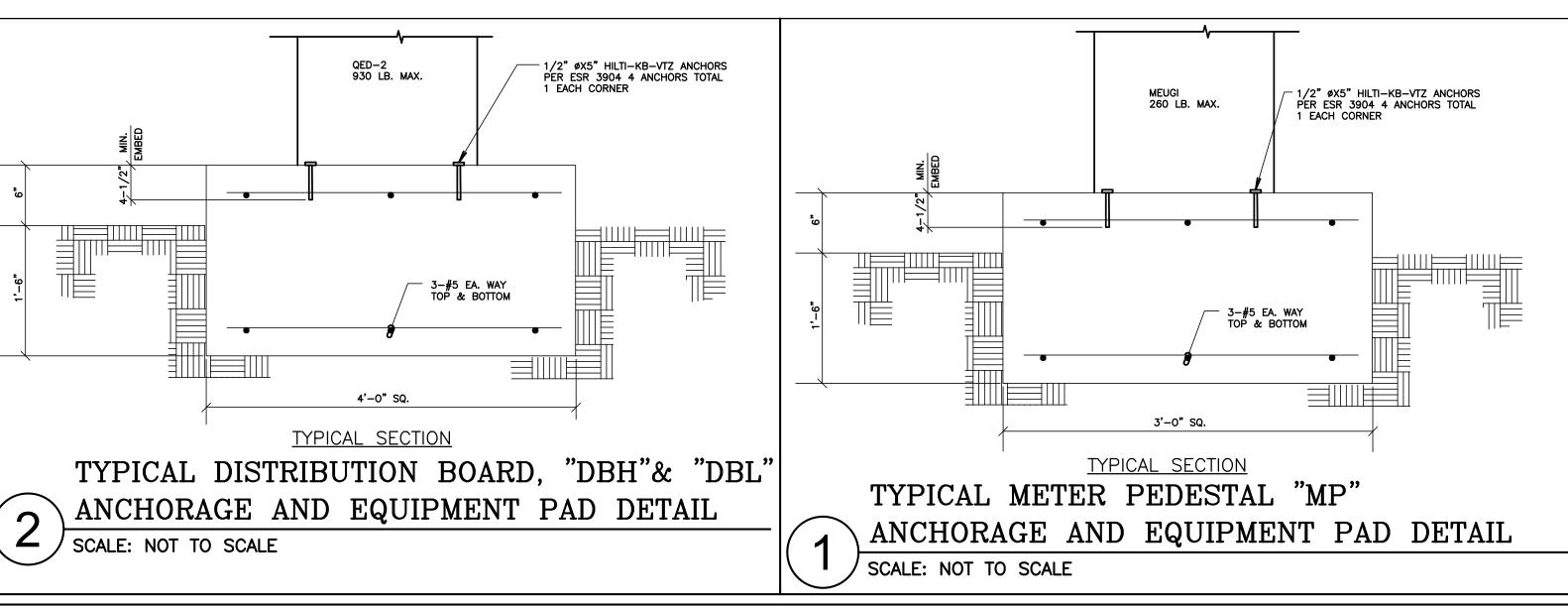
VPZ

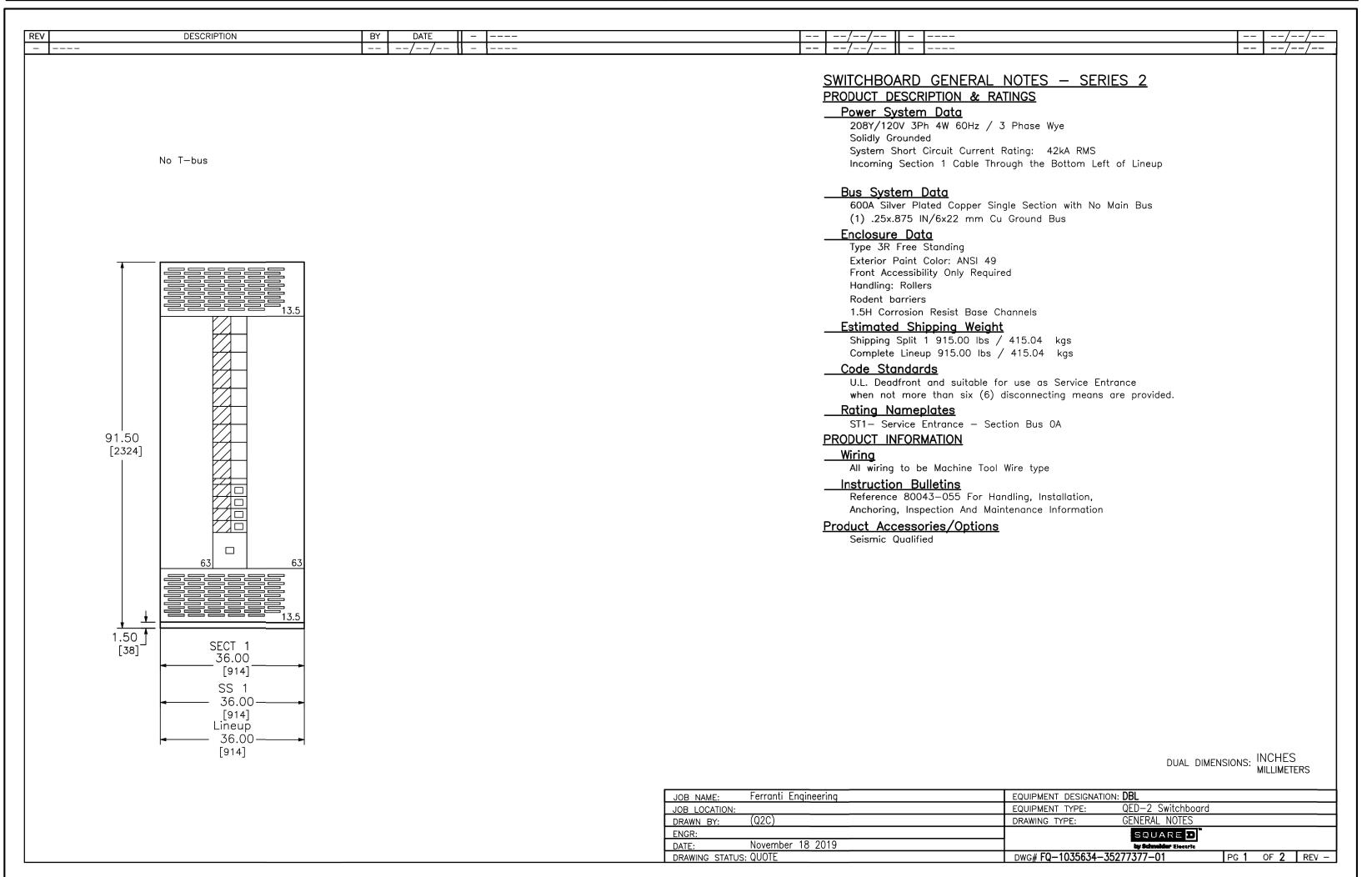
DF

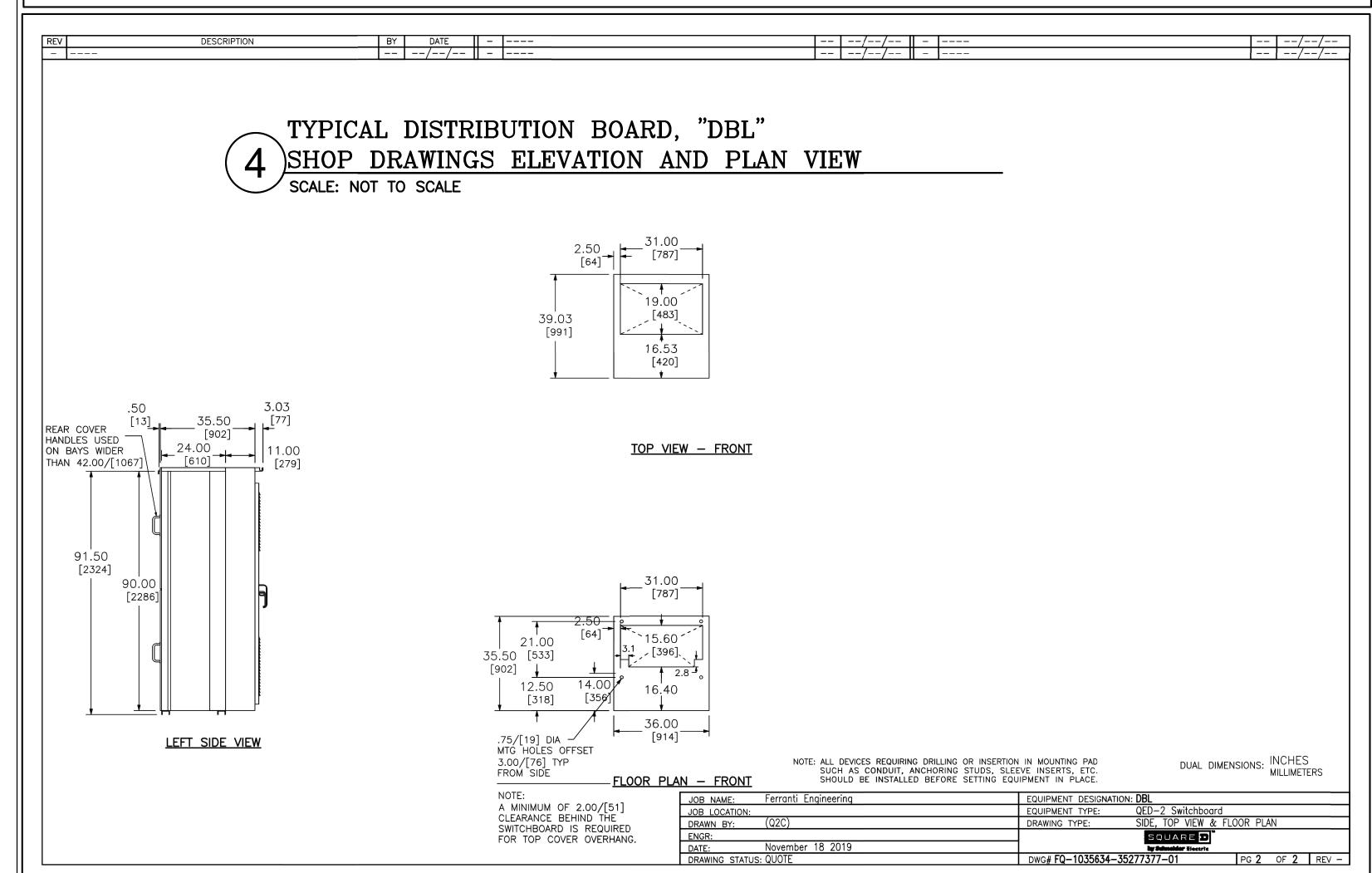
ELECTRICAL DETAILS

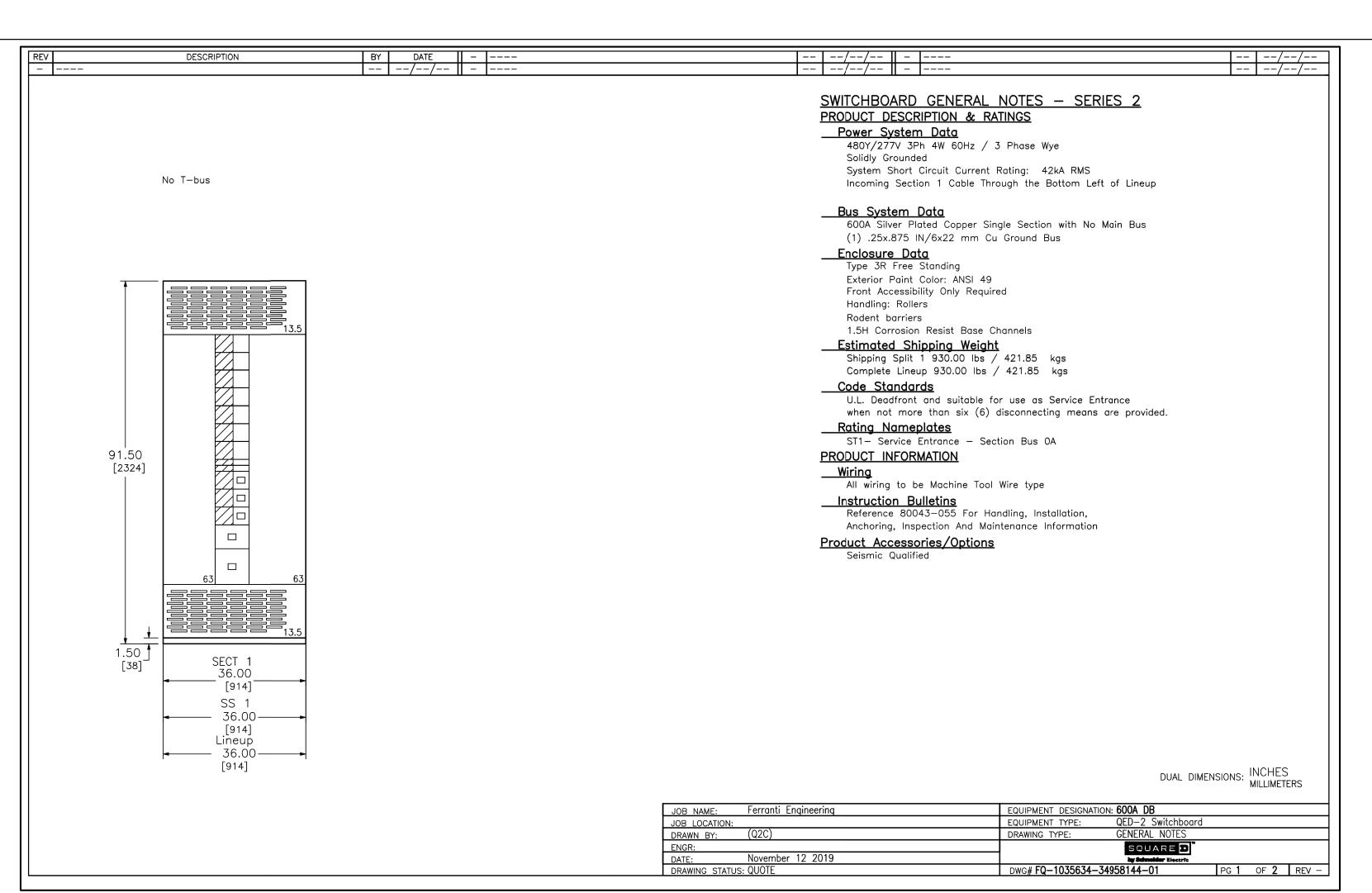
E502

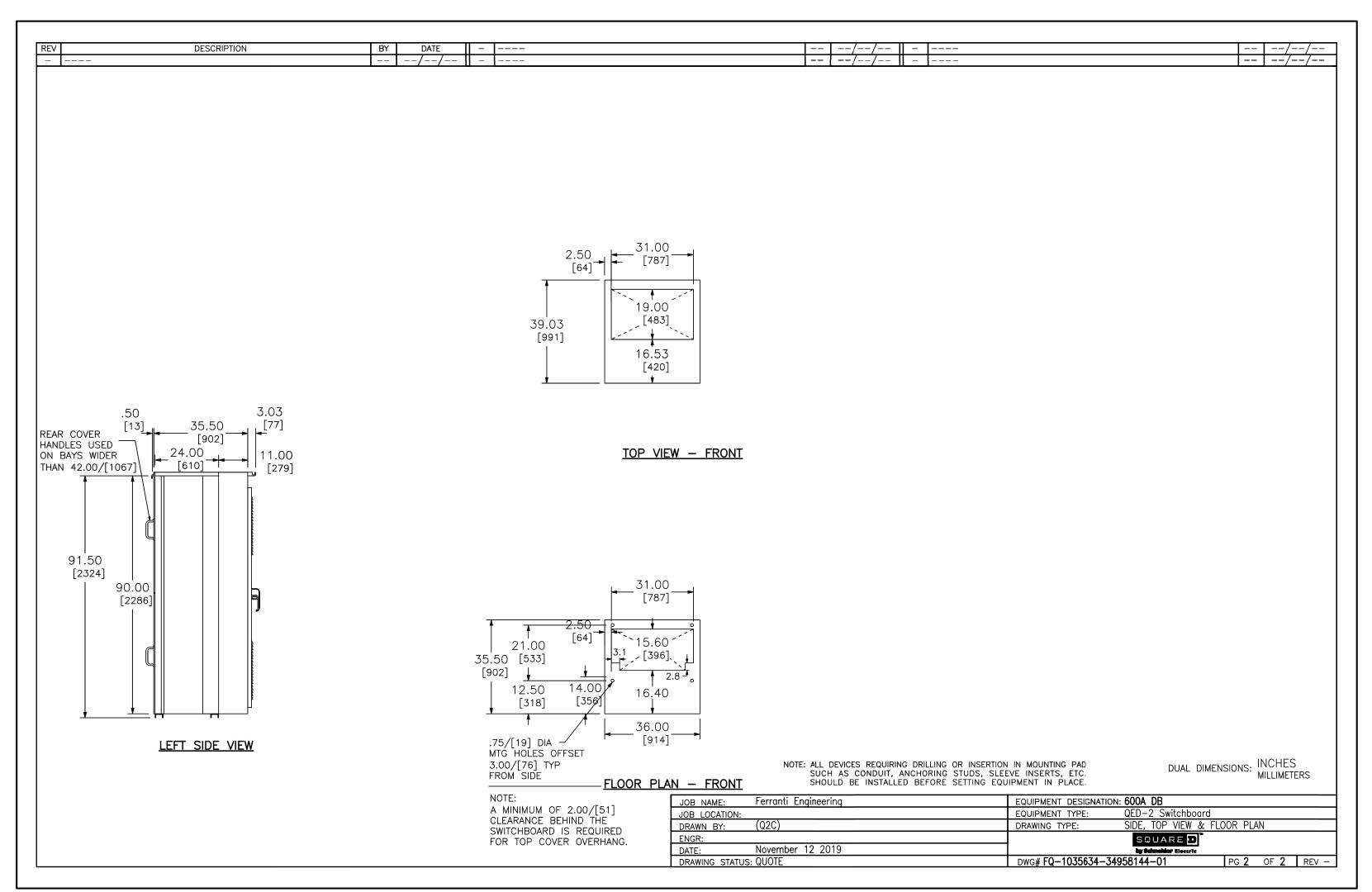
SHEET #3

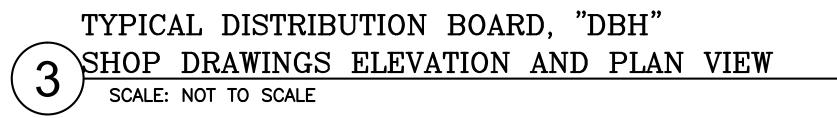












AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS FLS ACS
DATE: 03/27/2020

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REVISIONS

DATE DATE
NO. SUBMITTED APPROVED DESCRIPTION

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CONSULTING
ELECTRICAL ENGINEERS
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OJAI, CA 93023
(805) 705-4772
DALEFERRANTI@LIVE.COM

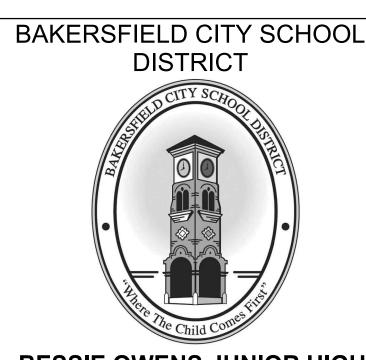


PRIME CONSULTANT

IBI

San Luis Obispo 4119 Broad Street, Suite 210 San Luis Obispo, CA 93401 805.546.0433 fax: 805.546.0504 ibigroup.com

ARCHITECTURE PLANNING



BESSIE OWENS JUNIOR HIGH MODERNIZATION

OPSC or OSHPD PROJ. NO:

PROJECT NO: 118934

DRAWN BY: VPZ

CHK'D BY: DF

ISSUE DATE: 3/3/2020

SHEET TITLE

815 EUREKA ST, BAKERSFIELD, CA 93305

ELECTRICAL DETAILS
SHEET #4

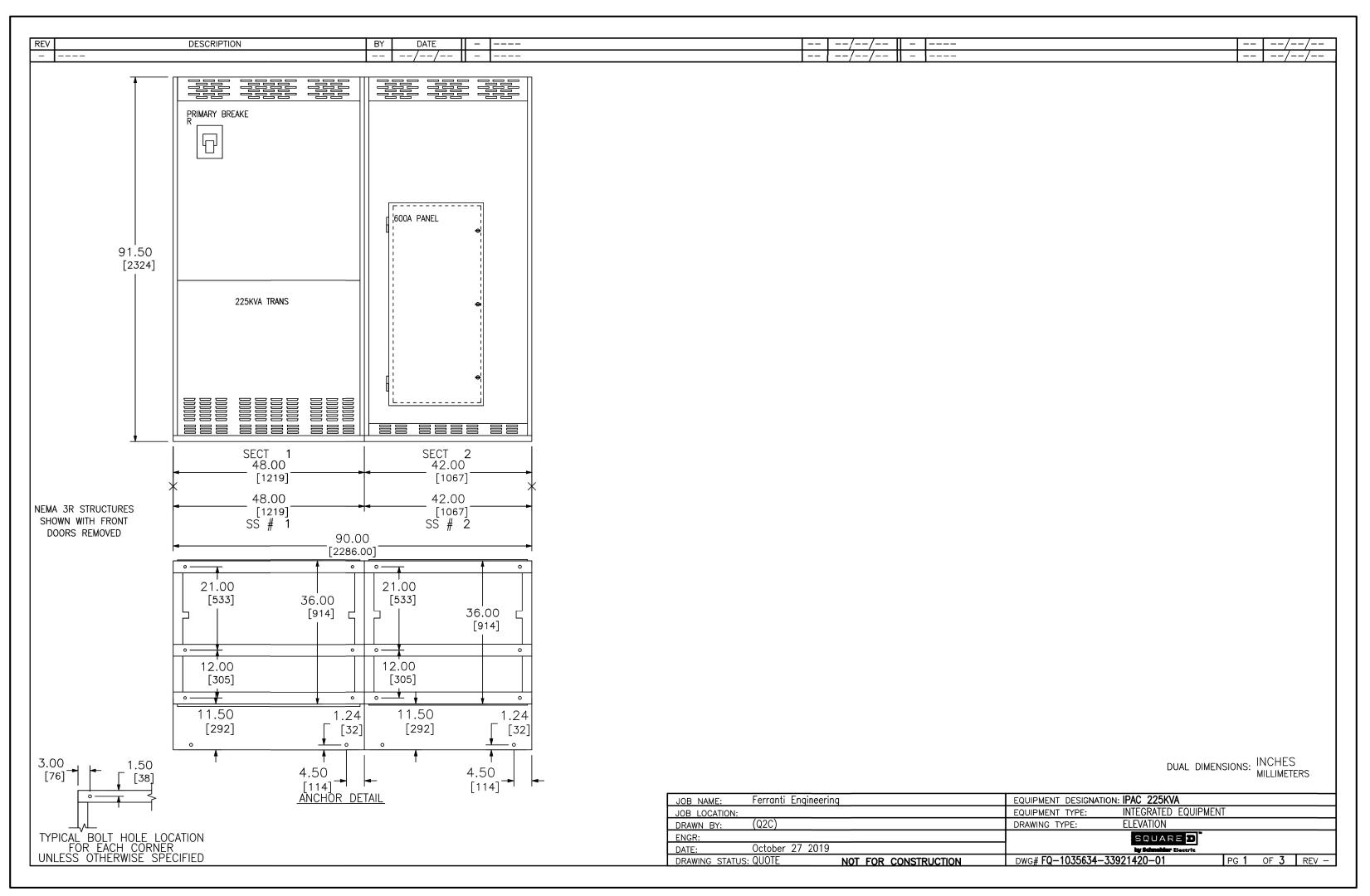
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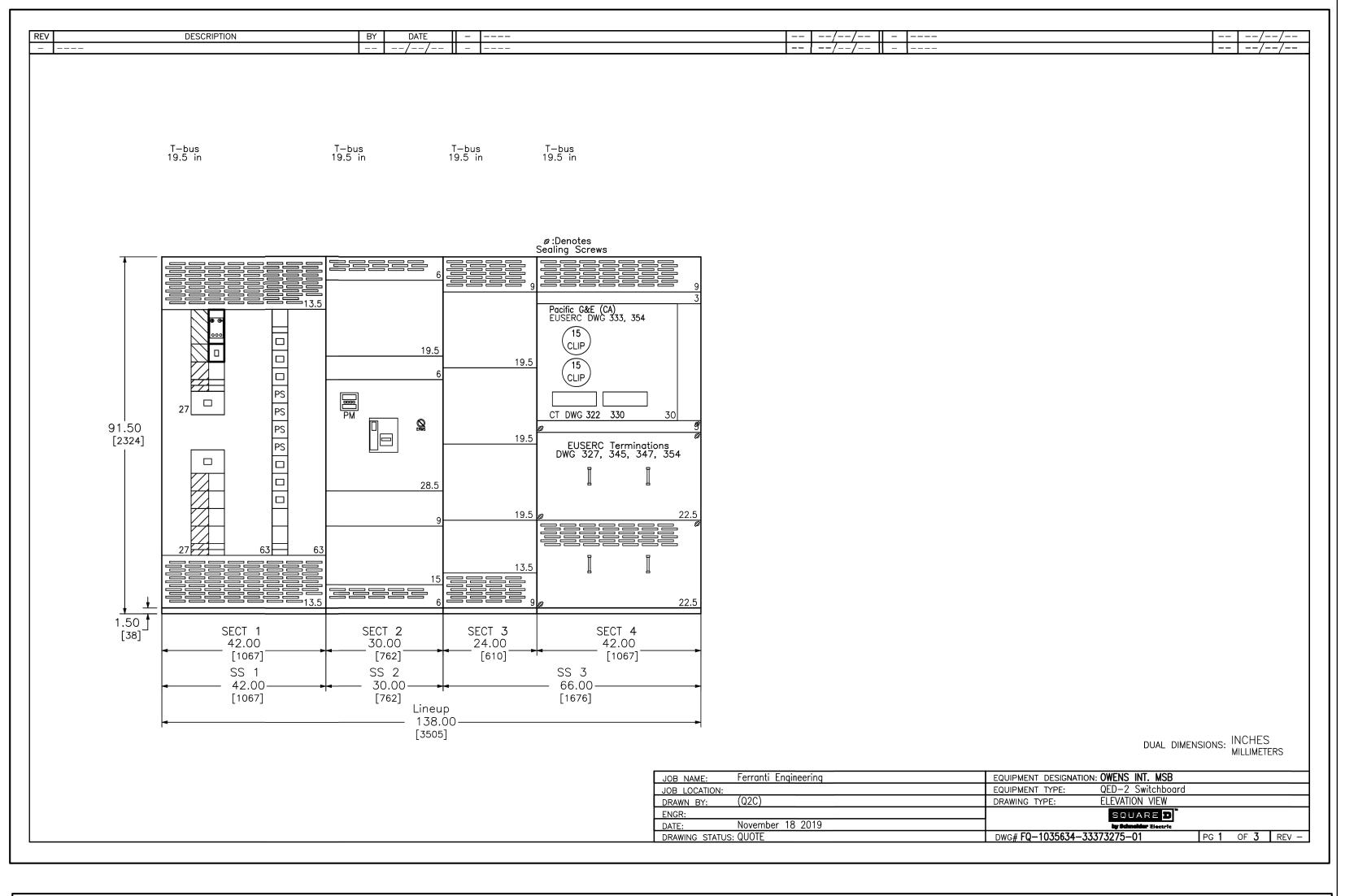
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

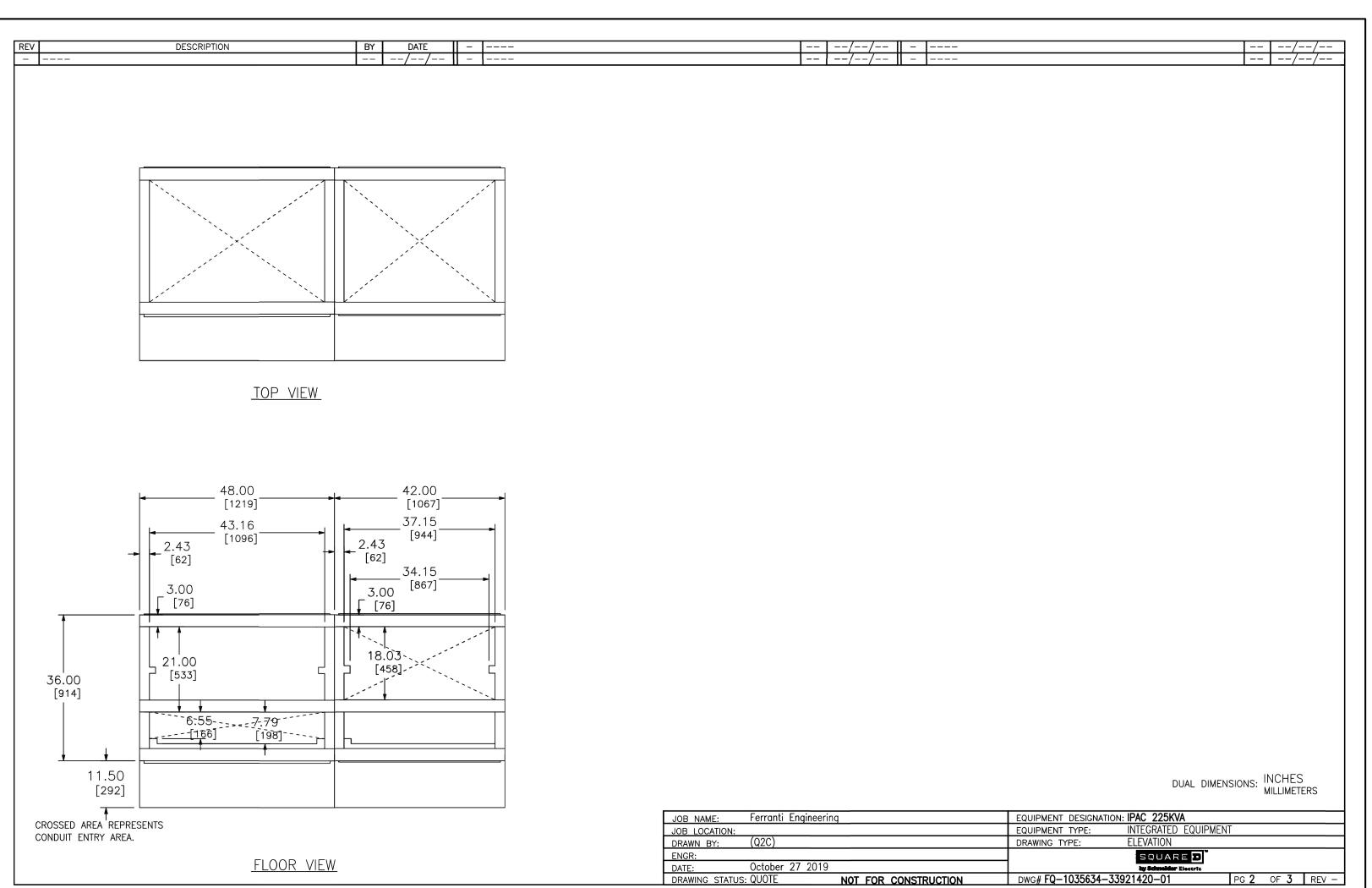
APP. 03-120102 INC: REVIEWED FOR SS FLS ACS

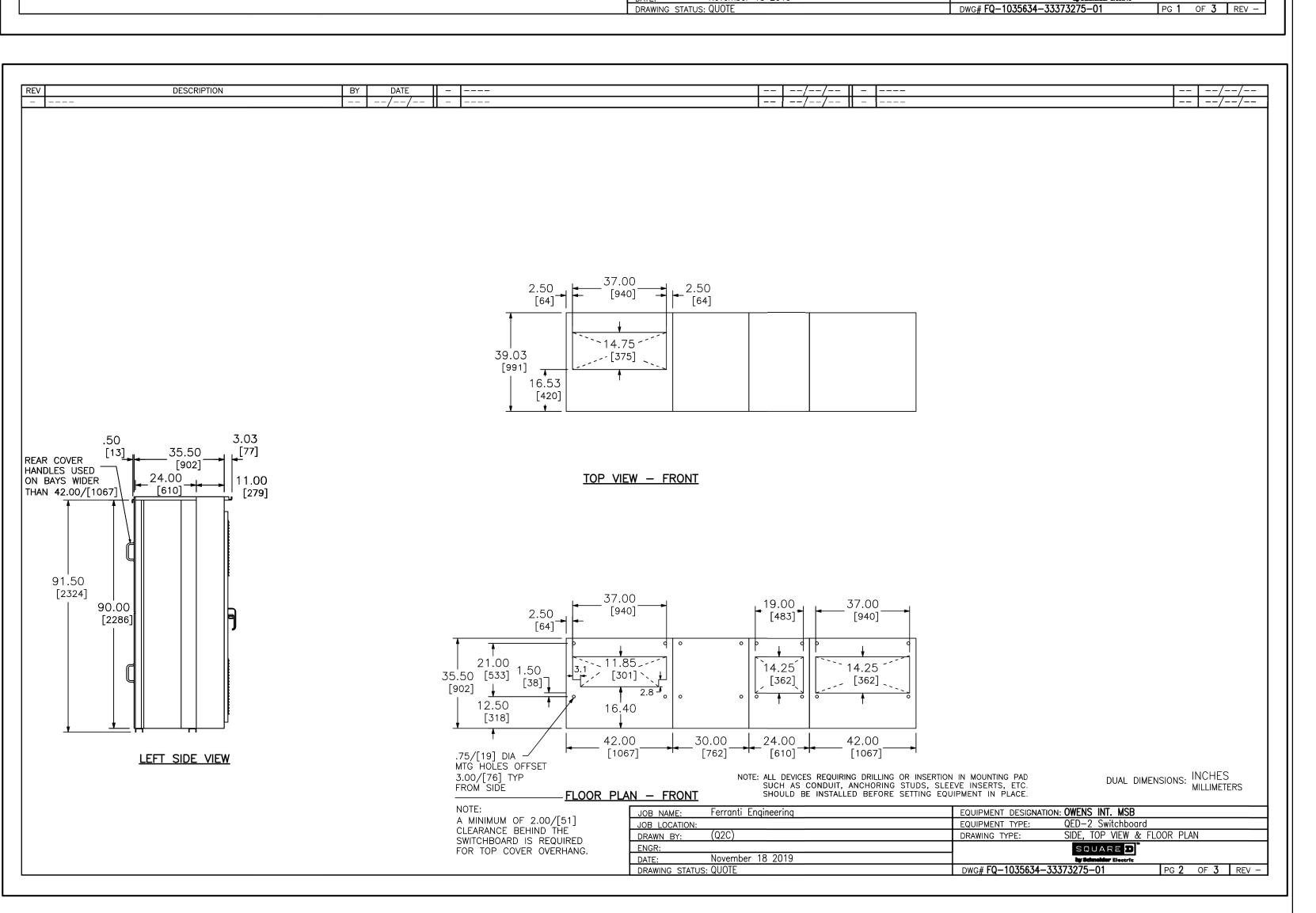
DATE: 03/27/2020

DESCRIPTION



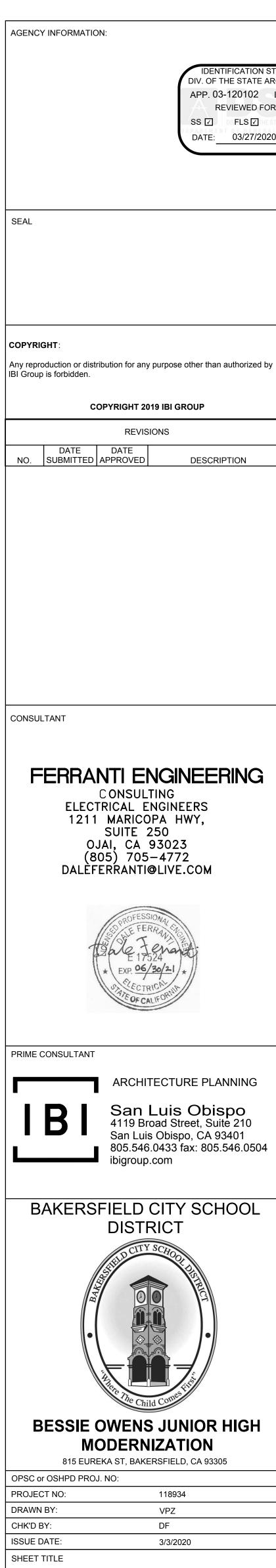












ELECTRICAL DETAILS

E504

SHEET #5

SHEET NUMBER

IDENTIFICATION STAMI

APP. 03-120102 INC:

DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS / FLS / ACS /

CONSULTANT



San Luis Obispo 4119 Broad Street, Suite 210 San Luis Obispo, CA 93401 805.546.0433 fax: 805.546.0504

BAKERSFIELD CITY SCHOOL DISTRICT

ibigroup.com



BESSIE OWENS JUNIOR HIGH MODERNIZATION

FIRE ALARM EQUIPMENT LIST, FIRE ALARM **NOTES, FIRE ALARM DETAILS, WIRING**

GENERAL NOTES

SMOKE DETECTORS SHALL BE INSTALLED 3' AWAY FROM SUPPLY AND RETURN AIR GRILLES. 2. FINAL FIRE ALARM TEST OF ALL DEVICES SHALL BE WITNESSED BY THE PROJECT INSPECTOR. TEST SHALL INCLUDE ALL INFORMATION PER NFPA

72, FIGURE 14.6.2.4 AND READ OUT VERIFICATION FORM FROM CENTRAL STATION. TEST SHALL ALSO BE WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A.H.J.). 3. UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS (C.E.C. 110.11 AND 300.6).

