CRM GROUP
Construction Resource Management

Alterations to Gymnasium and Classroom Buildings at Burnt Ranch Elementary School Mold and Rehabilitation Project- Electric MSB- Bid Package 2018.4.5 Scope Clarification 2

General Notes:

1. The following scope is offered as assistance to complete a thorough scope letter. Bids and budget breakout shall include a scope letter prepared by the contractor.
2. This work shall be completed per plans and specifications.
3. Pre-bid RFI's should be submitted if the plans are not thorough, lack dimensions, or if you have questions pertaining to this bid.
4. Review all pages of the plans.
5. Budget breakout (itemized bid sheet) is required for all scopes.
6. Bidders shall submit a schedule (number of days) required to complete the work contained in this scope to assist with overall planning and scheduling.
7. Contractors shall notify CRM Group of any long lead items or material supply issues that could affect schedule.
8. Contractor shall refer to the E sheets shown in the plans posted on the Drop Box Link and Submittal Exchange for direction unless other noted in this clarification.
9. Note As-Builts on pages 11,12 and 13 on attached pdf. Existing septic lines shown on As-Builts have been abandoned.
10. Power to Modular buildings and Gym/Cafeteria must remain on at all times during school hours. Contractor shall coordinate with project manager and district to provide times when power will need to be off for disconnect/reconnect. All disconnect/reconnects will need to happen on a weekend or when school is not in session. Contractor is responsible to ensure power will be on during school hours.

Overall Scope:

1. MSB
   a. Contractor shall provide new MSB. MSB provided shall be per electrical specs and PG&E standards. MSB pad and installation will be bid on a later date.
2. Pull boxes
   a. A total of 7 Concrete Pull-Boxes With lids shall be installed.
   b. Suggested sizes/types of boxes are as follows: (code shall govern)
      i. Pull-Box 1 30x48 Split Pull-Box w/ traffic rated lid
      ii. Pull-Box 2 24x36 Pull-Box w/ traffic rated lid

iii. Pull-Box 3 30x48 Split Pull-Box
iv. Pull-Box 4 24x36 Pull-Box
v. Pull-Box 5 24x36 Split Pull-Box
vi. Pull-Box 6 17x30 Pull-Box
vii. Pull-Box 7 17x30 Pull-Box

3. Relocate (E) Modular Disconnect (see pages 1,4 and 7 on attached pdf.)
   a. Contractor shall disconnect and relocate modular disconnect to location provided on site map.
   b. Contractor shall mount disconnect to the wall on the South West corner of Modular Building E using the existing brackets.

4. Modular Power (see pages 1,5,6 and 7 on attached pdf.)
   a. (E) Temp power to Modular buildings shall be abandoned. Contractor shall cut all (E) power conduit off at ground level and dispose of any conduit above ground. (E) Disconnect for Modular building shall be relocated.
   b. Contractor shall reroute and connect temp power to modular buildings.
      i. Contractor shall trench and place -(N)3"C-3#4/0,1#4G from (E) MSB to Pull-Box 2.
      ii. Contractor shall trench and place -(N)3"C-3#4/0,1#4G from Pull-Box 2 to Pull-Box 4.
      iii. Contractor shall trench and place -(N) 3"C-3#4/0,1#4G from Pull-Box 4 to relocated Disconnect
      iv. Contractor shall locate (E) conduit powering (E) Modular Panel. Contractor shall run (E) power conductors back to disconnect through (N) conduit shown.
5. Gym Power (see pages 1,5,6,7,8,9 and 10 on attached pdf.)
   a. Contractor shall place (N)3"C-4#4/0,1#4G from (E)MSB to Pull-Box 2.
   b. Contractor shall place (N)3"C-4#4/0,1#4G from Pull-Box 2 to Pull-Box 4.
   c. Contractor shall then trench and place (N)3"C-4#4/0,1#4G from Pull-Box 4 to Pull-Box 6.
   d. Contractor shall trench and place (N)3"C-4#4/0,1#4G From Pull-Box 6 to Pull Box 7.
   e. Contractor shall place a sweep connected to (E)power to Gym into Pull-Box 7 and splice with the 4#4/0,1#4G conductor from Pull-Box 6.

6. Data (see pages 1,5,6,7,8,9 and 10 on attached pdf.)
   a. Contractor shall trench and place (3) 2" conduits from Pull-Box 1 to Pull-Box 3.
   b. Contractor shall trench and place (2) 2" conduit from Pull-Box 3 to Pull-Box 5.

7. Fire Alarm (see pages 1,5,6,7,8,9 and 10 on attached pdf.)
a. Contractor shall trench and place (1) 2" conduit from Pull-Box 1 to Pull-Box 3.
b. Contractor shall trench and place (1) 2" conduit from Pull-Box 3 to Pull-Box 5.

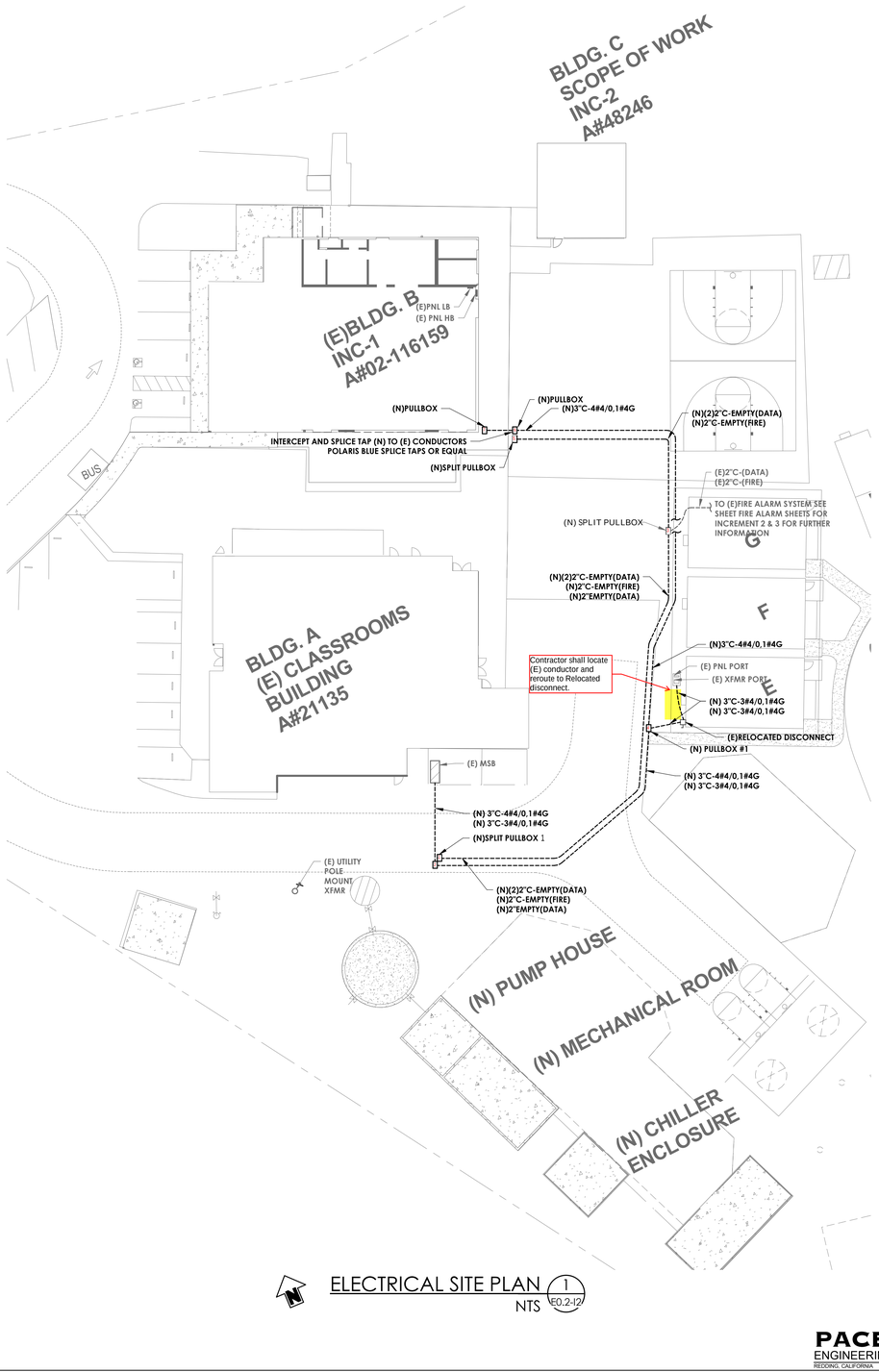
8. Lead Times
   a. Contractor shall provide a basic timeline and schedule for any items with a lead-time of 3

weeks or greater from the date of the Notice to Proceed

Additional Notes:

1. District labor crew will sawcut and remove all asphalt/concrete to designated area onsite (TBD), prior to start date.
2. Contractor shall dig all ditches 2' wide and 4' deep. Contractor is required to excavate and remove necessary material to designated area onsite (TBD).
3. Contractor shall refer to page E4.1-I2 when placing conduit and Pull boxes.
4. Contractor is to compact #2 base at 95% compaction on the top 12" of all trenches. All soil between sand and base can be compacted native soil.
5. All Power conduits shall be 12" minimum away from all Data/Fire conduits.
6. Pull strings are required to be placed in all empty conduits throughout project.

This document shall be used only as a clarification of the intent of the DSA Approved Plans and Project Manual. While this document is not meant to add to the design of the project, it is formal and the contractor shall be responsible for its content.



ELECTRICAL SITE PLAN 1 E0.2-I2
NTS

1

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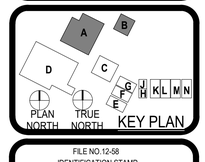
BURNT RANCH ELEMENTARY SCHOOL
ALTERATIONS & ADDITION TO MULTI-PURPOSE
BUILDING/ CLASSROOM - INCREMENT 2

251 BURNT RANCH SCHOOL RD.,
BURNT RANCH, CA 95527

CONSTRUCTION DOCUMENTS



KEY PLAN

FILE NO.12-58
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 02-116159
ACS _____ FLS _____ SS _____
DATE _____08/23/2017_____
SEAL AND REGISTRATION NUMBER HERE

CLIENT
BURNT RANCH JOINT SCHOOL DISTRICT
PROJECT NUMBER
17142
DATE: MARCH 19, 2018
DRAWN BY: BE/KC
CHECKED BY: TB
REVISIONS

No.	Description	Date

CONSTRUCTION DOCUMENTS

BID PACKAGE
CLARIFICATION

E0.2-I2

M:\Land Projects\2550.04 Burnt Ranch Elementary School District\RVT CENTRAL FILE\INCREMENT #2\E0.2-I2 BID CLARIFICATION.rvt
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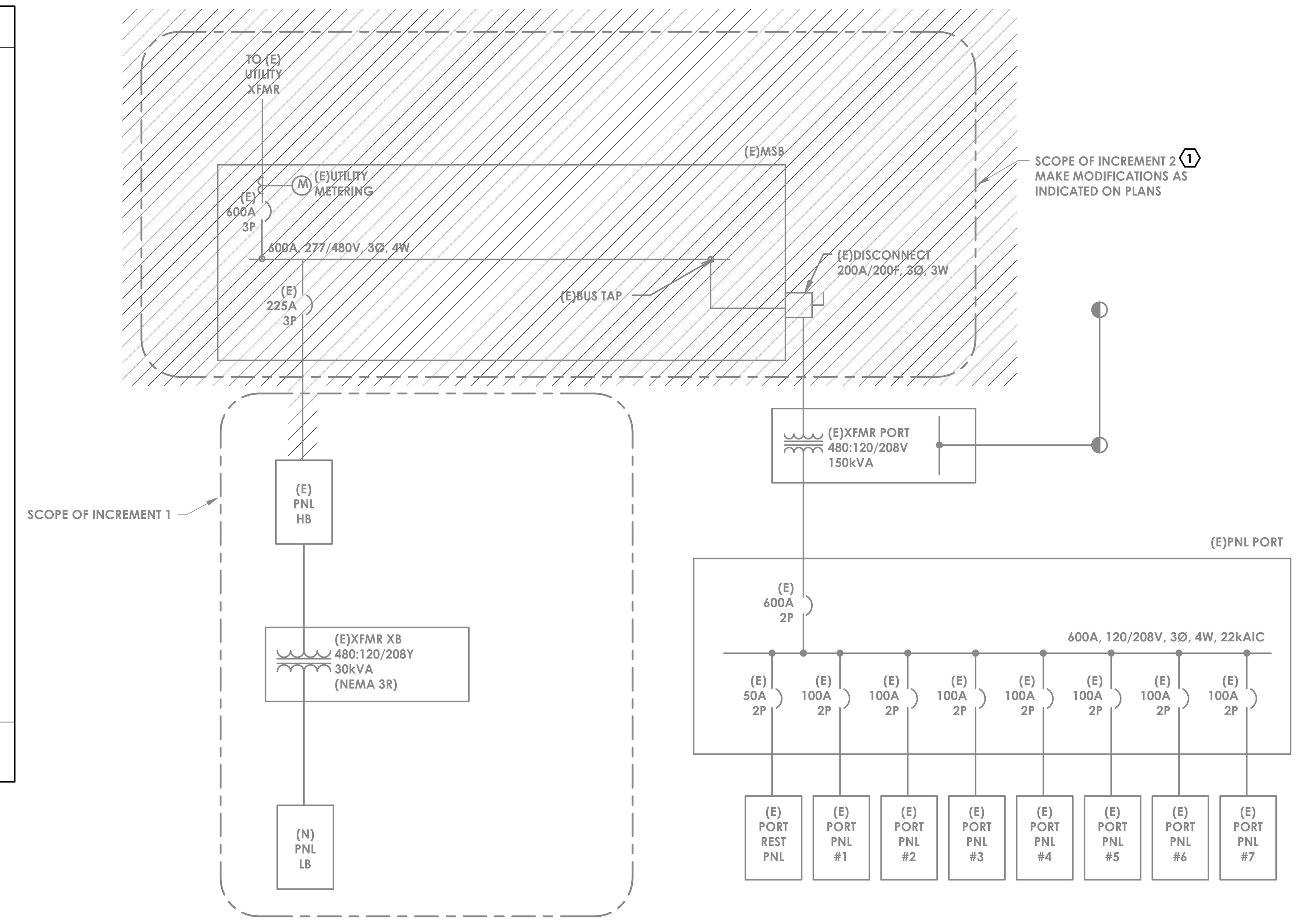
ELECTRICAL SYMBOLS