SYMBOL

FACP

MIC

ANN

FAPS

AMP

FAPS

RAE

RAJ

VSP

MODEL. NO

LA103K2-10

FCOONC-1

FN-642-ULADA

HSB-NSA-6

HSB-NSA-6

DCP-SOM-A

HSSPK24WLP

DCP-R2ML

HSB-NSA-6

HSSPK24CLPR

FN-1042-ULADA

FNV-DPS-50-R-

DH-99-A

OSE-SPW

HP400ULX

-R-120

4. AUDIBLE DEVICE(S) SHALL BE AT LEAST 15dbA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75dbA AT 10' OR MORE THAN 110 dba in Total, <u>Throughout!</u> (NFPA 72 18.4.1 AND C.F.C. 907.6.2).

5. AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA CODE IN TEMPORAL PATTERN, CODE 3. 6. VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND

SHALL NOT BE SLOWER THAN ONE FLASH PER SECOND. (NFPA 72 7. PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF INSTALLATION AT FIRE ALARM POWER EXPANDER PANEL. WHITE LETTERS ON A RED BACKGROUND.

8. PROVIDE A COPY OF THE BATTERY CALCULATION AT THE FIRE ALARM POWER EXPANDER PANEL. BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. 9. MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF

SYNCHRONIZED APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION (NFPA 72

10. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (C.F.C. 907.9).

11. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS. 12. DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S

RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO

14. FIRE ALARM WIRES SHALL BE COPPER TYPE THWN/THHN.

ERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR 13. ALL JUNCTIONS BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.

15. ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION 16. WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING I COMPLETE, PROVIDE A FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE

NEW DEVICES. 17. JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH. TERMINATIONS SHALL BE PERFORMED.

18. ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED. 19. CONTRACTOR SHALL FIELD VERIFY ALL DEVICES FOR ACCESSIBILITY. SOME DEVICES MAY NEED SURFACE RACEWAY (WIREMOLD) IF ACCESSIBILITY IS

20. CONTRACTOR SHALL PROVIDE ALL WIRE, CABLES, J-BOXES, BACK-BOXES, FITTINGS, CONDUIT, SUPPORTS, WIREMOLD, ETC. FOR A COMPLETE &

NOTES (FIRE ALARM **EQUIPMENT SPECIFICATIONS** SCHEDULE)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS) 1 END OF LINE RESISTORS SHALL BE 10K FOR NOTIFICATION APPLIANCE CIRCUITS FEEDING FORM FIRE ALARM CONTROL PANEL AND 2.2K FEEDING FROM FIRE ALARM POWER EXPANDER

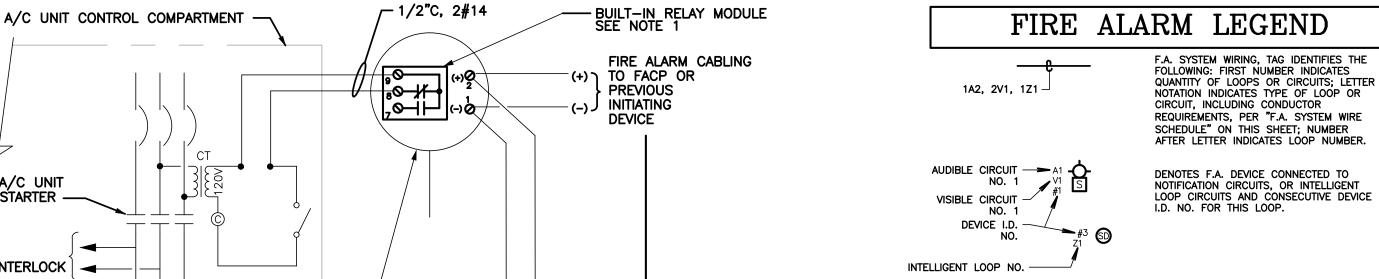
2 SET FOR 190 DEGREES. 3 PROVIDE WEATHERPROOF FLUSH WALL PLATE

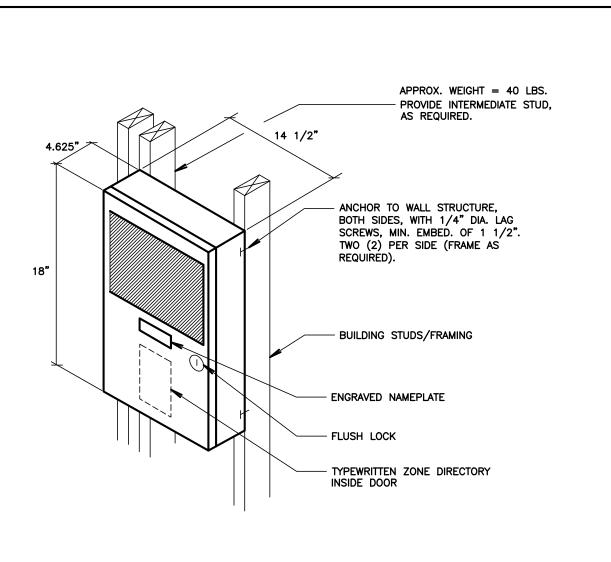
4 PROVIDE TRANSIENT SUPPRESSORS. 5 CONTRACTOR SHALL PROVIDE #OSID-INST, #OSP-001. & #OSP-002. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

6 PANEL SHALL BE 4-SLOT STANDARD RED WITH 4-SLC CIRCUITS, 1 MEDIA GATEWAY CARD (DIALER), & NETWORK CARD.

7 UON PROV	IDE THIS MODEL FOR FIRE ALARM DWER SUPPLY.		VESDA	VEP-A00-1P	_	T VESDA-E VEP SERIES ATION DETECTORS
A. SYSTI	EM WIRE SCH	HEDUL	Æ			
CTORS	DEVICE/FUNCTION	INTERIOR INS	TALLATION	EXTERIOR INSTALLATI	ON	
	VISIBLE NOTIFICATION DEVICES—STROBE LIGHTS	MIN. 3/4"	CONDUIT	MIN. 1" CONDUIT		
SHIELDED PAIR (BLDG, EXTERIOR &	CAMPUS/BLDG. SLC INTELLIGENT LOOP INITIATING DEVICES (PULL STATIONS, SMOKE AND HEAT DETECTORS, WATER FLOW AND TAMPER SWITCHES, MONITOR AND CONTROL MODULES, ETC.)	MIN. 3/4"	CONDUIT	MIN. 1" CONDUIT		
	DEVICE POWER-24VDC	MIN. 3/4"	CONDUIT	MIN. 1" CONDUIT		

	F.A. SYSTI	EM WIRE SCI	HEDULE	
TAG	CONDUCTORS	DEVICE/FUNCTION	INTERIOR INSTALLATION	EXTERIOR INSTALLATION
٧	2#12, THWN/THHN	VISIBLE NOTIFICATION DEVICES—STROBE LIGHTS	MIN. 3/4" CONDUIT	MIN. 1" CONDUIT
Z	1-PAIR #16 TWISTED, SHIELDED PAIR WEST PENN AQC294 (BLDG. EXTERIOR & UNDERGROUND) 1-PAIR #16 TWISTED, WEST PENN 991 (BLDG. INTERIOR)	CAMPUS/BLDG. SLC INTELLIGENT LOOP INITIATING DEVICES (PULL STATIONS, SMOKE AND HEAT DETECTORS, WATER FLOW AND TAMPER SWITCHES, MONITOR AND CONTROL MODULES, ETC.)	MIN. 3/4" CONDUIT	MIN. 1" CONDUIT
Р	2#14, THWN/THHN	DEVICE POWER-24VDC	MIN. 3/4" CONDUIT	MIN. 1" CONDUIT
A	1-PAIR #16 TWISTED, SHIELDED PAIR WEST PENN AQC294 (BLDG. EXTERIOR & UNDERGROUND)	AUDIBLE NOTIFICATION DEVICES—SPEAKERS	MIN. 3/4" CONDUIT	MIN. 1" CONDUIT
	1-PAIR #16 TWISTED, WEST PENN 991 (BLDG. INTERIOR)			





- EVAC SYSTEM ACTIVATION

MODULE.

CONTROL CONTACTS

(+) EVACUATION PANEL (+)

EVAX VOICE

120VAC

⊘(-) "EVAC"

HORNS

REMOTE POWER

"FAPS"

STROBES

(NON-CODED)

(SPARES)) (-)(

SUPERVISED OUTPUT

120VAC

SPEAKER -

SPEAKER/STROBE OR

(SPEAKER ONLY DEVICE

WHICHEVER IS LOWER)

+80" TO BOTTOM OF LENS

(MIN.) 96" TO TOP OF

LENS (MAX) ABOVE FINISHED

FLOOR OR 6" BELOW FINISHED

CEILING. WHICHEVER IS LOWER

NOTE: COMPLY W/ CBC FIGURE 11B-308.2 & 11B308.3

CONTROLS AND OPERATING MECHANISMS AT

INITIATING DEVICE "SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING,

PINCHING, OR TWISTING OF THE WRIST. THE FORCE

REQUIRED TO ACTIVATE CONTROLS SHALL BE NO

TYPICAL FIRE ALARM DEVICE MOUNTING DETAILS

PULL STATION

A.F.F. TO HIGHEST

POINT OF ACTIVATING HANDLE OR LEVER

+90" AFF TO TOP OR 6"

BELOW FINISHED CEILING,

<u> AUDIBLE/VISUAL DEVICES</u>

SMOKE/HEAT DETECTORS

— SMOKE

TYPICAL DEVICES WIRING DIAGRAMS DETAIL

MIN. CLEAR 30"x48"

SIDE APPROACH

SCALE: NOT TO SCALE

MIN. CLEAR

30"x48" FRONT

APPROACH

STROBE LIGHT

- (+) | DEVICE

SLC LOOP TO NEXT INITIATING

ROOF FRAMING -

JUNCTION BOX -MOUNTED AGAINST CEILING SUPPORT.

CEILING SPACE

SMOKE DETECTOR -

* - TEMPERATURE SETTING OF HEAT DETECTOR DEVICE

TO BE SET AT MINIMUM OF 20°F, ABOVE THE MAXIMUM EXPECTED TEMPERATURE OF THE SPACE

INSTALLED PER NFPA 72, 2-23.

CONDUIT AND FIRE ALARM -

CONDUCTORS TO NEXT DEVICE.

TO NEXT INITIATING

DEVICE

(24V AUX. ,

POWER)

TO NEXT INITIATING

SLC LOOP TO FACP OR (()

PREVIOUS

INITIATING DEVICE

NOT TO SCALE

LINE OF -FINISHED FLOOR

SLC LOOP TO NEXT INITIATING

A=AUDIBLE NOTIFICATION DEVICE CIRCUIT

V=VISIBLE NOTIFICATION DEVICE CIRCUIT

REFER TO "F.A. SYSTEM WIRE

-)(+)(+)

STRUCTURAL CEILING.

- JUNCTION BOX MOUNTED ON STRUCTURAL CEILING.

UNDERSIDE OF ROOF

* HEAT DETECTOR IN ABOVE

STRUCTURE

SCHEDULE" ON FIRE ALARM PLAN.

AUD. CKTOR

DEVICE

P=DEVICE POWER

FIRE ALARM REMOTE POWER SUPPLY (FAPS),

MOUNTING DETAIL

NOT TO SCALE

A/C UNIT STARTER — INTERLOCK | DUCT SMOKE — DETECTOR (AS SHOWN FIRE ALARM CABLING TO NEXT INITIATING DEVICE CONNECT N.O. CONTACT OF RELAY MODULE IN SERIES WITH THE STARTER COIL. THE N.O. CONTACT SHALL BE CLOSED UNDER NORMAL CONDITIONS TO ALLOW HVAC EQUIPMENT TO OPERATE, BUT SHALL OPEN AND SHUT DOWN THE HVAC EQUIPMENT UNDER FIRE CONDITIONS (SIGNAL FROM FACP) OR LOSS OF 24VDC POWER. TYPICAL HVAC UNIT SHUTDOWN WIRING DIAGRAM SCALE: NOT TO SCALE NOTE: ALL WORK & MATERIALS SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR

APPROVED SHOP DRAWINGS

APPROVED SHOP DRAWINGS!

& FIRE ALARM VENDOR

DENOTES F.A. DEVICE CONNECTED TO NOTIFICATION CIRCUITS. OR INTELLIGEN CODE, RULES & REGULATIONS LOOP CIRCUITS AND CONSECUTIVE DEVICE ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS

FIRE ALARM LEVEL OF **AUDIBILITY**

LARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL

MANUAL PULL STATIONS

FIRE ALARM SYSTEM AC P FIRE ALARM SYSTEM LOW

9 INOTIFICATION CIRCUIT SHORT

SMOKE DETECTORS

OPEN CIRCUIT

6 GROUND FAULT

8 HEAT DETECTORS

OCCUPANTS SHALL BE SO LOCATED AND UNOBSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15db ABOVE AMBIENT NOISE LEVELS MEASURED FOUR FEET ABOVE THE FLOOR INSIDE BUILDING. AMBIENT NOISE LEVELS SHALL BE CONSTRUED TO MEAN THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATIVE OR WORKING CONDITIONS. THE FIRE ALARM SIGNAL SHALL COMPLY WITH THE CALIFORNIA EDUCATION CODE, SECTIONS 32000 AND 32004, AND BE A TEMPORAL PATTERN, CODE 3.

FIRE ALARM EQUIPMENT SPECIFICATIONS SCHEDULE

HOCHIKI

HONEYWELL

HOCHIKI

//ANUFACTURER | CSFM. LISTING #

7165-0410:0506

6911-0410:175

7120-0410:0507

7315-0410:0166

7272-0410:0204

7300-0410:0132

7270-0410:0203

7300-0410:0132

7300-0410:150

7320-0569:0141

7320-0410:0195

6911-0410:175

7300-0410:0150

7275-0410:0503

7300-0410:0132

7320-0410:0194

7315-0410:0166

6911-0410:175

6911-0410:175

3240-0410:0155

7260-1728:0121

7260-1728:0121

7300-0410:150

7300-1637:101

7259-1728:0502

| • | • | • | •

SEQUENCE OF OPERATIONS

DESCRIPTION

IRE ALARM CONTROL PANEL W

DIGITAL ALARM COMMUNICATOR

IRE ALARM REMOTE POWER

DDRESSABLE SMOKE DETECTOR

ADDRESSABLE HEAT DETECTOR

SUPERVISED OUTPUT MODULE

OUTDOOR WALL MOUNT SPEAKER

SPEAKER & STROBE LIGHT (CANDELA

WALL MOUNTED COMBINATION

VALUE AS SHOWN ON PLANS)

END OF LINE RESISTOR (1)

DUAL RELAY MODULE

MULTI-CRITERIA FIRE/CO

CEILING MOUNTED COMBINATION

ALUE AS SHOWN ON PLANS)

DISTRIBUTED VOICE PANEL (50W)

DUCT SMOKE DETECTOR

OSID-SMOKE IMAGING DETECTION

OSID-SMOKE IMAGING DETECTION

DUAL INPUT MONITOR MODULE

VESDA SYSTEM POWER SUPPLY

FIRE ALARM REMOTE POWER

FNV-DPS-100-R- DISTRIBUTED VOICE PANEL (100W)

IMAGER

SPEAKER & STROBE LIGHT (CANDELA

DETECTOR W/BASE

FNV-DPS-100 | DISTRIBUTED VOICE PANEL (100W)

MASTER VOICE PANEL

HEAD END CONTROL

LATITUDE NETWORK

N/6" BASE

V/6" BASE

VISION ANNUNCIATOR

FIRE ALARM SYSTEM **INSTALLATION NOTES**

ALL DRAWINGS ARE DIAGRAMMATIC ONLY, AND SHALL NOT BE USED IN DETERMINING ACTUAL CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY ALL CONDUIT ROUTING CONDITIONS AT THE PROJECT SITE AS CONSTRUCTION ALL FIRE ALARM DATA COMMUNICATIONS AND INITIATING CIRCUITS SHALL BE INSTALLED UTILIZING SOLID COPPER CONDUCTORS WITH OUTER COVERING COLORS PER THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS. ALL SMOKE DAMPER AND REMOTE TROUBLE INDICATOR CIRCUITS SHALL BE YELLOW. ALL CIRCUITS SHALL BE INDIVIDUALLY LABELED, BOTH AT THE DEVICE END AND AT THE SIGNAL TERMINAL CABINET AND/OR FIRE ALARM MASTER PANEL TERMINATION POINT. ALL FIRE ALARM CIRCUITS SHALL BE CONTINUOUS FROM DEVICE TO DEVICE. SPLICES ARE NOT ALLOWED UNLESS IN COVERED JUNCTION BOXES ON

APPROVED TERMINAL BLOCKS. 'T' TAPPING IS ALLOWED ONLY UNDER THESE

FIRE ALARM MONITORING

OMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUF OR UUJS BY UNDERWRITERS LABORATORY OF SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

COMPLETE AUTOMATIC FIRE ALARM PLAN SUBMITTAL

HE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND

SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).

APPROVED BY THE 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 THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE

SCHOOLS FIRE ALARM REQUIREMENTS

THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA BUILDING CODE, SECTION 907.2.3; CALIFORNIA ELECTRICAL CODE, ARTICLE 760 AND CALIFORNIA FIRE CODE, CHAPTER 9, SECTION 907. UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION, NFPA 72. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE AUTHORITY HAVING JURISDICTION. FIRE ALARM SYSTEM CERTIFICATION AND DESCRIPTION SHALL BE PROVIDED FOR TESTING AND A PLASTIC LAMINATED COPY SHALL REMAIN (WITH INSTRUCTIONS) AT THE FIRE ALARM CONTROL PANEL PER NFPA 72.

THE FIRE ALARM "RECORD OF COMPLETION" FORM, FIGURE 10, 18, 2, 1 IN NFPA 72, SHALL BE COMPLETED, SIGNED AND SUBMITTED TO THE SCHOOL DISTRICT AND THE

LOCAL AUTHORITY (K.C.F.D.) HAVING JURISDICTION AT THE COMPLETION OF THE TEST.

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AGENCY INFORMATION:

MOUNTING HEIGHT

(TO CENTER U.O.N.)

+60"

REMARKS

4 6

OCATED IN

BLDG. K

LOCATED IN

BLDG. K

LOCATED IN

BLDG "K"

LOCATED IN

BLDG "E"

LOCATED IN

BLDG "E"

LOCATED IN

BLDG "J"

5

5

+60"

BACKBOX

REQUIREMENTS

SQ. X. 2 1/8" DP

DUTLET BOX WITH S.G.

DUTLET BOX WITH S.G.

' SQ. X. 2 1/8" DP.

BLP OUTDOOR

1" SQ. X 2 1/8" DP.

+" SQ. X 2 1/8" DP.

4" SQ. X. 2 1/8" DP.

OUTLET BOX

" SQ. X. 2 1/8" DP.

OUTLET BOX WITH S.G

4" SQ. X. 2 1/8" DP.

4" SQ. X. 2 1/8" DP.

D | E | F | G | H | I | J | K | L | M | N | O

OUTLET BOX

OUTLET BOX

OUTLET BOX

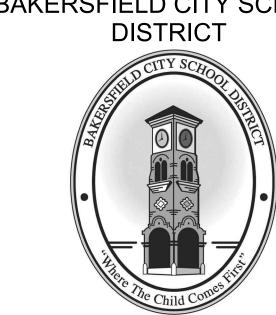
DUTLET BOX

DUTLET BOX

(805) 705-4772DALÈFERRANTI@LIVE.COM

PRIME CONSULTANT

ARCHITECTURE PLANNING



815 EUREKA ST, BAKE	RSFIELD, CA 93305
OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020
SHEET TITLE	

DIAGRAMS SHEET NUMBER

DIV. OF THE STATE ARCHITEC

REVIEWED FOR

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DATE DATE
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FACP

STAND-BY ALARM

(mA)

38.17

55.0

FACP

3.12

FACP

l(s) I 0.130 1.

4.25

7.0

STAND-BY ALARM

(mA) (mA)

PANEL

STAND-BY ALARM

PANEL

STAND-BY ALARM

(mA) (mA)

PANEL

(mA) (mA)

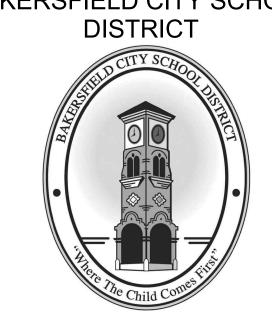
STAND-BY ALARM QUANTITY

PRIME CONSULTANT

ARCHITECTURE PLANNING IB ibigroup.com

San Luis Obispo 4119 Broad Street, Suite 210 San Luis Obispo, CA 93401 805.546.0433 fax: 805.546.0504

BAKERSFIELD CITY SCHOOL



BESSIE OWENS JUNIOR HIGH MODERNIZATION 815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020
SHEET TITLE	

FIRE ALARM **VOLTAGE DROP AND BATTERY CALCULATIONS**

SHEET NUMBER

						DEVI	CES				W	/IRE		ONE-WAY LOOP					"RPS-H" POWER & BATTERY C
POWER SUPPLY#	LOCATED IN	LOOP TYPE & No.	75cd	75cd	HORN	HORN	15cd		OBES	110cd	SIZE	DC RESIST. /1000'	TOTAL ALARM CURRENT	LENGTH FROM POWER SUPPLY TO MIDDLE OF	TOTAL VD	VOLTAGE DROP		BATTERY SELECTED	DEVICE
					Alarm	Curren	t - I(a) (<i>I</i>	Amp)				онмѕ	AMPS	FEET	VOLTS	%	AH	AH	
RPS-E		V1_	0.2.2	0.2.2							12	4.00					S	EE	DESCRIPTION
		V2									12	1.93						S-E	DISTRIBUTED POWER MODULE
		V3	<u> </u>				L .				12							TERY	SPEAKER/STROBE INTERIOR O
		V4	5				3				12	1.93	1.594	200	1.231	5.13	CA	LCS	
											12	1.93							SPEAKER/STROBE INTERIOR C
				<u> </u>							12						1.87	4.0	
											12	1.93							SPEAKER/STROBE INTERIOR V
			<u> </u>				-				12	1.93							SPEAKER/STROBE INTERIOR V
						1	1	1		l	12	1.93		1		1			SPEAKER/STROBE INTERIOR V

											12	1.93						
STROBE C	CIRCUIT VOLTAG	E DROP (CALCUI	LATION	IS													
						DEVIC	CES				WIRE			ONE-WAY LOOP				
POWER	LOCATED IN	LOOP TYPE &	75cd	75cd	15cd			STRO			SIZE	DC RESIST.	TOTAL ALARM	LENGTH FROM POWER SUPPLY TO	TOTAL VD	VOLTAGE DROP		BATTERY SELECTED
SUPPLY#		No.	CEILING	CEILING			15cd : - I(a) (<i>A</i>		75cd	110cd		/1000'	CURRENT	MIDDLE OF			SIZE	
			0.272	0.272				0.096	0.180	0.224	AWG	онмѕ	AMPS	FEET	VOLTS	%	АН	АН
RPS-F		V1					4				12	1.93	0.312	159	0.191	0.80	SI	E
		V2							4		12	1.93	0.720	207	0.575	2.40	RP	S-F
		V3							3		12	1.93	0.540	312	0.650	2.71	BATT	ΓERY
		V4									12	1.93					CAI	LCS
											12	1.93						
											12	1.93					1.87	4.0
											12	1.93						
											12							
											12	1.93						

		V3							3		12	1.93	0.540	312	0.650	2.71	BAT	TERY
		V4									12	1.93	3				CA	LCS
											12	1.93	3					
											12	1.93	3				1.87	4.0
											12	1.93	3					
											12	1.93	3					
											12	1.93	3					
														ONE-WAY		I		
						DEVIC	CES.				l w	/IRE		LOOP				
						DEVI					-		1	LENGTH				
		LOOP						STR	OBES			DC	TOTAL	FROM POWER	TOTAL	VOLTAGE	MINIMUM	BATTERY
POWER	LOCATED IN	TYPE &	75cd	75cd	15cd						SIZE	RESIST.	ALARM	SUPPLY TO	VD	DROP	BATTERY	SELECTE
SUPPLY#		No.	CEILING	CEILING	CLNG	30cd	15cd	30cd	75cd	110cd		/1000'	CURRENT	MIDDLE OF			SIZE	
					Alarm	Current	t - I(a) (A	mp)	•	•	1							
			0.272	0.272	0.120	0.120	0.078	0.096	0.180	0.224	AWG	OHMS	AMPS	FEET	VOLTS	%	AH	AH
RPS-G		V1							2		12	1.93	0.360	315	0.438	1.82	S	ĒE
		V2							3		12	1.93	0.540	160	0.334	1.39	RP	S-G
		V3		İ			4		2		12	1.93	0.672	260	0.674	2.81	BAT	TERY
		V4									12		+				CA	LCS
									<u> </u>	 	12							

											12	1.0	9				1	
											12							
											12	1.9	3					
OBE (CIRCUIT VOLTAGE	DROP	:ALCIII	ΔΤΙΩΝ	S													
ODL .	JIKOOH VOLIMOL		,,,LOO.															
														ONE-WAY				
						DEVIC	:FS				w	IRE		LOOP				
		LOOP		1							•		1	LENGTH				
		TYPE &						STR	DBES			DC	TOTAL	FROM POWER				BATTERY
R	LOCATED IN	l No	75cd	75cd	15cd		4- 1			440 1	SIZE	RESIST.		SUPPLY TO	VD	DROP		SELECTED
LY#			CEILING	CEILING					75cd	110cd		/1000'	CURRENT	MIDDLE OF			SIZE	
						Current												
			0.272	0.272	0.120	0.120	0.078	0.096	0.180	0.224	AWG			FEET	VOLTS	%	AH	AH
1		V1_					2		3		12	1.93	0.696	200	0.537	2.24	SE	ΞE
		V2									12	1.93					RP:	S-H
		V3									12	1.93					BATT	ERY
		V4									12	1.93					CAL	_CS
											12	1.93						
											12	1.93					1.87	4.0
											12	1.93						
											12	1.93						
	1										12	1.93						

						DEVIC	CES				w	/IRE		ONE-WAY LOOP					BCSD OWENS INTERMEDIATE "RPS-B" POWER & BATTERY CALCULATION
POWER SUPPLY #	LOCATED IN	LOOP TYPE & No.	75cd CEILING	75cd CEILING	15cd CLNG		15cd		OBES	110cd	SIZE	DC RESIST. /1000'	TOTAL ALARM CURRENT	LENGTH FROM POWER SUPPLY TO MIDDLE OF		VOLTAGE DROP		BATTERY SELECTED	
DDC I		1)/4	0.272	0.272	Alarm 0.120	Current 0.120	t - I(a) (A 0.078	mp) 0.096	0.180	0.224		OHMS		FEET	VOLTS	%	АН	AH	DEVICE
RPS-J		V1 V2 V3	1		2	3	3		1 4	1	12 12 12	1.93	0.944 1.052 0.954	450	0.951 1.470 1.657	3.96 6.12 6.90	RF	EE 'S-J TERY	DESCRIPTION
		V4			4		2		1		12 12 12		0.816	562	1.770	7.38	1.87	LCS 4.0	DISTRIBUTED POWER MODULE
											12	1.93					1.07	4.0	SPEAKER/STROBE INTERIOR CEILING 75cd
								_			12	1.93				-			SPEAKER/STROBE INTERIOR WALL MOUNT 15cd SPEAKER/STROBE INTERIOR WALL MOUNT 30cd

					DEVIC	CES				W	IRE		ONE-WAY LOOP				
POWER	LOCATED IN	LOOP TYPE & No.	75cd	75cd				OBES		SIZE	DC RESIST.	ALARM	LENGTH FROM POWER SUPPLY TO	TOTAL VD	VOLTAGE DROP	MINIMUM BATTERY	
SUPPLY#		NO.	CEILING	CEILING HORI Alarr				75cd	110cd		/1000'	CURRENT	MIDDLE OF			SIZE	
			0.272	0.272				0.180	0.224	AWG	OHMS	AMPS	FEET	VOLTS	%	АН	AH
RPS-B		V1	5	0.2.1						12		1.360	382	2.005		SI	EE
		V2	5				1			12	1.93	1.456	268	1.506	6.28	RP	S-B
		V3	4			3	1			12		1.418	388	2.124	8.85	BAT	TERY
		V4								12						CA	LCS
										12							
										12						1.87	4.0
										12							
										12 12							

1	SPEAKER	CIRCUIT	WIRING	GUIDELINES
\ I /	NOT TO SCALE			

LENGTH

FEET

/1000' CURRENT MIDDLE OF

DC TOTAL FROM POWER TOTAL VOLTAGE MINIMUM BATTERY

RPS-L

BATTERY CALCS

APP-02

#12AWG

7,700

5,140

3,080

#12AWG

61,100

40,730

24,440

#14 AWG

4,850

3,230

1,930

#14 AWG

38,360

25,570 15,340

SIZE RESIST. ALARM SUPPLY TO VD DROP BATTERY SELECTED

ISTROBE CIRCUIT VOLTAGE DROP CALCULATIONS

LOCATED IN

SUPPLY#

TYPE & | 75cd | 75cd | 15cd

wiring without ill effects.

with the addressable loop.

At 25VRMS Output:

At 70VRMS Output:

25W

15W

#18 AWG

1,900

1,280

760

#18 AWG

15,200

10,130

is not the case, reduce all wire runs by 1/2.

6,080

CEILING CEILING CLNG 30cd 15cd 30cd

Alarm Current - I(a) (Amp)

0.272 | 0.272 | 0.120 | 0.120 | 0.078 | 0.096 | 0.180 | 0.224 | AWG | OHMS | AMPS

Application Drawing

Field Wiring Guidelines

The speaker circuits of most voice evacuation systems will typically be classified as

power limited wiring. As such, these speaker circuits can be run with other fire alarm

No special cabling is required for the speaker circuits. Standard FPL or FPLP wire is

extraneous noise from their addressable loop, and cannot be run using shielded cable.

picked up by and heard in speakers during standby operation, and possible interference

Generally, #18 AWG will be adequate for speaker circuits. The only time that heavier wire

The table below illustrates typical wire lengths for specific wire gauge and speaker load:*

#16AWG

3,050

2,030

1,220

#16AWG

24,200

16,130

9,680

* This table assumes that there is an even distribution of the speaker load on the speaker circuit, and that a 20% drop at the last device is allowable. If an even distribution of load

is needed is when load is high, and wire runs are long. But remember, it never hurts to go with heavier wire. So if a #16 or #14 AWG pair is being pulled for strobes, it is often easier and

sufficient. Twisted pair or shielding twisted pair wiring is not necessary.

less costly to pull the same wire for the evacuation speaker circuits.

There is one exception, however. Certain addressable systems may generate

In this case, shielding of the evacuation speaker circuit will help to eliminate noise

12 1.93 12 1.93 12 1.93 12 1.93 12 1.93

DEVICE	PANI	FACP			
DESCRIPTION	STAND-BY (mA)	ALARM (mA)	QUANTITY	STAND-BY (mA)	ALARM (mA)
VESDA SYSTEM VEP-A00-1P	360	390	1	360	390
TOTALS (AMPS):				l(s) 0.360	I(a) 0.390
Amp Hour:				10.49	

DEVICE	PANE	FACP			
DESCRIPTION	STAND-BY (mA)	ALARM (mA)	QUANTITY	STAND-BY (mA)	ALARM (mA)
VESDA SYSTEM VEP-A00-1P	360	390	1	360	390
TOTALS (AMPS):				I(s) 0.360	I(a) 0.390

BCSD OWENS INTERMEDIATE						BCSD OWENS INTERMEDIATE					
"RPS-L" POWER & BATTERY CALCULATION						"RPS-G" POWER & BATTERY CALCULATION					
DEVICE	PAN	EL		FACP		DEVICE	PAN	EL		FACP	
DESCRIPTION	STAND-BY (mA)	ALARM (mA)	1 QUANTITY	STAND-BY (mA)	ALARM (mA)	DESCRIPTION	STAND-BY (mA)	ALARM (mA)	QUANTITY	STAND-BY (mA)	ALARN (mA)
DISTRIBUTED POWER MODULE	130	130	1	130	130	DISTRIBUTED POWER MODULE	130			130	130
SPEAKER/STROBE INTERIOR CEILING 30cd		120			120	SPEAKER/STROBE INTERIOR CEILING 30cd		120			
SPEAKER/STROBE INTERIOR CEILING 75cd		272	2			SPEAKER/STROBE INTERIOR CEILING 75cd		272	2		
SPEAKER/STROBE INTERIOR WALL MOUNT 15cd		78	3 3		234	SPEAKER/STROBE INTERIOR WALL MOUNT 15cd		78	3 4		312
SPEAKER/STROBE INTERIOR WALL MOUNT 30cd		96			96	SPEAKER/STROBE INTERIOR WALL MOUNT 30cd		96	6		1
SPEAKER/STROBE INTERIOR WALL MOUNT 75cd		180			540	SPEAKER/STROBE INTERIOR WALL MOUNT 75cd		180	7		126
					1						
										-	
TOTALS (AMPS):			+	l(s)	l(a)	TOTALS (AMPS):				l(s)	l(a)
TOTALS (AIVIFS).				0.130	1.120	13 17 LES (r tivil S).				0.130	1.702
Amp Hour:				4.08		Amp Hour:				4.25	
Battery to be provided -				7.0		Battery to be provided -				7.0	
Battery to be provided -				7.0		Battery to be provided -				7.0	

OWENS INTERMEDIATE

DEVICE

TOTALS (AMPS):

Battery to be provided -

BCSD OWENS INTERMEDIATE

"RPS-E" POWER & BATTERY CALCULATION

SPEAKER/STROBE INTERIOR CEILING 75cd

SPEAKER/STROBE INTERIOR WALL MOUNT 15ca SPEAKER/STROBE INTERIOR WALL MOUNT 30ca

"RPS-F" POWER & BATTERY CALCULATION

DISTRIBUTED POWER MODULE
SPEAKER/STROBE INTERIOR CEILING 30cd
SPEAKER/STROBE INTERIOR CEILING 75cd

SPEAKER/STROBE INTERIOR WALL MOUNT 15c SPEAKER/STROBE INTERIOR WALL MOUNT 30cd SPEAKER/STROBE INTERIOR WALL MOUNT 75cd

Amp Hour:

DEVICE

DESCRIPTION

TOTALS (AMPS):

attery to be provided -

Amp Hour:

DEVICE

DESCRIPTION

TOTALS (AMPS):

Battery to be provided -

FACP

3.99

7.0

FACP

FACP

3.91

7.0

(mA) (mA)

STAND-BY ALARM QUANTITY STAND-BY ALARM

STAND-BY ALARM

(mA) (mA)

STAND-BY ALARM

(mA) (mA)

PANEL

PANEL

PANEL

"FACP" POWER & BATTERY CALCULATION

GITAL ALARM COMMUNICATOR
PEAKER/STROBE INTERIOR CEILING 15cd

SPEAKER/STROBE INTERIOR CEILING 30cd
SPEAKER/STROBE INTERIOR CEILING 75cd
SPEAKER/STROBE INTERIOR WALL MOUNT 15cd

FOR FACP/FAPS/DPM - 24 HOURS STANDBY & 15 MIN IN ALARM: AMP HOUR = 1.20 [(24 HOURS X I(S)) + (15/60 HOUR X I(A))]

I(A) = TOTAL ALARM CURRENT

TOTAL VD = TOTAL DC RESISTANCE X TOTAL ALARM CURRENT

MINIMUM VOLTAGE AT DEVICES = 20.4V - TOTAL VD 20.4V = MINIMUM VOLTAGE AT END OF USEFUL BATTERY LIFE (85% OF 24VDC)

NOTE: THE MANUFACTURER'S OPERATING VOLTAGE IS BETWEEN 16VDC AND 33 VDC (FOR 24VDC NOMINAL)

FORMULAS USED FOR CALCULATIONS: FORMULA FOR BATTERY SIZING:

"RPS-H" POWER & BATTERY CALCULATION

DISTRIBUTED POWER MODULE
SPEAKER/STROBE INTERIOR CEILING 30cd
SPEAKER/STROBE INTERIOR CEILING 75cd

SPEAKER/STROBE INTERIOR WALL MOUNT 15cd SPEAKER/STROBE INTERIOR WALL MOUNT 30cd SPEAKER/STROBE INTERIOR WALL MOUNT 75cd

TOTALS (AMPS):

Battery to be provided -

BCSD OWENS INTERMEDIATE

"RPS-J" POWER & BATTERY CALCULATION

PEAKER/STROBE INTERIOR CEILING 30cd
PEAKER/STROBE INTERIOR CEILING 75cd
PEAKER/STROBE INTERIOR CEILING 15cd

SPEAKER/STROBE INTERIOR CEILING 13cd
SPEAKER/STROBE INTERIOR WALL MOUNT 15cd
SPEAKER/STROBE INTERIOR WALL MOUNT 75cd
SPEAKER/STROBE INTERIOR WALL MOUNT 110cd

Amp Hour:

DEVICE

DESCRIPTION

OTALS (AMPS):

Battery to be provided -

ΓΟΤΑLS (AMPS):

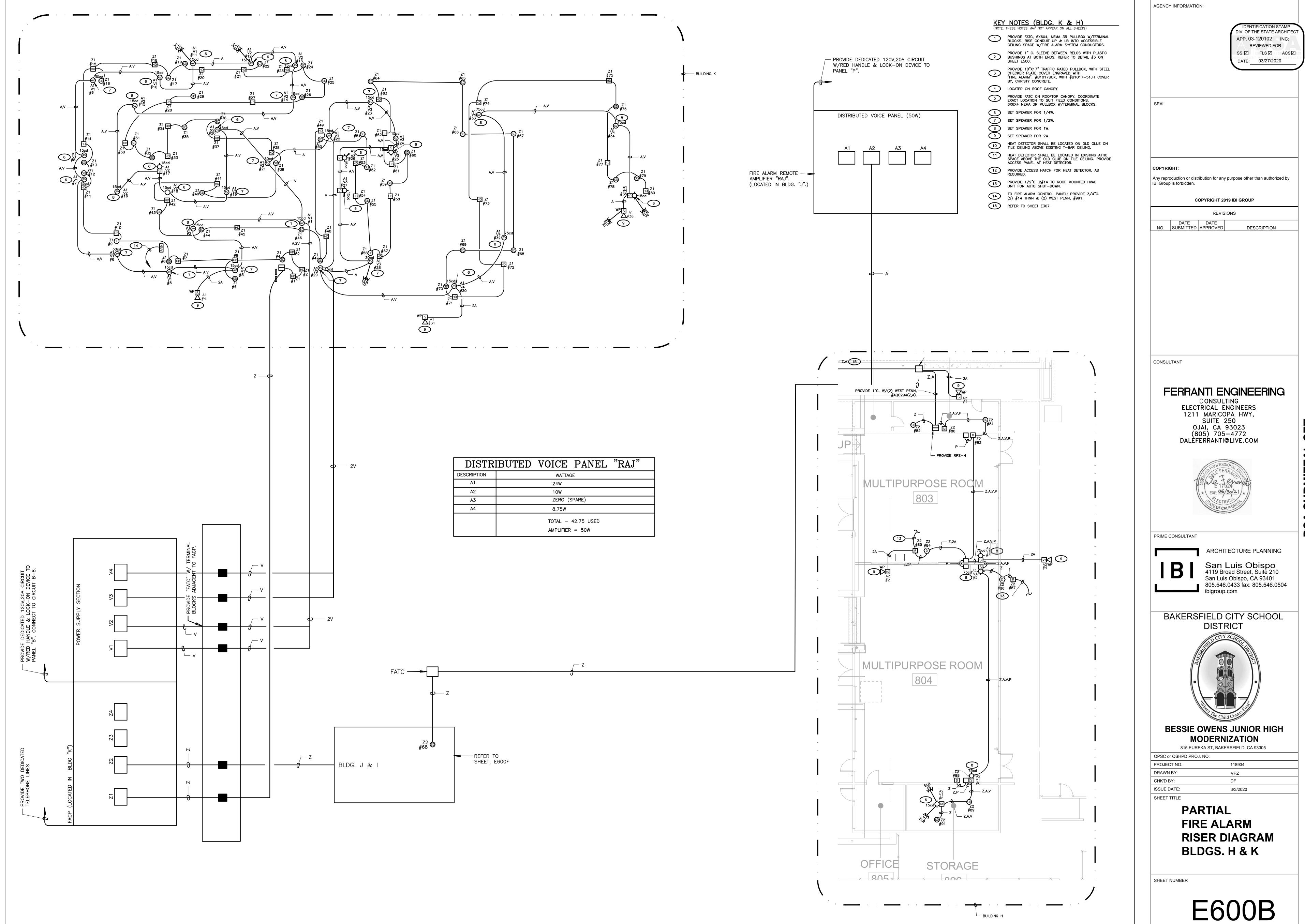
Battery to be provided -

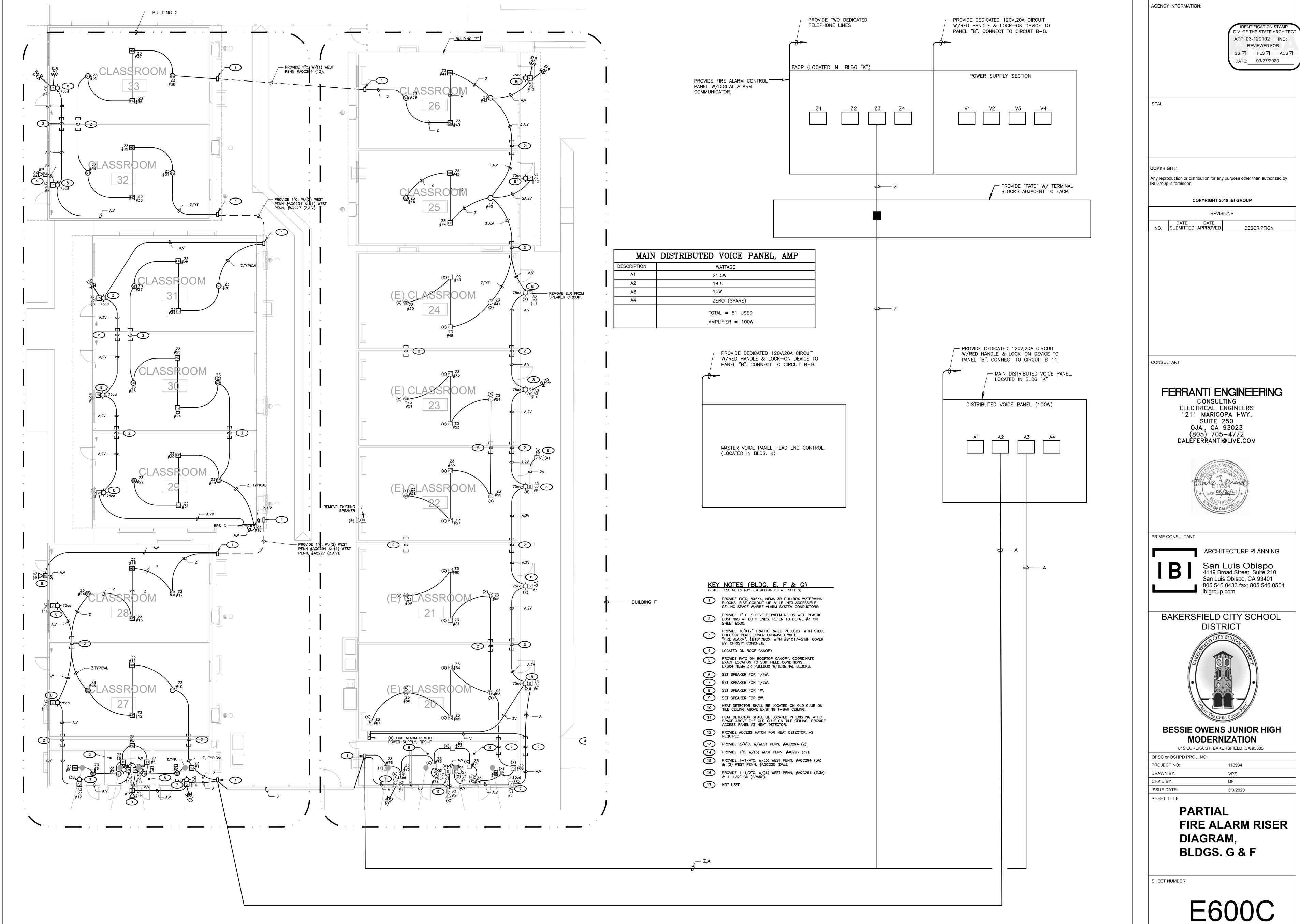
Amp Hour:

Amp Hour:

WHERE, 1.20 = BATTERY DERATING VALUE I(S) = TOTAL SUPERVISORY CURRENT (O FOR NOTIFICATION DEVICES AND 48 mA FOR FCPS-24)

FORMULA FOR VOLTAGE DROP CALCULATIONS TOTAL DC RESISTANCE = # OF WIRES X Rdc/1000 X ONE-WAY LOOP LENGTH FROM POWER SUPPLY TO MIDDLE OF LOAD

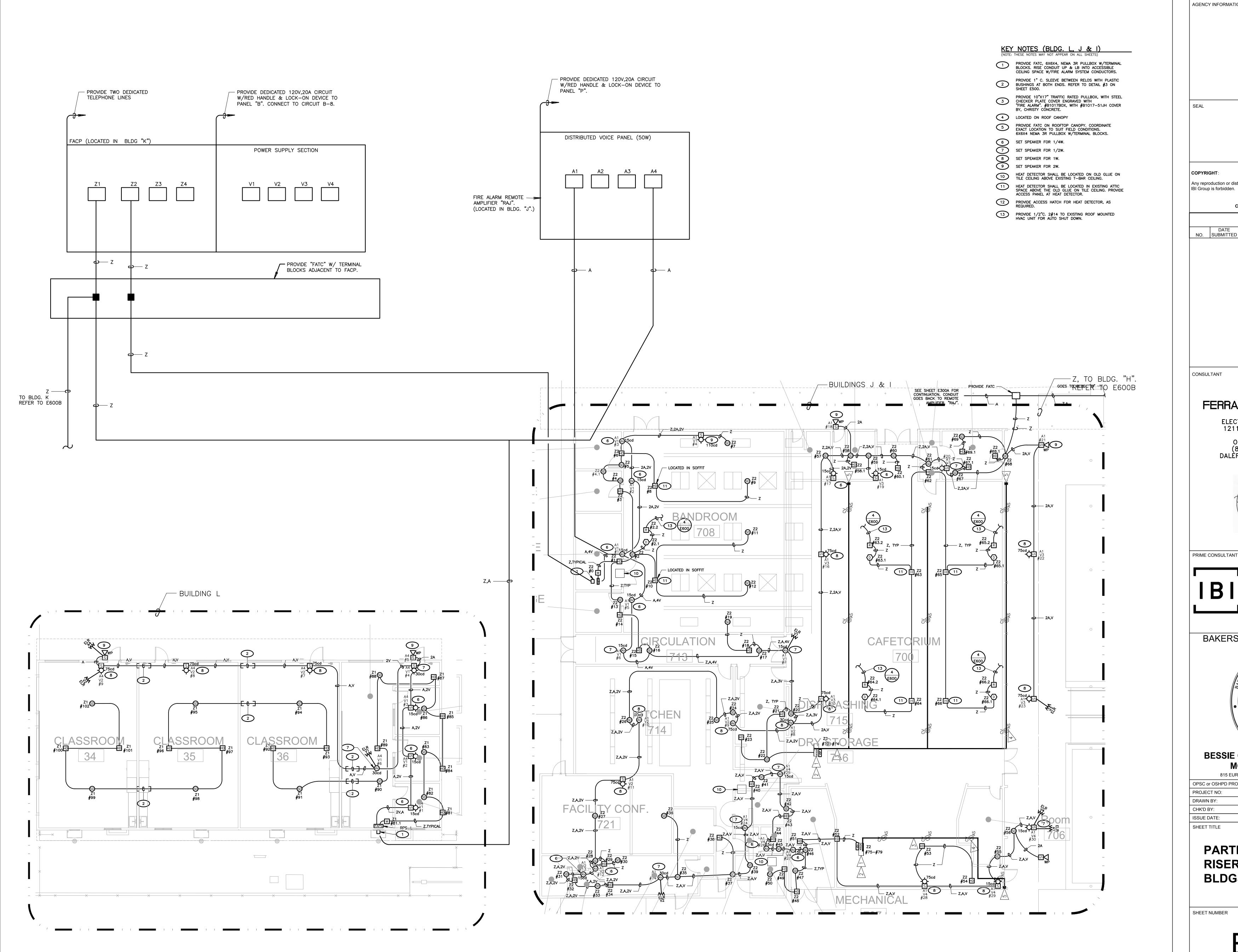




E600D

E600E





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NO. DATE DATE APPROVED DESCRIPTION

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BAKERSFIELD CITY SCHOOL



BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305 OPSC or OSHPD PROJ. NO:

PROJECT NO: 118934 VPZ DF ISSUE DATE: 3/3/2020 SHEET TITLE

> PARTIAL FIRE ALARM **RISER DIAGRAM** BLDGS L & J, I

> > E600F

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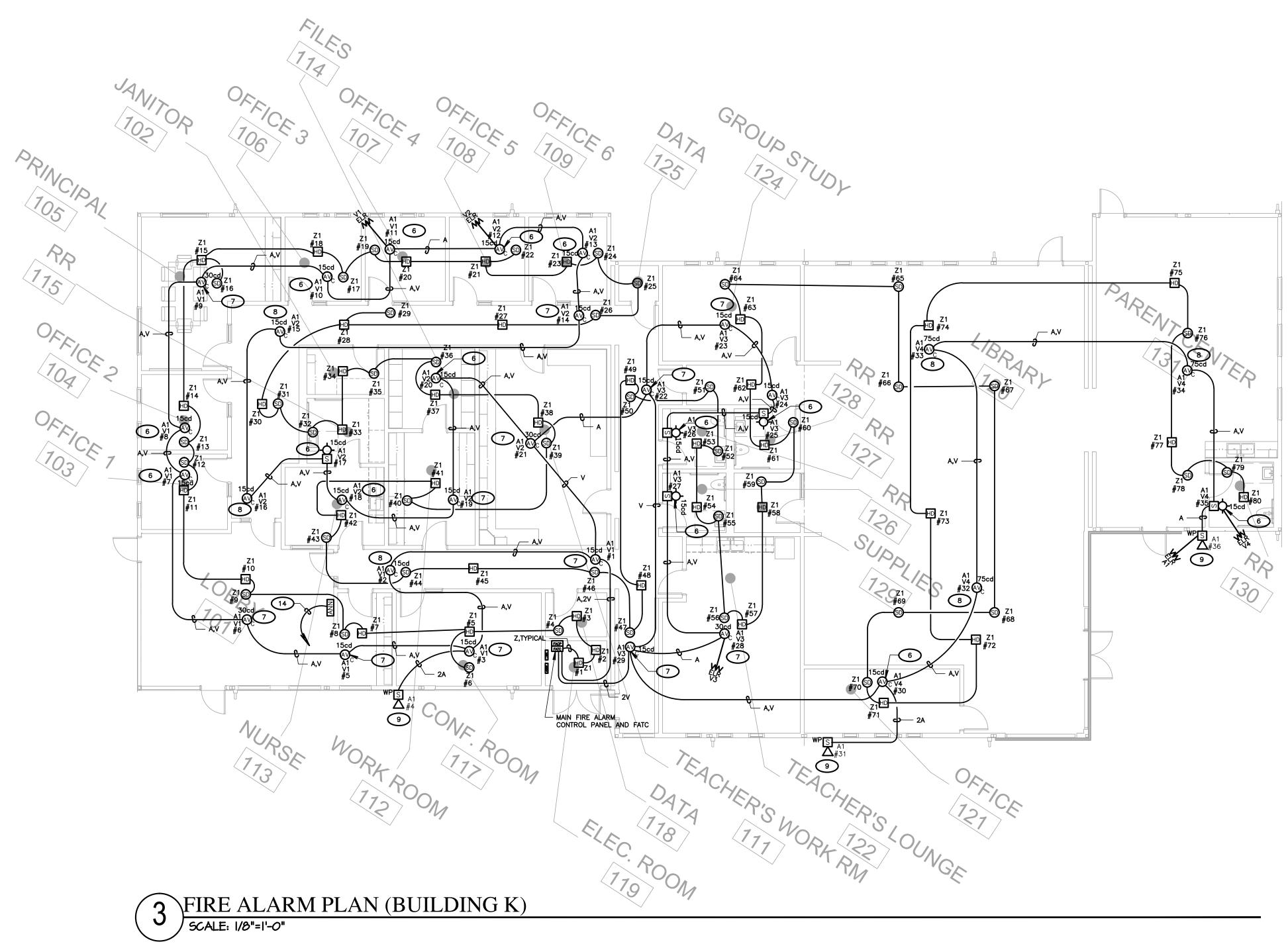
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CONSULTANT

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APP. 03-120102 INC: REVIEWED FOR SS FLS ACS

DATE: 03/27/2020



GENERAL NOTES

1. SMOKE DETECTORS SHALL BE INSTALLED 3' AWAY FROM SUPPLY AND RETURN AIR GRILLES.

 FINAL FIRE ALARM TEST OF ALL DEVICES SHALL BE WITNESSED BY THE PROJECT INSPECTOR. TEST SHALL INCLUDE ALL INFORMATION PER NFPA 72, FIGURE 14.6.2.4 AND READ OUT VERIFICATION FORM FROM CENTRAL STATION. TEST SHALL ALSO BE WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A.H.J.).

UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER—TIGHT FITTINGS (C.E.C. 110.11 AND 300.6). 4. AUDIBLE DEVICE(S) SHALL BE AT LEAST 15dbA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75dbA AT 10' OR MORE THAN 110

dba in total, Throughout! (NFPA 72 18.4.1 AND C.F.C. 907.6.2). 5. AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA CODE IN TEMPORAL PATTERN, CODE 3.

6. VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH PER SECOND. (NFPA 72

7. PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF INSTALLATION AT FIRE ALARM POWER EXPANDER PANEL. WHITE LETTERS ON A RED BACKGROUND. PROVIDE A COPY OF THE BATTERY CALCULATION AT THE FIRE ALARM POWER EXPANDER PANEL. BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.

9. MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF SYNCHRONIZED APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION (NFPA 72

10. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (C.F.C. 907.9).

11. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS. 12. DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL

BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED BUILDING WALLS. 13. ALL JUNCTIONS BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS

SHALL BE WEATHERPROOF TYPE. 14. FIRE ALARM WIRES SHALL BE COPPER TYPE THWN/THHN.

15. ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION

16. WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, PROVIDE A FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE

17. JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH. TERMINATIONS SHALL BE PERFORMED. 18. ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED. 19. CONTRACTOR SHALL FIELD VERIFY ALL DEVICES FOR ACCESSIBILITY. SOME

CONTRACTOR SHALL PROVIDE ALL WIRE, CABLES, J-BOXES, BACK-BOXES, FITTINGS, CONDUIT, SUPPORTS, WIREMOLD, ETC. FOR A COMPLETE & FUNCTIONING SYSTEM.

DEVICES MAY NEED SURFACE RACEWAY (WIREMOLD) IF ACCESSIBILITY IS

KEY NOTES (BLDG. K & H)

PROVIDE FATC, 6X6X4, NEMA 3R PULLBOX W/TERMINAL BLOCKS. RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.

PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET F500

PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM". #B1017BOX, WITH #B1017-51JH COVER BY, CHRISTY CONCRETE.

4 LOCATED ON ROOF CANOPY

PROVIDE FATC ON ROOFTOP CANOPY. COORDINATE EXACT LOCATION TO SUIT FIELD CONDITIONS. 6X6X4 NEMA 3R PULLBOX W/TERMINAL BLOCKS.

6 SET SPEAKER FOR 1/4W. 7 SET SPEAKER FOR 1/2W.

8 SET SPEAKER FOR 1W.

9 SET SPEAKER FOR 2W. HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON TILE CEILING ABOVE EXISTING T-BAR CEILING.

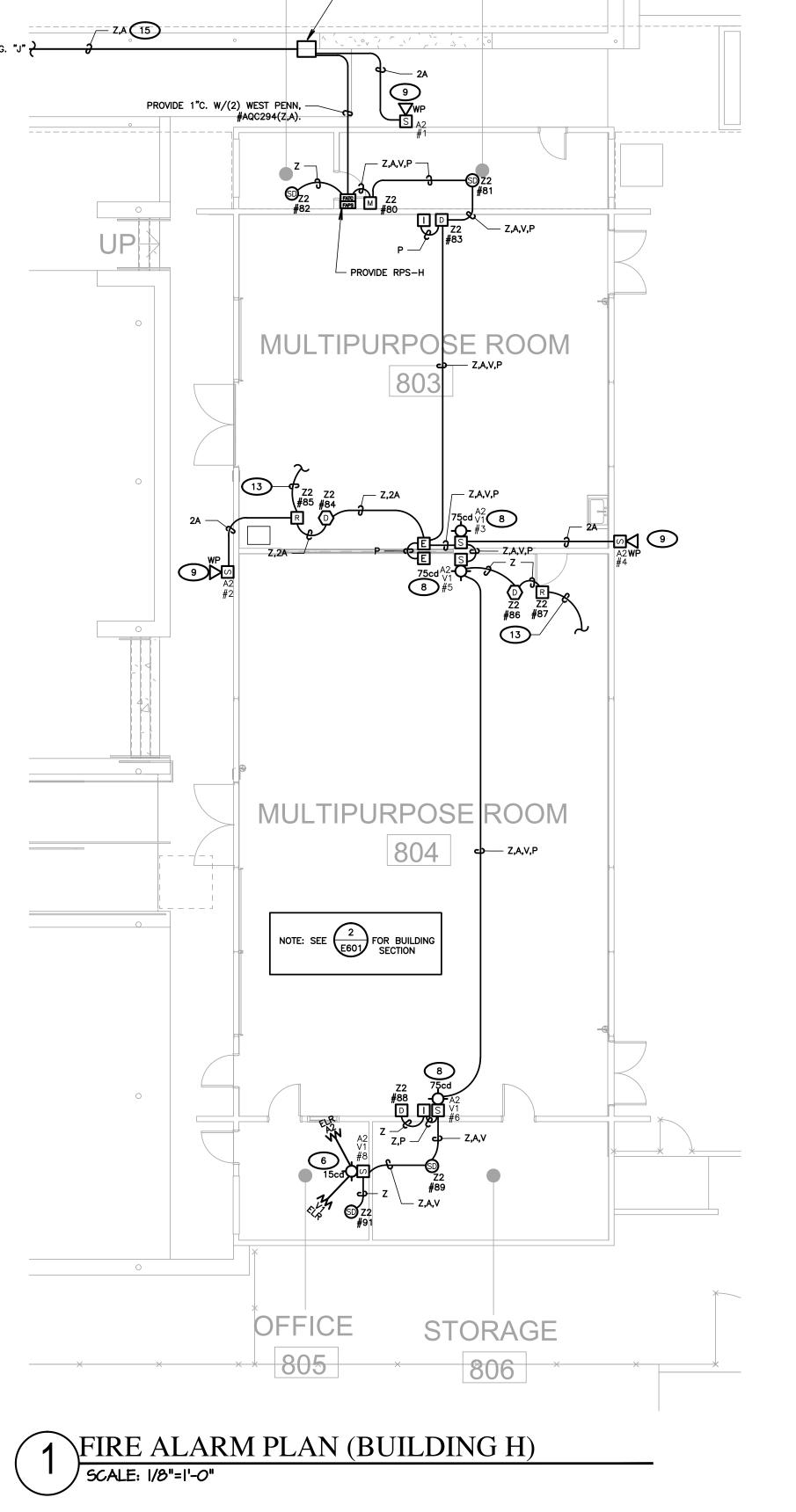
HEAT DETECTOR SHALL BE LOCATED IN EXISTING ATTIC SPACE ABOVE THE OLD GLUE ON TILE CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.

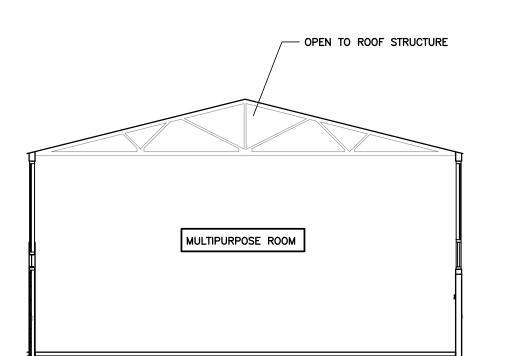
PROVIDE ACCESS HATCH FOR HEAT DETECTOR, AS REQUIRED.

PROVIDE 1/2"C. 2#14 TO ROOF MOUNTED HVAC UNIT FOR AUTO SHUT-DOWN.

15 REFER TO SHEET E307.

TO FIRE ALARM CONTROL PANEL: PROVIDE 3/4"C. (2) #14 THNN & (2) WEST PENN, #991.





2 BUILDING SECTION (BLDG H)
SCALE: NOT TO SCALE



FIRE ALARM **PLAN** (BUILDING K & H)

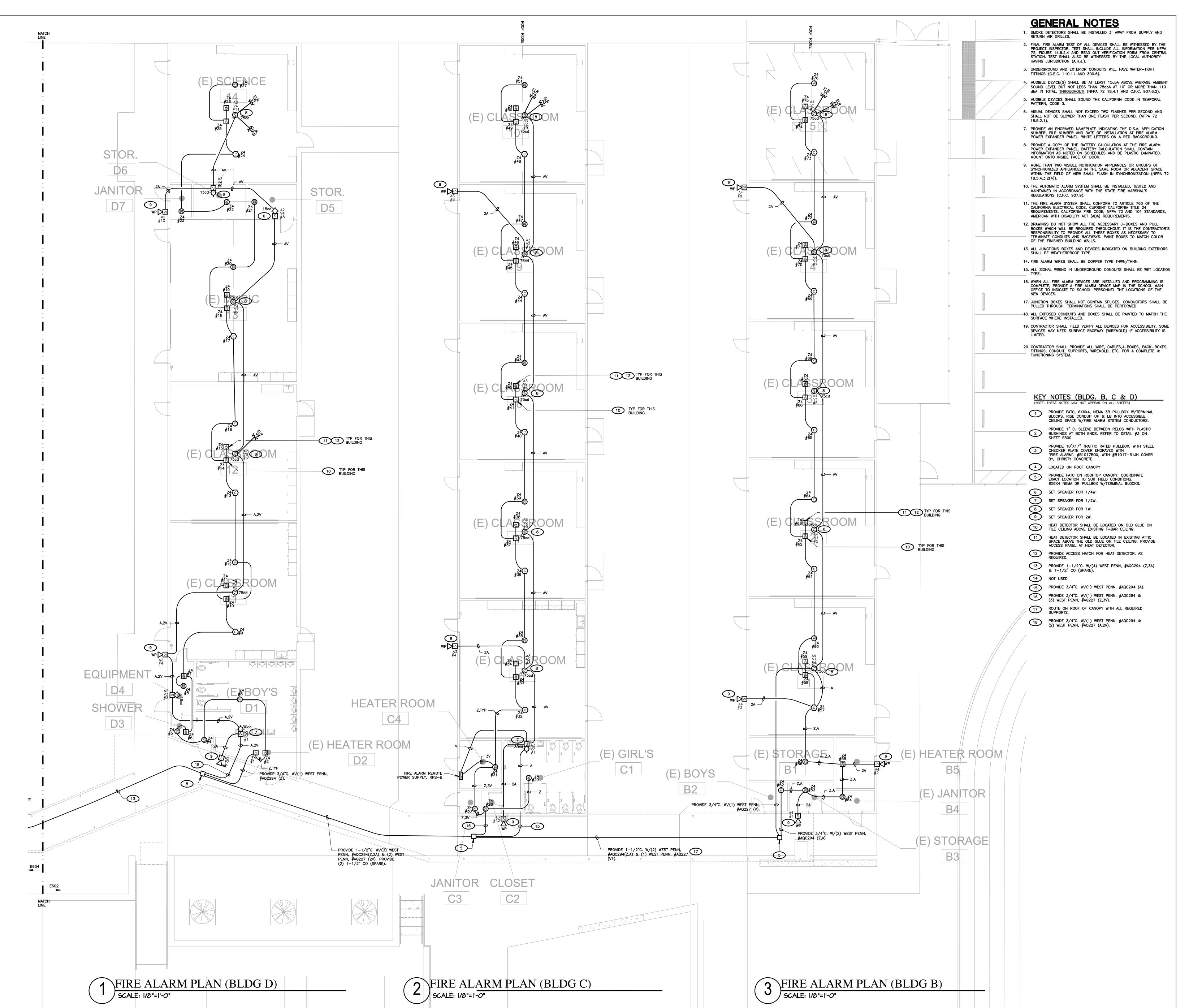
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ISSUE DATE:

SHEET TITLE





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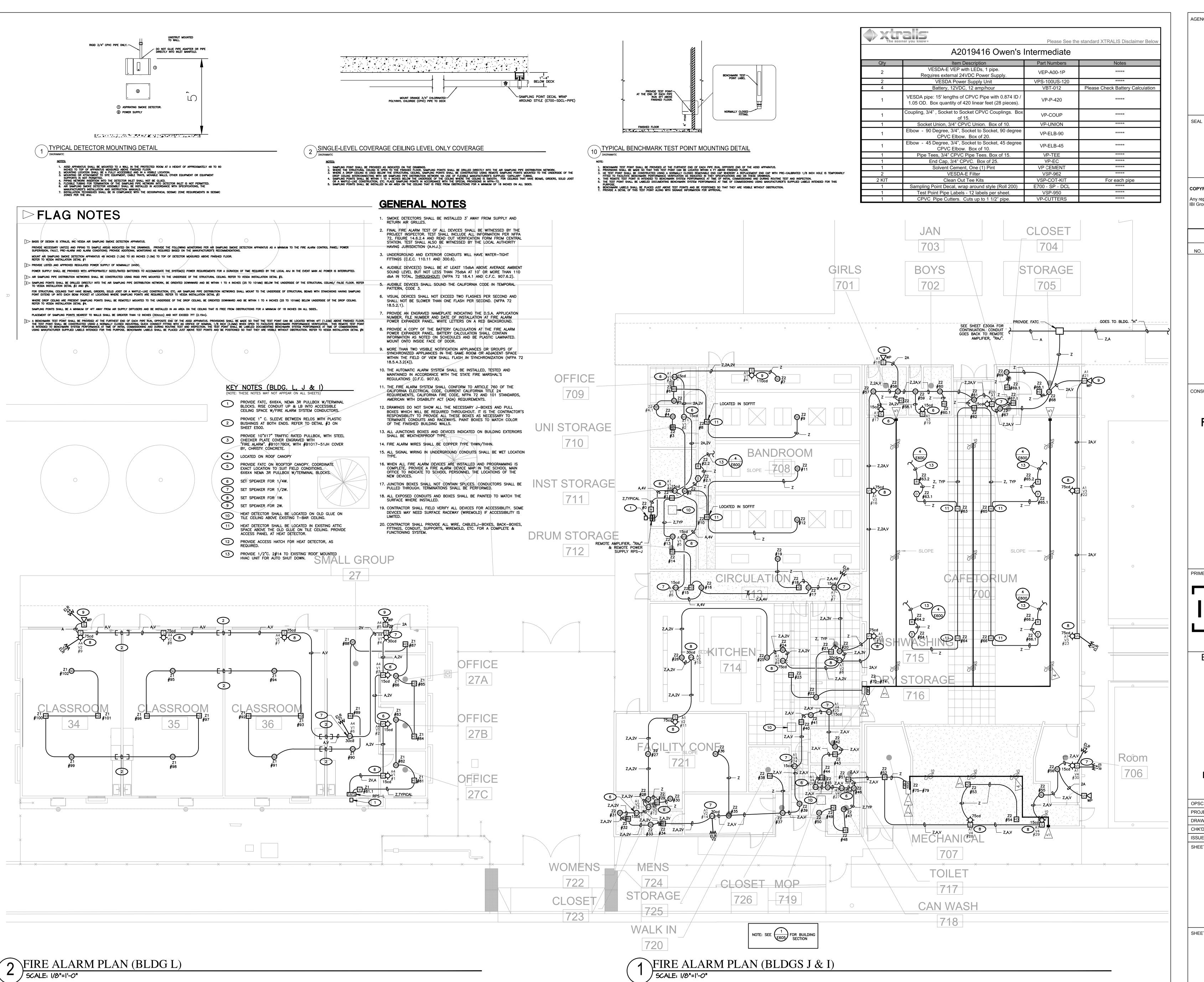