Symbol	Description		
(solid line)	CONDUIT EXPOSED		
(dashed line)	CONDUIT CONCEALED or BURIED		
(crosshatch)	CROSSHATCHES ON CONDUIT RUN INDICATES NUMBER OF #14 CONDUCTORS FOR LOW VOLTAGE CONNECTIONS (TYP., USED IN LTG CONTROLS.)		
(crosshatch w/bars)	CROSS HATCHES W/BARS INDICATES NUMBER OF #10 CONDUCTORS		
	1/2"C-2#12,1#12G		
L	1/2"C-2#12,1#12G; 2#18 SOLID PLENUM (VIOLET/GREY); USE OF MC-PCS-DUO ALLOWED		
5E	1/2"C-2#12,1#12G; CAT5E		
5E	CAT5E		
LA-2	HOME RUN-DESTINATION SHOWN		
	CONDUIT DOWN		
	CONDUIT UP		
	CONNECTION POINT		
	TELE/DATA CONNECTION POINT; 18" TO COD AFF UNLESS OTHERWISE NOTED		
S	WALL SWITCH, 46" TO COD AFF UNLESS OTHERWISE NOTED		
J	JUNCTION BOX		
	20A SPECIFICATION GRADE TAMPER RESISTANT DUPLEX RECEPTACLE 18" COD UNLESS OTHERWISE NOTED	CART	ORANGE DEDICATED DUPLEX RECEPTACLE.
		GFCI	GROUND FAULT CIRCUIT INTERRUPT DUPLEX RECEPTACLE; CIRCUITS DOWNSTREAM FROM ANY GFCI SHALL NOT BE PROTECTED UNLESS OTHERWISE NOTED ON PLANS
	20A SPECIFCATION GRADE TAMPER RESISTANT QUADRUPLEX RECEPTACLE 18" TO COD AFF UNLESS OTHERWISE NOTED	SPD	SURGE PROTECTIVE DUPLEX RECEPTACLE; CIRCUITS DOWNSTREAM FROM ANY AFCI SHALL NOT BE PROTECTED UNLESS OTHERWISE NOTED ON PLANS. COLOR SHALL BE BLUE
		WP GFCI	WEATHER RESISTANT GROUND FAULT CIRCUIT INTERRUPT DUPLEX RECEPTACLE W/ GALVANIZED WEATHER PROOF, WHILE IN USE, LOCKABLE COVER
FB	FLOOR BOX		
	208/240V RECEPTACLE 18" COD UNLESS OTHERWISE NOTED ON PLANS	14-30R	NEMA 14-30R RECEPTACLE
		14-50R	NEMA 14-50R RECEPTACLE
F XXA/XXF XX	FUSED DISCONNECT	60A/20F WP	60A DISCONNECT/20A FUSE NEMA-3R
XX XX	NON-FUSED DISCONNECT	60A WP	60A DISCONNECT NEMA-3R
	PROJECT LUMINAIRES: TROFFER/SURFACE DOWNLIGHT WALL MOUNTED POLE MOUNTED		SEE LIGHTING PLAN FOR SYMBOL TYPE MARKS ASSOCIATED WITH EACH LUMINAIRE SYMBOL. TYPE MARKS ASSOCIATED WITH LUMINAIRE SYMBOLS ON PLANS ARE LINKED TO THE LUMINAIRE SCHEDULE. SEE LUMINAIRE SCHEDULE FOR LUMINAIRE DESCRIPTION INFORMATION.
	EXIT SIGN: SEE LUMINAIRE SCHEDULE FOR DESCRIPTION AND INFORMATION		
L	(HVAC CONVENIENCE) PORCELAIN LAMP HOLDER WITH PULL CHAIN AND INTEGRAL RECEPTACLE. CONTRACTOR SHALL PROVIDE AND INSTALL (1)60W, 120VAC LAMP COMPATIBLE WITH LAMP SOCKET.		
MCC	MAJOR ELECTRICAL COMPONENT OR DEVICE NAME OR IDENTIFYING SYMBOL AS SHOWN		
	RECESS MOUNT PANELBOARD		
	SURFACE MOUNT PANELBOARD		
	CADWELDED GROUND CONDUCTOR CONNECTION		
	GROUND ROD		
	GROUND		
400	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3-POLE UNLESS INDICATED OTHERWISE		
120/240V 15KVA,1PH	TRANSFORMER, SECONDARY VOLTAGES, PHASE AND RATING INDICATED AS APPLICABLE		
(3)	CURRENT TRANSFORMER, NUMBER INDICATED		
1	KEYNOTE		

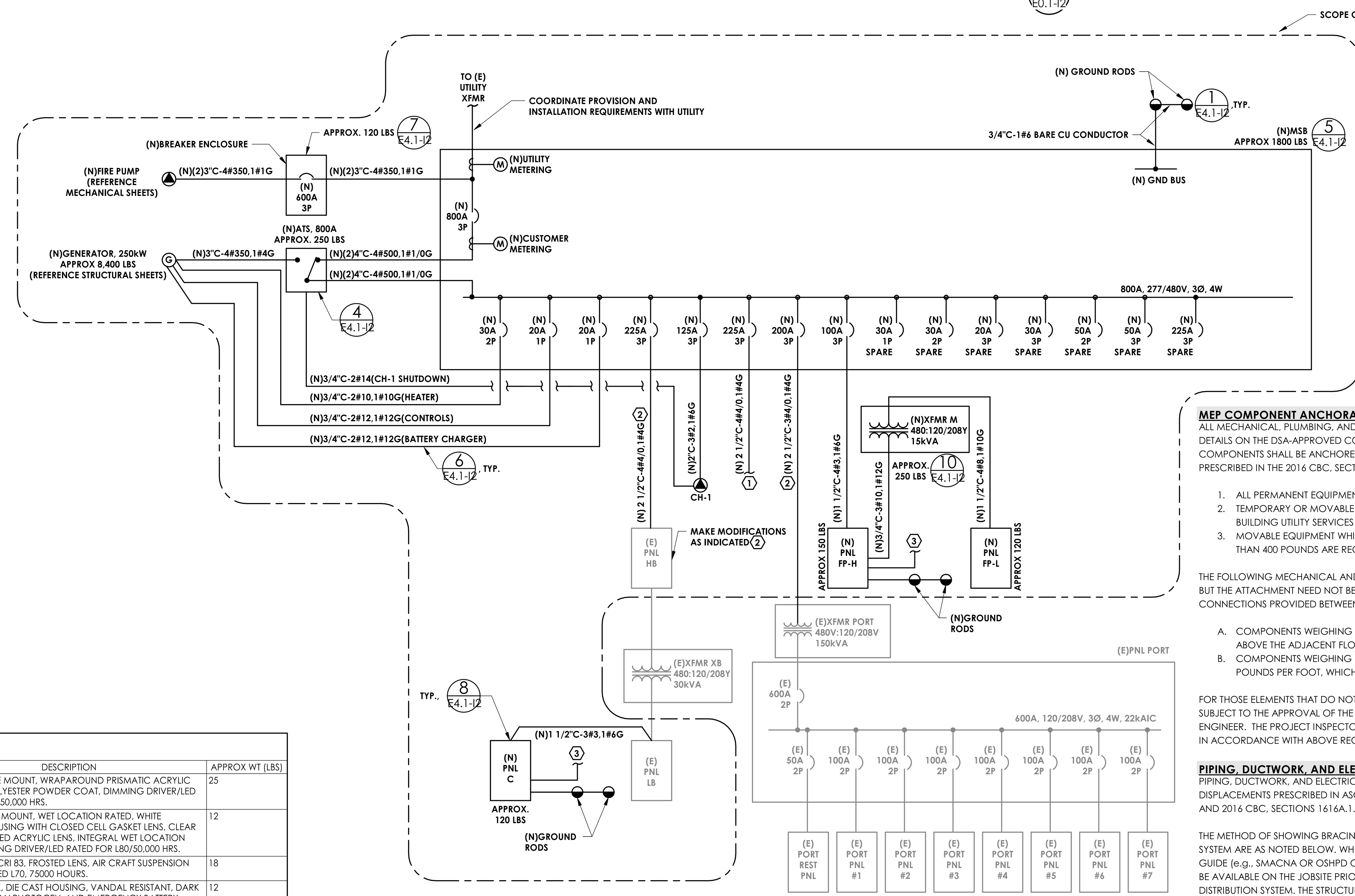
ELECTRICAL ABBREVIATIONS

A	- AMPERE
AC	- ALTERNATING CURRENT
ACH	- ABOVE COUNTER HEIGHT
AFCI	- ARC FAULT CIRCUIT INTERRUPT
AFF	- ABOVE FINISHED FLOOR
AIC	- AMPS INTERRUPTING CAPACITY
ATS	- AUTOMATIC TRANSFER SWITCH
BRKR	- BREAKER
C or COND	- CONDUIT
CKT	- CIRCUIT
COD	- CENTER OF DEVICE
CR	- CONTROLLED RECEPTACLE
CT	- CURRENT TRANSFORMER
DC	- DIRECT CURRENT
(E) or EXIST	- EXISTING
G	- GROUND
GFCI	- GROUND FAULT CIRCUIT INTERRUPT
J	- JUNCTION BOX
LCP	- LIGHTING CONTROL PANEL
LTG	- LIGHTING
MFR	- MANUFACTURER
MSB	- MAIN SWITCHBOARD
MTS	- MANUAL TRANSFER SWITCH
NEC	- NATIONAL ELECTRICAL CODE
NEMA	- NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION
N	- NEUTRAL
OFCI	- OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	- OWNER FURNISHED, OWNER INSTALLED
PB	- PULLBOX
PC	- PHOTOCELL
PNL	- PANELBOARD
PLR	- PLUG LOAD RELAY
RECEPT	- RECEPTACLE
RM	- ROOM
SWBD	- SWITCHBOARD
T	- THERMOSTAT OR TELE CONDUIT
TOD	- TOP OF DEVICE
TYP	- TYPICAL
V	- VOLTMETER, VOLT
W	- WATT
WP	- WEATHERPROOF (NEMA 3R)
XFMR	- TRANSFORMER

NOTE: THIS IS A SUPPLEMENTAL STANDARD LEGEND. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS LEGEND AND NOT ON THE PLANS



EXISTING ONE-LINE DIAGRAM 1 E0.1-I2



NEW ONE-LINE DIAGRAM 2 E0.1-I2

KEYNOTES

#	NOTE
1.	DISCONNECT AND REMOVE (E)MSB AND ALL RELATED CONDUIT/CONDUCTORS. ABANDON UNDERGROUND CONDUIT. SEE SEQUENCE OF OPERATIONS.
2.	(E)EQUIPMENT SHALL BE REFED WITH (N)CONDUCTORS AS SHOWN.
3.	GROUND SHALL BE BONDED TO GAS, WATER PIPING, AND STRUCTURAL STEEL PER CEC 250.104.

GENERAL NOTES

#	NOTE

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SELECT, PROVIDE AND INSTALL ACCESSORIES NECESSARY TO RENDER A COMPLETE, PROFESSIONAL AND CODE COMPLIANT INSTALLATION OF ALL LUMINARIES ASSOCIATED WITH THE PROJECT. THIS INCLUDES DRYWALL CEILING INSTALLATION KITS, TENMATS FOR RATED APPLICATIONS, WHIPS, CABLING OR ANY OTHER ITEMS REQUIRED FOR EACH LUMINAIRE'S SPECIFIC INSTALLATION LOCATION. SEE ARCHITECTURAL SHEETS FOR FURTHER INSTALLATION REQUIREMENTS.
2. HEIGHT OF DEVICES SHALL BE MEASURED TO CENTER OF DEVICE FROM FINISHED FLOOR UNLESS OTHERWISE NOTED ON PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY FINAL LOCATIONS OF ALL DEVICES WITH ARCHITECTURAL ELEVATION PLANS.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING FOR ALL TRADES FOR THE DURATION OF THIS PROJECT. PROVIDE AND INSTALL TEMPORARY PANELBOARDS, SPYDER BOXES, FESTOON LIGHTING OR OTHER ELECTRICAL ITEMS AS NEEDED. COORDINATE WITH THE GENERAL CONTRACTOR.
4. IDENTIFICATION OF ELECTRICAL EQUIPMENT SHALL FOLLOW THE CONVENTION BELOW. REFER TO ELECTRICAL SPECIFICATIONS FOR FURTHER INFORMATION:

XFMR B	PANEL A	DISCONNECT RTU
FED FROM MSB	FED FROM MSB	FED FROM PNL A
480V 3Ø:120/240V WYE	225A, 208V, 3Ø	60A.20F, 208V, 3Ø

SEQUENCE OF OPERATIONS

#	NOTE

1. COORDINATE WITH UTILITY FOR PLACEMENT OF (N)MSB AND INSTALL A (N)UTILITY RISER. PROVIDE AND INSTALL THE RISER PER THE UTILITY.
2. INSTALL THE (N)GENERATOR AND (N)ATS. TERMINATE EQUIPMENT AS SHOWN ON THE ONE-LINE DIAGRAM.
3. ROUTE CONDUIT AND CONDUCTORS AS SHOWN ON THE ELECTRICAL SITE PLAN. PREPARE TO REFEED THE (E)GYMNASIUM PANEL HB AND THE (E)PORTABLE BUILDING TRANSFORMER WITH THE (N)SERVICE ORIGINATING AT THE (N)MSB. SET AND TERMINATE THE (N)MINI POWER CENTER AT CLASSROOM C.
4. COORDINATE TIME AND DURATION OF THE UTILITY SHUTDOWN WITH THE DISTRICT. WHEN SERVICE IS SHUT DOWN, REFEED THE (E)GYMNASIUM PANEL AND THE (E)PORTABLE BUILDINGS WITH THE (N)SERVICE CONDUCTORS ORIGINATING AT THE (N)MSB. COORDINATE THE DISCONNECTION OF THE (E)MSB AND TERMINATION OF THE (N)UTILITY SERVICE AT THE (N)MSB.
5. ENSURE ALL THE (E)GYMNASIUM, (E)CLASSROOM C AND THE (E)PORTABLE BUILDINGS ARE FUNCTIONAL AS EXISTING.
6. DISCONNECT AND REMOVE THE (E)MSB AND UTILITY CONDUIT FROM THE (E)CLASSROOM BUILDING A. DISCONNECT AND REMOVE ANY CONDUITS AND CONDUCTORS THAT WILL NO LONGER BE UTILIZED.