BESSIE OWENS JUNIOR HIGH MODERNIZATION 815 EUREKA ST, BAKERSFIELD, CA 93305

0.0 = 0.1 = 1.0 1.7 = 7 = 1.0	
OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020
SHEET TITLE	

FIRE ALARM PLAN (BLDGS B,C,&D)

SHEET NUMBER



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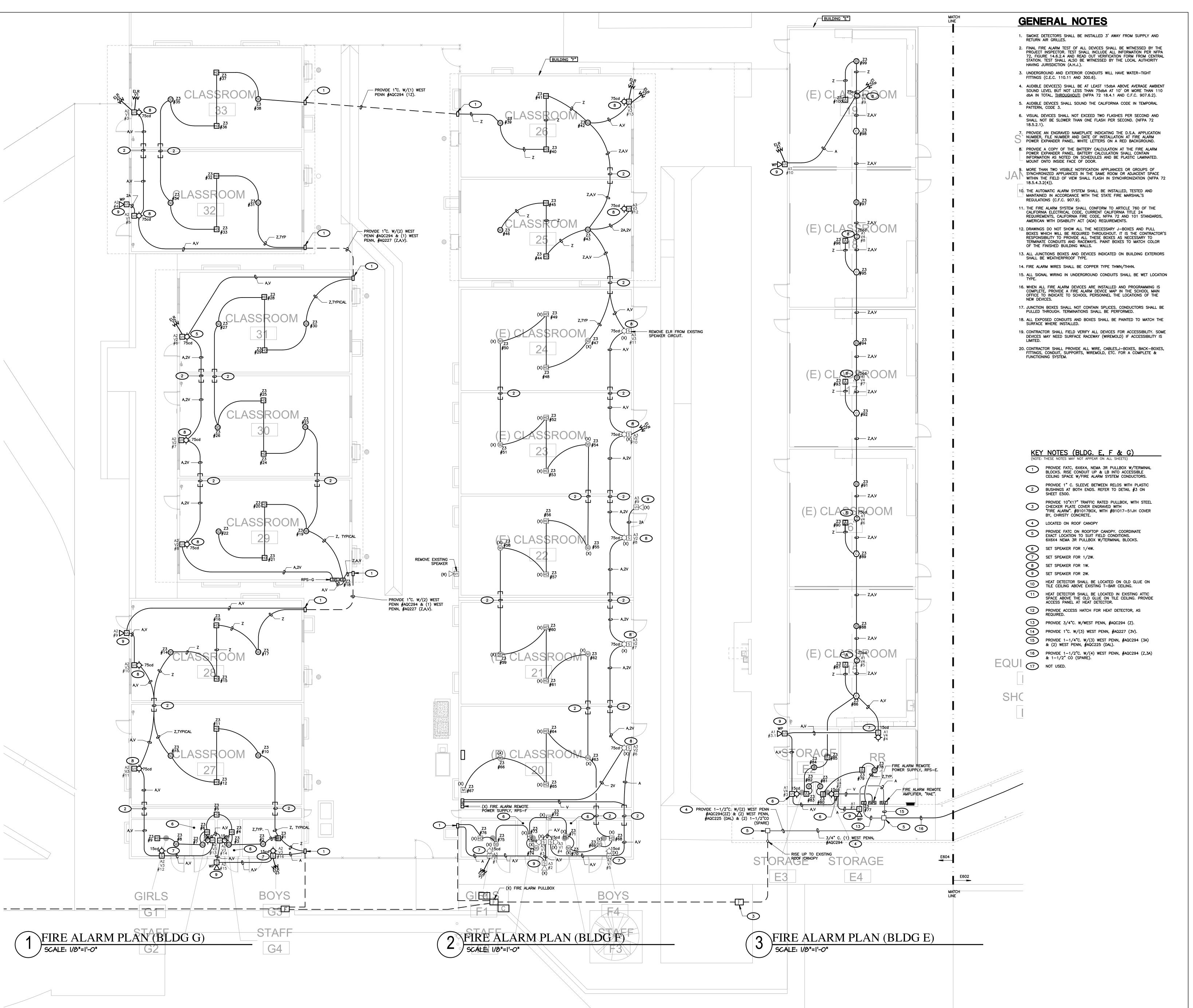
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FIRE ALARM PLAN BLDGS L & J, I

SHEET NUMBER





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 PROJECT NO:
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FIRE ALARM PLAN (BLDGS. E, F & G)

SHEET NUMBER

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QUEET TITI E	

BUILDING CEILING

TYPE LEGENDS, **BUILDING SECTIONS**

SHEET NUMBER

E605

3. K	CEILING TYPE	LEGEND	BLDG. J/	I CEILING TY	PE LEGEND	
UMBER	ROOM NAME	CEILING TYPE	ROOM NUMBER	ROOM NAME	CEILING TYPE	
	JANITOR	T-BAR	704	GIRLS	LIADD LID W/ATTIC	
	PRINCIPAL	T-BAR	701	GIRLS	HARD LID W/ATTIC	
	OFFICE 3	T-BAR	702	DOVC	LIADD LID W (ATTIC	
	OFFICE 4	T-BAR	702	BOYS	HARD LID W/ATTIC	
1	OFFICE 5	T-BAR	703		LIADD LID W (ATTIC	
•	OFFICE 6	T-BAR	, , , ,	JANITOR	HARD LID W/ATTIC	
	TEACHER'S WORK RM.	T-BAR	704	0.0057		
	WORK ROOM	T-BAR	/0+	CLOSET	HARD LID W/ATTIC	
	NURSE	T-BAR	705		LIADD LID W (ATTIC	
_	FILES	T-BAR	705	STORAGE	HARD LID W/ATTIC	
	RR	HARD LID W/ATTIC	700		HARD LID AT ROOF	
-	CONF. ROOM	T-BAR	700	CAFETORIUM	JOIST. SOFFIT DOW MIDDLE OF ROOM	
1	DATA	T-BAR	706		HARD LID AT ROOF	
t	ELEC. ROOM	T-BAR	700	ROOM	JOIST (NO ATTIC)	
	LIBRARY	T-BAR	707		HARD LID AT ROOF	
	OFFICE	T-BAR	, , , ,	MECHANICAL	JOIST (NO ATTIC)	
1	TEACHER'S LOUNGE	T-BAR	708		HARD LID AT ROOF	
	GROUP STUDY	T-BAR	700	BANDROOM	JOIST (NO ATTIC)	
	DATA	T-BAR	709			
_	RR	HARD LID W/ATTIC	709	OFFICE	HARD LID W/ATTIC	
•	RR	HARD LID W/ATTIC	710			
1	RR	HARD LID W/ATTIC	710	UNI STORAGE	HARD LID W/ATTIC	
	SUPPLIES	T-BAR	711	WOT 6757:57	11ADD 11D 11/47	
1	RR	HARD LID W/ATTIC		INST STORAGE	HARD LID W/ATTIC	
	PARENT CENTER	T-BAR	712	DD.II.4 (7727:05	11ADD 11D 11/47	
	LOBBY	T-BAR		DRUM STORAGE	HARD LID W/ATTIC	
	OFFICE 1	T-BAR	713	OID OUR ATTENT		
	OFFICE 2	T-BAR	, 10	CIRCULATION	HARD LID W/ATTIC	
_	CEILING TYF	OF IFCEND	714	KITCHEN	HARD LID AT ROOF JOIST(NO ATTIC) PARTIAL HARD LID W/ATTIC	
	ROOM NAME	CEILING TYPE	715	DISHWASHING	HARD LID W/ATTIC	

BLDG. L	CEILING TYP	'E LEGEND
ROOM NUMBER	ROOM NAME	CEILING TYPE
27A	OFFICE	T-BAR
27B	OFFICE	T-BAR
27C	OFFICE	T-BAR
27	SMALL GROUP	T-BAR
34	CLASSROOM	T-BAR
35	CLASSROOM	T-BAR
36	CLASSROOM	T-BAR

DDD G. 0/.	. Olilling II	
ROOM NUMBER	ROOM NAME	CEILING TYPE
701	GIRLS	HARD LID W/ATTIC
702	BOYS	HARD LID W/ATTIC
703	JANITOR	HARD LID W/ATTIC
704	CLOSET	HARD LID W/ATTIC
705	STORAGE	HARD LID W/ATTIC
700	CAFETORIUM	HARD LID AT ROOF JOIST. SOFFIT DOWN MIDDLE OF ROOM
706	ROOM	HARD LID AT ROOF JOIST (NO ATTIC)
707	MECHANICAL	HARD LID AT ROOF JOIST (NO ATTIC)
708	BANDROOM	HARD LID AT ROOF JOIST (NO ATTIC)
709	OFFICE	HARD LID W/ATTIC
710	UNI STORAGE	HARD LID W/ATTIC
711	INST STORAGE	HARD LID W/ATTIC
712	DRUM STORAGE	HARD LID W/ATTIC
713	CIRCULATION	HARD LID W/ATTIC
714	KITCHEN	HARD LID AT ROOF JOIST(NO ATTIC) PARTIAL HARD LID W/ATTIC
715	DISHWASHING	HARD LID W/ATTIC
716	DRY STORAGE	HARD LID W/ATTIC
717	TOILET	HARD LID W/ATTIC
718	CAN WASH	HARD LID W/ATTIC
719	MOP	HARD LID W/ATTIC
720	WALK IN	HARD LID W/ATTIC
721	FACULTY CONF.	HARD LID AT ROOF JOIST (NO ATTIC)
722	WOMENS	HARD LID W/ATTIC
723	CLOSET	HARD LID W/ATTIC
724	MENS	HARD LID W/ATTIC
725	STORAGE	HARD LID AT ROOF JOIST (NO ATTIC)
726	CLOSET	HARD LID AT ROOF JOIST (NO ATTIC)

20	CLASSROOM	T-BAR					
21	CLASSROOM	HARD LID W/ATTIC					
22	CLASSROOM	HARD LID W/ATTIC					
23	CLASSROOM	HARD LID W/ATTIC					
24	CLASSROOM	HARD LID W/ATTIC					
25	CLASSROOM	HARD LID W/ATTIC					
26	CLASSROOM	HARD LID W/ATTIC					
BLDG. G	CEILING TYPE	LEGEND					
OOM NUMBER	ROOM NAME	CEILING TYPE					
G1	GIRLS	HARD LID W/ATTIC					
G2	STAFF	HARD LID W/ATTIC					
G3	BOYS	HARD LID W/ATTIC					
G4	STAFF	HARD LID W/ATTIC					
27	CLASSROOM	T-BAR					
28	CLASSROOM	T-BAR					
29	CLASSROOM	T-BAR					
30	CLASSROOM	T-BAR					
31	CLASSROOM	T-BAR					
32	CLASSROOM	T-BAR					
33	CLASSROOM	T-BAR					
BLDG. H CEILING TYPE LEGEND							
OOM NUMBER	ROOM NAME	CEILING TYPE					
801	BOYS	HARD LID AT ROOF JOIST (NO ATTIC)					
802	CUSTODIAN	HARD LID AT ROOF JOIST (NO ATTIC)					
803	MULTIPUPOSE ROOM	EXPOSED ROOF JOIST (NO ATTIC)					
804	MULTIPUPOSE ROOM	EXPOSED ROOF JOIST (NO ATTIC)					
805	OFFICE	HARD LID AT ROOF JOIST (NO ATTIC)					

BLDG. F/F1 CEILING TYPE LEGEND

ROOM NAME

GIRLS

STAFF

STAFF

BOYS

CEILING TYPE

HARD LID W/ATTIC

HARD LID W/ATTIC

HARD LID W/ATTIC

HARD LID W/ATTIC

ROOM NUMBER

F1

F2

F3

F4

Γ 2	I STAFF				
G2 G3	BOYS	HARD LID W/ATTIC HARD LID W/ATTIC	BLDG. (CEILING TY	PE LEGEND
G4	STAFF	HARD LID W/ATTIC	ROOM NUMBER	ROOM NAME	CEILING TYPE
27	CLASSROOM	T-BAR	6	CLASSROOM	T-BAR
28	CLASSROOM	T-BAR	7	CLASSROOM	T-BAR
29	CLASSROOM	T-BAR	8	CLASSROOM	T-BAR
30	CLASSROOM	T-BAR	9	CLASSROOM	T-BAR
31	CLASSROOM	T-BAR	10	CLASSROOM	T-BAR
32	CLASSROOM	T-BAR	C1	GIRLS	HARD LID AT ROO JOIST (NO ATTIO
33	CLASSROOM	T-BAR	CI		
DIDC L	I CEILING TYI	OF IFCEND	C2	CLOSET	HARD LID AT RO
ROOM NUMBER	ROOM NAME	CEILING TYPE	C3	JANITOR	HARD LID AT RO JOIST (NO ATTI
801	BOYS	HARD LID AT ROOF JOIST (NO ATTIC)	C4	HEATER ROOM	HARD LID AT RO JOIST (NO ATTI
802	CUSTODIAN	HARD LID AT ROOF JOIST (NO ATTIC)			
803	MULTIPUPOSE ROOM	EXPOSED ROOF JOIST (NO ATTIC)	BLDG. I	BLDG. D CEILING TYPE LEGEN	
		, ,	ROOM NUMBER	ROOM NAME	CEILING TYPE
804	MULTIPUPOSE ROOM	EXPOSED ROOF JOIST (NO ATTIC)	11	CLASSROOM	T-BAR
			12	CLASSROOM	T-BAR
805	OFFICE	HARD LID AT ROOF JOIST (NO ATTIC)	13	MUSIC	T-BAR
		JOIST (NO ATTIC)	14	SCIENCE	T-BAR
806	STORAGE	HARD LID AT ROOF JOIST (NO ATTIC)	D1	BOYS	HARD LID AT ROO JOIST (NO ATTI
			D2	HEATER ROOM	HARD LID W/ATT
				.	+

D6	STORAGE	HARD LID AT ROOF JOIST (NO ATTIC)	
D7	JANITOR	HARD LID AT ROOF JOIST (NO ATTIC)	
BLDG. E	CEILING TYF	E LEGEND	
ROOM NUMBER	ROOM NAME	CEILING TYPE	
15	CLASSROOM	T-BAR	
16	CLASSROOM	T-BAR	
17	CLASSROOM	T-BAR	
18	CLASSROOM	T-BAR	
19	CLASSROOM	T-BAR	
E1	RR	T-BAR	
E2	STORAGE	HARD LID W/ATTIC	

STORAGE

STORAGE

E3

BLDG. B CEILING TYPE LEGEND

ROOM NAME

CLASSROOM

CLASSROOM

CLASSROOM

CLASSROOM

CLASSROOM

STORAGE

BOYS

STORAGE

JANITOR

HEATER ROOM

SHOWER

EQUIPMENT

STORAGE

ROOM NUMBER

CEILING TYPE

T-BAR

T-BAR

T-BAR

T-BAR

T-BAR HARD LID AT ROOF

JOIST (NO ATTIC)

HARD LID AT ROOF

JOIST (NO ATTIC)

HARD LID AT ROOF

JOIST (NO ATTIC)

HARD LID AT ROOF

HARD LID AT ROOF

JOIST (NO ATTIC)

HARD LID W/ATTIC

HARD LID AT ROOF

JOIST (NO ATTIC)

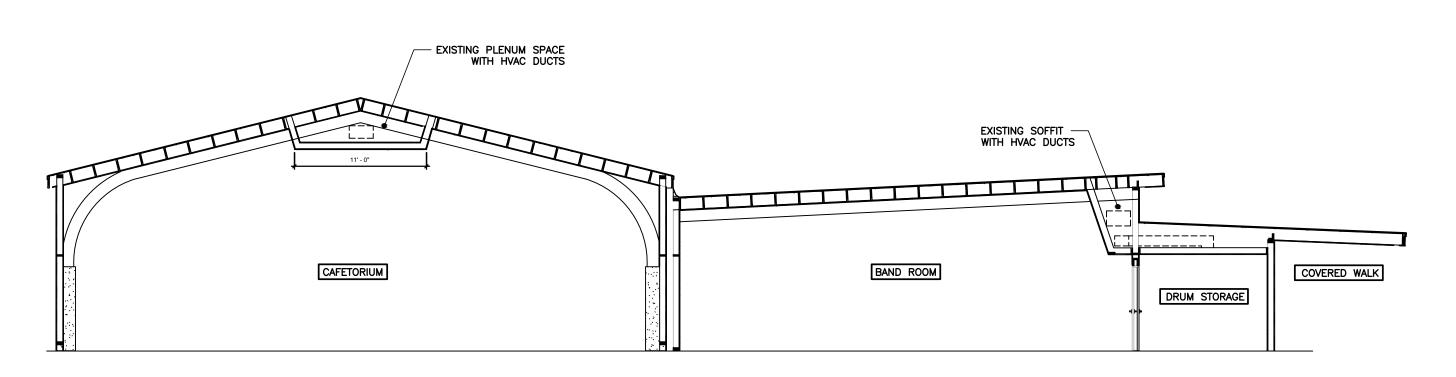
HARD LID AT ROOF

JOIST (NO ATTIC)

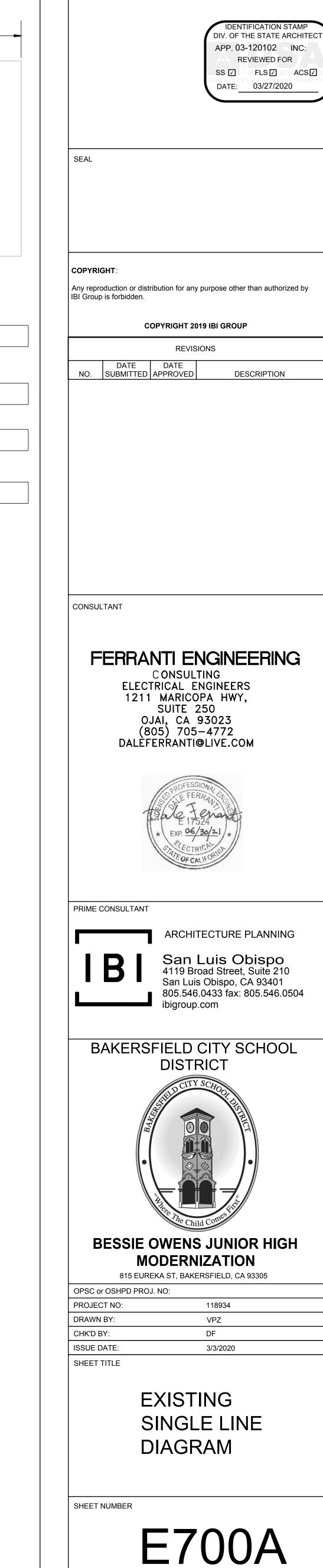
HARD LID W/ATTIC

HARD LID W/ATTIC

JOIST (NO ATTIC)

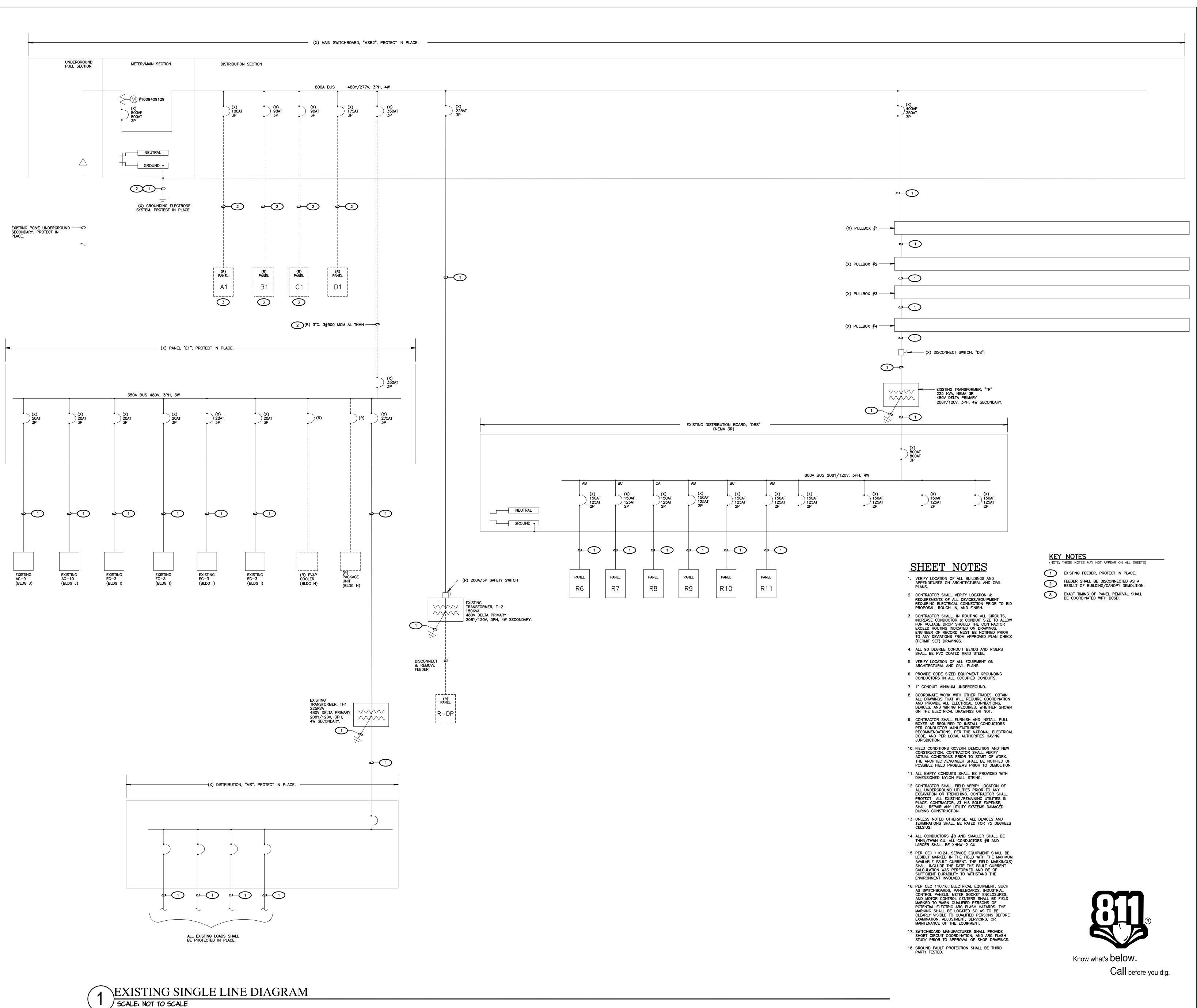


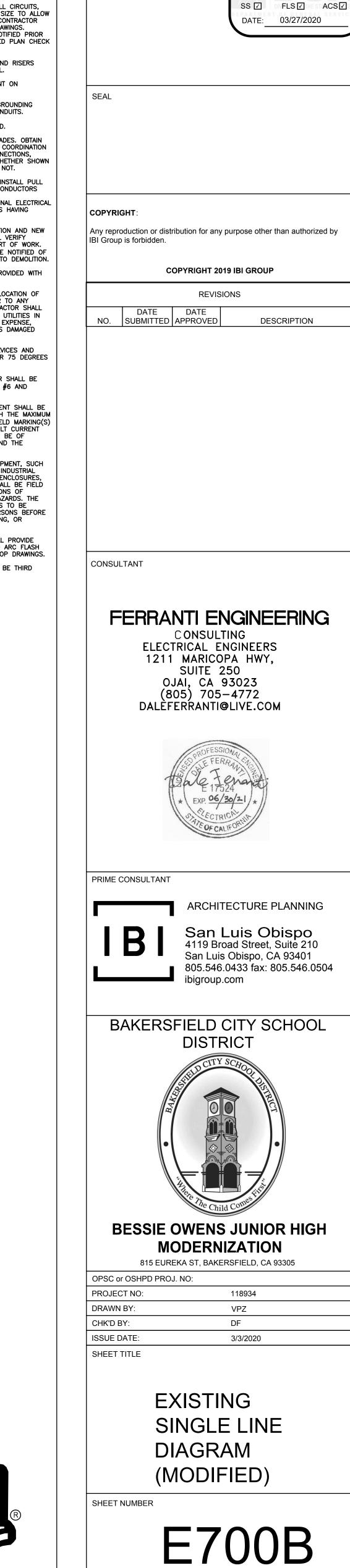
1 BUILDING SECTION (BLDGS J & I)
SCALE: NOT TO SCALE



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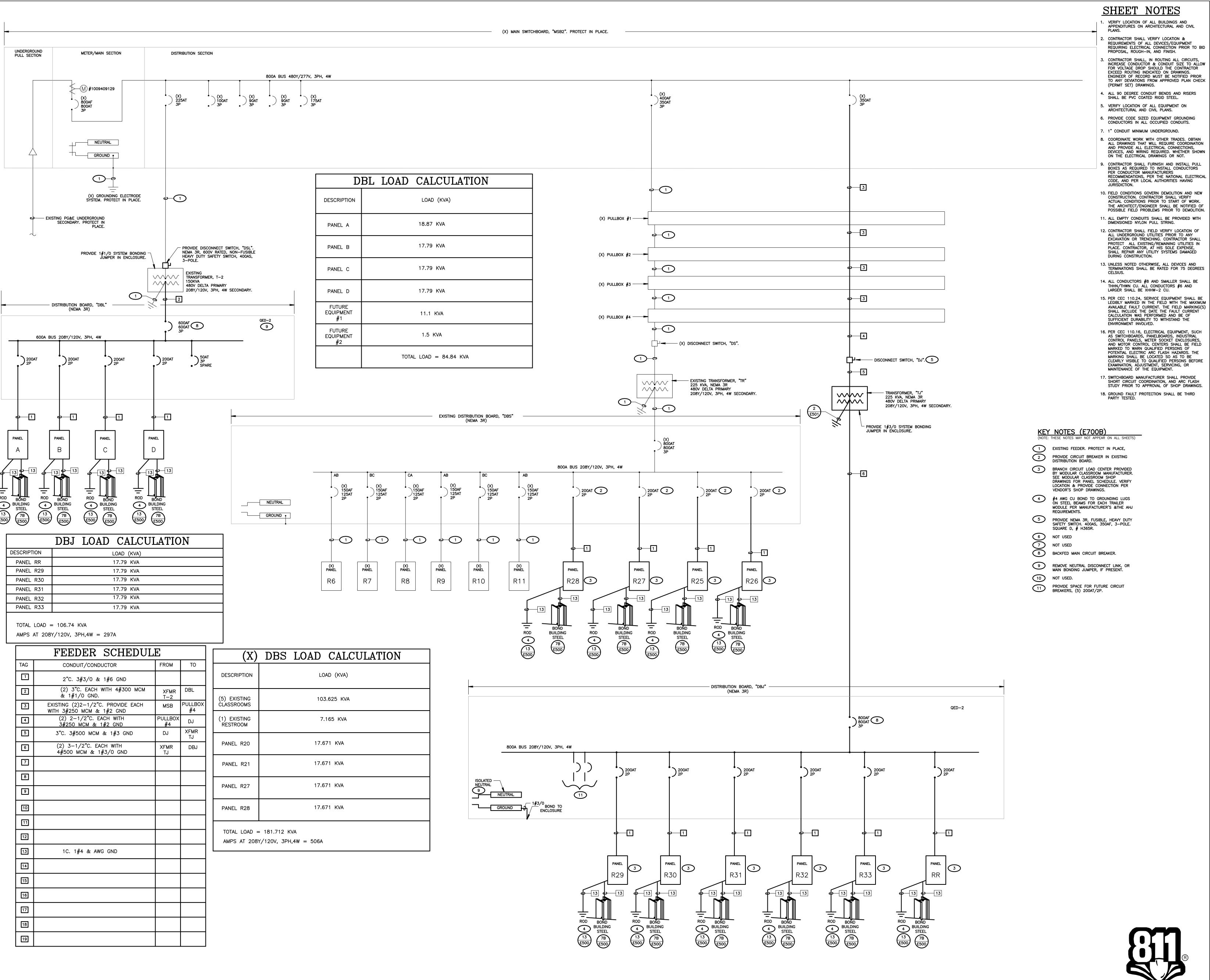
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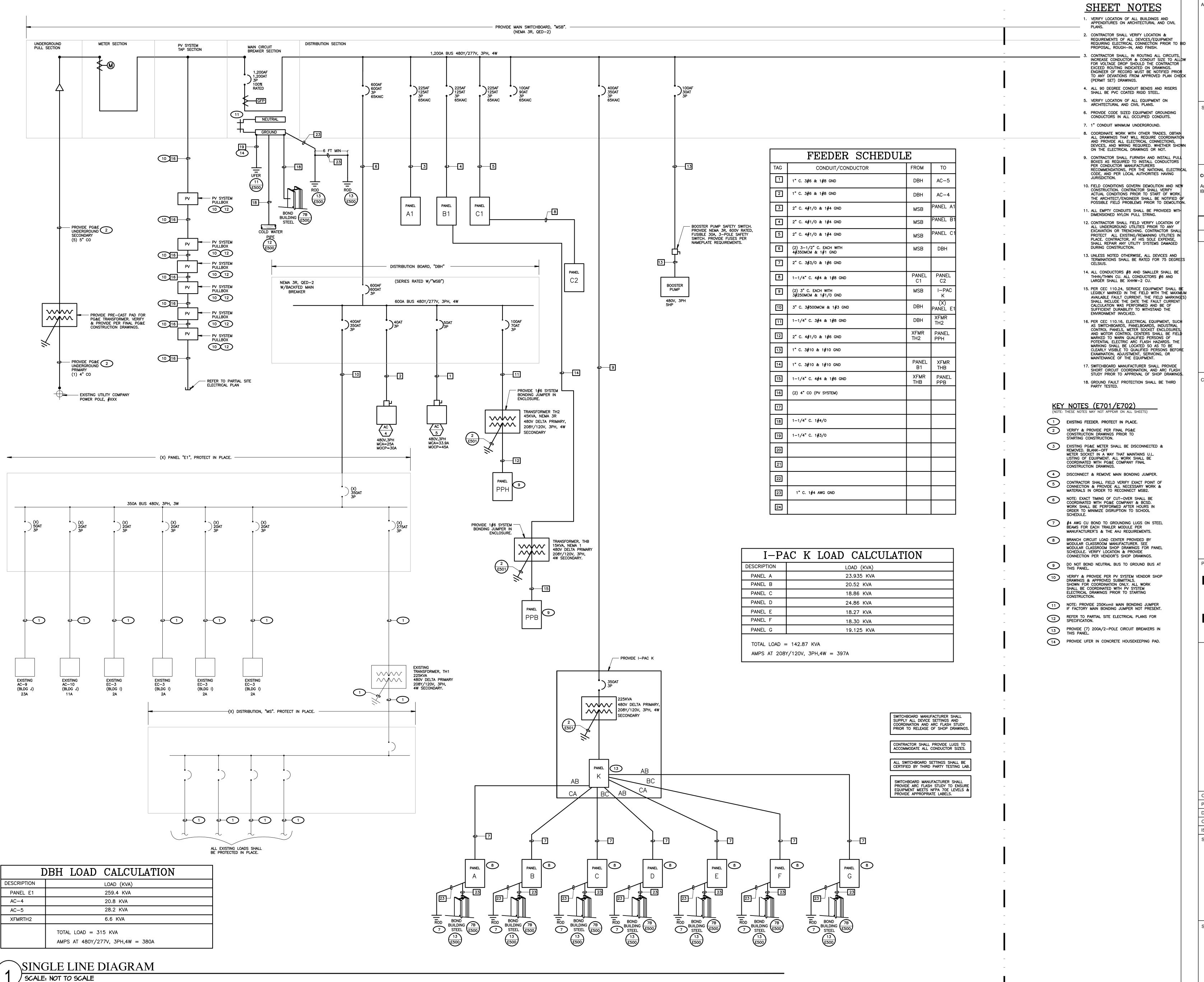
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EXISTING SINGLE LINE DIAGRAM (MODIFIED)

SCALE: NOT TO SCALE





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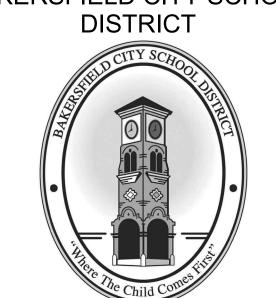


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BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

 OPSC or OSHPD PROJ. NO:

 PROJECT NO:
 118934

 DRAWN BY:
 VPZ

 CHK'D BY:
 DF

 ISSUE DATE:
 3/3/2020

 SHEET TITLE

PROPOSED SINGLE LINE DIAGRAM SHEET #1

SHEET NUMBER

SINGLE LINE DIAGRAM

SCALE: NOT TO SCALE

SHEET NOTES

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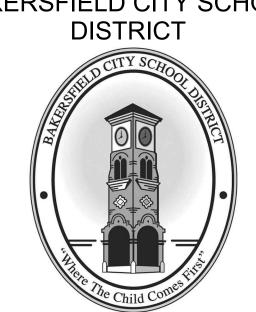
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> PROPOSED SINGLE LINE DIAGRAM SHEET #2

SHEET NUMBER

PAN		PPB						\GE	20	8Y/	120V	PHA	SE	3	WIF	RE	4	MAIN	MAIN			_
		XFMR					۱.۲		1	0,000		_						ENCLOSURE				_
PAN	EL LOCA	ATION	BLDG	. C BUS	AMPER	E RA	IITA	NG:		225		-						MOUNTING	S	URFAC	<u>:E</u>	-
C K	V	'A LOAD		LOAD DESCRIPTI	ON	L C L	OU	TLETS	CIR BRE	CUIT AKER	BUS	CIR(CUIT	OUTI	ETS	L C L	LOAD DE	ESCRIPTION		VA LOAE)	C F
T	LINE A	LINE B	LINE C			N	/IIS F	REC LTS	POL	TRP	АВС	TRP	POL	LTS RE	C MIS				LINE A	LINE B	LINE C	1
1				BACKFED MAIN						60		20	1				RPS-B		500			2
3				BACKFED MAIN								20	1				EF-1, EF-2			500		4
5				BACKFED MAIN					3			20	1				SPARE				500	6
7										,		20	1				IRRIGATION C	ONTROL	500			8
9																						10
11																						12
13																						14
15																						16
17																						18
19																						20
21																						22
23																╙						24
25																_					<u> </u>	26
27				_		_	_									┢						28
29							_								_	╁						30
31 33						+	\dashv						\vdash		+	+						32
35							\dashv								+	+						36
37							\dashv								+	+						38
39						\dashv	\dashv								+	\vdash						40
41																T						42
								<u> </u>			SUBTO	TALS							1000	500	500	Т
	NOTES:			<u> </u>													LIN	E TOTALS	1,000	500	500	Г
																	LCI	ADDER				I
																	то ⁻	TAL VA/PH	1,000	500	500	
																	LIN	E AMPS	8	4	4	