LIGHTING DEVICE SCHEDULE

DEVICE TYPE	TAG	MANUFACTURER	DESCRIPTION
OCCUPANCY	nCM	nLIGHT	SURFACE CEILING MOUNT 360 VACANCY PDT, LOW CEILING/SMALL MOTION
RELAY	nR0-10	nLIGHT	LIGHTING RELAY, PHASE DIMMING, 16A/1HP@ 120/277V
SENSORS	nCDT	nLIGHT	SURFACE CEILING MOUNT 360 VACANCY PDT, LOW CEILING/SMALL MOTION
SWITCHES	nSD	nLIGHT	ON/OFF, DIMMING, 1 CHANNEL
SWITCHES	nSD2	nLIGHT	ON/OFF, DIMMING, 2 CHANNEL
SWITCHES	nWSX	nLIGHT	ON/OFF, VACANCY PDT, DIMMING
SWITCHES	sPODMRD	nLIGHT	WALLPOD ON/OFF, PIR MOTION, WHITE
SWITCHES	sSV	SENSORSWITCH	PIR MOTION, ON/OFF, 1-POLE, 120V
TIME CLOCK	ET8215C	OTHER	ASTRONOMIC TIME CLOCK

LUMINAIRE SCHEDULE

#	MANUFACTURER	MODEL	LOAD	VOLTAGE	LAMP	DIM TYPE	LUMENS	COLOR TEMP	DESCRIPTION	APPROX WT (LBS)
1	LITHONIA LIGHTING	LBL4	41 VA	120V	LED	nLIGHT ENABLED	4000 lm	4000 K	4' LED, SURFACE MOUNT, WRAPAROUND PRISMATIC ACRYLIC LENS, WHITE POLYESTER POWDER COAT, DIMMING DRIVER/LED RATED FOR L80/50,000 HRS.	25
2	LITHONIA LIGHTING	FEM4 LED	31 VA	120V	LED	0-10V DIMMING	5000 lm	5000 K	4' LED SURFACE MOUNT, WET LOCATION RATED, WHITE FIBERGLASS HOUSING WITH CLOSED CELL GASKET LENS, CLEAR IMPACT MODIFIED ACRYLIC LENS, INTEGRAL WET LOCATION SENSOR, DIMMING DRIVER/LED RATED FOR L80/50,000 HRS.	12
3	ALEO LED LIGHTING	SLB2 (NO EQUAL ALLOWED)	95 VA	120V	LED	0-10V DIMMING	11790 lm	5000 K	1X2 HIGH BAY, CRI 83, FROSTED LENS, AIR CRAFT SUSPENSION KIT, DRIVER RATED L70, 75000 HOURS.	18
4	MULE LIGHTING	MERU-LED	18 VA	277	LED	N/A	1600 lm	5000 K	LED WALL PACK, DIE CAST HOUSING, VANDAL RESISTANT, DARK BRONZE, INTEGRALPHOTOCELL AND EMERGENCY BATTERY BACKUP.	12
6	LITHONIA LIGHTING	2AVL4	38 VA	120V	LED	nLIGHT ENABLED	3000 lm	4000 K	2'x4' LED, RECESS MOUNT, DIRECT/INDIRECT DISTRIBUTION, WHITE POLYESTER POWDER COAT, DIMMING DRIVER/LED RATED FOR L90/60,000 HRS.	35
7	LITHONIA LIGHTING	ZL1D	48 VA	MVOLT	LED	0-10 DIMMING	6000lm	5000K	8'-0" LED STRIP LIGHT, WALL MOUNTED 8" BELOW CEILING, SYMMETRIC DIFFUSER WITH DROP LENS.	24
8	RAB	ALED3T150N/D10/WS4	76 VA	277	LED	0-10V MOTION SENSOR	12000 lm	4000 K	LED EXTERIOR WALL MOUNT, DIE-CAST ALUMINUM HOUSING, DARK BRONZE CORROSION RESISTANT FINISH, INTEGRAL MOTION/DIMMING SENSOR, UL LISTED WET LOCATIONS, 100,000 HRS, 4000K, TYPE 4 DISTRIBUTION, 120VAC. PROVIDE AND INSTALL SURFACE WALL MOUNT KIT.	50

MEP COMPONENT 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 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

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

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

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL 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 REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25, AND 1616A.1.26.

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 PREAPPROVED 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 SYSTEM. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

MP ___ MD ___ PP ___ E X - OPTION 1: DETAILED ON THE APPROVED DRAWINGS PROJECT SPECIFIC NOTES AND DETAILS.
MP ___ MD ___ PP ___ E ___ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (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 RESTRAINT MANUAL, OSPHD 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.

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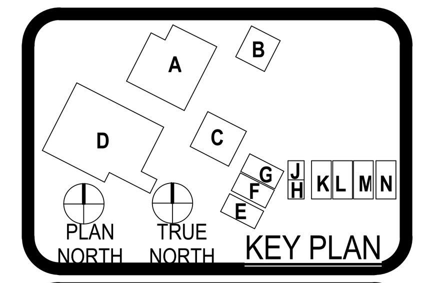
BURNT RANCH ELEMENTARY SCHOOL ALTERATION & ADDITION TO GYMNASIUM BUILDING - INCREMENT 2

251 BURNT RANCH SCHOOL RD., BURNT RANCH, CA 95527

DSA SUBMITTAL



KEY PLAN

FILE NO.12-58
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 02-116159
ACS _____ FLS _____ SS _____
DATE _____ __________
SEAL AND REGISTRATION NUMBER HERE

CLIENT
BURNT RANCH JOINT SCHOOL DISTRICT

PROJECT NUMBER
17142

DATE:	DECEMBER 19, 2017
DRAWN BY:	BE/KC
CHECKED BY:	TB

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL SCHEDULES

E0.1-I2

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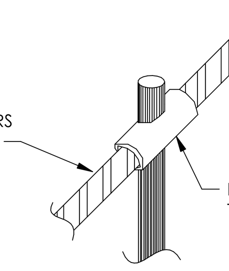
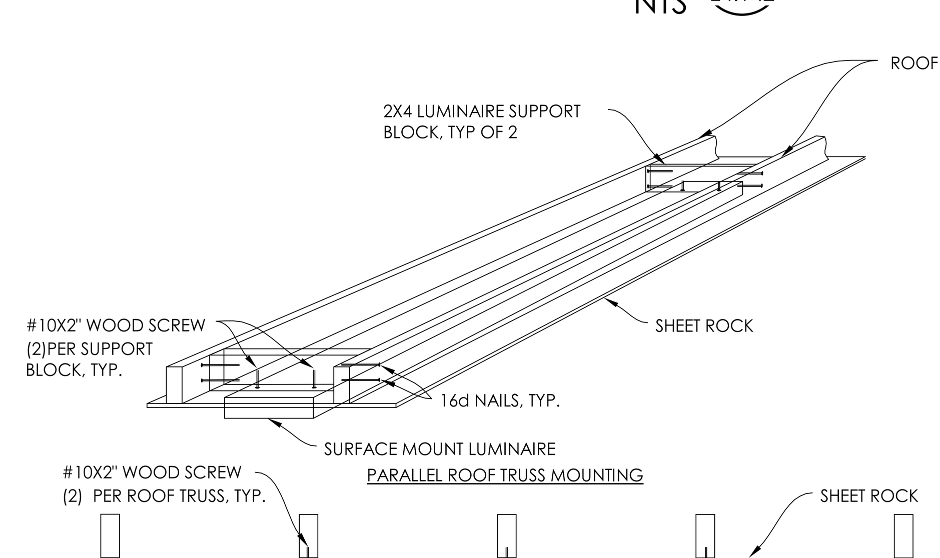
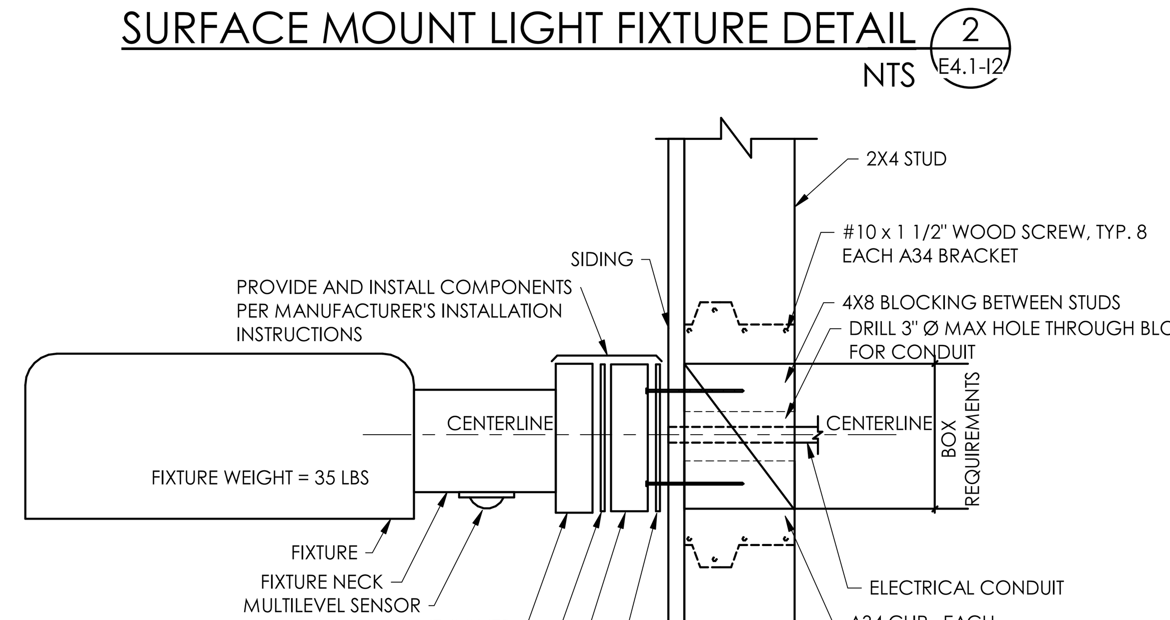
12/17/2017 1:14:57 PM