PROVIDE RED HANDLE CIRCUIT BREAKER W/LOCK-ON DEVICE

PANE SOUF PANE	RCE	MSB ATION	ROOF	BLDG D	BUS AMPE		OLT/ A.I. RATI	C.		1	30Y/ 0,000 225	277	<u></u>	PHAS	SE		WIF	RE .	4 MAIN ENCLOSUR MOUNTING	E N	MCB IEMA 3 URFAC		_
C K T	V	'A LOAD		LOAD DESC	CRIPTION	L C L	Ol	JTLE ⁻	TS		CUIT EAKER	BUS	3	CIRC BREA		OUTLE	ETS	L C L	LOAD DESCRIPTION		VA LOAE)	_
'	LINE A	LINE B	LINE C				MIS	REC	LTS	POL	TRP	АВ	С	TRP	POL	LTS REC	MIS			LINE A	LINE B	LINE C	0
1	3601			AC-3 (CLASS 11)		,					20			20	$\overline{/}$				AC-3 (CLASS 13)	3601			
3		3601		AC-3 (CLASS 11)							$\overline{}$								AC-3 (CLASS 13)		3601		
5			3601	AC-3 (CLASS 11)						3	$\overline{}$				3				AC-3 (CLASS 13)			3601	
7	3601			AC-3 (CLASS 12)							20		Π	20	$\overline{}$				AC-3 (CLASS 14)	3601			•
9		3601		AC-3 (CLASS 12)							$\overline{}$		\Box						AC-3 (CLASS 14)		3601		
11			3601	AC-3 (CLASS 12)						3					3			П	AC-3 (CLASS 14)			3601	•
13						\top								15	$\overline{}$			П					•
15						T							Π.	$\overline{}$	2			П					•
17																		П					•
19																							•
21																		П					•
23																		П					•
25																							•
27																							•
29																							
31																							_
33																							_
35						\perp	<u> </u>											Щ					_
37						_							Ш					Ш					_
39						\bot	<u> </u>											\square					_
41	7000	7000	7000			+								11.0				Щ		7005		700	-
	7202	7202	7202									SUB	ıOl	ALS				_	LINE TOTAL O	7202	7202	7202	
N	OTES:																		LINE TOTALS	14,404	14,404	14,404	-
																			LCL ADDER TOTAL VA/PH	14,404	14,404	14,40	-
																			LINE AMPS	52	14,404		_

	RCE	MSB ATION	ROOF	BLDG C	BUS AMPE		A.I.	_		480Y/ 10,00 225	00	277V	PHA: - - -	SE	3	V	/IRE		MAIN ENCLOSURE MOUNTING		MCB IEMA 3 URFAC	
C K T		/A LOAD		-	SCRIPTION	L C L		JTLET:	S B	IRCUI REAKE	R	BUS	CIRC	KER		JTLETS		1	DAD DESCRIPTION		VA LOAD	
_	LINE A	LINE B				_	MIS	RECL	TSP	_	_	ABC	TRP	POL	LTS	REC N	IIS	1.00/0		_	LINE B	LINE C
1	3601			AC-3 (CLASS 6)		_				20)		20				+		CLASS 9)	3601		
3		3601		AC-3 (CLASS 6)		_				\wedge	+	₽.		1			+	,	CLASS 9)		3601	
5				AC-3 (CLASS 6)		-			3				/	3			+		CLASS 9)	0001		3601
-/	3601			AC-3 (CLASS 7)		-	-		\rightarrow	20)		20	\angle			_		CLASS 10)	3601		
9		3601		AC-3 (CLASS 7)		-	-			\wedge	+]	,	\rightarrow	-	_	CLASS 10)	 	3601	2221
11				AC-3 (CLASS 7)		_			;		\		/_	3			_		CLASS 10)			3601
13	3601			AC-3 (CLASS 8)						20)		20					SPARE				
15		3601		AC-3 (CLASS 8)		_		\vdash	_	\wedge	_						_	SPARE				
17				AC-3 (CLASS 8)					- [3	3			_	3			_	SPARE				
19				XFMR THB						30)		15				_					
21				XFMR THB						λ	4			2			_					
23				XFMR THB					3	3	\setminus											
25																	_			ļ		
27						_		\vdash	_	_	_	₽.					_					
29										_	_						_					
31											_						_					
33									_	_	+						+			_		
35 37									_	-							_	-				
39						-			_	+	-						+					
41									_		+						+					
41	10803	10803	10803			-						SUBTO	TALS	l						7202	7202	7202
	NOTES:		10000										.,,,_,						LINE TOTALS	18,005		
																			LCL ADDER	10,000	10,000	. 5,50
																			TOTAL VA/PH	18,005	18,005	18,00
																		I	LINE AMPS	65	65	

	RCE	MSB ATION	ROOF	BLDG B	BUS AMPE		A.I.0		1	0,000 225		- PHA - -	SE	3	٧	VIRE	4	MAIN _ ENCLOSURE MOUNTING		MCB EMA 3I URFAC		- - -
C K T	V	/A LOAD		LOAD DES	CRIPTION	L C		JTLETS	BRE	CUIT EAKER	BUS	CIR(KER		TLETS	L	LOAD D	ESCRIPTION	,	VA LOAD)	C K
	LINE A	LINE B	LINE C				MIS	REC LTS	POL	TRP	A B C	TRP	POL	LTS	REC N				LINE A	LINE B	LINE C	
1	3601			AC-3 (CLASS 1)						20		20					AC-3 (CLASS	•	3601		l	2
3		3601		AC-3 (CLASS 1)									ľ				AC-3 (CLASS	4)		3601	1	4
5			3601	AC-3 (CLASS 1)					3				3				AC-3 (CLASS	4)			3601	6
7	3601			AC-3 (CLASS 2)						20		20	17				AC-3 (CLASS	5)	3601		1	8
9		3601		AC-3 (CLASS 2)									7				AC-3 (CLASS	5)		3601	1	10
11			3601	AC-3 (CLASS 2)					3				3				AC-3 (CLASS	5)			3601	12
13	3601			AC-3 (CLASS 3)					\setminus	20		20	17				SPARE				1	14
15		3601		AC-3 (CLASS 3)									1				SPARE				1	16
17			3601	AC-3 (CLASS 3)					3				3				SPARE					18
19												15	$\overline{}$								1	20
21						1						17	2									22
23									 			60	17				PANEL C2				ĺ	24
25													/				PANEL C2					26
27													3				PANEL C2					28
29						İ																30
31																					ĺ	32
33																						34
35																						36
37																						38
39																						40
41																						42
	10803	10803	10803								SUBT	DTALS							7202	7202	7202	
	NOTES:																	IE TOTALS	18,005	18,005	18,005	5
																		L ADDER			<u> </u>	
																		TAL VA/PH	18,005	18,005		—
																	LIN	IE AMPS	65	65	65	5

		XFMR ATION		H BUS AMPE		A.I.	AGE C. ING:	•	1	8Y/ 0,000 225	120	<u>v</u> 	PHAS	SE .	3	V	VIRE		MAIN ENCLOSURE MOUNTING		MCB EMA 3 URFAC		- -
C K T	V	/A LOAD		LOAD DESCRIPTION	L C L	0	UTLE.	TS	CIR BRE	CUIT AKER	BU	S	CIRC BREAL	UIT KER	OU	TLET	- 1	L L LOAD	DESCRIPTION		VA LOAD		C K T
	LINE A	LINE B				MIS	REC	LTS	POL		АВ	С	TRP	POL	LTS F	REC N	MIS			LINE A	LINE B	LINE C	Ľ
1	3183			HP-1					\geq	50								SPACE					2
3		3183		HP-1					2									SPACE					4
5			180	EXT. RECEPTACLE					1	20			20	1				FIRE ALARI	Л, RPS-H			500	6
7				SPACE														SPACE					8
9																							10
11																							12
13																							14
15																							16
17																							18
19																							20
21																							22
23																							24
25												П											26
27																							28
29				+														+					30
31																							32
33																							34
35																							36
37																							38
39																							40
41																							42
	3183	3183	180								SUB	TOT	TALS									500	
	NOTES:																	L	INE TOTALS	3,183	3,183	680	
																		L	CL ADDER				
																		Т	OTAL VA/PH	3,183	3,183	680	
																		L	INE AMPS	27	27	6	

PROVIDE RED HANDLE CIRCUIT BREAKER W/LOCK-ON DEVICE

ANEL		E1			\		ΓAGE			V 0		PHA	SE	3	_	WIRE	3	MAIN		A MCB		_
OURCI ANEL I		TION	ROOF B	BLDG H BUS A	MPERE		I.C. FING:			0,000 350		-						ENCLOSURE MOUNTING		NEMA SURFA		_
C K		A LOAD		LOAD DESCRIPTIO		니	OUTLE		BRE	CUIT AKER	BUS	BRE	CUIT AKER		UTLE	L		D DESCRIPTION		VA LOA		
LIN	NE A	LINE B	LINE C			MIS	SREC	LTS	POL	TRP	АВС	TRP	POL	LTS	REC	MIS			LINE	A LINE E	LINE	С
1																		-				
3																						
5																						
7																						
9																						
11																						
13																						
15																						
17																						
19																						
21																						
23																						
25																						
27																						
29							\perp								<u> </u>	$\perp \perp$					1	
31						+	+								<u> </u>	\vdash						
33						_	+														-	
35 37						+	+								<u> </u>	\vdash			-		+	
37					+	+	+								-	\vdash						
41					-	+	+							-	-	\vdash						_
41					+						SUBTO	TALS									+	ᅥ
NO	TES:										20210	.,,,,,						LINE TOTALS			+	\dashv
110	. LO.																	LCL ADDER				ᅥ
																		TOTAL VA/PH				\forall
																		LINE AMPS	-		+	_

EXISTING PANEL GENERAL NOTES:

1. UON, ALL LOAD DESCRIPTIONS ARE EXISTING.

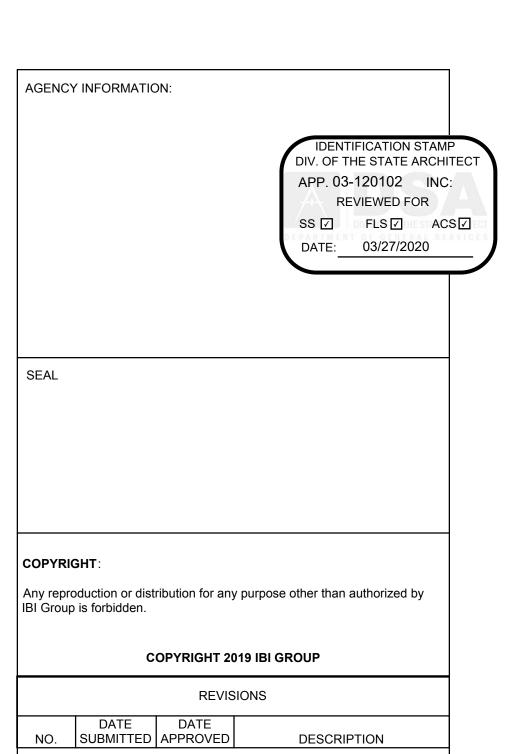
2. UON, ALL CIRCUIT BREAKERS DESIGNATED IN PANEL SCHEDULE ARE EXISTING.

	EL RCE EL LOC <i>I</i>	TION	BLDG	H BUS AMPE		A.I.		•	1	0,00 225	00	20V	PHA	SE	3	WIF	RE	4 MAIN ENCLOSURE MOUNTING		LUGS NEMA [*] FLUSH		_
C K T		'A LOAD		LOAD DESCRIPTION	L C L		JTLET		BRE		R	BUS	BREA	CUIT AKER		TLETS	L C L	LOAD DESCRIPTION		VA LOAD		
	LINE A	LINE B				MIS	REC L	_TS	POL	_		ВС		POL	LTS R	EC MIS	1		LINE A	LINE B	LINE (2
1				COUNTER REC					1	20)		20	1				SPARE				_
3				LIGHTS ROOM 9													-	LIGHTS ROOM 8				
5				LIGHTS ROOM 7						Ш								LIGHTS ROOM 8				
7				LIGHTS ROOM 7								Ш					-	ВО				
9				LIGHTS ROOM 5														LTS. RM. 1,2,3,4				
11				LIGHTS ROOM 5														LTS. CORR & E F1				
13				RECEPTS ROOM 1 & 5														TIME SW. NITE LT.				
15				RECEPTS ROOM 1 & 5														RECEPTS ROOM 6 & 9				
17				LIGHTS ROOM 8					$\overline{\mathbf{V}}$	V								LIGHTS 1				
19				TELEPHONE						30)		—	\downarrow			Т	SPARE				
21				SPARE					2		$ egthinspace{-1mm} egthinspa$		50					AC-2 (CLASS 15)				•
23				AC-1					$\overline{}$	40	7							AC-2 (CLASS 15)				•
25				AC-1					2				\nearrow	3			T	AC-2 (CLASS 15)				•
27				SPACE														SPACE				٠
29								\neg	1	20	<u>, </u>		20	1			T					٠
31				AC-2 (CLASS 18)					$\overline{}$	50)		50	/				AC-2 (CLASS 16)				
33				AC-2 (CLASS 18)						$\overline{}$				/				AC-2 (CLASS 16)				•
35				AC-2 (CLASS 18)					3					3				AC-2 (CLASS 16)				
37				AC-2 (CLASS 17)					$\overline{}$	50)		50					AC-2 (CLASS 19)				•
39				AC-2 (CLASS 17)														AC-2 (CLASS 19)				
41				AC-2 (CLASS 17)					3					3				AC-2 (CLASS 19)				
											S	JBTO	TALS									
	NOTES:																	LINE TOTALS LCL ADDER TOTAL VA/PH				

EXISTING PANEL GENERAL NOTES:
1. UON, ALL LOAD DESCRIPTIONS ARE EXISTING.
2. UON, ALL CIRCUIT BREAKERS DESIGNATED IN PANEL SCHEDULE ARE EXISTING.

	RCE	XFMR ATION		. H BUS AMPE		OLTA A.I.C RATIN		1	0,000 225	120V	PHA: - -	SE	3	_ WII	RE	4	MAIN ENCLOSURE MOUNTING		MCB EMA 3I JRFAC		- -
C K T	\	VA LOAD		LOAD DESCRIPTION	L C L	TUO	LETS		RCUIT EAKER	BUS	CIRC BREA	CUIT	0	UTLETS	L C L	LOAD I	DESCRIPTION	\	/A LOAD		
	LINE A	LINE B	LINE C			MIS R	EC LT	SPOL	TRP	АВС	TRP	POL	LTS	REC MIS	3			LINE A	LINE B	LINE C	.]
1	3183			HP-1					50						Т	SPACE					2
3		3183		HP-1				2								SPACE					1
5			180	EXT. RECEPTACLE				1	20		20	1				FIRE ALARM	1, RPS-H			500	6
7				SPACE											\top	SPACE					1
9															\top						1
11																					1
13																					1
15																					1
17																					1
19																					2
21																					2
23																					2
25															T						1
27																					2
29				+												—					3
31															T	-					3
33																					3
35																					3
37																					3
39																					4
41																					4
	3183	3183	180							SUBTO	TALS									500	\downarrow
	NOTES:																NE TOTALS	3,183	3,183	680	1
																	CL ADDER				\downarrow
																	OTAL VA/PH	3,183	3,183	680	١L

บด	RCE	C2 PANEI ATION	_ C1	BUS		A.I.	AGE C. ING:_		14.000)	- - -		<u> </u>	. vv	IKE .	4	MAIN ENCLOSURE MOUNTING		LUGS NEMA URFAC	1 CE	- - -
		/A LOAD		LOAD DESCRIPTIO	L C L		UTLETS	` E	CIRCUIT REAKER	BUS	BKEA	AKER		JTLETS	L	LOA	D DESCRIPTION		VA LOAI		C K T
	LINE A	LINE B				MIS	REC L	TS P	OL TRP	A B C	TRP	POL	LTS	REC M				LINE A	LINE B	LINE C	Ľ
1	270			PARKING LOT LIGHTS	Х				1 20							SPACE					2
3				SPACE																	4
5																					6
7																					8
9																					10
1																					12
3																					14
5																					16
7																					18
9																					20
1																					22
3																					24
5																					26
7																					28
9																\forall					30
1																					32
3								\Box									-				34
5																					36
7															ot						38
9													Ш								40
1																					42
	270									SUBT	DTALS										
	NOTES:																LINE TOTALS	270			
																	LCL ADDER	68			
																	TOTAL VA/PH	338			$oxed{oxed}$
																	LINE AMPS	3			



CONSULTANT

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PRIME CONSULTANT



ARCHITECTURE PLANNING

BAKERSFIELD CITY SCHOOL DISTRICT

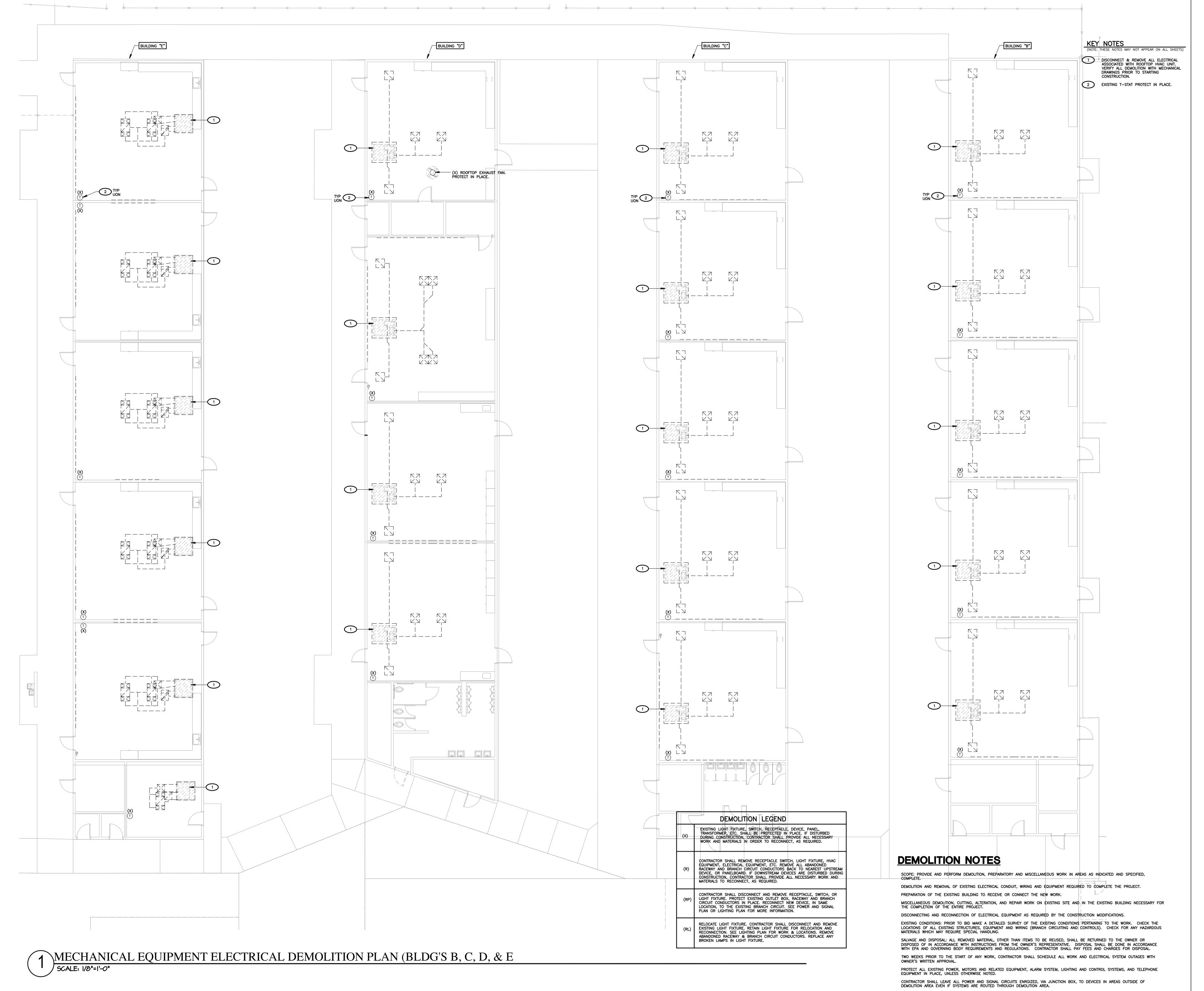


BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAK	ERSFIELD, CA 93305
OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020
SHEET TITLE	

PANEL SCHEDULES

SHEET NUMBER



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DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
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SS FLS ACS DATE: 03/27/2020

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ARCHITECTURE PLANNING

San Luis Obispo

San Luis Obispo 4119 Broad Street, Suite 210 San Luis Obispo, CA 93401 805.546.0433 fax: 805.546.0504 ibigroup.com

BAKERSFIELD CITY SCHOOL



BESSIE OWENS JUNIOR HIGH MODERNIZATION 815 EUREKA ST, BAKERSFIELD, CA 93305

	OPSC or OSHPD PROJ. NO:	
	PROJECT NO:	118934
	DRAWN BY:	VPZ
	CHK'D BY:	DF
	ISSUE DATE:	3/3/2020

MECHANICAL
EQUIPMENT
ELECTRICAL
DEMOLITION
PLAN (BLDG'S
B, C, D, & E)

SHEET NUMBER

- MECHANICAL DRAWINGS.

 4. PROVIDE ROOF JACKS AND PROPERLY SEAL ALL
- PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.

BE COORDINATED WITH THE ARCHITECTURAL AND

- 5. THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER THE
- PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
- PROVIDE ALL DEVICES AND CONNECTIONS AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
- 8. ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON MECHANICAL (HVAC) UNIT.

NATIONAL ELECTRICAL CODE.

- 9. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH—IN, AND INSTALLATION.
- 10. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- 11. EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTARCTOR PROVIDED.
 12. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL

CODE, AND PER LOCAL AUTHORITIES HAVING

- 13. 3/4" CONDUIT MINIMUM, UON.
- 14. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- 15. VERIFY AND PROVIDE CONTROLS TO ALL UNITS, PER MECHANICAL CONTRACTOR APPROVED SHOP DRAWINGS AND SUBMITTALS.

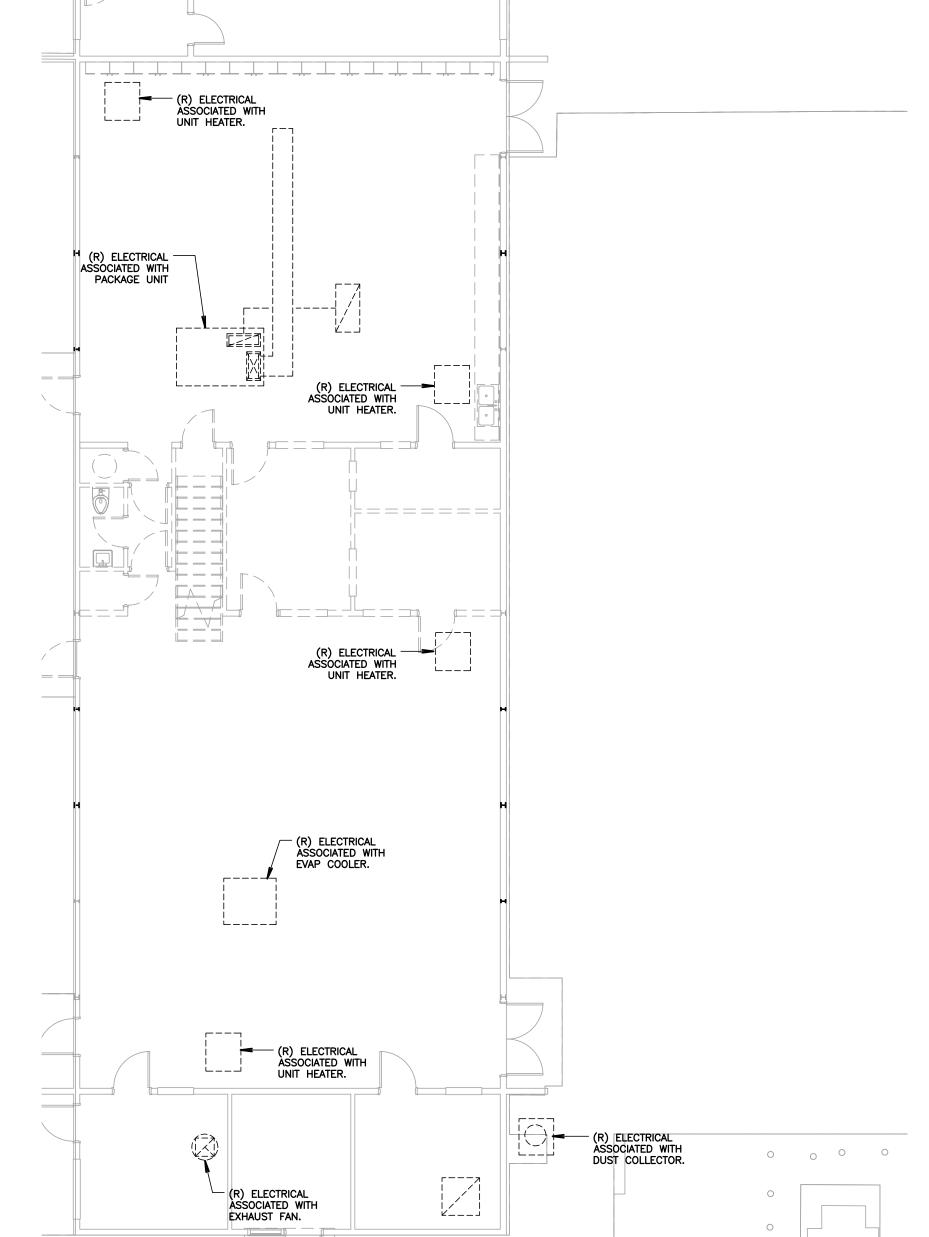
MECHANICAL KEY NOTES

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1 PANEL LOCATED ON ROOF. EXACT LOCATION SHALL BE VERIFIED IN THE FIELD.

ETC. REQUIREMENTS.

- 2 SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR DISCONNECT, FEEDER, FUSES,
- 1/2" C. & CABLING TO HVAC CONTROL. VERIFY & PROVIDE PER MECHANICAL CONTRACTOR'S APPROVED SHOP DRAWINGS & SUBMITTALS.
- PROVIDE 4S BOX WITH SINGLE GANG PLASTER RING & 1/2" CO. TO POINT OF CONTROL. VERIFY & PROVIDE PER MECHANICAL CONTRACTOR'S APPROVED SHOP DRAWINGS & SUBMITTALS. COORDINATE EXACT LOCATION WITH MECHANICAL.
- 5 PROVIDE LIQUIDTITE (LFMC) 3/4" C.

 6 PROVIDE ALL REQUIRED CONDUIT & CONDUCTORS TO CONNECT POWER FROM OUTDOOR UNIT TO INDOOR UNIT(S). VERIFY & PROVIDE PER MECHANICAL CONTRACTOR APPROVED SHOP DRAWINGS & CURRENT STATE OF THE PROVIDE


POWER SHEET NOTES

- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH—IN AND FINISH.

 CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN
- CHECK (PERMIT SET) DRAWINGS.

 3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS
- 4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING
- JURISDICTION.

 5. 3/4" CONDUIT MINIMUM, UON.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.

 PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIES LOCATION AND
- MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
- 9. ALL CONDUIT RUNS SHALL BE CONCEALED IN WALLS OR

8. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL

- ROUTED ABOVE THE CEILING/ACCESSIBLE CEILING SPACE.

 10. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL TO OR GREATER THAN
- 11. MOUNTING HEIGHT OF ALL RECEPTACLES AT COUNTER
 TOPS SHALL BE VERIFIED WITH OWNER/ARCHITECT PRIO
- TOPS SHALL BE VERIFIED WITH OWNER/ARCHITECT PRIOR TO ROUGH—IN.

 12. PROVIDE GFCI TYPE RECEPTACLE WITHIN 6 FEET OF ANY
- 13. CONTRACTOR SHALL PROVIDE A PERMANENT MARKING IN ORDER TO DIFFERENTIATE OCCUPANCY CONTROLLED RECEPTACLES FROM THE UNCONTROLLED RECEPTACLES. VERIFY ACCEPTABLE MEANS OF PERMANENT MARKING WITH

	DEMOLITION LEGEND
(X)	EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE. IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.
(R)	CONTRACTOR SHALL REMOVE RECEPTACLE SWITCH, LIGHT FIXTURE, HVAC EQUIPMENT, ELECTRICAL EQUIPMENT, ETC. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE, OR PANELBOARD. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED.
(RP)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICE, IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION.
(RL)	RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.

BLDG. H MECHANICAL EQUIPMENT ELECTRICAL DEMOLITION PLAN



MULTIPURPOSE ROOM

MULTIPURPOSE ROOM

	ELE	CTRICA	AL SO	CHED	ULE]	FOR	MEC	HANICA	L EQUIPN	MENT		
AG #	DESCRIPTION	H.P.	MCA	MOCP	VOLTAGE	PHASE	NEMA STARTER SIZE	DISCONNECT NEMA 3R	RECOMMENDED FUSE SIZE	REMARKS	PANEL/CIRCUIT NO.	FEEDER
AC 1	ROOFTOP HVAC UNIT		19.4	30	208	1		30A 2P 240V	LPN-RK-30SP		H-23,25	3/4" C. 2#8 & 1#8 GND
AC 2	ROOFTOP HVAC UNIT		26.3	40	208	3		60A 3P 240V	LPN-RK-40SP		SEE PLANS	1" C. 3#6 & 1#8 GND
AC 3	ROOFTOP HVAC UNIT		13	15	480	3		30A 3P 600V	LPN-RK-15SP		SEE PLANS	3/4" C. 3#10 & 1#10 GND
AC 4	ROOFTOP HVAC UNIT		25	30	480	3		30A 3P 600V	LPN-RK-30SP		DBH	REFER TO SINGLE LINE DIAGRAM
AC 5	ROOFTOP HVAC UNIT		33.9	45	480	3		60A 3P 600V	LPN-RK-45SP		DBH	REFER TO SINGLE LINE DIAGRAM
HP 1	HEAT PUMP		30	45	208	1		60A 2P 240V	LPN-RK-45SP			
FC 1	FAN COIL		0.2	15	208	1				UNIT POWERED BY HP-1		
FC 2	FAN COIL		0.2	15	208	1				UNIT POWERED BY HP-1		
FC 3	FAN COIL		0.2	15	208	1				UNIT POWERED BY HP-1		
EF 1	EXHAUST FAN (ROOF)				120	1			MOTOR RATED SWITCH			
EF 2	EXHAUST FAN (ROOF)				120	1			MOTOR RATED SWITCH			

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

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS FLS ACS
DATE: 03/27/2020

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NO. SUBMITTED APPROVED

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(805) 705-4772
DALEFERRANTI@LIVE.COM



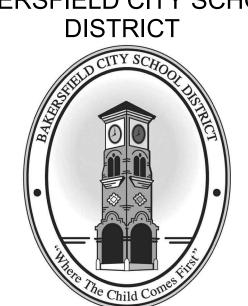
PRIME CONSULTANT

ARCHIT San 4119 Br

ARCHITECTURE PLANNING

San Luis Obispo
4119 Broad Street, Suite 210
San Luis Obispo, CA 93401
805.546.0433 fax: 805.546.0504

BAKERSFIELD CITY SCHOOL



BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:

PROJECT NO: 118934

DRAWN BY: VPZ

CHK'D BY: DF

ISSUE DATE: 3/3/2020

SHEET TITLE

BLDG. H MECHANICAL EQUIPMENT ELECTRICAL DEMOLITION & POWER PLAN

SHEET NUMBER

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

AGENCY INFORMATION:

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP. 03-120102 INC: REVIEWED FOR SS 🗸 FLS 🗸 ES ACS 🗸 DATE: 03/27/2020

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NO. DATE DATE APPROVED

FERRANTI ENGINEERING

CONSULTING ELECTRICAL ENGINEERS 1211 MARICOPA HWY, SUITE 250 OJAI, CA 93023 (805) 705-4772 DALEFERRANTI@LIVE.COM



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San Luis Obispo 4119 Broad Street, Suite 210 San Luis Obispo, CA 93401 805.546.0433 fax: 805.546.0504

BAKERSFIELD CITY SCHOOL



BESSIE OWENS JUNIOR HIGH MODERNIZATION

	OPSC or OSHPD PROJ. NO:	
	PROJECT NO:	118934
	DRAWN BY:	VPZ
	CHK'D BY:	DF
	ISSUE DATE:	3/3/2020
1		

MECHANICAL EQUIPMENT POWER PLAN BLDG'S B, C, D, & E

DIV. OF THE STATE ARCHITEC APP. 03-120102 INC:

REVIEWED FOR

SS FLS ACS

DATE: 03/27/2020

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CONSULTANT

PRIME CONSULTANT

NRCC-LTI-01-E

(Page 1 of 6)

April 2016

San Luis Obispo, CA 93401 805.546.0433 fax: 805.546.0504

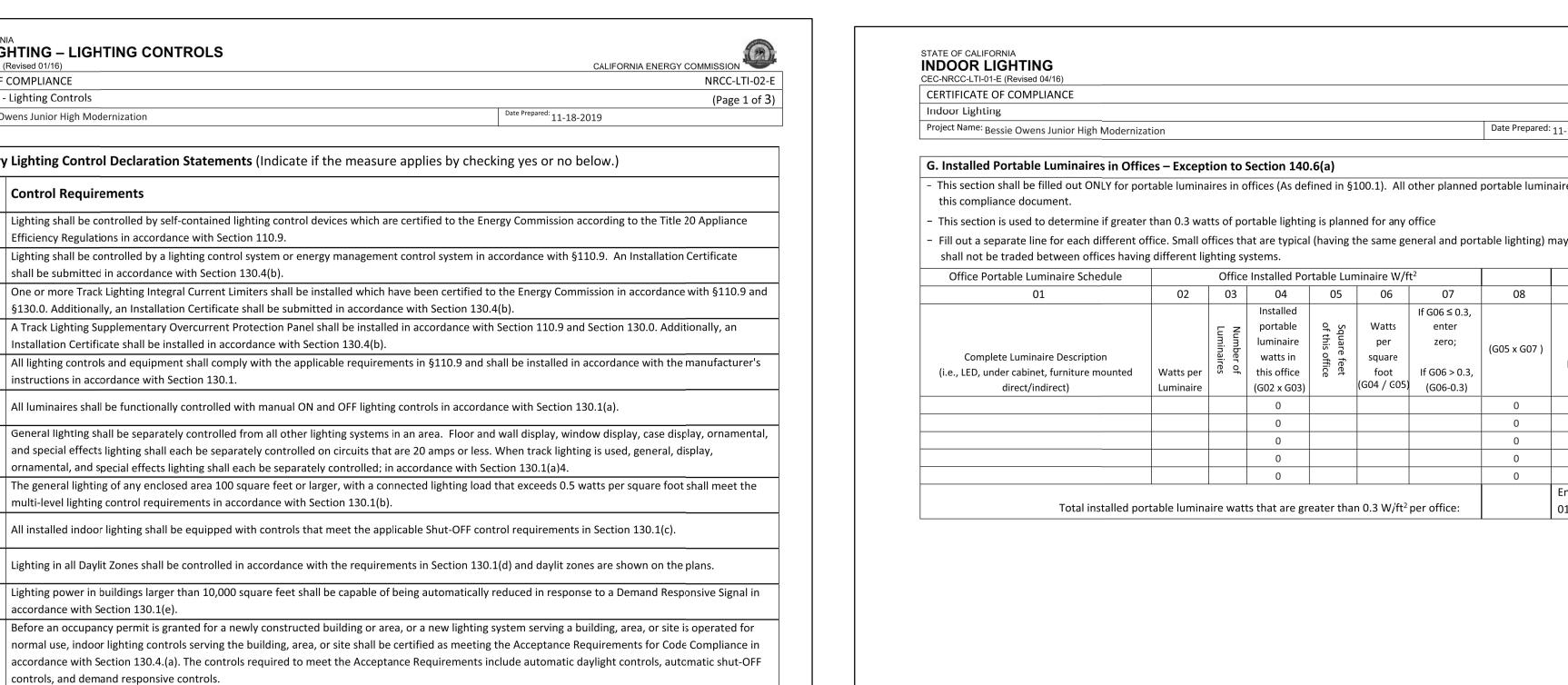
BESSIE OWENS JUNIOR HIGH

OPSC or OSHPD PROJ. NO: PROJECT NO: 118934 DRAWN BY: VPZ

CHK'D BY: DF ISSUE DATE: 3/3/2020 SHEET TITLE

INDOOR TITLE 24 DOCUMENTS BLDG H

SHEET NUMBER



CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

		Date Prepared:	11-18-2019			Project Name: Bessi	ie Owens	Junior High Moder	rnization			Date Prepared:	11-18-2019	
						A. General Info	ormatic	on						
1). All	other planned	l portable lumin	aires shall be documented	l on nex	ct page of	Climate Zone:	_	Conditioned Flo	oor Area	: 2977 sq. ft.				
							6	Unconditioned	Floor Ar	rea:				
or any						Building Type:		V	Nonre	esidential	☐ High-Rise Residential		Hotel/Motel	
ame ge	neral and por	table lighting) n	nay be grouped together.	This allo	owance	✓ Schools			Reloc	atable Public Schools	✓ Conditioned Spaces		Unconditioned Spaces	
ire W/f	+ ²		Office Location	Field	d Inspector	Phase of Constru	uction:		New (Construction	Addition	V	Alteration	
06	07	08	09	1100	10	Method of Comp	pliance:		Comp	olete Building	✓ Area Category		Tailored	
	If G06 ≤ 0.3,					Project Address:	: 815 Pot	omac Ave. Bakersf	ield, CA 9	3307				
Vatts	enter		Identify Office area in					-						
per	zero;	(G05 x G07)	which these portable	Pass	F <u>a:</u>	B. Lighting Cor	mplianc	e Documents (select ye	es for each document inc	cluded)			
quare foot	If G06 > 0.3,		luminaires are installed	S	_	For detailed instru	ıctions on	the use of this and	d all Energ	gy Efficiency Standards compli	ance documents, refer to the Nonresidenti	ial Manual pub	lished by the California Energy Commission.	
1 / G05)						YES	NO	COMP. D	OOC. T	TITLE				
		0		0	0	•	0	NRCC-LTI-	01-E C	Certificate of Compliance. All	Pages required on plans for all submittals.			
		0		0	0	•	0	NRCC-LTI-	02-E Li	ighting Controls, Certificate of	Compliance, and PAF Calculation. All Pag	es required on	plans for all submittals.	
		0		0	0	•	0	NRCC-LTI-	03-E Ir	ndoor Lighting Power Allowan	ce			
		0		0	0	0	0	NRCC-LTI-		ailored Method Worksheets				
		0		0	0	0	0	NRCC-LTI-	05-E Li	ine Voltage Track Lighting Wo	rksheets			
) \A//f+2	per office:		Enter sum total of all pag	es into l	NRCC-LTI-	0	0	NRCC-LTI-	06-E Ir	ndoor Lighting Existing Conditi	ons			
- VV/IL-	per office:		01-E; Page 2											

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

NRCC-LTI-01-E

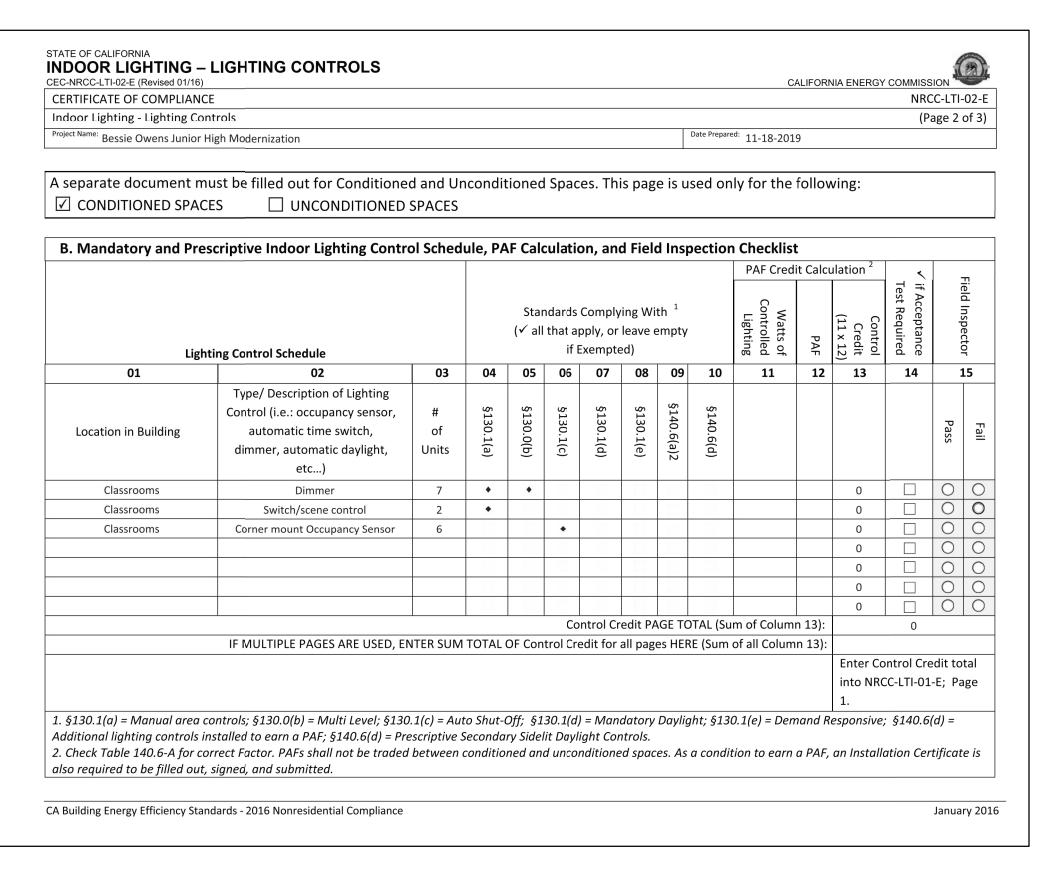
(Page 4 of 6)

April 2016

INDOOR LIGHTING

CEC-NRCC-LTI-01-E (Revised 04/16)

CERTIFICATE OF COMPLIANCE



Date Prepared: 11-18-2019

January 2016

INDOOR LIGHTING – LIGHTING CONTROLS

Efficiency Regulations in accordance with Section 110.9.

shall be submitted in accordance with Section 130.4(b).

instructions in accordance with Section 130.1.

accordance with Section 130.1(e).

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

controls, and demand responsive controls.

Installation Certificate shall be installed in accordance with Section 130.4(b).

multi-level lighting control requirements in accordance with Section 130.1(b).

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

§130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).

All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).

ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.

and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display,

All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).

Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.

Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance

Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate

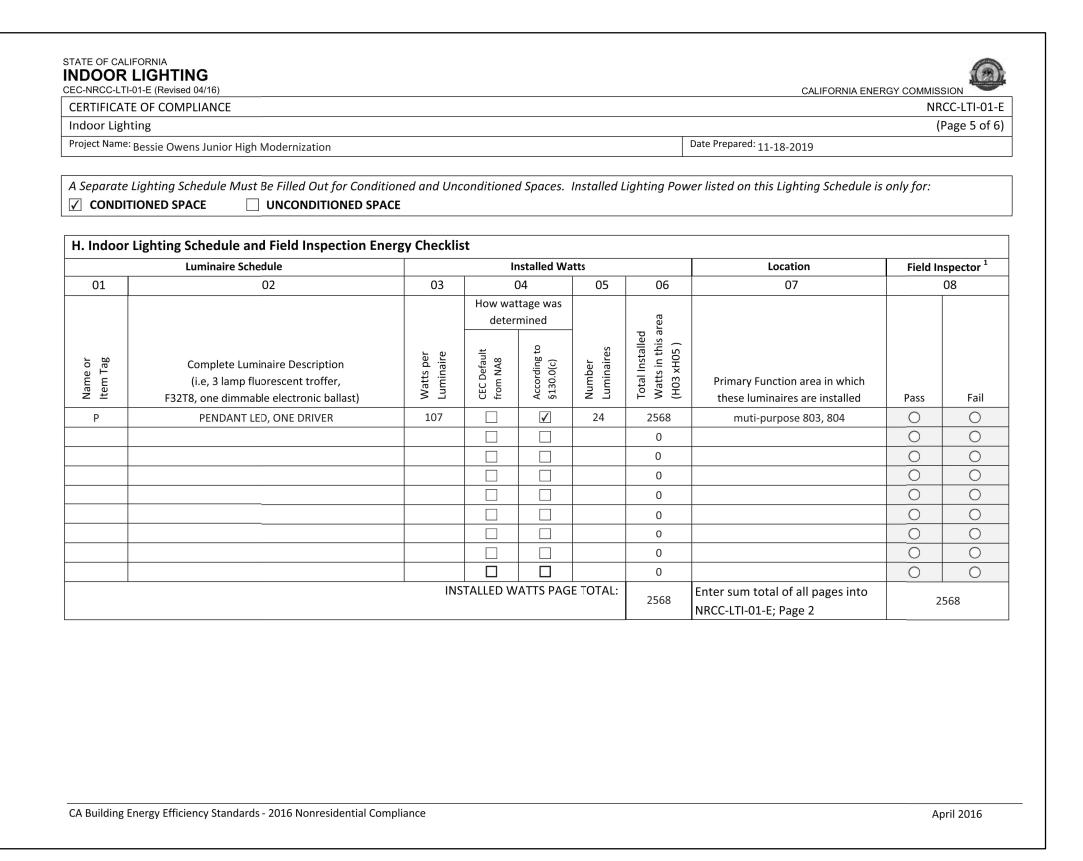
A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an

CERTIFICATE OF COMPLIANCE

Indoor Lighting - Lighting Controls

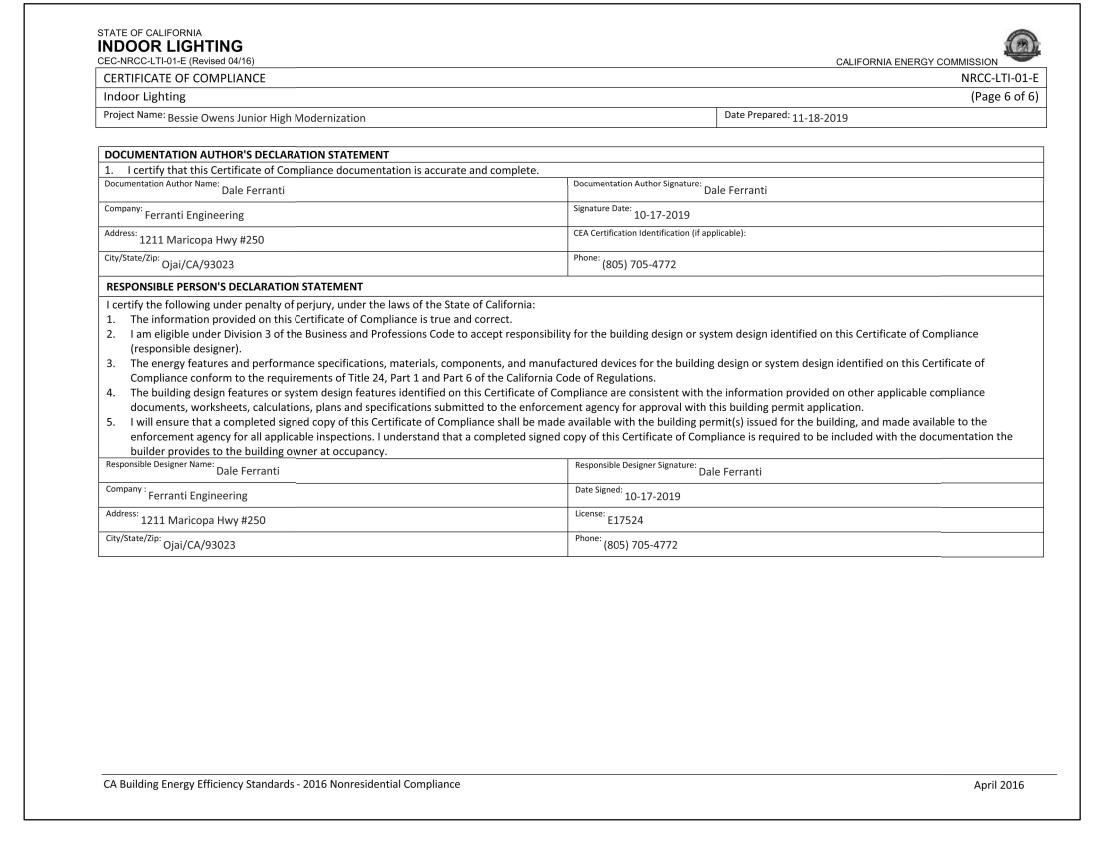
Project Name: Bessie Owens Junior High Modernization

YES NO Control Requirements



	C-LTI-01-E (Revis	,			CALIFO	RNIA ENERGY	
CERTIFIC Indoor L	CATE OF CON	MPLIANCE					N
		vens Junior High Modernization			Date Prepared: 11-18-2019		
1 Toject Ite	Bessie Ov	wens Junior High Modernization			Sate / repared: 11-18-2019		
C. Sum	mary of Al	lowed Lighting Power					
Condition	oned and Un	conditioned space Lighting must not be combined	for c	ompliance			
		Indoor Lighting Power for Conditioned Spaces			Indoor Lighting Power for Uncon	ditioned Sp	aces
				Watts			W
01		Installed Lighting		2568	Installed Lig	-	
		NRCC-LTI-01-E, Table H, page 5 Portable Only for Offices	+	_	NRCC-LTI-01-E, Table H, p	oage 5 +	
02		NRCC-LTI-01-E, Table G, page 4	+	0			
03		Minus Lighting Control Credits	-	0	Minus Lighting Control C		
		NRCC-LTI-02-E, page 2 Adjusted Installed Lighting Power			NRCC-LTI-02-E, p Adjusted Installed Lighting F	_	
04		(row 1 plus row 2 minus row 3)	=	2568	(row 1 minus r		
	į.	Complies ONLY if Installed Allowed (Box 04 < Box	x 05)		Complies ONLY if Installed ≤ Allowed (Box	x 04 < Box 0)5)
		Allowed Lighting Power			Allowed Lighting Power		
05		Conditioned NRCC-LTI-03-E, page 1			Unconditioned NRCC-LTI-03-E, page 1		
05	50/35%ld	ations with replacement luminaires that have at least ower power compared to the original existing luminaires tead use the allowed wattage from NRCC-LTI-06, page 2		2977	Alterations with replacement luminaires that have 50/35% lower power compared to the original existing may instead use the allowed wattage from NRCC-LTI-	luminaires,	
D. Docl	laration of	Required Certificates of Installation					
		yes for all of the Certificates that will be submitted	d (Re	tain conies and	verify forms are completed and signed)		
YES	NO	Form/Title	(to the first and a compression and a significant		
•	0	NRCI-LTI-01-E - Must be submitted for all buildin	ngs			☐ Field I	nspect
1000		NRCI-LTI-02-E - Must be submitted for a lighting	cont	rol system, or f	or an Energy Management Control System (EMCS),		
0	•	to be recognized for compliance.		, ,		☐ Field I	nspect
\sim	•	NRCI-LTI-03-E - Must be submitted for a line-vol	tage 1	track lighting in	tegral current limiter, or for a supplementary	☐ Field I	ncnect
0		overcurrent protection panel used to energize o				rieiu i	inspect
0	•	NRCI-LTI-04-E - Must be submitted for two inter		•		☐ Field I	nspecto
access.		conference room, a multipurpose room, or a the NRCI-LTI-05-E - Must be submitted for a Power A			·		
0	•			<u> </u>	· · · · · · · · · · · · · · · · · · ·	☐ Field I	nspecto
0	•	NRCI-LTI-06-E - Must be submitted for additional compliance.	al wat	tage installed in	n a video conferencing studio to be recognized for	☐ Field I	nspect

	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accur	rate and complete.
Documentation Author Name: Dale Ferranti	Documentation Author Signature: Dale Ferranti
Company: Ferranti Engineering	Signature Date: 10-17-2019
Address: 1211 Maricopa Hwy #250	CEA Certification Identification (if applicable):
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
 (responsible designer). The energy features and performance specifications, materials, c Compliance conform to the requirements of Title 24, Part 1 and F The building design features or system design features identified documents, worksheets, calculations, plans and specifications sul I will ensure that a completed signed copy of this Certificate of Co 	e and correct. The to accept responsibility for the building design or system design identified on this Certificate of Compliance components, and manufactured devices for the building design or system design identified on this Certificate of part 6 of the California Code of Regulations. The control of the California Code of Regulations on this Certificate of Compliance are consistent with the information provided on other applicable compliance of the enforcement agency for approval with this building permit application. The provided to the enforcement agency for approval with this building permit application. The provided to the building permit (s) issued for the building, and made available to the
 The information provided on this Certificate of Compliance is true I am eligible under Division 3 of the Business and Professions Coc (responsible designer). The energy features and performance specifications, materials, c Compliance conform to the requirements of Title 24, Part 1 and F The building design features or system design features identified documents, worksheets, calculations, plans and specifications sull will ensure that a completed signed copy of this Certificate of Coenforcement agency for all applicable inspections. I understand the builder provides to the building owner at occupancy. 	e and correct. The to accept responsibility for the building design or system design identified on this Certificate of Compliance components, and manufactured devices for the building design or system design identified on this Certificate of part 6 of the California Code of Regulations. The control of the California Code of Regulations on this Certificate of Compliance are consistent with the information provided on other applicable compliance compliance of the enforcement agency for approval with this building permit application. The provided on this Certificate compliance is required to be included with the documentation the completed signed copy of this Certificate of Compliance is required to be included with the documentation the
 The information provided on this Certificate of Compliance is true I am eligible under Division 3 of the Business and Professions Cook (responsible designer). The energy features and performance specifications, materials, or Compliance conform to the requirements of Title 24, Part 1 and Features and Design features or system design features identified documents, worksheets, calculations, plans and specifications sult will ensure that a completed signed copy of this Certificate of Coenforcement agency for all applicable inspections. I understand the builder provides to the building owner at occupancy. Responsible Designer Name: Dale Ferranti	e and correct. The to accept responsibility for the building design or system design identified on this Certificate of Compliance components, and manufactured devices for the building design or system design identified on this Certificate of part 6 of the California Code of Regulations. The control of the California Code of Regulations on this Certificate of Compliance are consistent with the information provided on other applicable compliance compliance of the enforcement agency for approval with this building permit application. The provided on this Certificate compliance of the provided on other applicable compliance of the enforcement agency for approval with this building permit application. The provided on this Certificate of Compliance on this Certificate of Compliance on the provided on this Certificate of Compliance on this Certificate of Compliance on the certifica
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 The information provided on this Certificate of Compliance is true I am eligible under Division 3 of the Business and Professions Cook (responsible designer). The energy features and performance specifications, materials, or Compliance conform to the requirements of Title 24, Part 1 and File 1. The building design features or system design features identified documents, worksheets, calculations, plans and specifications suited to the suite of Cook (and the suite of the	e to accept responsibility for the building design or system design identified on this Certificate of Compliance omponents, and manufactured devices for the building design or system design identified on this Certificate of art 6 of the California Code of Regulations. on this Certificate of Compliance are consistent with the information provided on other applicable compliance omitted to the enforcement agency for approval with this building permit application. ompliance shall be made available with the building permit(s) issued for the building, and made available to the nat a completed signed copy of this Certificate of Compliance is required to be included with the documentation the Responsible Designer Signature: Date Signed: 10-17-2019 License: E17524
 The information provided on this Certificate of Compliance is true I am eligible under Division 3 of the Business and Professions Cook (responsible designer). The energy features and performance specifications, materials, or Compliance conform to the requirements of Title 24, Part 1 and F. The building design features or system design features identified documents, worksheets, calculations, plans and specifications sult in the sulf of the system of the second of the complete of the second of	e to accept responsibility for the building design or system design identified on this Certificate of Compliance omponents, and manufactured devices for the building design or system design identified on this Certificate of fart 6 of the California Code of Regulations. on this Certificate of Compliance are consistent with the information provided on other applicable compliance omitted to the enforcement agency for approval with this building permit application. Impliance shall be made available with the building permit(s) issued for the building, and made available to the mat a completed signed copy of this Certificate of Compliance is required to be included with the documentation the Responsible Designer Signature: Dale Ferranti



CERTIFICA	TE OF CO	MPLIANCE	NRCC-LTI
Indoor Ligh	nting		(Page 3
Project Name	: Bessie Ov	Owens Junior High Modernization Date Prepared: 11	L-18-2019
E. Declara	ation of I	Required Certificates of Acceptance	
Declare by	selecting	g yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are comple	eted and signed.)
YES	NO	FORM/TITLE	
0	0	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
•	0	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
0	0	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector
0	•	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	
A Separat	e Lighting	g Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on th	is Lighting Schedule is only
for: 🗸 C	ONDITIO	NED SPACE UNCONDITIONED SPACE	
F. Indoor	Lighting	Schedule and Field Inspection Energy Checklist	
		g Schedule and Field Inspection Energy Checklist	stoms
☐ The ac	ctual indo	por lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting sy	stems.
☐ The ad	ctual indo Complet	poor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting sy te Building Method is used for compliance, list each different type of luminaire on separate lines.	
☐ The ad ☐ When ☐ When	ctual indo Completo Area Cat	poor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting sy te Building Method is used for compliance, list each different type of luminaire on separate lines. tegory Method or Tailored Method is used for compliance, list each different type of luminaire by each differe	ent function area on separate lines
☐ The ad ☐ When ☐ When	ctual indo Completo Area Cat	poor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting sy te Building Method is used for compliance, list each different type of luminaire on separate lines.	ent function area on separate lines
☐ The ad ☐ When ☐ When	ctual indo Completo Area Cat	poor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting sy te Building Method is used for compliance, list each different type of luminaire on separate lines. tegory Method or Tailored Method is used for compliance, list each different type of luminaire by each differe	ent function area on separate lines
☐ The ad ☐ When ☐ When	ctual indo Completo Area Cat	poor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting sy te Building Method is used for compliance, list each different type of luminaire on separate lines. tegory Method or Tailored Method is used for compliance, list each different type of luminaire by each differe	ent function area on separate lines
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☐ The ad ☐ When ☐ When	ctual indo Completo Area Cat	poor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting sy te Building Method is used for compliance, list each different type of luminaire on separate lines. tegory Method or Tailored Method is used for compliance, list each different type of luminaire by each differe	ent function area on separate lines
☐ The ad ☐ When ☐ When	ctual indo Completo Area Cat	poor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting sy te Building Method is used for compliance, list each different type of luminaire on separate lines. tegory Method or Tailored Method is used for compliance, list each different type of luminaire by each differe	ent function area on separate lines
☐ The ad ☐ When ☐ When	ctual indo Completo Area Cat	poor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting sy te Building Method is used for compliance, list each different type of luminaire on separate lines. tegory Method or Tailored Method is used for compliance, list each different type of luminaire by each differe	ent function area on separate lines
☐ The ad ☐ When ☐ When	ctual indo Completo Area Cat	poor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting sy te Building Method is used for compliance, list each different type of luminaire on separate lines. tegory Method or Tailored Method is used for compliance, list each different type of luminaire by each differe	ent function area on separate lines
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	ting Power Allov	vance	l pour	Description		(Page 3
or High Moder	nization		Date	11-18-2019		
filled out for		•	es. This page is only for:			
				Footnotes)		07
02	03 2	04	05		06	07
Sq Ft or Linear ft ¹	Additional Watts Allowed	Wattage Allowance (02 x 03)			Total Design Watts ³	ALLOWED WATTS Smaller o 04 or 06
		0				
		0				
		0				
		0				
		0				
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	ı		er into TOTAL AREA CATEGORY METHOD ADDITIO	NAL ALLOWANCES – S	Section C-1	
5	filled out for METHOD A 02 Sq Ft or	METHOD ADDITIONAL L 02 03 Additional Sq Ft or Watts	filled out for Conditioned and Unconditioned Spaces UNCONDITIONED spaces METHOD ADDITIONAL LIGHTING WATTAGE O2	filled out for Conditioned and Unconditioned Spaces. This page is only for: UNCONDITIONED spaces METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C 02	filled out for Conditioned and Unconditioned Spaces. This page is only for: UNCONDITIONED spaces	filled out for Conditioned and Unconditioned Spaces. This page is only for: UNCONDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes) O2

CEC-NRCC-LTI-03-E (Revised 04/16) CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-LT
Certificate of Compliance - Indoor Lighting Power Allowance	(Page
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019
	<u> </u>
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate a	nd complete.
Documentation Author Name: Dale Ferranti	Documentation Author Signature: Dale Ferrant
Company: Ferranti Engineering	Signature Date: 10-17-2019
Address: 1211 Maricopa Hwy #250	CEA Certification Identification (if applicable):
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
 (responsible designer). The energy features and performance specifications, materials, composing Compliance conform to the requirements of Title 24, Part 1 and Part 6. The building design features or system design features identified on this documents, worksheets, calculations, plans and specifications submittees. I will ensure that a completed signed copy of this Certificate of Compliance. 	correct. Compliance scept responsibility for the building design or system design identified on this Certificate of Compliance sents, and manufactured devices for the building design or system design identified on this Certificate of of the California Code of Regulations. So Certificate of Compliance are consistent with the information provided on other applicable compliance do to the enforcement agency for approval with this building permit application. Incompliance shall be made available with the building permit(s) issued for the building, and made available to the
 The information provided on this Certificate of Compliance is true and of I am eligible under Division 3 of the Business and Professions Code to a (responsible designer). The energy features and performance specifications, materials, composition compliance conform to the requirements of Title 24, Part 1 and Part 6 of The building design features or system design features identified on this documents, worksheets, calculations, plans and specifications submitted. I will ensure that a completed signed copy of this Certificate of Compliant enforcement agency for all applicable inspections. I understand that a complete provides to the building owner at occupancy. 	correct. In the control of the building design or system design identified on this Certificate of Compliance dents, and manufactured devices for the building design or system design identified on this Certificate of of the California Code of Regulations. In the California Code of Regulations of the California Code of Compliance are consistent with the information provided on other applicable compliance of the enforcement agency for approval with this building permit application. In the california Code of Compliance is required to be included with the documentation the completed signed copy of this Certificate of Compliance is required to be included with the documentation the completed signed copy of this Certificate of Compliance is required to be included with the documentation the compliance is required to be included with the documentation the compliance is required to be included with the documentation the compliance is required to be included with the documentation the compliance is required to be included with the documentation the compliance is required to be included with the documentation the compliance is required to be included with the documentation the compliance is required to be included with the documentation the compliance is required to the compliance is required to be included with the documentation the compliance is required to the compliance is required to be included with the documentation the compliance is required to be included with the documentation the compliance is required to the compliance is required to be included with the documentation the compliance is required to be included with the documentation the compliance is required to be included with the compliance is required to be included with the compliance is required to be included with the compliance is required to the compliance is required to the compliance is required to the compliance is required to the compliance is required to the compliance is required to the compliance is required to the compliance is required to t
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CERTIFICATE OF COMPLIANCE			OALII ORINIA LI	LIKOTO	OMMISSION NRCC-LTI-03
Certificate of Compliance - Indoor Lighting Power Allowance					(Page 1 of
Project Name: Bessie Owens Junior High Modernization	Date	Prepared: 11	L-18-2019		(1 486 1 01
bessie owens Junior Filgit Modernization			1-18-2013		
A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: CONDITIONED spaces UNCONDITIONED spaces					
A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES					
If using Complete Building Method for compliance, use only the total in column (a) as total allowed If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Mallowed building watts	-	ce, use o	nly the total in colu	umn (b)) as the total
			(a)		(b)
O1 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on t			0		
D2 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on thi	s page)				2977
O3 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E					
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, P	age 2, Row 1		0		2977
Check here if building contains both conditioned and unconditioned areas.					
B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE					
01	02		03		04
	WATTS	X	COMPLETE		ALLOWED
TYPE OF BUILDING (From §140.6 Table 140.6-B)	PER ft ²		BLDG. AREA	\perp	WATTS
	Tatal Ana			+	0
Total Worth Finter Tata	Total Are		/	- \	
Total Watts. Enter Tota	ii vvatts into section /	A, row I	(Above on this pag	e)	0
C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES					Watts
		Total f	rom section C-2.		2977
		Total f	rom section C-3.		
			(a an this nage)		2977
Total Watts. Enter Total Wat	tts into section A, rov	v 2 (Abo	ve on this page).		