CABLE TO GROUND ROD (1 / E4.1-I2)
NTS

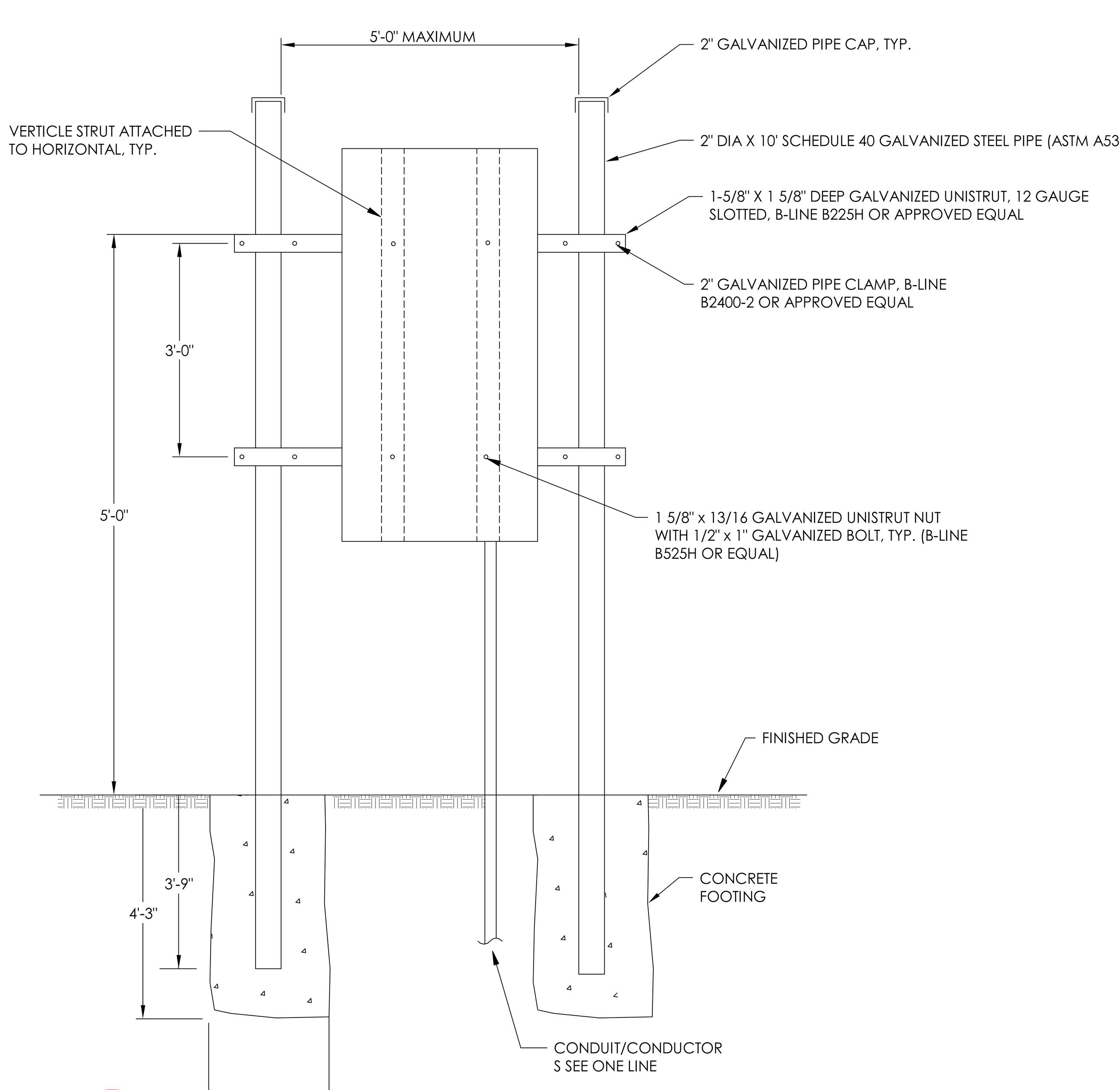


SURFACE MOUNT LIGHT FIXTURE DETAIL (2 / E4.1-I2)
NTS



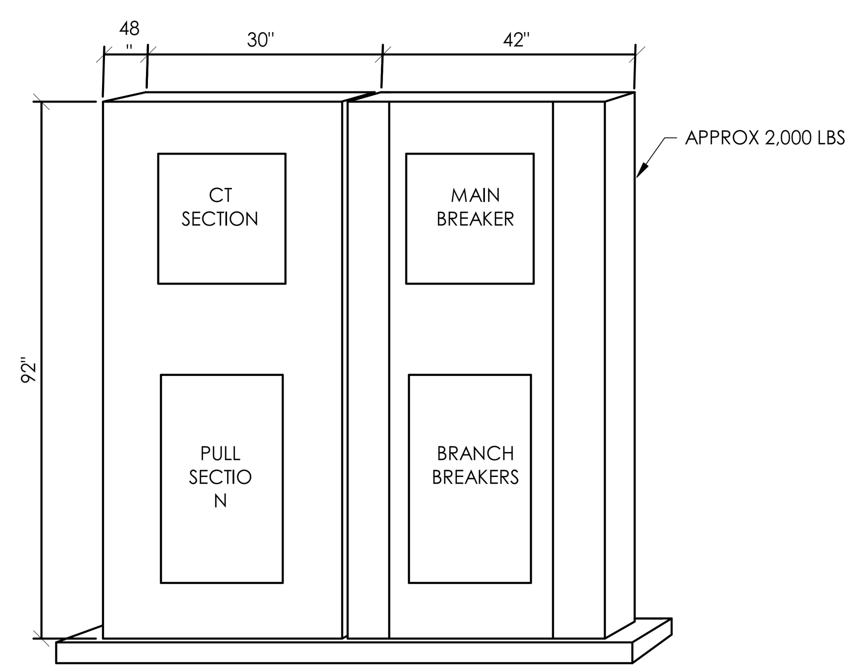
SIDE VIEW

RAB EXTERIOR WALL MOUNT LUMINAIRE DETAIL (3 / E4.1-I2)
NTS

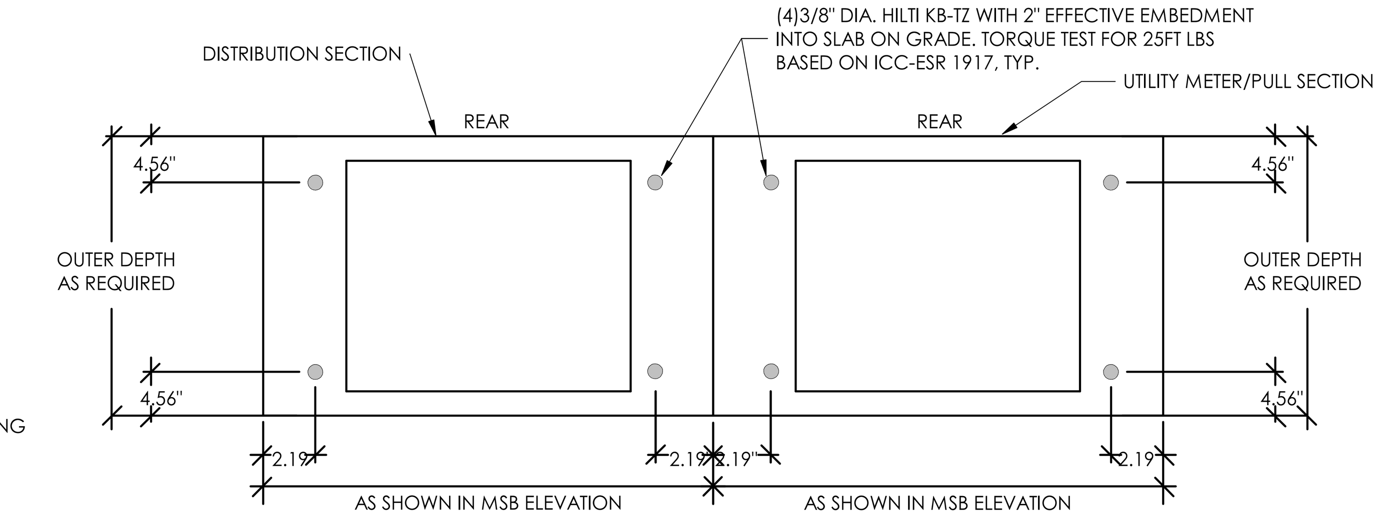


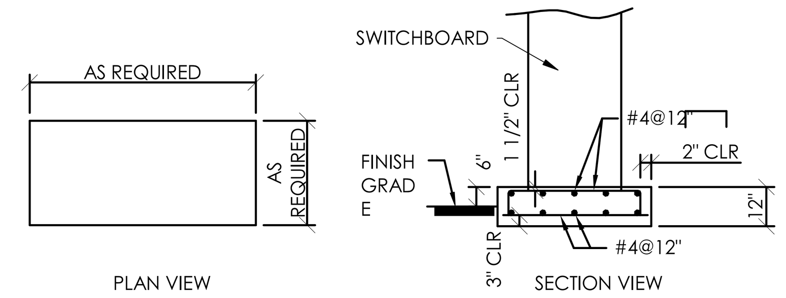
3

OUTDOOR EQUIPMENT MOUNTING ASSEMBLY (4 / E4.1-I2)
NTS



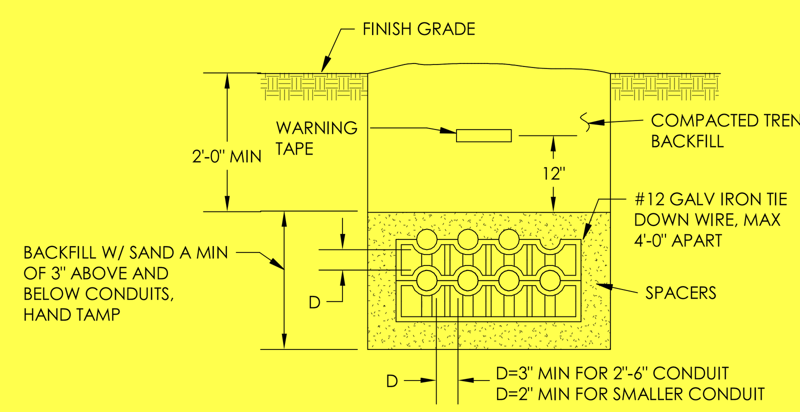
MSB ELEVATION



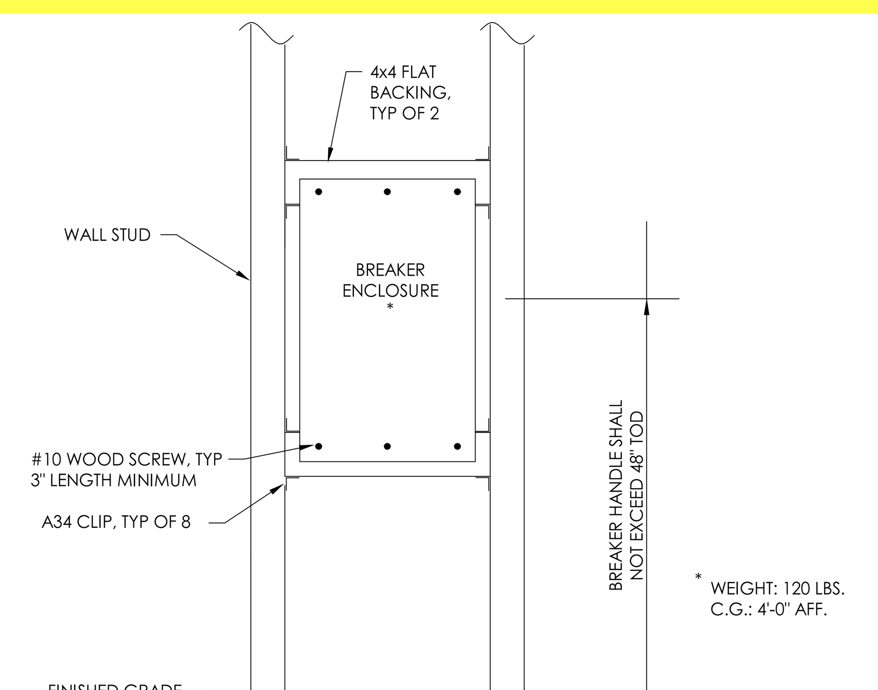


MSB EQUIPMENT PAD

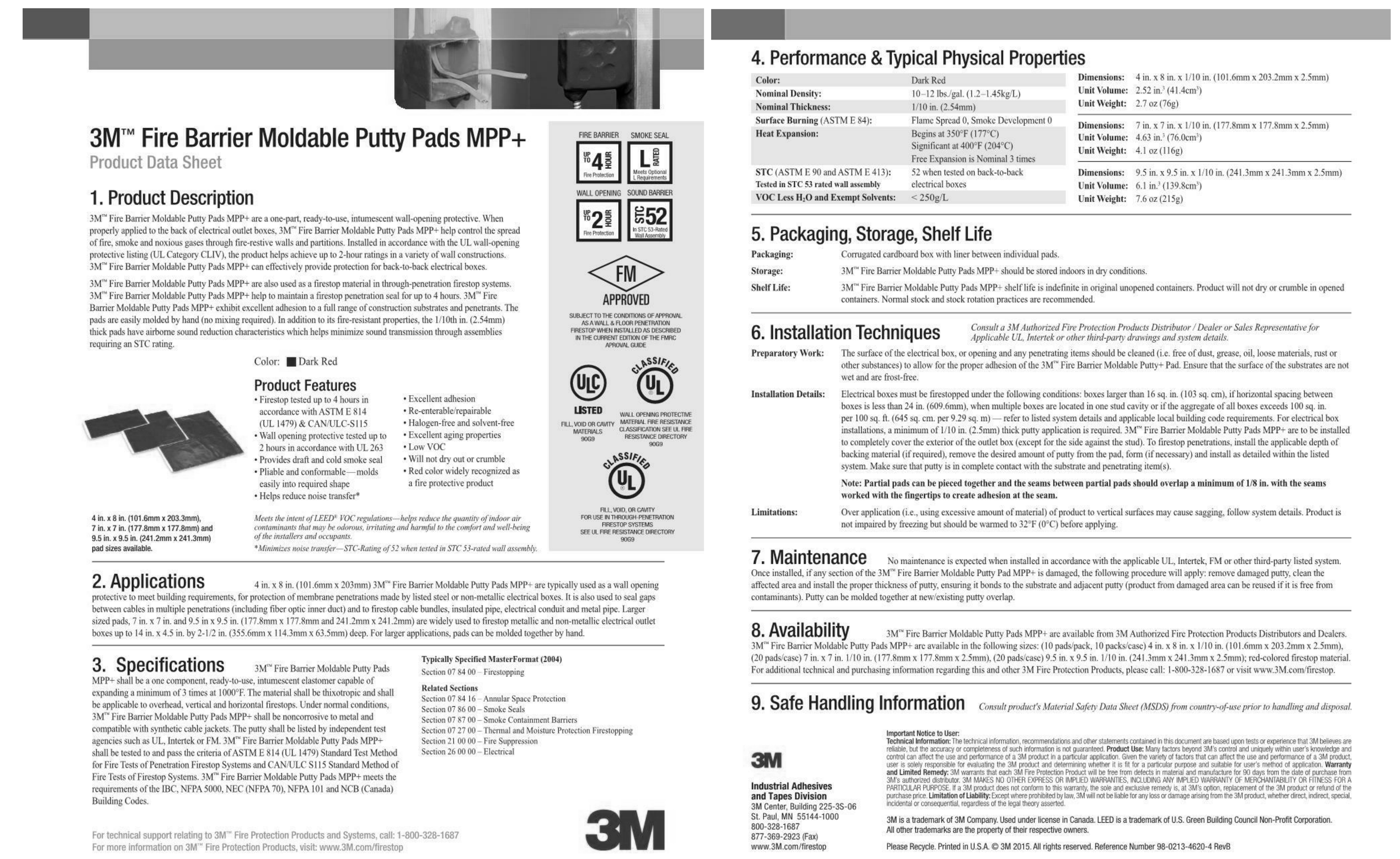
MSB PAD, ANCHORAGE AND ELEVATION (5 / E4.1-I2)
NTS



TYPICAL UNDERGROUND MULTIPLE CONDUITS (6 / E4.1-I2)
NTS



SURFACE MOUNT BREAKER ENCLOSURE MOUNTING (7 / E4.1-I2)
NTS



3M™ Fire Barrier Moldable Putty Pads MPP+

Product Data Sheet

1. Product Description

3M™ Fire Barrier Moldable Putty Pads MPP+ are a one-part, ready-to-use, intumescent wall-opening protective. When properly applied to the back of electrical outlet boxes, 3M™ Fire Barrier Moldable Putty Pads MPP+ help control the spread of fire, smoke and noxious gases through fire-restive walls and partitions. Installed in accordance with the UL wall-opening protective listing (UL Category CLIV), the product helps achieve up to 2-hour ratings in a variety of wall constructions. 3M™ Fire Barrier Moldable Putty Pads MPP+ can effectively provide protection for back-to-back electrical boxes.

3M™ Fire Barrier Moldable Putty Pads MPP+ are also used as a firestop material in through-penetration firestop systems. 3M™ Fire Barrier Moldable Putty Pads MPP+ help to maintain a firestop penetration seal for up to 4 hours. 3M™ Fire Barrier Moldable Putty Pads MPP+ exhibit excellent adhesion to a full range of construction substrates and penetrants. The pads are easily molded by hand (no mixing required). In addition to its fire-resistant properties, the 1/10th in. (2.54mm) thick pads have airborne sound reduction characteristics which helps minimize sound transmission through assemblies requiring an STC rating.

Color: ■ Dark Red

Product Features

- Firestop tested up to 4 hours in accordance with ASTM E 814 (UL 1479) & CAN/ULC-S115
- Wall opening protective tested up to 2 hours in accordance with UL 263
- Provides draft and cold smoke seal
- Pliable and conformable—molds easily into required shape
- Helps reduce noise transfer*
- Excellent adhesion
- Re-enterable/repairable
- Halogen-free and solvent-free
- Excellent aging properties
- Low VOC
- Will not dry out or crumble
- Red color widely recognized as a fire protective product

4 in. x 8 in. (101.6mm x 203.3mm), 7 in. x 7 in. (177.8mm x 177.8mm) and 9.5 in. x 9.5 in. (241.2mm x 241.3mm) pad sizes available.

Meets the intent of LEED® VOC regulations—helps reduce the quantity of indoor air contaminants that may be odorous, irritating and harmful to the comfort and well-being of the installers and occupants.

**Minimizes noise transfer—STC-Rating of 52 when tested in STC 53-rated wall assembly.*

FIRE BARRIER: UP TO 4 HOUR Fire Protection · SMOKE SEAL: L RATED Meets Optional L Requirements · WALL OPENING: UP TO 2 HOUR Fire Protection · SOUND BARRIER: STC 52 In STC 53-Rated Wall Assembly

FM APPROVED — SUBJECT TO THE CONDITIONS OF APPROVAL AS A WALL & FLOOR PENETRATION FIRESTOP WHEN INSTALLED AS DESCRIBED IN THE CURRENT EDITION OF THE FMRC APPROVAL GUIDE

ULC LISTED — FILL, VOID OR CAVITY MATERIALS 90G9

UL CLASSIFIED — WALL OPENING PROTECTIVE MATERIAL FIRE RESISTANCE CLASSIFICATION SEE UL FIRE RESISTANCE DIRECTORY 90G9

UL CLASSIFIED — FILL, VOID, OR CAVITY FOR USE IN THROUGH PENETRATION FIRESTOP SYSTEMS SEE UL FIRE RESISTANCE DIRECTORY 90G9

2. Applications

4 in. x 8 in. (101.6mm x 203mm) 3M™ Fire Barrier Moldable Putty Pads MPP+ are typically used as a wall opening protective to meet building requirements, for protection of membrane penetrations made by listed steel or non-metallic electrical boxes. It is also used to seal gaps between cables in multiple penetrations (including fiber optic inner duct) and to firestop cable bundles, insulated pipe, electrical conduit and metal pipe. Larger sized pads, 7 in. x 7 in. and 9.5 in x 9.5 in. (177.8mm x 177.8mm and 241.2mm x 241.2mm) are widely used to firestop metallic and non-metallic electrical outlet boxes up to 14 in. x 4.5 in. by 2-1/2 in. (355.6mm x 114.3mm x 63.5mm) deep. For larger applications, pads can be molded together by hand.

3. Specifications

3M™ Fire Barrier Moldable Putty Pads MPP+ shall be a one component, ready-to-use, intumescent elastomer capable of expanding a minimum of 3 times at 1000°F. The material shall be thixotropic and shall be applicable to overhead, vertical and horizontal firestops. Under normal conditions, 3M™ Fire Barrier Moldable Putty Pads MPP+ shall be noncorrosive to metal and compatible with synthetic cable jackets. The putty shall be listed by independent test agencies such as UL, Intertek or FM. 3M™ Fire Barrier Moldable Putty Pads MPP+ shall be tested to and pass the criteria of ASTM E 814 (UL 1479) Standard Test Method for Fire Tests of Penetration Firestop Systems and CAN/ULC S115 Standard Method of Fire Tests of Firestop Systems. 3M™ Fire Barrier Moldable Putty Pads MPP+ meets the requirements of the IBC, NFPA 5000, NEC (NFPA 70), NFPA 101 and NCB (Canada) Building Codes.

Typically Specified MasterFormat (2004)
Section 07 84 00 – Firestopping

Related Sections
Section 07 84 16 – Annular Space Protection
Section 07 86 00 – Smoke Seals
Section 07 87 00 – Smoke Containment Barriers
Section 07 27 00 – Thermal and Moisture Protection Firestopping
Section 21 00 00 – Fire Suppression
Section 26 00 00 – Electrical

For technical support relating to 3M™ Fire Protection Products and Systems, call: 1-800-328-1687
For more information on 3M™ Fire Protection Products, visit: www.3M.com/firestop

4. Performance & Typical Physical Properties

Color:	Dark Red
Nominal Density:	10–12 lbs./gal. (1.2–1.45kg/L)
Nominal Thickness:	1/10 in. (2.54mm)
Surface Burning (ASTM E 84):	Flame Spread 0, Smoke Development 0
Heat Expansion:	Begins at 350°F (177°C) Significant at 400°F (204°C) Free Expansion is Nominal 3 times
STC (ASTM E 90 and ASTM E 413): Tested in STC 53 rated wall assembly	52 when tested on back-to-back electrical boxes
VOC Less H_2O and Exempt Solvents:	< 250g/L

Dimensions:	4 in. x 8 in. x 1/10 in. (101.6mm x 203.2mm x 2.5mm)
Unit Volume:	2.52 in.³ (41.4cm³)
Unit Weight:	2.7 oz (76g)
Dimensions:	7 in. x 7 in. x 1/10 in. (177.8mm x 177.8mm x 2.5mm)
Unit Volume:	4.63 in.³ (76.0cm³)
Unit Weight:	4.1 oz (116g)
Dimensions:	9.5 in. x 9.5 in. x 1/10 in. (241.3mm x 241.3mm x 2.5mm)
Unit Volume:	6.1 in.³ (139.8cm³)
Unit Weight:	7.6 oz (215g)

5. Packaging, Storage, Shelf Life

Packaging: Corrugated cardboard box with liner between individual pads.

Storage: 3M™ Fire Barrier Moldable Putty Pads MPP+ should be stored indoors in dry conditions.

Shelf Life: 3M™ Fire Barrier Moldable Putty Pads MPP+ shelf life is indefinite in original unopened containers. Product will not dry or crumble in opened containers. Normal stock and stock rotation practices are recommended.

6. Installation Techniques

Consult a 3M Authorized Fire Protection Products Distributor / Dealer or Sales Representative for Applicable UL, Intertek or other third-party drawings and system details.

Preparatory Work: The surface of the electrical box, or opening and any penetrating items should be cleaned (i.e. free of dust, grease, oil, loose materials, rust or other substances) to allow for the proper adhesion of the 3M™ Fire Barrier Moldable Putty+ Pad. Ensure that the surface of the substrates are not wet and are frost-free.

Installation Details: Electrical boxes must be firestopped under the following conditions: boxes larger than 16 sq. in. (103 sq. cm), if horizontal spacing between boxes is less than 24 in. (609.6mm), when multiple boxes are located in one stud cavity or if the aggregate of all boxes exceeds 100 sq. in. per 100 sq. ft. (645 sq. cm. per 9.29 sq. m) — refer to listed system details and applicable local building code requirements. For electrical box installations, a minimum of 1/10 in. (2.5mm) thick putty application is required. 3M™ Fire Barrier Moldable Putty Pads MPP+ are to be installed to completely cover the exterior of the outlet box (except for the side against the stud). To firestop penetrations, install the applicable depth of backing material (if required), remove the desired amount of putty from the pad, form (if necessary) and install as detailed within the listed system. Make sure that putty is in complete contact with the substrate and penetrating item(s).

Note: Partial pads can be pieced together and the seams between partial pads should overlap a minimum of 1/8 in. with the seams worked with the fingertips to create adhesion at the seam.

Limitations: Over application (i.e., using excessive amount of material) of product to vertical surfaces may cause sagging, follow system details. Product is not impaired by freezing but should be warmed to 32°F (0°C) before applying.

7. Maintenance

No maintenance is expected when installed in accordance with the applicable UL, Intertek, FM or other third-party listed system. Once installed, if any section of the 3M™ Fire Barrier Moldable Putty Pad MPP+ is damaged, the following procedure will apply: remove damaged putty, clean the affected area and install the proper thickness of putty, ensuring it bonds to the substrate and adjacent putty (product from damaged area can be reused if it is free from contaminants). Putty can be molded together at new/existing putty overlap.

8. Availability

3M™ Fire Barrier Moldable Putty Pads MPP+ are available from 3M Authorized Fire Protection Products Distributors and Dealers. 3M™ Fire Barrier Moldable Putty Pads MPP+ are available in the following sizes: (10 pads/pack, 10 packs/case) 4 in. x 8 in. x 1/10 in. (101.6mm x 203.2mm x 2.5mm), (20 pads/case) 7 in. x 7 in. 1/10 in. (177.8mm x 177.8mm x 2.5mm), (20 pads/case) 9.5 in. x 9.5 in. 1/10 in. (241.3mm x 241.3mm x 2.5mm); red-colored firestop material. For additional technical and purchasing information regarding this and other 3M Fire Protection Products, please call: 1-800-328-1687 or visit www.3M.com/firestop.

9. Safe Handling Information

Consult product's Material Safety Data Sheet (MSDS) from country-of-use prior to handling and disposal.

3M
Industrial Adhesives and Tapes Division
3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-328-1687
877-369-2923 (Fax)
www.3M.com/firestop

Important Notice to User:
Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed. Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application. Warranty and Limited Remedy: 3M warrants that each 3M Fire Protection Product will be free from defects in material and manufacture for 90 days from the date of purchase from 3M's authorized distributor. 3M MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If a 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted.

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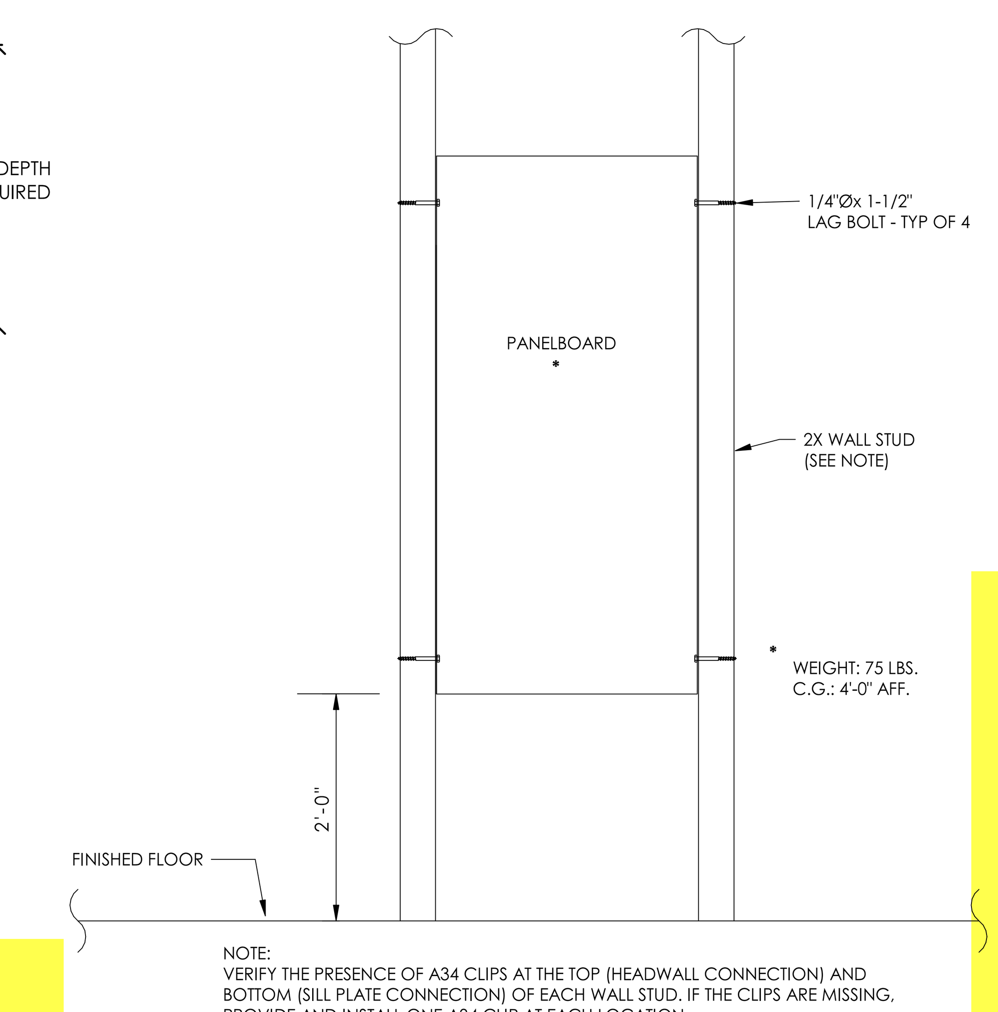
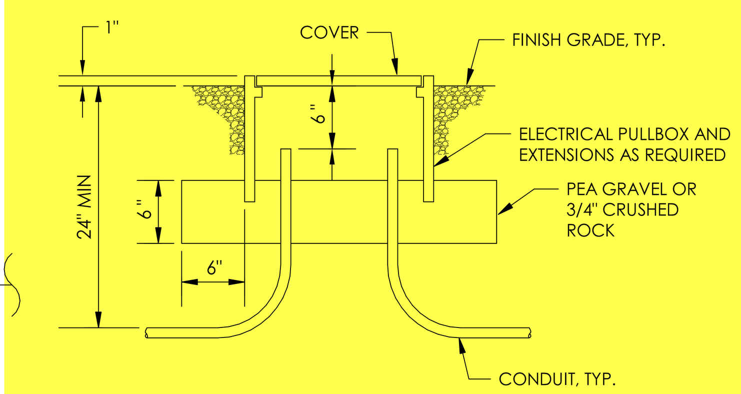
3M

3M PUTTY PADS FOR USE IN FIRE RATED ASSEMBLIES (A / E4.1-I2)

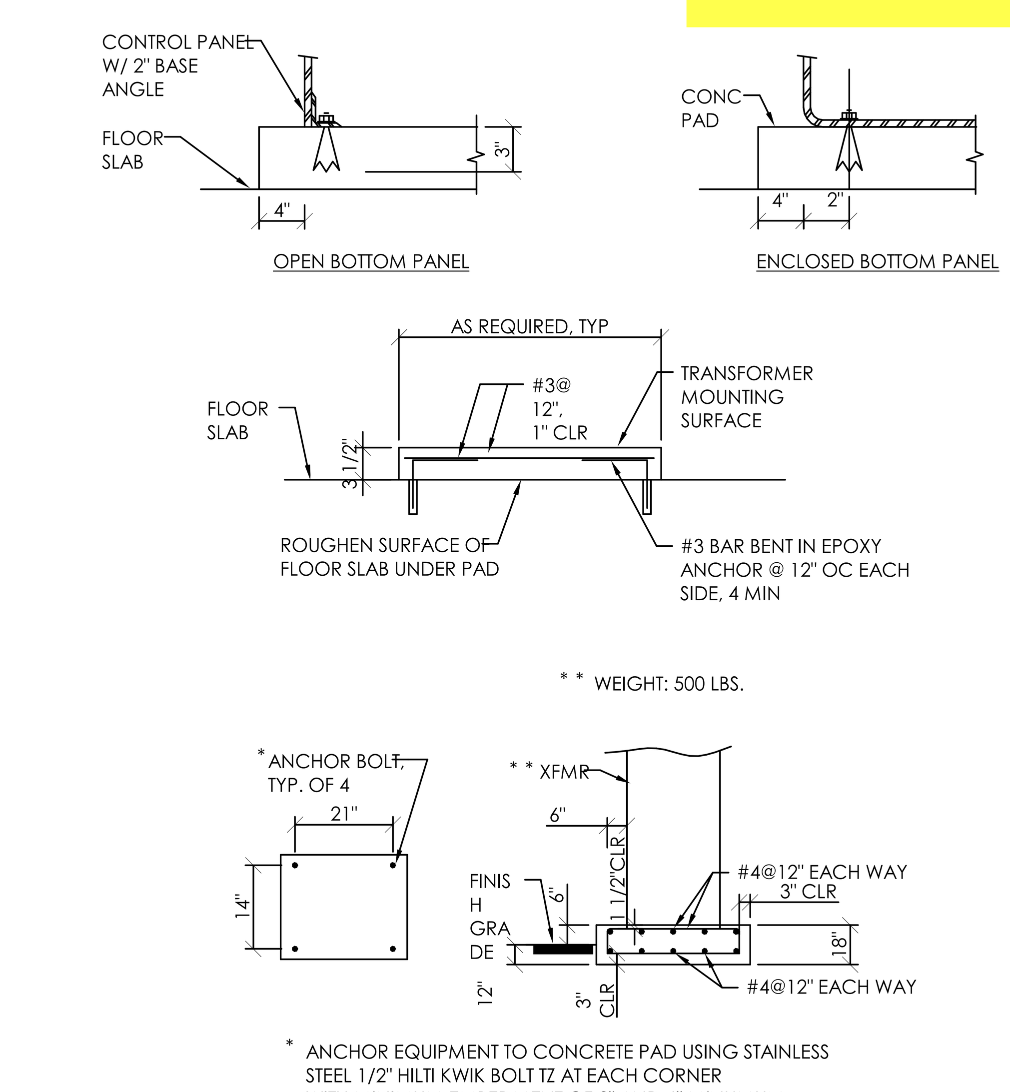


NOTE:
VERIFY THE PRESENCE OF A34 CLIPS AT THE TOP (HEADWALL CONNECTION) AND BOTTOM (SILL PLATE CONNECTION) OF EACH WALL STUD. IF THE CLIPS ARE MISSING, PROVIDE AND INSTALL ONE A34 CLIP AT EACH LOCATION.