STATE OF CALIFORNIA NDOOR LIGHTING POWER ALLO EC-NRCC-LTI-03-E (Revised 04/16)	DWANCE			CALIFORNIA	ENERG	Y COMMISSION
CERTIFICATE OF COMPLIANCE						NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Po			Data David			(Page 2 of 4)
Project Name: Bessie Owens Junior High Modernization	1		Date Prepared: 1	1-18-2019		
	cioned and Unconditioned Spaces. This page is only for: UNCONDITIONED spaces					
	Portable lighting for offices shall be documented only in Section area as defined in §100.1 of the Standards.	ection G of NRC	CC-LTI-01-E.			
	01	02		03		04
AREA CATEGORY (F	From §140.6 Table 140.6-C)	WATTS	;			ALLOWED
Location in Building	Primary Function Area per Table 140.6-C	PER ft ²	x	AREA (ft ²)	=	WATTS
MULTI-PURPOSE 803 (BLDG H)	MULTI-PURPOSE AREA	1.2		1109		1330.8
MULTI-PURPOSE 804 (BLDG H)	MULTI-PURPOSE AREA	1.2		1868		2241.6
						0
						0
						0
						0
						0
						0
						0
						0
						0
					_	0
						0
						0
						0
						0
			OTALS	2977	_	
Enter sum to	tal Area Category allowed watts into section C-1 of N	RCC-LTI-03-E	this comp	oliance docume	ent)	2977
						WATTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS FLS ACS
DATE: 03/27/2020

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REVISIONS

NO. SUBMITTED APPROVED DESCRIPTION

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OJAI, CA 93023
(805) 705-4772
DALEFERRANTI@LIVE.COM



PRIME CONSULTANT

IBI

ARCHITECTURE PLANNING
San Luis Obispo

San Luis Obispo 4119 Broad Street, Suite 210 San Luis Obispo, CA 93401 805.546.0433 fax: 805.546.0504 ibigroup.com

BAKERSFIELD CITY SCHOOL DISTRICT



BESSIE OWENS JUNIOR HIGH MODERNIZATION 815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:

 PROJECT NO:
 118934

 DRAWN BY:
 VPZ

 CHK'D BY:
 DF

 ISSUE DATE:
 3/3/2020

 SHEET TITLE

INDOOR TITLE 24 DOCUMENTS BLDG H

SHEET NUMBER

TIFICATE OF CO	DMPLIANCE								NRC	C-LTO-01
door Lighting									(F	Page 3 of
Name: Bessie Owe	ens Junior High Modernization						Date Prepared: 11-18-2019			
I. Outdoor Ligh	nting Schedule and Field Inspection Energ	gy Checklist								
	Luminaire Schedule		In	stalled Wa	tts		Location	Cutoff	ì	eld
01	02	03	0		05	06	07	08		9
			How wat	tage was			Primary Function area in			
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	CEC Default from NA8	According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (03 x 05)	which these luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
P2	Parking lot pole light							UH:		
								UL:	-	
		160		\checkmark	2	320		FVH:	0	0
								FH:		
								BH:	_	
								UH:		
								UL:	-	
								FVH:		
						0		BVH:		0
								FH:		
								BH:		
								UH:		
								UL:	-	
						0		FVH:	0	0
								BVH:		
								FH: BH:		
							Enter sum total of all pages (So			
		INS	TALLED WA	ATTS PAG	F TOTAL ·	320	INSTALLED Outdoor lighting w		2	20
						520	NRCC-LTO-01-E; Page 1			
							NNCC-LIO-U1-E; Page 1			

RCC-LTO-01-E (Revised 04/16)	CALIFORNIA ENERGY COMMISSION
TIFICATE OF COMPLIANCE	NRCC-LTO-01-E
door Lighting	(Page 4 of 4
Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019
DOCUMENTATION AUTHORIS DESIADATION STATEMENT	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation	is accurate and complete
Documentation Author Name: Dale Ferranti	Documentation Author Signature: Dale Ferranti
Company: Ferranti Engineering	Signature Date: 10-17-2019
Address: 1211 Maricopa Hwy #250	CEA Certification Identification (if applicable):
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772
RESPONSIBLE PERSON'S DECLARATION STATEMENT	(805) 705-4772
	ons Code to accept responsibility for the building design or system design identified on this Certificate of Compliance
 I am eligible under Division 3 of the Business and Profession (responsible designer). The energy features and performance specifications, mate Compliance conform to the requirements of Title 24, Part The building design features or system design features ided documents, worksheets, calculations, plans and specificat I will ensure that a completed signed copy of this Certificatenforcement agency for all applicable inspections. I under builder provides to the building owner at occupancy. 	erials, components, and manufactured devices for the building design or system design identified on this Certificate of 1 and Part 6 of the California Code of Regulations. entified on this Certificate of Compliance are consistent with the information provided on other applicable compliance ions submitted to the enforcement agency for approval with this building permit application. te of Compliance shall be made available with the building permit(s) issued for the building, and made available to the stand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the
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Outdoor Lighting Project Name: Bessie Owens Junior High Modernization A. General Information Project Address: 815 Eureka St. Bakersfield, CA 93305 Phase of Construction: New Construction Addition Alteration	CERTIFICATE	01-E (Revised 04/16) OF COMPLIANCE			O/ (LII	ORNIA ENERGY COMMISSIO NRCC-L
A. General Information Project Address: 815 Eureka St. Bakersfield, CA 93305 Total Illuminated Hardscan 16,572 SQ. FT. Phase of Construction: New Construction Addition Alteration Outdoor Lighting Zone (LZ) LZ-1 LZ-2 LZ-3 LZ-1 I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, § B. Lighting Compliance Documents (check box for each document included) For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manapublished by the Colifornia Energy Commission. NRCC-LTO-01-E Certificate of Compliance NRCC-LTO-02-E Outdoor Lighting Controls Certificate of Compliance NRCC-LTO-03-E Outdoor Lighting Power Allowance Certificate of Compliance NRCC-LTO-04-E Outdoor Lighting Existing Conditions Certificate of Compliance NRCC-LTO-04-E Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2. Complies ONLY if Installed (Box 02) < Allowed (Box 01) O2 Sum Total INSTALLED Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3, 320						(Page
Project Address: 815 Eureka St. Bakersfield, CA 93305 Total Illuminated Hardscal 16,572 SQ. FT.			n Modernization		Date Prepared: 2	
Project Address: 815 Eureka St. Bakersfield, CA 93305 Total Illuminated Hardscal 16,572 SC. FT. Phase of Construction:	A Conoral In	formation				
Phase of Construction:					Total II	luminated Hardsoans A
Outdoor Lighting Zone (LZ)	Project Addre	815 Eureka St. I	Bakersfield, CA 93305		1	·
Thave confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, § B. Lighting Compliance Documents (check box for each document included)	Phase of Con	struction: 🗸	New Construction	Addition	A	Iteration
B. Lighting Compliance Documents (check box for each document included) For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Mapublished by the California Energy Commission. ✓ NRCC-LTO-01-E Certificate of Compliance ✓ NRCC-LTO-02-E Outdoor Lighting Controls Certificate of Compliance ✓ NRCC-LTO-03-E Outdoor Lighting Power Allowance Certificate of Compliance ✓ NRCC-LTO-04-E Outdoor Lighting Existing Conditions Certificate of Compliance C. Summary of Allowed Outdoor Lighting Power Sum Total ALLOWED Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2. Complies ONLY if Installed (Box 02) ≤ Allowed (Box 01) D. Declaration of Required Installation Certificates Declare by checking all Installation Certificates Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are complete signed.) ✓ NRCI-LTO-01-E - Must be submitted for all buildings ✓ NRCI-LTO-02-E - Must be submitted for all buildings ✓ NRCI-LTO-02-E - Must be submitted for all gipting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. E. Declaration of Required Certificates of Acceptance Declare by checking all of the Certificates of Acceptance Declare by checking all of the Certificates of Acceptance Declare by checking all of the Certificates of Acceptance Declare by checking all of the Certificates of Acceptance Declare by checking all of the Certificates of Acceptance Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance documents are and signed.) ✓ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls. Field Inspector	Outdoor Ligh	ting Zone (LZ)	LZ-1	☐ LZ-2	✓ LZ-3	LZ-4
For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Mapublished by the California Energy Commission. ☑ NRCC-LTO-01-E	I have confirm	ned with the AHJ	which LZ applies to this site	e. For default lighting zone des	ignations, s	ee Title 24 Part 6, §10-1
For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Mapublished by the California Energy Commission. NRCC-LTO-01-E	B. Lighting Co	ompliance Docum	ents (check box for each d	ocument included)		
published by the California Energy Commission. NRCC-LTO-01-E NRCC-LTO-01-E NRCC-LTO-03-E Outdoor Lighting Controls Certificate of Compliance NRCC-LTO-04-E NRCC-LTO-04-E Outdoor Lighting Power Allowance Certificate of Compliance NRCC-LTO-04-E Outdoor Lighting Existing Conditions Certificate of Compliance C. Summary of Allowed Outdoor Lighting Power NRCC-LTO-04-E Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2. Complies ONLY if Installed (Box 02) ≤ Allowed (Box 01) D. Declaration of Required Installation Certificates Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are complete signed.) NRCI-LTO-01-E - Must be submitted for all buildings NRCI-LTO-02-E - Must be submitted for all ghting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. E. Declaration of Required Certificates of Acceptance Declare by checking all of the Certificates of Acceptance Declare by checking all of the Certificates of Acceptance Declare by checking all of the Certificates of Acceptance Declare by checking all of the Certificates of Acceptance Declare by checking all of the Certificates of Acceptance Declare by checking all of the Certificates of Acceptance Declare by checking all of the Certificates of Acceptance Declare by checking all of the Certificates of Acceptance Declare by Checking all of the Certificates of Acceptance Declare by Checking all of the Certificates of Acceptance Declare by Checking all of the Certificates of Acceptance Declare by Checking all of the Certificates of Acceptance Declare by Checking all of the Certificates of Acceptance Declare by Checking all of the Certificates of Acceptance Declare by Checking all of the Certificates of Acceptance Declare by Checking all of the Certificates of Acceptance Declare by Checking all of the Certificates of Acceptance Declare by Ch			·		nts. refer to t	he Nonresidential Manual
NRCC-LTO-02-E					,,	
NRCC-LTO-03-E	✓ NRCC-L	TO-01-E	Certificate of Complian	ce		
NRCC-LTO-04-E Outdoor Lighting Existing Conditions Certificate of Compliance C. Summary of Allowed Outdoor Lighting Power Sum Total ALLOWED Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2. Complies ONLY if Installed (Box 02) ≤ Allowed (Box 01) D. Declaration of Required Installation Certificates Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are complete signed.) NRCI-LTO-01-E - Must be submitted for all buildings NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. F. Declaration of Required Certificates of Acceptance Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance documents are and signed.) NRCI-LTO-02-A - Must be submitted for outdoor lighting controls. □ Field Inspector F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7 01 Outdoor Lighting Power Requirements in §140.7		ТО-02-Е	Outdoor Lighting Contr	ols Certificate of Compliance		
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A Building Energy Efficiency Standards - 2016 Nonresidential Compliance						

OUTDOOR LIGHTING CEC-NRCC-LTO-01-E (Revised 04/16)		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTO-01
Outdoor Lighting		(Page 2 of
Project Name: Bessie Owens Junior High M	odernization	Date Prepared: 11-18-2019
G. Schedule of Luminaires Exemp	t from the Cutoff Requirements in §130.2	(b)
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Name or Symbol	Description of exempt luminai	re in accordance with the exemptions
	t from the Outdoor Lighting Control Requ	
01 Name or Symbol	Description of exempt luminai	re in accordance with the exemptions
		-

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS FLS ACS
DATE: 03/27/2020

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DATE DATE
NO. SUBMITTED APPROVED DESCRIPTION

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FERRANTI ENGINEERING

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(805) 705-4772
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San Luis Obispo 4119 Broad Street, Suite 210

San Luis Obispo, CA 93401 805.546.0433 fax: 805.546.0504 ibigroup.com

BAKERSFIELD CITY SCHOOL DISTRICT



BESSIE OWENS JUNIOR HIGH MODERNIZATION 815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:

 PROJECT NO:
 118934

 DRAWN BY:
 VPZ

 CHK'D BY:
 DF

 ISSUE DATE:
 3/3/2020

 SHEET TITLE

OUTDOOR TITLE 24 DOCUMENTS NEW PARKING

SHEET NUMBER

DIV. OF THE STATE ARCHITECT APP. 03-120102 INC: REVIEWED FOR SS 🗸 FLS 🗸 ACS 🗸

DATE: 03/27/2020

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San Luis Obispo, CA 93401 805.546.0433 fax: 805.546.0504 ibigroup.com

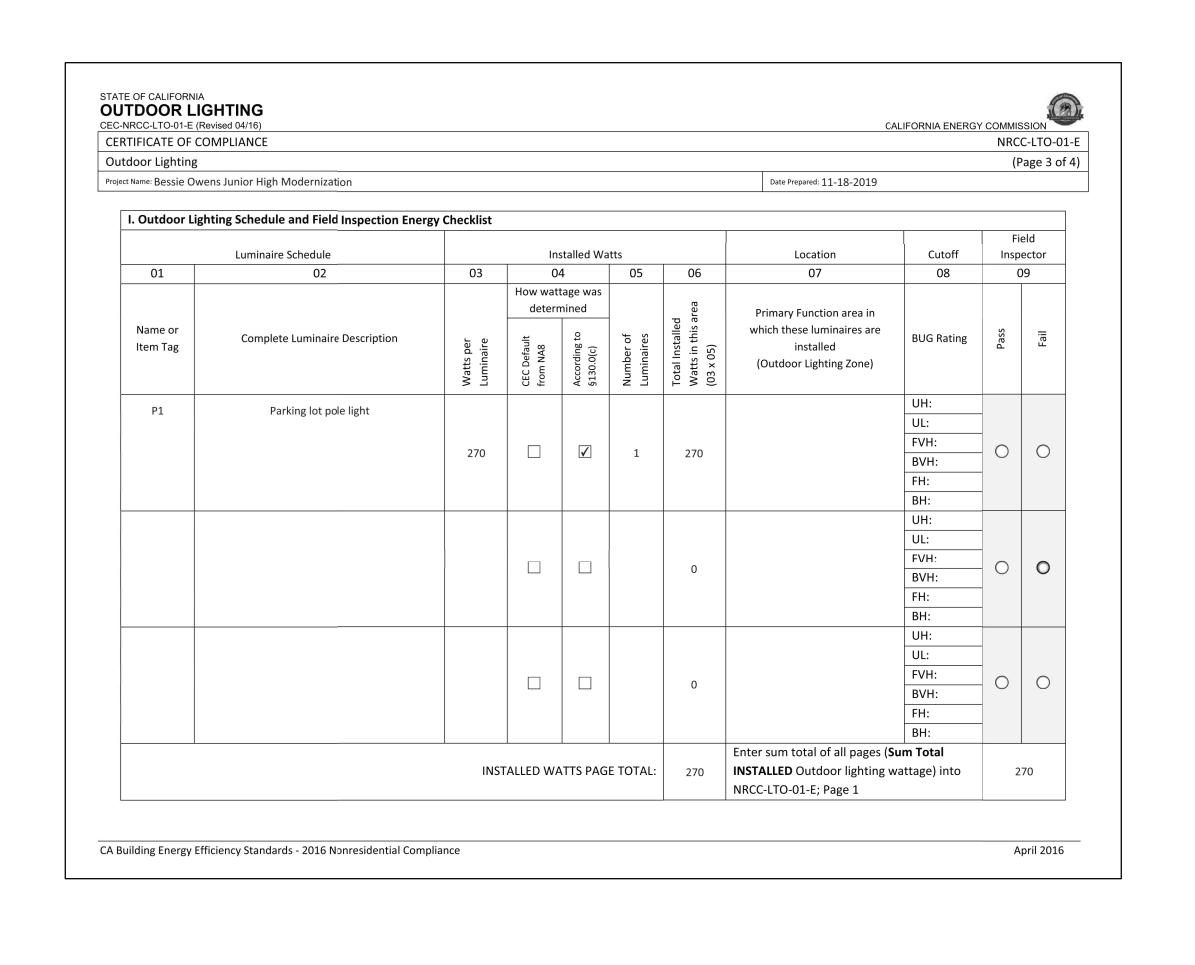
BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION 815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO: PROJECT NO: 118934 DRAWN BY: VPZ CHK'D BY: DF ISSUE DATE: 3/3/2020 SHEET TITLE

> **OUTDOOR TITLE 24 DOCUMENTS EXISTING PARKING**

SHEET NUMBER



C-NRCC-LTO-01-E (Revised 04/16) ERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-LTO-0
utdoor Lighting	(Page 4 d
ject Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1 Legality that this Certificate of Compliance documentation	n is accurate and complete.
Documentation Author Name: Dale Ferranti	Documentation Author Signature: Dale Ferranti
Company: Ferranti Engineering	Signature Date: 10-17-2019
Address: 1211 Maricopa Hwy #250	CEA Certification Identification (if applicable):
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772
 (responsible designer). The energy features and performance specifications, m Compliance conform to the requirements of Title 24, Pa The building design features or system design features documents, worksheets, calculations, plans and specific I will ensure that a completed signed copy of this Certif 	ce is true and correct. ions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance terials, components, and manufactured devices for the building design or system design identified on this Certificate of t 1 and Part 6 of the California Code of Regulations. lentified on this Certificate of Compliance are consistent with the information provided on other applicable compliance tions submitted to the enforcement agency for approval with this building permit application. ate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the
 I certify the following under penalty of perjury, under the late. The information provided on this Certificate of Compliants. I am eligible under Division 3 of the Business and Profes (responsible designer). The energy features and performance specifications, more Compliance conform to the requirements of Title 24, Parameters. The building design features or system design features documents, worksheets, calculations, plans and specifications. I will ensure that a completed signed copy of this Certifications. 	ce is true and correct. ions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance terials, components, and manufactured devices for the building design or system design identified on this Certificate of t 1 and Part 6 of the California Code of Regulations. lentified on this Certificate of Compliance are consistent with the information provided on other applicable compliance tions submitted to the enforcement agency for approval with this building permit application. ate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the erstand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the
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 I certify the following under penalty of perjury, under the late. The information provided on this Certificate of Compliants. I am eligible under Division 3 of the Business and Profes (responsible designer). The energy features and performance specifications, mand compliance conform to the requirements of Title 24, Pasteriants. The building design features or system design features documents, worksheets, calculations, plans and specifications. I will ensure that a completed signed copy of this Certification enforcement agency for all applicable inspections. I under builder provides to the building owner at occupancy. Responsible Designer Name: Dale Ferranti	ce is true and correct. ions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance terials, components, and manufactured devices for the building design or system design identified on this Certificate of t 1 and Part 6 of the California Code of Regulations. lentified on this Certificate of Compliance are consistent with the information provided on other applicable compliance tions submitted to the enforcement agency for approval with this building permit application. ate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the erstand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the

	Description of exempt luminaire in accordance with the exemptions
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E OF CALIFORNIA	
TDOOR LIGHTING NRCC-LTO-01-E (Revised 04/16)	CALIFORNIA ENERGY COMMISSION
TIFICATE OF COMPLIANCE door Lighting	NRCC-LTO-01-E (Page 2 of 4)
t Name: Bessie Owens Junior High N	
chadula of Luminaires Evanu	pt from the Cutoff Requirements in §130.2(b)
01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions
	pt from the Outdoor Lighting Control Requirements in §130.2(c)
O1 Name or Symbol	pt from the Outdoor Lighting Control Requirements in §130.2(c) 02 Description of exempt luminaire in accordance with the exemptions
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CALIFORNIA ENERGY COMMISSION

Total Illuminated Hardscape Area:

702

270

Field Inspector

Field Inspector

Field Inspector

April 2016

Date Prepared: 11-18-2019

13,355 SQ. FT.

✓ Alteration

√ LZ-3

Addition

I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual

Outdoor Lighting Controls Certificate of Compliance

Outdoor Lighting Power Allowance Certificate of Compliance

Outdoor Lighting Existing Conditions Certificate of Compliance

Complies ONLY if **Installed** (Box 02) ≤ **Allowed** (Box 01)

Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are completed and

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance documents are completed

☐ LZ-2

___ LZ-1

Certificate of Compliance

Sum Total ALLOWED Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1

Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2.

Sum Total INSTALLED Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3.

✓ NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control

NRCC-LTO-01-E (Page 1 of 4)

STATE OF CALIFORNIA

Outdoor Lighting

A. General Information

Outdoor Lighting Zone (LZ)

✓ NRCC-LTO-01-E

✓ NRCC-LTO-03-E

■ NRCC-LTO-04-E

NRCC-LTO-02-E

OUTDOOR LIGHTING

CEC-NRCC-LTO-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE

Project Name: Bessie Owens Junior High Modernization

Project Address: 815 Eureka St. Bakersfield, CA 93305

published by the California Energy Commission.

C. Summary of Allowed Outdoor Lighting Power

D. Declaration of Required Installation Certificates

✓ NRCI-LTO-01-E - Must be submitted for all buildings

E. Declaration of Required Certificates of Acceptance

✓ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

System (EMCS), to be recognized for compliance.

and signed.)

Phase of Construction: New Construction

B. Lighting Compliance Documents (check box for each document included)

4

DIV. OF THE STATE ARCHITEC

APP. 03-120102 INC:

DATE: 03/27/2020

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CALIFORNIA ENERGY COMMISSION

Date Prepared: 10-17-2018

NRCC-LTO-02-E

(Page 1 of 3)

August 2016

NRCC-LTO-02-E

August 2016

(Page 2 of 3)

CALIFORNIA ENERGY COMMISSION

Date Prepared: 10-17-2018

Standards Complying With

(✓ all that apply, or leave empty if

Exempted)

•

FERRANTI ENGINEERING CONSULTING **ELECTRICAL ENGINEERS** 1211 MARICOPA HWY, SUITE 250 OJAI, CA 93023 (805) 705-4772



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PRIME CONSULTANT

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ARCHITECTURE PLANNING San Luis Obispo 4119 Broad Street, Suite 210 San Luis Obispo, CA 93401

805.546.0433 fax: 805.546.0504

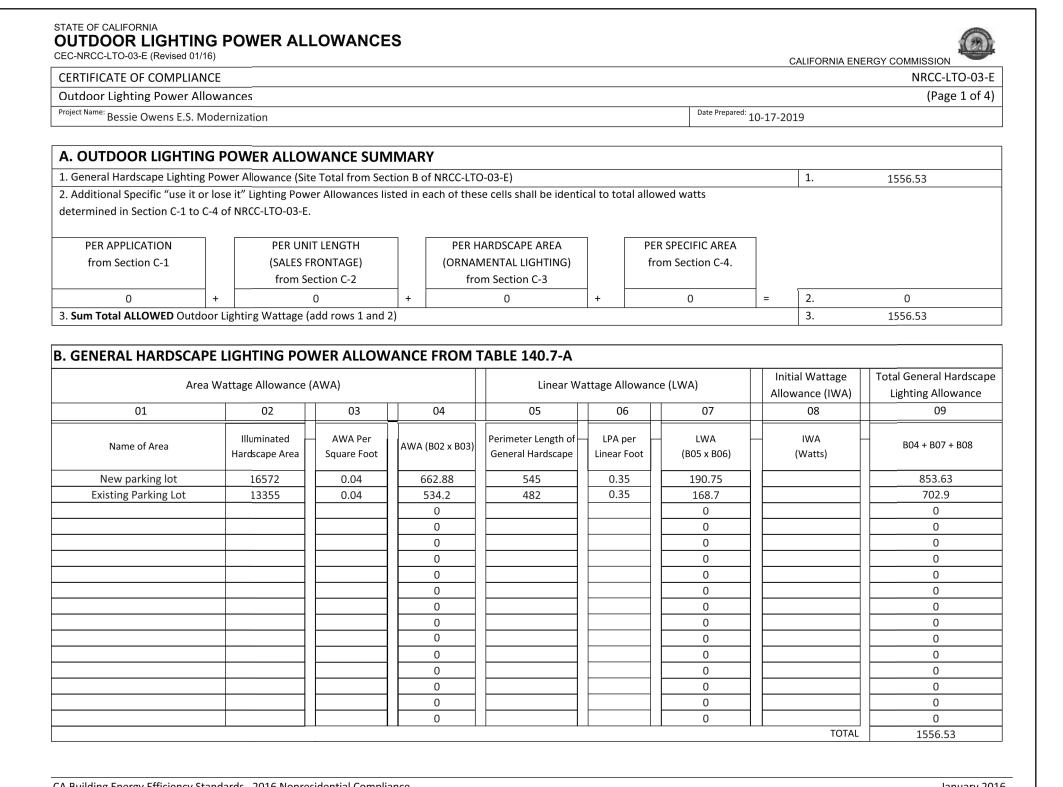
BAKERSFIELD CITY SCHOOL DISTRICT



BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKI	ERSFIELD, CA 93305
OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020
SHEET TITLE	

OUTDOOR TITLE 24 DOCUMENTS CLASSROOMS



C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATION The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used. Use Outdoor Lighting Zone (OL2) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances.	EC-NRCC-LTO-03-E (Re	vised 01/16)	ER ALLOW	,				CALII	FORNIA ENERGY CO	MMISSION ***
C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used. Use Outdoor Lighting Zone (OLZ) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances. C-1. WATTAGE ALLOWANCE PER APPLICATION — Table 140.7-B	,									NRCC-LTO-03-
C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used. Use Outdoor Lighting Zone (OLZ) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances. C-1. WATTAGE ALLOWANCE PER APPLICATION — Table 140.7-B Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations Emergency Vehicle Facilities; Drive Up Windows; Vehicle Service Station Uncovered Fuel Dispenser, ATM Machine Lighting If more than one luminaire type is used per location, use multiple rows for that location O1	Outdoor Lighting Po	ower Allowances								(Page 2 of 4
□ The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used. □ Use Outdoor Lighting Zone (OLZ) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances. C-1. WATTAGE ALLOWANCE PER APPLICATION — Table 140.7-B □ Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations Emergency Vehicle Facilities; Drive Up Windows; Vehicle Service Station Uncovered Fuel Dispenser, ATM Machine Lighting □ If more than one luminaire type is used per location, use multiple rows for that location 01 02 03 04 05 06 07 08 09 ALLOTTED WATTS	^{Project Name:} Bessie Owe	ns E.S. Modernizatio	on				Date Prepar	^{ed:} 10-17-2019		
□ Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations Emergency Vehicle Facilities; Drive Up Windows; Vehicle Service Station Uncovered Fuel Dispenser, ATM Machine Lighting □ If more than one luminaire type is used per location, use multiple rows for that location 01 02 03 04 05 06 07 08 09 ALLOTTED WATTS DESIGN WATTS	The additional spe	ecific outdoor ligh	ting power allo	wance shall b	e the smaller	of the allowed lighting power o	r the actual ligh	ting power us	ed.	
Name of Location for Which Allowance is Claimed	Available only fo Emergency Vehic	r qualifying location le Facilities; Drive	ons, which inclu Up Windows; V	de Building E ehicle Servic	Entrances or Ex e Station Unco	overed Fuel Dispenser, ATM Ma		Police Station	ns, Hospitals, Fire	Stations, and
Name of Location for Which Allowance is Claimed Number of Qualifying Locations Locations Number of Qualifying Locations Locations Number of Qualifying Locations Locations Name of Locations Name of Locations Name of Locations Number of Qualifying Locations Name of Loca	01	02	03	04	05	06	07	08	09	10
Name of Location for Which Allowance is Claimed Locations Location Number of Qualifying Location Qualifyin		ALL	OTTED WATTS			DESIGN	I WATTS			
C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B ☐ If more than one luminaire type is used per location, use multiple rows for that location ☐ 0	or Which Allowance	Qualifying	Allowance per Qualifying	Watts	Code or	Luminaire Description		•	_	Allowed Watts (smaller of 04 c
C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B If more than one luminaire type is used per location, use multiple rows for that location 01 02 03 04 05 06 07 08 09 ALLOTTED WATTS Name of Location for Which Allowance is Claimed Design Watts Sales Frontage Wattage Allotted Luminaire Watts per Design Watts (smalle contains to the con				0					0	
C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B If more than one luminaire type is used per location, use multiple rows for that location 01 02 03 04 05 06 07 08 09 ALLOTTED WATTS Name of Location for Which Allowance is Claimed Name of Sales Frontage Linear Feet of Sales Frontage Linear Foot (02 x 03) Symbol Luminaire Description Sum total allowance per application on this site: DESIGN WATTS Luminaire Watts per Design Watts (smalle Luminaire Quantity Luminaire Under the Code of Q1 x 08) Code or Code				0					0	
C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B If more than one luminaire type is used per location, use multiple rows for that location 01 02 03 04 05 06 07 08 09 ALLOTTED WATTS Name of Location for Which Allowance for Wattage Allotted Luminaire for Which Allowance is Claimed Name of Sales Frontage Linear Foot (02 x 03) Symbol Luminaire Description Quantity Luminaire (07 x 08) (07 x 08)									_	
C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B ☐ If more than one luminaire type is used per location, use multiple rows for that location ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐				0						_
□ If more than one luminaire type is used per location, use multiple rows for that location 01 02 03 04 05 06 07 08 09 ALLOTTED WATTS Name of Location for Which Allowance is Claimed Name of Location Sales Frontage Linear Feet of Sales Frontage Sales Frontage Linear Foot (02 x 03) Symbol Cuminaire Description Of that location of that location of that location of the locat							Sum total allov	wance per appli	cation on this site:	0
ALLOTTED WATTS Name of Location for Which Allowance is Claimed Allowance Sales Frontage Name of Location for Wattage Allotted Luminaire Solution (02 x 03) Symbol Luminaire Description DESIGN WATTS Allowance Luminaire Watts per Design Watts (smalle Undicated Size Strontage Undicated Size Str				•	0 ,					
Name of Location for Which Allowance is Claimed Name of Location Wattage Allotted Luminaire Luminaire Luminaire Luminaire Watts per Design Watts (smalle Code or Luminaire Code or Luminaire Code or Luminaire Code or Code	01	02	03	04	05	06	07	08	09	10
for Which Allowance Linear Feet of Sales Frontage Linear Foot (02 x 03) Symbol Luminaire Description Luminaire Watts per Using Watts (smalle Code or Luminaire Description Code or Luminaire Description Code or Code		А				DESIG	N WATTS			
is Claimed Sales Frontage Linear Foot (02 x 03) Symbol Luminaire Description Quantity Luminaire (07 x 08)										Allowed Watts
			1			Luminaine Description		· ·	_	(smaller of 04 o
	is Claimed	Sales Frontage	Linear Foot	+ ` '	Symbol	Luminaire Description	Quantity	Luminaire	-	09)
				+					_	
									-	
				1 ()						

- Allowance for the to									NRCC-LTO-
C-3. WATTAGE ALL - Allowance for the to	E.S. Modernizati								(Page 3
- Allowance for the to		on				Date	Prepared: 10-17-2	2019	
Section 130.0(c), an If more than one lun	tal site illumina d shall be post-t	ted hardscape top luminaires,	area. Lumin lanterns, pe	aires qualifying endant luminai	AREA (Ornamental Light for this allowance shall be r res, or chandeliers. at location	<i>-</i>		s determined in	accordance with
01	02	03	04	05	06	07	08	09	10
	ALI	LOTTED WATTS		·	DESIGN	WATTS			
Name of area for which ornamental allowance is claimed	Square Feet of Hardscape	Wattage Allowance per Square Foot	Allotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 0
			0					0	
			0					0	
			0					0	
- Allowances for Bui	Iding Facades; C	Outdoor Sales L	0 FOOT OF ots; Vehicle	Service Station	REA - Table 140.7-B Hardscape; Vehicle Service	Station Canop	ies; Sales Can	0 sting on the site:.	0 s Canopies; Tunnel
- Allowances for Bui Guard Stations; Stud - If more than one I	Iding Facades; Clent Pick-up/Drouminaire type is	Outdoor Sales L op-off zone: Ou sused per locat	0 FOOT OF ots; Vehicle tdoor Dining ion, use mu	Service Station g; Special Secur Itiple rows for	REA - Table 140.7-B Hardscape; Vehicle Service hity Lighting for Retail Parking that location	Station Canop g and Pedestri	ies; Sales Can an Hardscape	0 Iting on the site:. opies; Non-sales	s Canopies; Tunnel
- Allowances for Bui Guard Stations; Stud	lding Facades; Clent Pick-up/Drouminaire type is	Outdoor Sales Lop-off zone: Ou s used per locat	0 FOOT OF ots; Vehicle tdoor Dining tion, use mu	Service Station g; Special Secur	REA - Table 140.7-B Hardscape; Vehicle Service Hity Lighting for Retail Parking that location	Station Canop g and Pedestri 07	ies; Sales Can	0 sting on the site:.	
- Allowances for Bui Guard Stations; Stud - If more than one I	lding Facades; Clent Pick-up/Drouminaire type is	Outdoor Sales Lop-off zone: Ou s used per locat 03	0 FOOT OF ots; Vehicle tdoor Dining tion, use mu 04	Service Station g; Special Secur Itiple rows for	REA - Table 140.7-B Hardscape; Vehicle Service Hity Lighting for Retail Parking that location	Station Canop g and Pedestri	ies; Sales Can an Hardscape	0 Iting on the site:. opies; Non-sales	s Canopies; Tunnel
- Allowances for Bui Guard Stations; Stud - If more than one I	lding Facades; Clent Pick-up/Drouminaire type is	Outdoor Sales Lop-off zone: Outdoor Sales Location Used per location O3 LLOTTED WATTS Wattage Allowance per	of FOOT OF ots; Vehicle tdoor Dining on, use mu 04 G Allotted Watts	Service Station g; Special Secur Itiple rows for	REA - Table 140.7-B Hardscape; Vehicle Service Hity Lighting for Retail Parking that location	Station Canop g and Pedestri 07	ies; Sales Can an Hardscape	0 Iting on the site:. opies; Non-sales	10 Allowed Watts
- Allowances for Bui Guard Stations; Stud - If more than one lo 01 Name of Location for Which Allowance	lding Facades; Clent Pick-up/Drouminaire type is 02 AllIluminated Are	Outdoor Sales Lop-off zone: Outdoor Sales Lores on One of the Control of the Cont	ots; Vehicle tdoor Dining on, use mu O4 Allotted Watts (02 x 03) O	Service Station g; Special Secur ltiple rows for 05 Luminaire Code or	REA - Table 140.7-B Hardscape; Vehicle Service rity Lighting for Retail Parking that location 06 DESIG	Station Canop g and Pedestri 07 N WATTS Luminaire	ies; Sales Can an Hardscape 08 Watts per	Onting on the site:. Opies; Non-sales Op Design Watts (07 x 08) O	10 Allowed Watts
- Allowances for Bui Guard Stations; Stud - If more than one In 01 Name of Location for Which Allowance	lding Facades; Clent Pick-up/Drouminaire type is 02 AllIluminated Are	Outdoor Sales Lop-off zone: Outdoor Sales Lores on One of the Control of the Cont	ots; Vehicle tdoor Dining od O4 Allotted Watts (02 x 03) 0	Service Station g; Special Secur ltiple rows for 05 Luminaire Code or	REA - Table 140.7-B Hardscape; Vehicle Service rity Lighting for Retail Parking that location 06 DESIG	Station Canop g and Pedestri 07 N WATTS Luminaire	ies; Sales Can an Hardscape 08 Watts per	Onting on the site:. Opies; Non-sales Opies; Non-sales Opies; Non-sales Opies; Non-sales Opies; Non-sales Opies; Non-sales	S Canopies; Tunnel 10 Allowed Watts
- Allowances for Bui Guard Stations; Stud - If more than one lo 01 Name of Location for Which Allowance	lding Facades; Clent Pick-up/Drouminaire type is 02 AllIluminated Are	Outdoor Sales Lop-off zone: Outdoor Sales Lores on One of the Control of the Cont	ots; Vehicle tdoor Dining ion, use mu 04 Allotted Watts (02 x 03) 0 0	Service Station g; Special Secur ltiple rows for 05 Luminaire Code or	REA - Table 140.7-B Hardscape; Vehicle Service rity Lighting for Retail Parking that location 06 DESIG	Station Canop g and Pedestri 07 N WATTS Luminaire	ies; Sales Can an Hardscape 08 Watts per	Outing on the site:. Opies; Non-sales Op Design Watts (07 x 08) O O O	10 Allowed Watts
- Allowances for Bui Guard Stations; Stud - If more than one In 01 Name of Location for Which Allowance	lding Facades; Clent Pick-up/Drouminaire type is 02 AllIluminated Are	Outdoor Sales Lop-off zone: Outdoor Sales Lores on One of the Control of the Cont	ots; Vehicle tdoor Dining od O4 Allotted Watts (02 x 03) 0	Service Station g; Special Secur ltiple rows for 05 Luminaire Code or	REA - Table 140.7-B Hardscape; Vehicle Service ity Lighting for Retail Parking that location 06 DESIGN Luminaire Description	Station Canop g and Pedestri 07 N WATTS Luminaire Quantity	ies; Sales Can an Hardscape 08 Watts per Luminaire	Onting on the site:. Opies; Non-sales Opies; Non-sales Opies; Non-sales Opies; Non-sales Opies; Non-sales Opies; Non-sales	10 Allowed Watts (smaller of 04 or 0

OUTDOOR LIGHTING CONTROLS CEC-NRCC-LTO-02-E (Revised 08/16)	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	NRCC-L
Outdoor Lighting Controls	(Pag
Project Name: Bessie Owens E.S. Modernization	Date Prepared: 10-17-2018
DOCUMENTATION AUTHOR'S DECLARATION STATE	·NT
1 L certify that this Certificate of Compliance doc	entation is accurate and complete.
Documentation Author Name: Dale Ferranti	Documentation Author Signature: Dale Ferranti
Company: Ferranti Engineering	Signature Date: 10-17-2018
Address: 1211 Maricopa Hwy #250	CEA Certification Identification (if applicable):
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772
	(003) 703 1772
 RESPONSIBLE PERSON'S DECLARATION STATEMEN I certify the following under penalty of perjury, und The information provided on this Certificate of I am eligible under Division 3 of the Business a (responsible designer). The energy features and performance specifical Compliance conform to the requirements of Ti The building design features or system design documents, worksheets, calculations, plans an I will ensure that a completed signed copy of the enforcement agency for all applicable inspection 	he laws of the State of California: mpliance is true and correct. Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance ns, materials, components, and manufactured devices for the building design or system design identified on this Certificate of 24, Part 1 and Part 6 of the California Code of Regulations. tures identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance pecifications submitted to the enforcement agency for approval with this building permit application. Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation
 RESPONSIBLE PERSON'S DECLARATION STATEMEN I certify the following under penalty of perjury, und The information provided on this Certificate of I am eligible under Division 3 of the Business a (responsible designer). The energy features and performance specifical Compliance conform to the requirements of Ti The building design features or system designed documents, worksheets, calculations, plans and I will ensure that a completed signed copy of the 	he laws of the State of California: mpliance is true and correct. Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance ns, materials, components, and manufactured devices for the building design or system design identified on this Certificate of 24, Part 1 and Part 6 of the California Code of Regulations. tures identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance pecifications submitted to the enforcement agency for approval with this building permit application. Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation
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RESPONSIBLE PERSON'S DECLARATION STATEMEN I certify the following under penalty of perjury, und 1. The information provided on this Certificate of 2. I am eligible under Division 3 of the Business a (responsible designer). 3. The energy features and performance specifical Compliance conform to the requirements of Tile 4. The building design features or system designed documents, worksheets, calculations, plans and 5. I will ensure that a completed signed copy of the enforcement agency for all applicable inspection builder provides to the building owner at occur. Responsible Designer Name: Dale Ferranti Company: Ferranti Engineering	he laws of the State of California: mpliance is true and correct. Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance ns, materials, components, and manufactured devices for the building design or system design identified on this Certificate of 24, Part 1 and Part 6 of the California Code of Regulations. tures identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance pecifications submitted to the enforcement agency for approval with this building permit application. Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation incy. Responsible Designer Signature: Dale Ferranti Date Signed: 10-17-2018
RESPONSIBLE PERSON'S DECLARATION STATEMEN I certify the following under penalty of perjury, und The information provided on this Certificate of I am eligible under Division 3 of the Business a (responsible designer). The energy features and performance specifical Compliance conform to the requirements of Tile. The building design features or system designed documents, worksheets, calculations, plans and the system of the enforcement agency for all applicable inspection builder provides to the building owner at occur. Responsible Designer Name: Dale Ferranti	he laws of the State of California: mpliance is true and correct. Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance ns, materials, components, and manufactured devices for the building design or system design identified on this Certificate of 24, Part 1 and Part 6 of the California Code of Regulations. tures identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance pecifications submitted to the enforcement agency for approval with this building permit application. Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the 1 understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation icy. Responsible Designer Signature: Dale Ferranti

OUTDOOR LIGHTING CONTROLS

Project Name: Bessie Owens E.S. Modernization

Regulations in accordance with §110.9(a).

in accordance with §130.4(b).

accordance with §130.0(d).

in accordance with Section 130.2(c)1.

accordance with Section 130.2(c)2.

controls in accordance with Section 130.2(c)3.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

OUTDOOR LIGHTING CONTROLS

Project Name: Bessie Owens E.S. Modernization

Location and Application of

Luminaires Being

Controlled

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

P1, New Parking Lot

P2, New Parking Lot

CERTIFICATE OF COMPLIANCE

Outdoor Lighting Controls

A. Mandatory Outdoor Lighting Control Declaration Statements

Uplight and Glare requirements in accordance with Section 130.2(b)

☐ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency

Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted

All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in

All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of automatically switching OFF

All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.