PANELBOARD RECESS MOUNTING (8 / E4.1-I2)
NTS



PULLBOX - SWEEP UP (9 / E4.1-I2)
NTS



* ANCHOR EQUIPMENT TO CONCRETE PAD USING STAINLESS STEEL 1/2" HILTI KWIK BOLT TZ AT EACH CORNER WITH MINIMUM EMBEDMENT OF 2" AND 6" MINUMUM EDGE DISTANCE

TRANSFORMER MOUNTING AND PAD DETAIL (10 / E4.1-I2)
NTS

PACE ENGINEERING
REDDING, CALIFORNIA

PBK

ARCHITECTURE
AUSTIN
9442 Capital of Texas Hwy, Suite 680
Austin, TX 78759
512-340-0676 P
512-372-3467 F
TX Firm: F-3709
PBK.com

CIVIL
TRINITY VALLEY CONSULTING ENGINEERS INC.
67 WALNUT WAY/P.O. BOX 1567
WILLOW CREEK, CA 95573
(530) 629-3000

STRUCTURE
POINT 2 STRUCTURAL ENGINEERS INC.
3701 BUSINESS DRIVE SUITE 100
SACRAMENTO, CA 95820
(916) 452-8200

MECHANICAL & PLUMBING
FRONTIER CONSULTING ENGINEERS
PO BOX 492174
REDDING, CA 96002
(530) 232-2770

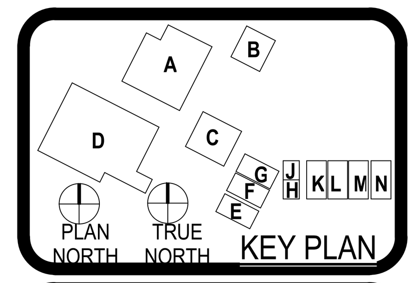
ELECTRICAL
PACE ENGINEERING
1730 SOUTH STREET
REDDING, CA 96001
(530) 244-0202

FOOD SERVICE
CAPITAL ENGINEERS CONSULTANTS INC.
11020 SUN CENTER DRIVE
RANCHO CORDOVA, CA 95670
(916) 851-3500

BURNT RANCH ELEMENTARY SCHOOL
ALTERATION & ADDITION TO GYMNASIUM
BUILDING - INCREMENT 2

251 BURNT RANCH SCHOOL RD.,
BURNT RANCH, CA 95527

DSA SUBMITTAL



KEY PLAN

FILE NO.12-58
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 02-116159
ACS ______ FLS ______ SS ______
DATE ____ __________
SEAL AND REGISTRATION NUMBER HERE

REGISTERED PROFESSIONAL ENGINEER
ANTHONY A. BOWSER
No. E 017988
ELECTRICAL
STATE OF CALIFORNIA

CLIENT
BURNT RANCH JOINT SCHOOL DISTRICT
PROJECT NUMBER
17142

DATE:	DECEMBER 19, 2017
DRAWN BY:	BE/KC
CHECKED BY:	TB

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ELECTRICAL DETAILS

E4.1-I2

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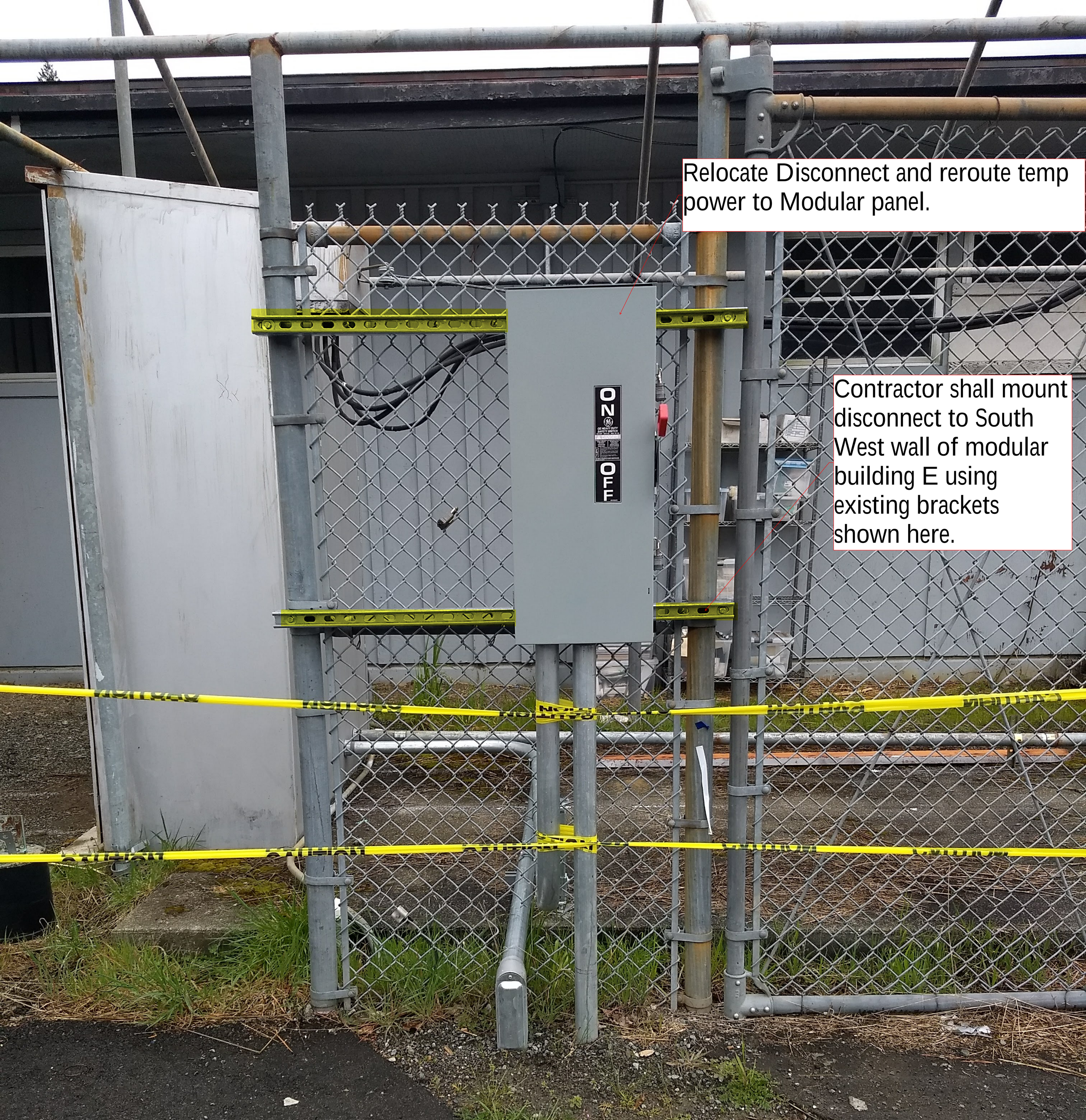
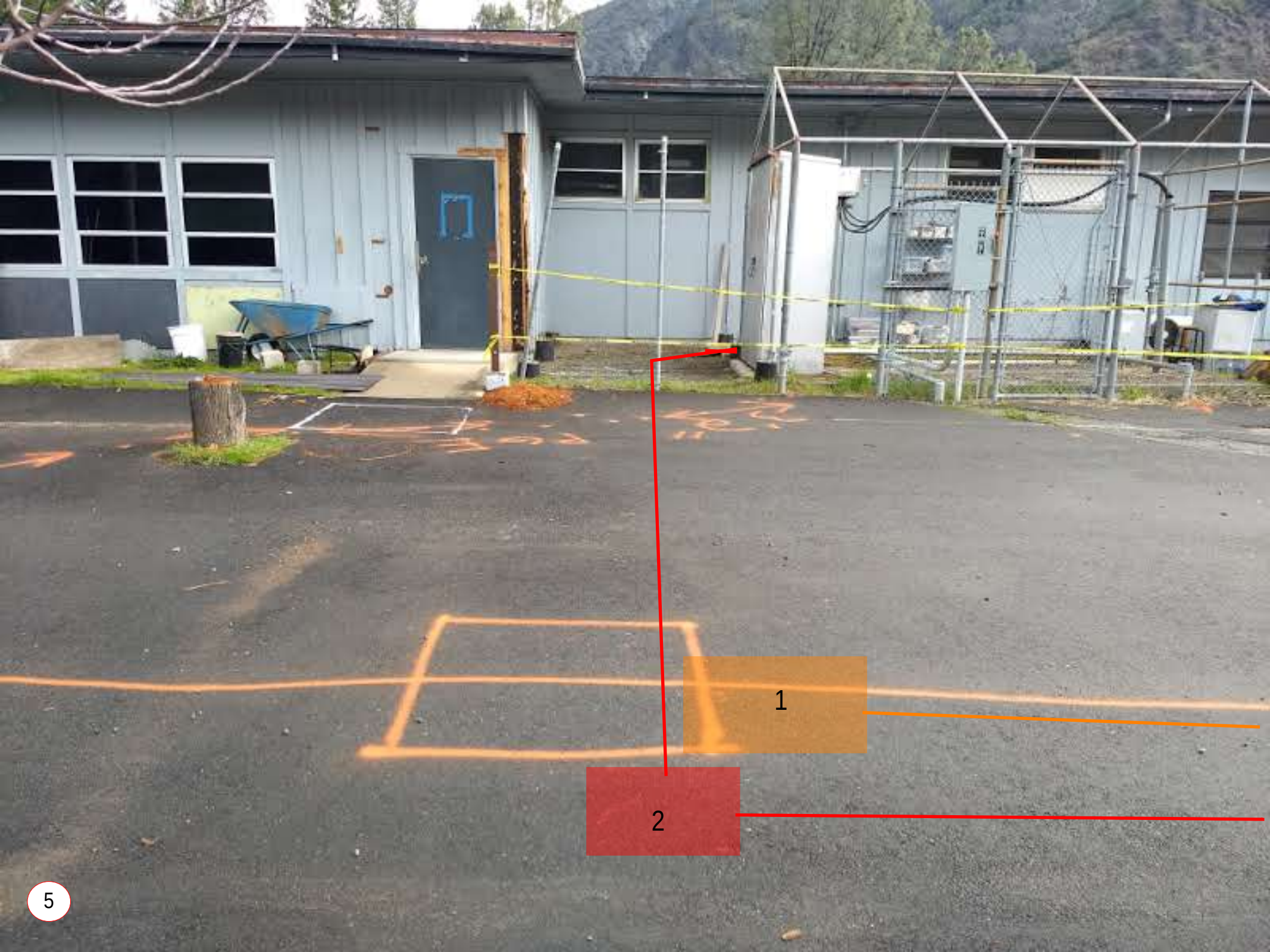

Relocate Disconnect and reroute temp power to Modular panel.
Contractor shall mount disconnect to South West wall of modular building E using existing brackets shown here.
ON
GE HEAVY DUTY SAFETY SWITCH
OFF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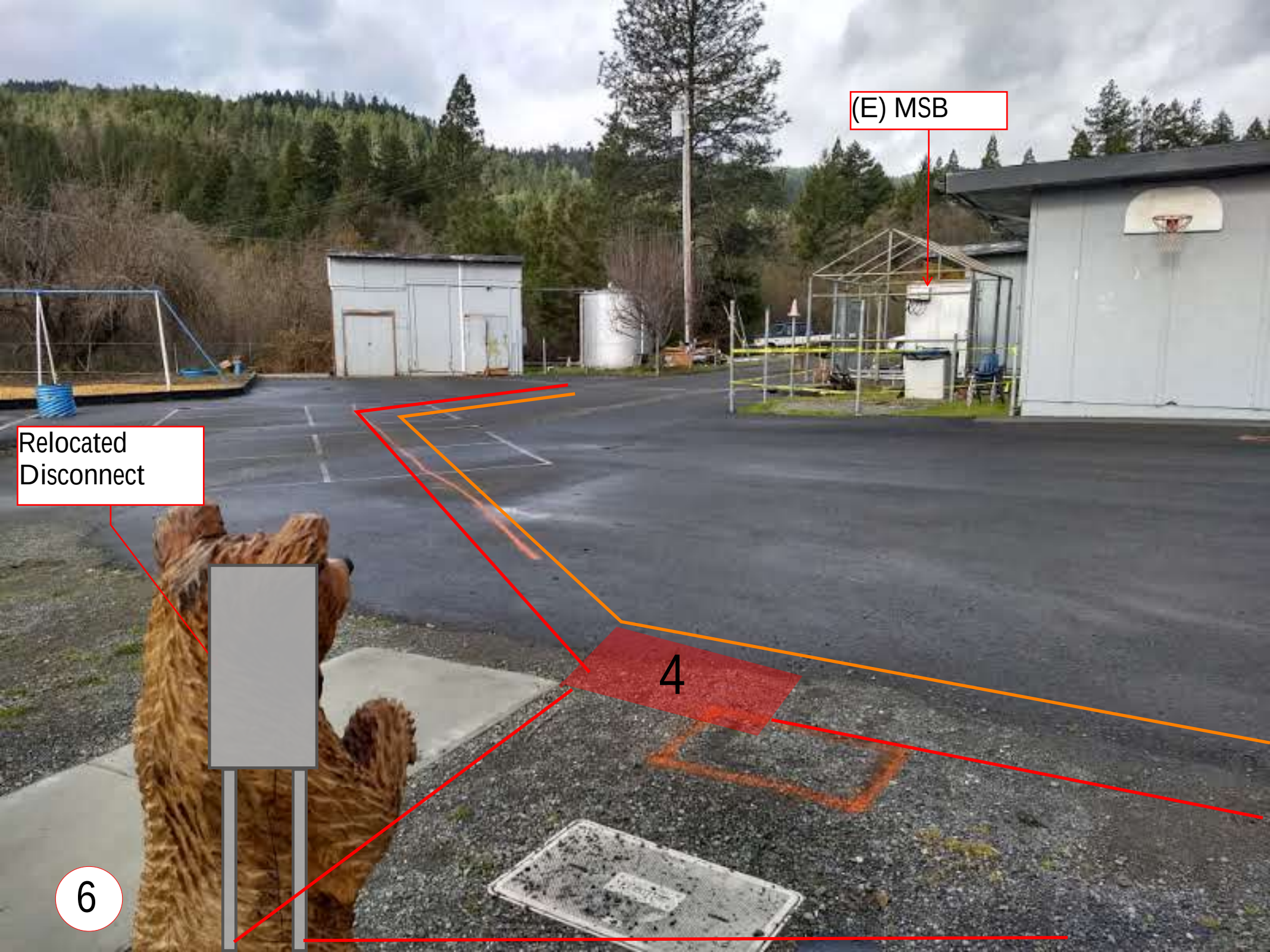
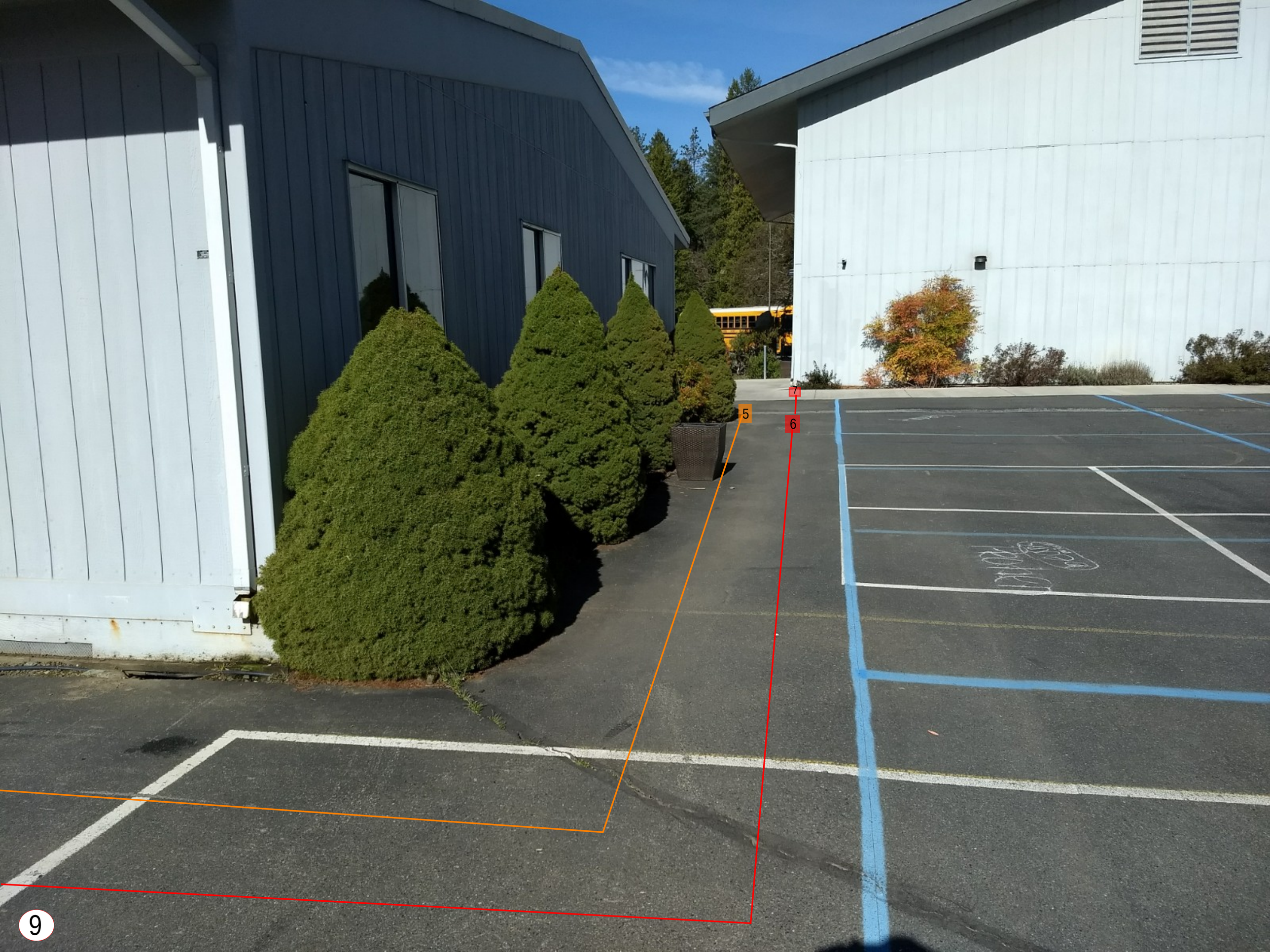
2

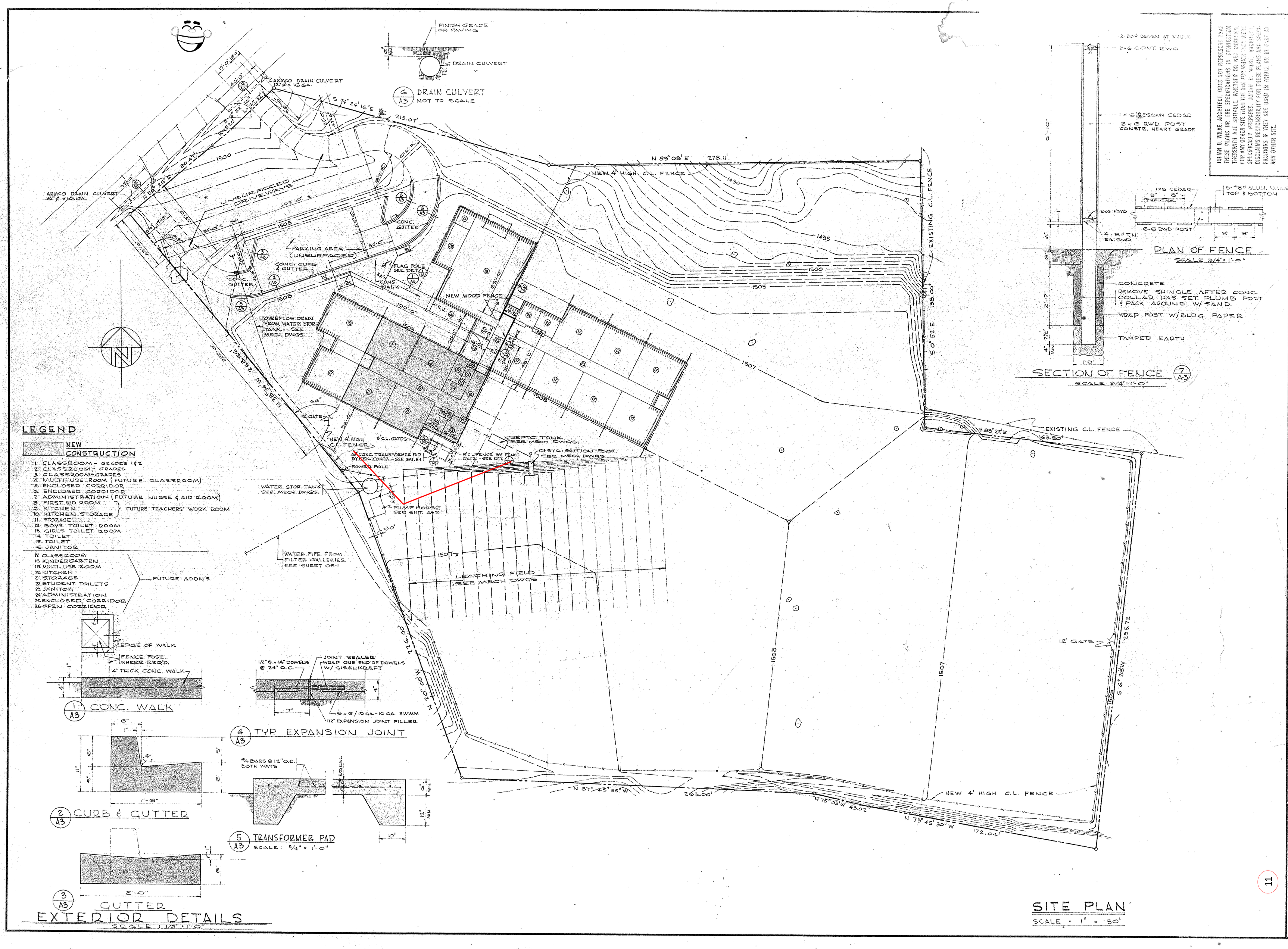

(E) MSB
Relocated
Disconnect
4
6

Relocate Disconnect here.
Contractor shall locate (E) Conductor and reroute to Relocated disconnect.
(E) C-3#4/0,1#4G
(N) 3"C-3#4/0,1#4G
3
4
7

3


5
6
7
9

Contractor shall intercept and splice tap (N) to (E) conductors .
7
6
5



LEGEND

NEW CONSTRUCTION

1. CLASSROOM - GRADES 1 & 2
2. CLASSROOM - GRADES
3. CLASSROOM - GRADES
4. MULTI-USE ROOM (FUTURE CLASSROOM)
5. ENCLOSED CORRIDOR
6. ENCLOSED CORRIDOR
7. ADMINISTRATION (FUTURE NURSE & AID ROOM)
8. FIRST AID ROOM
9. KITCHEN
10. KITCHEN STORAGE
11. STORAGE
12. BOYS TOILET ROOM
13. GIRLS TOILET ROOM
14. TOILET
15. TOILET
16. JANITOR

(8–16: FUTURE TEACHERS' WORK ROOM)

17. CLASSROOM
18. KINDERGARTEN
19. MULTI-USE ROOM
20. KITCHEN
21. STORAGE
22. STUDENT TOILETS
23. JANITOR
24. ADMINISTRATION
25. ENCLOSED CORRIDOR
26. OPEN CORRIDOR

(17–26: FUTURE ADDN'S.)

1 A3 CONC. WALK

4 A3 TYP. EXPANSION JOINT

2 A3 CURB & GUTTER

5 A3 TRANSFORMER PAD
SCALE: 3/4" = 1'-0"

3 A3 GUTTER

EXTERIOR DETAILS
SCALE 1 1/2" = 1'-0"

PLAN OF FENCE
SCALE 3/4" = 1'-0"

SECTION OF FENCE 7 A3
SCALE 3/4" = 1'-0"

SITE PLAN
SCALE = 1" = 30'

JULIAN O. WILKE, ARCHITECT, DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS IN CONNECTION THEREWITH ARE SUITABLE, WHETHER OR NOT ADDRESSED FOR ANY OTHER SITE THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. JULIAN O. WILKE, ARCHITECT, DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.

ADOPTED BY RESOLUTION OF THE BOARD OF TRUSTEES.
APPROVED
ENGINEER
DATE MAR 29 1961
APPROVED
DIVISION OF ARCHITECTURE
DATE

JULIAN O. WILKE, A.I.A.
ARCHITECT
2510 EUREKA WAY
REDDING CALIFORNIA
TELEPHONE CHestnut 1-1501

FINISH GRADING, SITE DEVELOPMENT & DETAILS

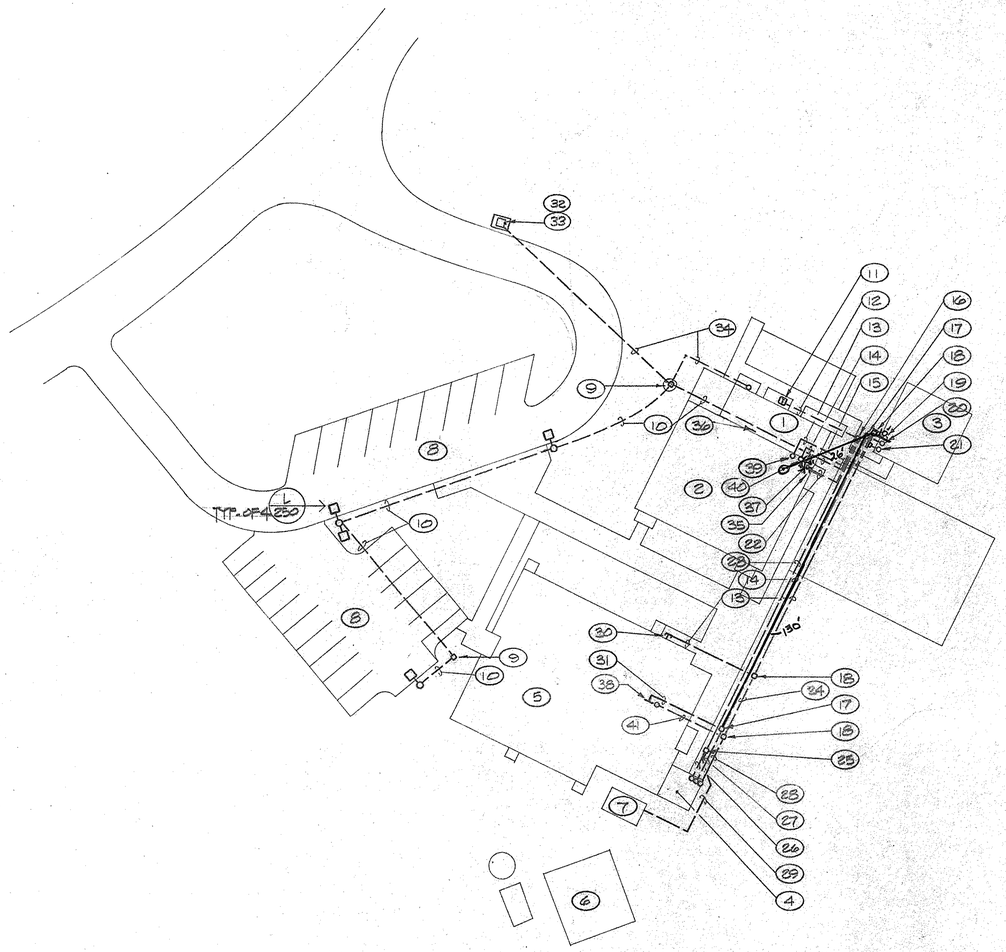
BURNT RANCH SCHOOL
FOR
BURNT RANCH SCHOOL DISTRICT
BURNT RANCH TRINITY COUNTY CALIFORNIA