All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting

For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with Section 130.2(c)5

shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the

All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with

All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in

✓ Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting controls,

Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5.

For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c)4.

applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.

B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist

Outdoor Lighting Control Schedule

Astro time-switch control

Type/ Description of Lighting Control (i.e.

outdoor motion sensor, outdoor

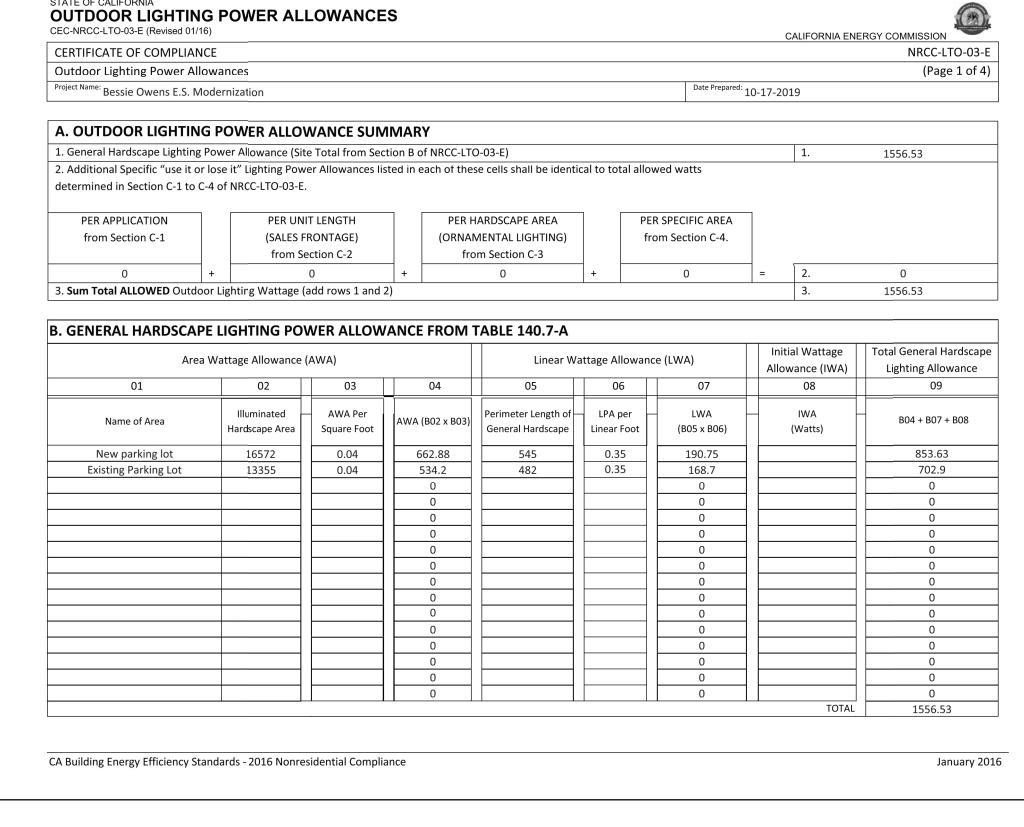
photocontrol, outdoor astronomical time-

switch control, automatic scheduling

control, part-night outdoor lighting control)

CERTIFICATE OF COMPLIANCE

Outdoor Lighting Controls



OUTDOOR LIGHTING POWER ALLOWANCES

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

RESPONSIBLE PERSON'S DECLARATION STATEMENT

builder provides to the building owner at occupancy.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

1. I certify that this Certificate of Compliance documentation is accurate and complete.

I certify the following under penalty of perjury, under the laws of the State of California:

Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

1. The information provided on this Certificate of Compliance is true and correct.

CALIFORNIA ENERGY COMMISSION

Date Prepared: 10-17-2019

Documentation Author Signature: Dale Ferranti

EA Certification Identification (if applicable):

Responsible Designer Signature: Dale Ferranti

Date Signed: 10-17-2019

Phone: (805) 705-4772

E17524

Signature Date: 10-17-2019

hone: (805) 705-4772

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the

enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the

documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

NRCC-LTO-03-E

(Page 4 of 4)

January 2016

CEC-NRCC-LTO-03-E (Revised 01/16)

CERTIFICATE OF COMPLIANCE

Outdoor Lighting Power Allowances

Documentation Author Name: Dale Ferranti

Company: Ferranti Engineering

City/State/Zip: Ojai/CA/93023

Address: 1211 Maricopa Hwy #250

Responsible Designer Name: Dale Ferranti

Company: Ferranti Engineering

City/State/Zip: Ojai/CA/93023

Address: 1211 Maricopa Hwy #250

Project Name: Bessie Owens E.S. Modernization

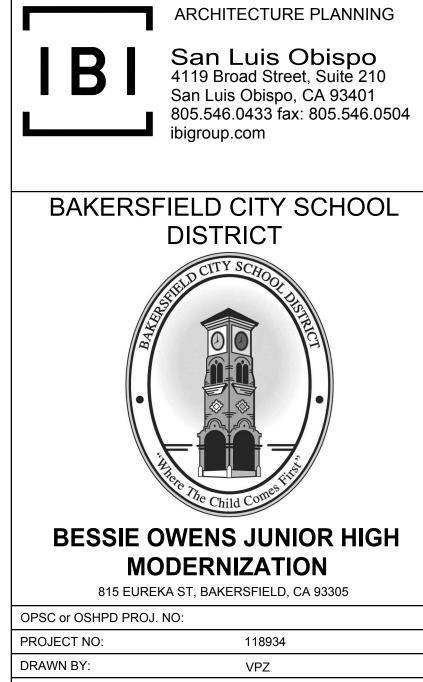
STATE OF CALIFORNIA OUTDOOR LIGI CEC-NRCC-LTO-03-E (Rev		ER ALLOW	ANCES				CALL	FORNIA ENERGY CO	DMMISSION
CERTIFICATE OF COM									NRCC-LTO-03-
Outdoor Lighting Po	wer Allowances								(Page 2 of 4
Project Name: Bessie Owen	s E.S. Modernizatio	on				Date Prepar	^{ed:} 10-17-2019		
						•			
C. ADDITIONAL "U	JSE IT OR LOSI	E IT" OUTDO	OR LIGHTI	NG POWER A	LLOWANCES FOR SPECII	IC APPLICAT	TIONS		
☐ The additional spe	cific outdoor light	ting power allow	ance shall b	e the smaller of	the allowed lighting power or	the actual ligh	ting power us	ed.	
□ Use Outdoor Lighti	ng Zone (OLZ) th	at is documente	ed on page 1	of NRCC-LTO-02	1-E to calculate the specific wa	attage allowand	ces.		
C-1. WATTAGE AL	LOWANCE PE	R APPLICATIO	N – Table	140.7-B					
					s; Primary Entrances to Senio	· Care Facilities	Police Station	ns Hospitals Fire	Stations and
			_		ered Fuel Dispenser, ATM Ma		, i once station	15, 1105pitais, 1110	Stations, and
☐ If more than one I	-	•			•	cimic rigitanis			
01	02	03	04	05	06	07	08	09	10
01		OTTED WATTS		03		WATTS		_	
-		Wattage			DESIGN			T	
Name of Location	Number of	Allowance per	Allotted	Luminaire					Allowed Watts
for Which Allowance	Qualifying	Qualifying	Watts	Code or		Luminaire	Watts per	Design Watts	(smaller of 04 c
is Claimed	Locations	Location	(02 x 03)	Symbol	Luminaire Description	Quantity	Luminaire	(07 x 08)	09)
			0					0	
			0					0	
			0					0	
			0					0	
						Sum total allo	wance per appl	ication on this site:	0
C-2. WATTAGE AL	LOWANCE PE	R UNIT LENG	TH (Sales I	Frontage) fro	m Table 140.7-B				
□ If more than one li	uminaire type is ι	used per locatio	n, use multi	ole rows for that	t location				
a il more than one i	02	03	04	05	06	07	08	09	10
01		LLOTTED WATTS			DESIG	N WATTS			
		Wattage	Allotted	Luminaire					Allowed Watts
				Code or		Luminaire	Watts per	Design Watts	(smaller of 04 o
01	Linear Feet of	Allowance per	Watts			Oughtitu	Luminaire	(07 x 08)	09)
01 Name of Location		_	Watts (02 x 03)	Symbol	Luminaire Description	Quantity	Earminane	(07 × 08)	/
01 Name of Location for Which Allowance	Linear Feet of	Allowance per			Luminaire Description	Quantity	Editinanc	0	
01 Name of Location for Which Allowance	Linear Feet of	Allowance per	(02 x 03) 0		Luminaire Description	Quantity	Lammane	0	
01 Name of Location for Which Allowance	Linear Feet of	Allowance per	(02 x 03)		Luminaire Description	Quantity	Zummane	0	

	OR LIGHTING -LTI-01-E (Revised 04/16)			CALIFORNIA ENERGY CO	OMMISSIC
CERTIFIC	CATE OF COMPLIANCE				NRCC
Indoor L	ighting				(Pa
Project Na	me: Bessie Owens Junior High Modernization			Date Prepared: 11-18-2019	
C. Sum	mary of Allowed Lighting Power				
Conditio	oned and Unconditioned space Lighting must not be combined	for c	ompliance		
	Indoor Lighting Power for Conditioned Spaces			Indoor Lighting Power for Unconditioned Space	es
			Watts		Watts
01	Installed Lighting NRCC-LTI-01-E, Table H, page 5	+	12084	Installed Lighting NRCC-LTI-01-E, Table H, page 5 +	
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+	0		
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	
04	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	=	12084	Adjusted Installed Lighting Power (row 1 minus row 3)	0
	Complies ONLY if Installed ≤ Allowed (Box 04 < Box	· 05)		Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05)	
	Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1			Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1	
05	Alterations with replacement luminaires that have at least 50/35%lower power compared to the original existing luminaires may instead use the allowed wattage from NRCC-LTI-06, page 2		20856	Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2	

. Declar	ation of	Required Certificates of Installation	
eclare by	selecting	yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)	
YES	NO	Form/Title	
•	0	NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
0	•	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
0	•	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
0	•	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
0	•	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
0	•	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

	LIGHT			CALIFORNIA ENERGY COMMISSION
CERTIFICA		MPLIANCE		NRCC-LT
Indoor Lig		<u> </u>	la. a	(Page :
Project Nam	e: Bessie Ov	vens Junior High Modernization	Date Prepar	red: 11-18-2019
E. Declar	ation of	Required Certificates of Acceptance		
		yes for all of the Certificates of Acceptance that will be submitte	d. (Retain copies and verify forms are co	ompleted and signed.)
YES	NO	FORM/TITLE		
0	0	NRCA-LTI-02-A - Must be submitted for occupancy sensors and	d automatic time switch controls.	☐ Field Inspector
•	0	NRCA-LTI-03-A - Must be submitted for automatic daylight con	ntrols.	☐ Field Inspector
0	0	NRCA-LTI-04-A - Must be submitted for demand responsive lig	hting controls.	☐ Field Inspector
0	•	NRCA-LTI-05-A - Must be submitted for institutional tuning po	wer adjustment factor (PAF).	1
☐ The a	ctual indo Complet	Schedule and Field Inspection Energy Checklist or lighting power listed on the next 2 pages includes all installed e Building Method is used for compliance, list each different type	e of luminaire on separate lines.	
☐ The a☐ Wher☐ Wher	ctual indo Complet Area Cat	or lighting power listed on the next 2 pages includes all installed	e of luminaire on separate lines. ch different type of luminaire by each d	ifferent function area on separate lines
☐ The a☐ Wher☐ Wher	ctual indo Complet Area Cat	or lighting power listed on the next 2 pages includes all installed e Building Method is used for compliance, list each different type egory Method or Tailored Method is used for compliance, list ea	e of luminaire on separate lines. ch different type of luminaire by each d	ifferent function area on separate line

	E (Revised 04 OF COMPLI	ANCE							CALIFORNIA ENERGY COMMISSI NRC
Indoor Lighting	g								(Pa
Project Name: Be	ssie Owens	Junior High Mode	rnizat	tion			Date Prepare	ed: ₁	1-18-2019
A. General In	formatio								
Climate Zone:	6			Area: 17380 sq. ft.					
		Unconditione		or Area:					
Building Type:		✓] N	Ionresidential		High-Rise Residential			Hotel/Motel
✓ Schools] R	elocatable Public Schools	✓	Conditioned Spaces			Unconditioned Spaces
Phase of Const	truction:] N	lew Construction		Addition	Ū	7	Alteration
Method of Cor	mpliance:] C	Complete Building	√	Area Category			Tailored
Project Addres	s: 815 Pot	omac Ave. Bakers	field,	CA 93307		1			
YES	NO								
90 (MC)40									
•	0			•		quired on plans for all submittals. ance, and PAF Calculation. All Page			lana fan all aubraittala
• •	0					ance, and PAF Calculation. All Page	s required c	л р	
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REVISIONS

FERRANTI ENGINEERING

CONSULTING
ELECTRICAL ENGINEERS
1211 MARICOPA HWY,
SUITE 250
OJAI, CA 93023
(805) 705-4772
DALEFERRANTI@LIVE.COM

DESCRIPTION

DATE DATE
NO. SUBMITTED APPROVED

DIV. OF THE STATE ARCHITECT APP. 03-120102 INC: REVIEWED FOR SS 🗸 FLS 🗸 ACS 🗸

DATE: 03/27/2020

BAKERSFIELD CITY SCHOOL

BESSIE OWENS JUNIOR HIGH

OPSC of OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF

ISSUE DATE: 3/3/2020 SHEET TITLE

> **INDOOR TITLE 24 DOCUMENTS**

CLASSROOMS

CERTIFICATE OF COMPLIANCE									NR	CC-LTI-01-I
Indoor Lighting									(F	age 4 of 6
Project Name: Bessie Owens Junior High Moderniza	tion						Date Prepared:	11-18-2019		
G. Installed Portable Luminaires in Offic	es – Except	tion to	Section 140	.6(a)						
- This section shall be filled out ONLY for por	table lumina	ires in c	offices (As def	fined in §	100.1). All	other planned	portable lumir	naires shall be documented	on next	page of
this compliance document.										
 This section is used to determine if greater 	than 0.3 wa	tts of po	rtable lightin	ig is planr	ed for any	office				
 Fill out a separate line for each different of shall not be traded between offices having 				l (having t	he same ge	neral and port	able lighting) ı	may be grouped together. ¹	This allo	wance
Office Portable Luminaire Schedule		Office	Installed Po	rtable Lur	ninaire W/f	t ²		Office Location	Field	Inspector
01	02	03	04	05	06	07	08	09		10
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Square feet of this office	Watts per square foot (G04 / G05)	If G06 ≤ 0.3, enter zero; If G06 > 0.3, (G06-0.3)	(G05 x G07)	Identify Office area in which these portable luminaires are installed	Pass	Fail
			0				0		0	0
			0				0		0	0
			0				0		0	0
			0				0		0	0
			0				0	F. J. J. J. J. J. C. II.	0	O
Total installed por	table lumina	aire wat	ts that are gr	eater tha	n 0 3 W/ft²	ner office:		Enter sum total of all page 01-E; Page 2	es into N	IRCC-LTI-
Total Histalieu pol	table fullilling	ane wat	is that are give	eater tria	11 0.5 W/IC	per office.		01-c; Page 2	_	
CA Building Energy Efficiency Standards - 2016 Nor	nresidential Co	omplianc	P						_	April 2016

CERTIFICATE	OF COMPLIANCE							NR	CC-LTI-01-
Indoor Lighti	ing							(1	Page 5 of 6
Project Name: _E	Bessie Owens Junior High Modernization						Date Prepared: 11-18-2019		
CONDITION	ighting Schedule Must Be Filled Out for Condition ONED SPACE UNCONDITIONED SPACE	CE		d Spaces.	Installed I	Lighting Pov	ver listed on this Lighting Schedule is	only for:	
H. Indoor L	ighting Schedule and Field Inspection Ene	ergy Checklis							
	Luminaire Schedule			nstalled Wa		T	Location		spector 1
01	02	03		04	05	06	07		08
				ttage was mined		d area			
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	CEC Default from NA8	According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (H03 xH05)	Primary Function area in which these luminaires are installed	Pass	Fail
L1	2X4 LED, ONE DRIVER	53		✓	228	12084	Classrooms	0	0
						0		0	0
						0		0	0
						0		0	0
						0		0	0
						0		0	0
						0		0	0
						0		0	0
						0		0	0
		INS	STALLED W	ATTS PAG	E TOTAL:	12084	Enter sum total of all pages into NRCC-LTI-01-E; Page 2	12	2084

Indoor Lighting Date Prepared: 11-18-2019	Project Name: Bessie Owens Junior High Modernization Date Prepared: 11-18-2019	CERTIFICATE OF COMPLIANCE	NRCC-LTI
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Dale Ferranti Company: Ferranti Engineering Signature Date: 10-17-2019 Addressi 1211 Maricopa Hwy #250 CEA Certification Identification (if applicable): City/State/Zipi Ojai/CA/93023 Phone: (805) 705-4772 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are acconsistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit (s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation builder provides to the building owner at occupancy. Responsible Designer Signature: Dale Ferranti Company: Ferranti Engineering Date Signet: 10-17-2019	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Dale Ferranti Company: Ferranti Engineering Signature Date: 10-17-2019 Addressi 1211 Maricopa Hwy #250 CEA Certification Identification (if applicable): City/State/Zipr Ojai/CA/93023 Phone: (805) 705-4772 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit polication. Responsible Designer Synature: Dale Ferranti Company: Ferranti Engineering Date Signed: 10-17-2019 License: E17524	Indoor Lighting	(Page 6
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Company: Ferranti Engineering Date Signed: 10-17-2019 Address: 1211 Maricopa Hwy #250 License: E17524	Company: Ferranti Engineering Date Signed: 10-17-2019 Address: 1211 Maricopa Hwy #250 License: E17524	Responsible Designer Name:	Responsible Designer Signature
Address: 1211 Maricopa Hwy #250 License: E17524	Address: 1211 Maricopa Hwy #250 License: E17524		
			Date Signed: 10-17-2019
City/State/Zip: Ojai/CA/93023 Phone: (805) 705-4772	City/State/Zip: Ojai/CA/93023 Phone: (805) 705-4772	Address: 1211 Maricopa Hwy #250	License: E17524
			Phone: (805) 705-4772
		City/State/Zip: Ojai/CA/93023	
		City/State/Zip: Ojai/CA/93023	

DIV. OF THE STATE ARCHITEC

APP. 03-120102 INC:

DATE: 03/27/2020

REVIEWED FOR

SS FLS ACS

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CALIFORNIA ENERGY COMMISSION

Date Prepared: 11-18-2019

NRCC-LTI-02-E

(Page 1 of 3)

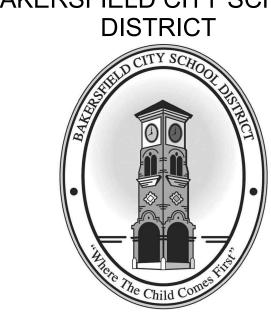
FERRANTI ENGINEERING

CONSULTING ELECTRICAL ENGINEERS 1211 MARICOPA HWY,

ARCHITECTURE PLANNING San Luis Obispo 4119 Broad Street, Suite 210 San Luis Obispo, CA 93401 805.546.0433 fax: 805.546.0504

BAKERSFIELD CITY SCHOOL DISTRICT

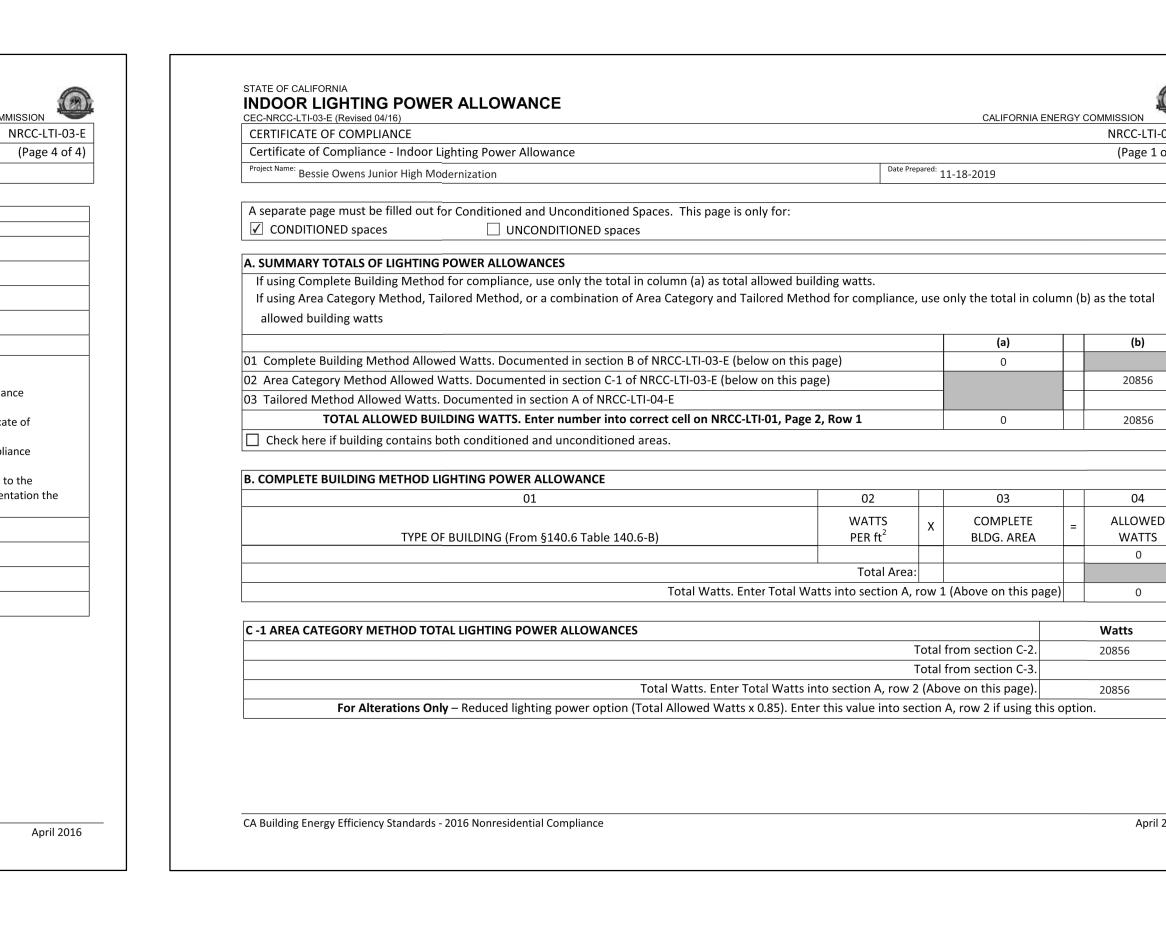
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BESSIE OWENS JUNIOR HIGH MODERNIZATION 815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020
SHEET TITLE	

OUTDOOR TITLE 24 DOCUMENTS CLASSROOMS



INDOOR LIGHTING POWER ALLOWANCE

Certificate of Compliance - Indoor Lighting Power Allowance

1. I certify that this Certificate of Compliance documentation is accurate and complete.

I certify the following under penalty of perjury, under the laws of the State of California:

Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

1. The information provided on this Certificate of Compliance is true and correct.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

RESPONSIBLE PERSON'S DECLARATION STATEMENT

builder provides to the building owner at occupancy.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

Project Name: Bessie Owens Junior High Modernization

CERTIFICATE OF COMPLIANCE

Documentation Author Name: Dale Ferranti

Company: Ferranti Engineering

City/State/Zip: Ojai/CA/93023

Address: 1211 Maricopa Hwy #250

Responsible Designer Name: Dale Ferranti

Company: Ferranti Engineering

City/State/Zip: Ojai/CA/93023

Address: 1211 Maricopa Hwy #250

CALIFORNIA ENERGY COMMISSION

Date Prepared: 11-18-2019

Documentation Author Signature: Dale Ferrant

CEA Certification Identification (if applicable):

Responsible Designer Signature: Dale Ferrant

Date Signed: 10-17-2019

Phone: (805) 705-4772

License: E17524

Signature Date: 10-17-2019

Phone: (805) 705-4772

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the

enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the

documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

NDOOR LIGHTING POWER ALL DEC-NRCC-LTI-03-E (Revised 04/16)				CALIFORNIA	ENERG	Y COMMISSION
CERTIFICATE OF COMPLIANCE	A.II					NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting P		Date	Prenared: .			(Page 2 of 4)
Project Name: Bessie Owens Junior High Modernizati	on	Date	1	1-18-2019		
	litioned and Unconditioned Spaces. This page is only for:					
✓ CONDITIONED spaces	UNCONDITIONED spaces					
C -2 AREA CATEGORY METHOD GENE	RAL LIGHTING POWER ALLOWANCE					
	. Portable lighting for offices shall be documented only in Se	action G of NRCC-I	TI_01_F			
	nction area as defined in §100.1 of the Standards.	ection d of twice i	-11 01 L.			
separately list lightning for each primary rai	01	02		03		04
ARFA CATEGORY	(From §140.6 Table 140.6-C)	WATTS	_		┨┞	ALLOWED
Location in Building	Primary Function Area per Table 140.6-C	PER ft ²	X	AREA (ft ²)	=	WATTS
Classrooms	Classroom, Lecture, Training	1.2	┤	17380	1 -	20856
			_	2,000	1	0
			_		1	0
					1	0
						0
					1	0
						0
						0
						0
						0
						0
						0
						0
						0
						0
					<u> </u>	0
		TOTA		17380	_	
Enter sum t	otal Area Category allowed watts into section C-1 of N	IRCC-LTI-03-E (th	nis com	pliance docume	ent)	20856
						WATTS

CERTIFICATE OF COM	IPLIANCE				CALIFORNIA ENERGY C	NRCC-LTI-03
Certificate of Complia	nce - Indoor Ligh	ting Power Allo	wance			(Page 3 of
Project Name: Bessie Owens	Junior High Moder	nization		Date Prepared: 11-18-20	019	
A congrato nago mus	t ha filled out for	Canditioned an	d Unconditioned Sna	ices. This page is only for:		
CONDITIONED sp			NDITIONED spaces	ices. This page is only for.		
CONDITIONED SP			AND THO SPACES			
C-3 AREA CATEGO	RY METHOD A	DDITIONAL	LIGHTING WATTA	AGE ALLOWANCE (from Table 140.6-C Footnotes)		
01	02	03 2	04	05	06	07
						ALLOWED
		Additional	Wattage			WATTS
Primary	Sq Ft or	Watts	Allowance	Description(s) and Quantity of Special	Total Design	Smaller of
Function	Linear ft ¹	Allowed	(02 x 03)	Luminaire Types in each Primary Function Area	Watts ³	04 or 06
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0 O O O O O O O O O	nter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANG	CES — Section C-1	
1 Use linear feet only	for additional allo	wance for whit		rd. All other additional Area Category allowances shall use w	1 6	
				otes on bottom of Table 140.6-C, which include: Specialized		
			_	or chalk board; Accent, display and feature lighting; and Vide		
				with §130.0(c) of the Standards.	Stadic	
2. 24	wattage		Sa iii accordance v	3=25.0(0) 01 1110 0141114411401		

O	0	Ligiting in a	II Daylit Zones shall be controlled in	acco. aa			ancinc	1113 111 3	ection	130.1(a) and	uayiit zoiles	are sir	OWII OII tii	e piaris.		
0	•		ver in buildings larger than 10,000 so with Section 130.1(e).	quare feet	shall be	capab	le of be	eing aut	omatic	ally re	duced i	n response t	o a De	emand Res	ponsive	Signal	in
•	0	normal use, accordance	ccupancy permit is granted for a new indoor lighting controls serving the with Section 130.4.(a). The controls d demand responsive controls.	building, a	rea, or	site sha	all be ce	ertified	as mee	ting th	ne Acce	ptance Requ	ireme	nts for Co	de Comp	liance	in
\ Buildir	ng Energy	Efficiency Stand	dards - 2016 Nonresidential Compliance													Janu	ary 2
DOO C-NRCC-	-LTI-02-E (F	HTING - L Revised 01/16)	IGHTING CONTROLS									C/	ALIFORI	NIA ENERGY			02
		COMPLIANCE Lighting Cont	rols													CC-LTI- age 2	
			th Modernization								Date Prepar	ed: 11-18-201	Δ		(1	age 2	01 3
			st he tilled out for (onditioned	n and i in	condit	ionec	Snac	es Thi	s nag	ار ا و ا م	sed or	ly for the	follov	wing:			
Z co	NDITIO	NED SPACE	riptive Indoor Lighting Contro	SPACES		. F Cal d	culation ndards that ap	Comply	d Field	d Insp		PAF Cred	: it Calcı	ulation ²	✓ if Acceptanc Test Require	;	Field Inspecto
Z co	NDITIO andator	NED SPACE	S UNCONDITIONED criptive Indoor Lighting Contro	SPACES ol Sched	ule, PA	F Cald Star (✓ all	culation ndards that ap	Comply or Exempte	d Field ing Wit leave e	d Insp	pection	PAF Cred Controlled Lighting	t Calco	Control credit (11 x 12)	if Acceptance Test Required	7	eld inspector
Z co	NDITIO	NED SPACE	UNCONDITIONED criptive Indoor Lighting Control ng Control Schedule 02	SPACES		. F Cal d	culation ndards that ap	Comply	d Field	d Insp		PAF Cred	: it Calcı	ulation ²	✓ if Acceptance Test Required	7	<u> </u>
B. Ma	NDITIO andator	NED SPACE: y and Preso Lightin	S UNCONDITIONED criptive Indoor Lighting Contro	SPACES ol Sched	ule, PA	F Cald Star (✓ all	culation ndards that ap	Comply or Exempte	d Field ing Wit leave e	d Insp	pection	PAF Cred Controlled Lighting	t Calco	Control credit (11 x 12)	if Acceptance Test Required	7	eld inspector L5
B. Ma	nDITIO andator	y and Preso	In the control of Lighting Control Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight,	ol Schedo 03 # of	ule, PA	Star (✓ all	ndards that ap if E	Comply oply, or exempte	d Fielding Wifeleave eed)	d Insp	pection 10	PAF Cred Controlled Lighting	t Calco	Control credit (11 x 12)	if Acceptance Test Required	Pass	eld Inspector 5
B. Ma	O1 Classroo	y and Preso	Ing Control Schedule O2 Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc)	O3 # of Units	ule, PA 04 §130.1(a)	Star (✓ all 05 §130.0(b)	ndards that ap if E	Comply oply, or exempte	d Fielding Wifeleave eed)	d Insp	pection 10	PAF Cred Controlled Lighting	t Calco	Control Credit 13	if Acceptance 14 Test Required	Pass	eld Inspector 5
B. Ma	ondator O1 Classroot Classroot Classroot Classroot	y and Preso	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc) Dimmer Switch/scene control Ceiling Occupancy Sensor	O3 # of Units 38 19 19	ule, PA 04 §130.1(a)	Star (✓ all 05 §130.0(b)	ndards that ap if E	Comply pply, or exempte \$130.1(d)	d Fielding Wifeleave eed)	d Insp	pection 10	PAF Cred Controlled Lighting	t Calco	Control Credit 13 0 0 0	if Acceptance Test Required 4	Pass	eld Inspector
B. Ma	O1 Classroo	y and Preso	Ing Control Schedule O2 Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc) Dimmer Switch/scene control	O3 # of Units 38 19	ule, PA 04 §130.1(a)	Star (✓ all 05 §130.0(b)	ndards that ap if E §130.1(c)	Comply oply, or exempte	d Fielding Wifeleave eed)	d Insp	pection 10	PAF Cred Controlled Lighting	t Calco	Control Credit 13 0 0 0	if Acceptance 14 Test Required	Pass	eld inspector 5

IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) =

2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is

Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.

also required to be filled out, signed, and submitted.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

Control Credit PAGE TOTAL (Sum of Column 13):

into NRCC-LTI-01-E; Page

January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS

Efficiency Regulations in accordance with Section 110.9.

shall be submitted in accordance with Section 130.4(b).

instructions in accordance with Section 130.1.

Installation Certificate shall be installed in accordance with Section 130.4(b).

multi-level lighting control requirements in accordance with Section 130.1(b).

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

§130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).

All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).

ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.

All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).

and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display,

Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance

Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate

A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an

One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and

All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's

General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental,

The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the

CEC-NRCC-LTI-02-E (Revised 01/16)

NRCC-LTI-03-E

(Page 1 of 4)

20856

ALLOWED

WATTS

Watts

20856

April 2016

CERTIFICATE OF COMPLIANCE

Indoor Lighting - Lighting Controls

Project Name: Bessie Owens Junior High Modernization

YES NO Control Requirements

CERTIFICATE OF COMPLIANCE	N
ndoor Lighting - Lighting Controls	
roject Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
L. I certify that this Certificate of Compliance documentation is acc	urate and complete.
Dale Ferranti	Documentation Author Signature: Dale Ferranti
^{Company:} Ferranti Engineering	Signature Date: 10-17-2019
Address: 1211 Maricopa Hwy #250	CEA Certification Identification (if applicable):
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772
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