BY	DATE	JOB NO.
DR		59105
CK.	3-29-61	

SHEET NO.
A3
3 OF SHEETS

11

CEMENT CURB
CONCRETE WALK
1500
1505
1507
EXISTING FENCE
top of pipe going into "D" box to floor grade of school is 57"
SEPTIC TANK
pipe 2' 9" below grade
DISTRIBUTION BOX
12' from "Y" with clean out to "D" box
TRANSFORMER
WATER TANK
PUMP HOUSE
LEACH FIELD
PROPERTY LINE
FENCE LINE
WOODEN FENCE
SCALE 1" = 30'



ELECTRICAL SITE PLAN

SCALE 1"=30'-0"

NOTES

1. NEW KITCHEN.
2. NEW MULTI-PURPOSE ROOM.
3. NEW CLASSROOM.
4. NEW SPEECH CLASSROOM.
5. EXISTING CLASSROOMS.
6. EXISTING PORTABLE TO BE REMOVED. SEE ARCH. SITE PLAN
7. EXISTING SWITCHGEAR.
8. PARKING.
9. 12" X 22" PB FOR PARKING LOT LIGHTING
10. 2 #10
11. TRANSFORMER "XB" - 115° RISE - 480-208Y/120V 45 KVA - 5%Z
12. 1- 1"C - 3 #6 - HB TO XFMR
    1- 2"C - 4 #1/0 - XFMR TO LC
13. 1- 1-1/2"C - FOR CLK/INTERCOM/TEL.
14. 1- 1"C - FOR FIRE ALARM
15. 1- 2"C -4 #1/0 - XFMR TO LC
    1- 1"C - POWER - LC - 16, 13, 20
16. 17-1/4" X 30" PB FOR POWER
17. 12" X 22" PB FOR FIRE ALARM
18. 12" X 22" PB FOR CLK/INTERCOM/TEL.
19. 1- 3/4"C - CLASS TO CLK/INTERCOM/TEL.
20. 1- 3/4"C - CLASS TO FACP
21. 1- 1-1/2"C - 10 #10
    LIGHTING HB-1
    POWER LC-18, 20
    HVAC HB-26, 28, 30
22. 1- 1"C - 3 #6 - HB TO XFMR
    1- 2-1/2"C - 4 #4/0 - SWITCHGEAR TO HB
    1- 1"C -8 #10 - HB - 1, 6, 26, 28, 30
23. 1- 1-1/2"C - 10 #10
    LIGHTING HB-8
    POWER LC-16
    HVAC HB-1, 3, 5, 7, 9, 11
    1- 2-1/2"C - 4 #4/0 - SWITCHGEAR TO HB
24. 1- 2"C - FOR CLK/INTERCOM/TEL.
25. 12" X 22" PB FOR POWER
26. 1- 1-1/2"C - 10 #10
    LIGHTING HB-8
    POWER LC-16
    HVAC LC-1, 3, 5, 7, 9, 11
27. 1- 3/4"C SPEECH TO FACP
28. 1- 3/4"C SPEECH TO CLK/INTERCOM/TEL.
29. 1- 2-1/2"C - 4 #4/0 - SWITCHGEAR TO HB
30. EXISTING TELEPHONE STUBOUT
31. 2"C TO FACP LOCATED IN PRINCIPAL'S OFFICE
32. GAS PUMP - 1/3 HP MOTOR - 208V - 1Φ - SEE MECHANICAL PLANS FOR DETAILS
33. LEAK DETECTOR - 120V - 1Φ - PROVIDE CONNECTIONS TO MAKE A COMPLETE AND OPERATIONAL SYSTEM
34. 1- 3/4"C - 4 #10
    GAS PUMP LB-31,33
    LEAK DETECTOR LB-35
35. PANEL HB
36. PANEL LB
37. PANEL LC
38. FACP
39. TERMINATE IN 12" X 12" X 4" FLUSH PULL BOX.
40. TERMINATE IN FLUSH JUNCTION BOX. PROVIDE COVER PLATE.
41. 1-2"C TO MASTER CLOCK/INTERCOM PANEL.

LEGEND

- (A 30) LIGHT FIXTURE DESIGNATION. EXAMPLE SHOWS FIXTURE TYPE A, 30 WATTS.
- FLUORESCENT LIGHT FIXTURE.
- FLUORESCENT LIGHT FIXTURE WITH EMERGENCY BATTERY BACK UP.
- SURFACE MOUNTED HID FIXTURE. SEE FIXTURE SCHEDULE FOR EXACT TYPE. VERIFY EXACT MOUNTING LOCATION.
- WALL MOUNTED HID FIXTURE. VERIFY EXACT LOCATION AND MOUNTING HEIGHT.
- POLE MOUNTED HID FIXTURE. VERIFY EXACT LOCATION AND MOUNTING HEIGHT.
- WALL MOUNTED EXIT LIGHT FIXTURE. ARROWS INDICATE PATH OF EGRESS. VERIFY EXACT LOCATION AND MOUNTING HEIGHT.
- $ SINGLE POLE SWITCH TO CONTROL ALL LAMPS IN FIXTURE. +48"
- $a SAME AS $. LOWER CASE LETTER INDICATES FIXTURE TO BE SWITCHED. +48"
- $3 THREE WAY SWITCH. TO CONTROL ALL LAMPS IN FIXTURE. +48"
- Φ 15A 125V DUPLEX RECEPTACLE. MOUNT AT +18".
- ΦWP 15A 125V DUPLEX RECEPTACLE OUTLET. WEATHERPROOF. ALL EXTERIOR RECEPTACLES SHALL HAVE HASP TYPE LOCKING COVER PLATE.
- Φ 208V DUPLEX RECEPTACLE. MOUNT AT +18"
- CLOCK OUTLET. MOUNT AT +8'-0".
- TELEPHONE OUTLET. WALL MOUNT AT +12" UNLESS NOTED OTHERWISE.
- ΦDF RECEPTACLE OUTLET FOR DRINKING FOUNTAIN. VERIFY EXACT MOUNTING HIEGHT.
- J JUNCTION BOX. HARDWIRE CONNECT TO EQUIPMENT.
- Sm MOTOR STARTER SWITCH WITH MANUAL THERMAL OVERLOAD.
- 30A/3CAP/3P FUSED DISCONNECT SWITCH. EXAMPLE SHOWS 3 POLE 30 AMP FUSED SWITCH WITH 3 - 30 AMP TIME DELAY FUSES.
- (2) NOTE DESIGNATION. REFER TO NOTE 2.
- (AC 2) HVAC EQUIPMENT DESIGNATION. EXAMPLE SHOWS AIR CONDITIONING UNIT #2.
- FLEXIBLE CONDUIT.
- HOMERUNS CONTINUING TO PANEL. SLASH MARKS INDICATE NUMBER OF CONDUCTORS. NO SLASH MARKS INDICATE 2 #12 1/2" C UNLESS OTHERWISE NOTED FOR INDIVIDUAL ITEM.
- CONDUIT WITH CONDUCTORS IN WALL OR CEILING. SLASH MARKS INDICATE NUMBER OF CONDUCTORS. NO SLASH MARKS INDICATE 2 #12 1/2" C UNLESS OTHERWISE NOTED FOR INDIVIDUAL ITEM.
- CONDUIT WITH CONDUCTORS IN SLAB OR BELOW GRADE. SLASH MARKS INDICATE NUMBER OF CONDUCTORS. NO SLASH MARKS INDICATE 2 #12 AWG 1/2" C UNLESS OTHERWISE NOTED FOR INDIVIDUAL ITEM.
- (SD) SMOKE DETECTOR. CEILING MOUNTED.
- HANDSET FOR INTERCOMMUNICATIONS SYSTEM. MOUNT AT +48". VERIFY EXACT LOCATION WITH ARCH. PRIOR TO ROUGH IN.
- SPEAKER FOR INTERCOMMUNICATIONS SYSTEM. MOUNT AT +8'-0"
- FIRE ALARM PULL STATION AT +48".
- FIRE ALARM FLASHING LIGHT SIGNAL. VERIFY HEIGHT.
- FIRE ALARM HORN. VERIFY HEIGHT.
- FACP FIRE ALARM CONTROL PANEL.
- W/ WITH.
- TRANSFORMER.
- XFMR TRANSFORMER.
- PAD MOUNTED TRANSFORMER.
- EMERGENCY LIGHT FIXTURE WITH BATTERY BACK UP. VERIFY HEIGHT.
- REMOTE EMERGENCY LIGHT FIXTURE. VERIFY HEIGHT.
- THERMOSTAT FURNISHED BY OTHERS. +48"
- ACT ABOVE COUNTER TOP.
- GFCI GROUND FAULT CIRCUT INTERRUPTER.
- RISER GOING UP.
- RISER GOING DOWN.
- TYPICAL CHRISTY PULL BOX WITH CONCRETE COVER, SIZED PER N.E.C.. LABEL LID WITH SYSTEM AS NOTED.
- MTG EMPTY CONDUIT.
- (HD) HEAT DETECTOR. CEILING MOUNTED.

STATE OF THE STATE ARCHITECT
ACCESS COMPLIANCE SECTION
48246 MAR 8 87
APPLICATION FOR ☐ Field Review ☐ Plan Review
BY

STATE OF THE STATE ARCHITECT
STRUCTURAL SAFETY SECTION
NORTHERN REGION
APPROVED
MAR 6 1987
BY

Reviewed for Code Compliance
Date 4-6-87
By H.P. Semple
PRINCIPAL STRUCTURAL ENGINEER

WKSB Architects A.I.A. do not warrant this plans or the specifications in connection with any site other than the one for which they were specifically prepared, and disclaim responsibility for their use in connection in whole or in part at any other site.

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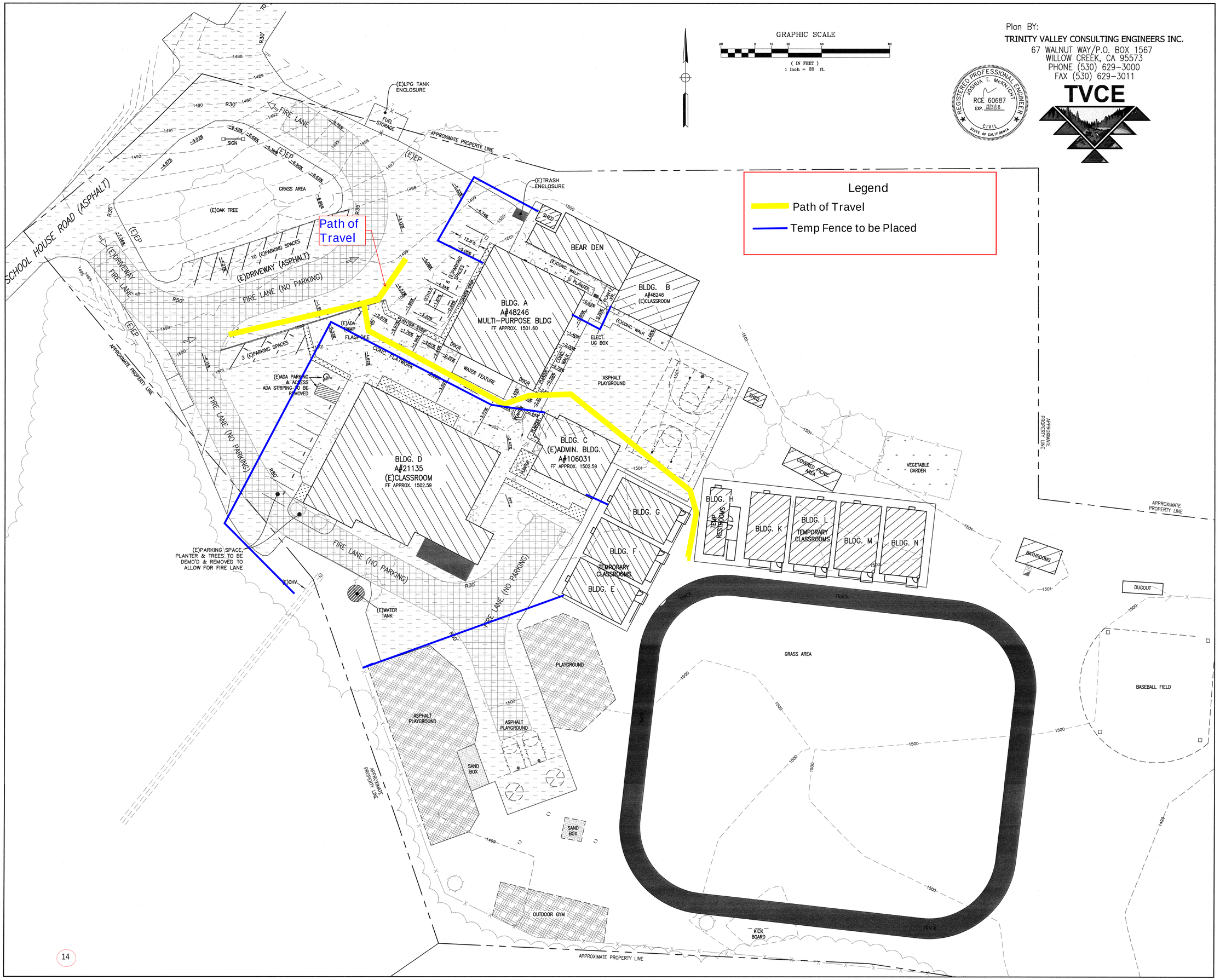
ELECTRICAL SITE PLAN & LEGEND

MULTI-PURPOSE & CLASSROOM
ADDITION FOR BURNT RANCH
the Burnt Ranch School District
Burnt Ranch, Trinity County, Calif.

Revisions	Date	By

By Date 2-5 11-20-86
Ck'd 1-6 1-29-87
Job No.

E1



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CIVIL
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BURNT RANCH ELEMENTARY SHCOOL
ALTERATIONS TO GYMNASUIUM/KITCHEN
BURNT RANCH JOINT ELEMENTARY SCHOOL
DISTRICT - INCREMENT 1
251 BURNT RANCH SCHOOL ROAD
BURNT RANCH, CALIFORNIA 95527
CONSTRUCTION DOCUMENTS

KEY PLAN
PLAN NORTH

FILE NO. 12-58
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 02-116159
ACS TM FLS SS
DATE 11/07/2017

CLIENT

PROJECT NUMBER
17142
DATE: 11/07/2017
DRAWN BY: TVCE
CHECKED BY: JTM
REVISIONS

EXISTING
SITE OVERVIEW

C3-I1

BRESD MANDATORY PRE-BID
SIGN-IN SHEET

Project: BR.2018.4.5	**Meeting Date/Time:** 03/28/2018
Facilitator: CRM Group	**Place:** Burnt Ranch

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