

## APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval. This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the [DSA Forms](#) or [DSA Publications](#) webpages.

<b>1. SUBMITTAL TYPE: (Is this a resubmittal? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>)</b>			
Deferred Submittal <input type="checkbox"/>	Addendum Number:	Revision Number: <b>1</b>	CCD Number: _____ Category A <input type="checkbox"/> or B <input type="checkbox"/>
<b>2. PROJECT INFORMATION:</b>			
School District/Owner: <b>Imperial Community College District</b>		DSA File Number: <b>13-C1</b>	
Project Name/School: <b>Imperial Valley College</b>		DSA Application Number <b>04 118941</b>	
<b>3. APPLICANT INFORMATION:</b>			
Date Submitted: <b>12/01/20</b>	Attached Pages? No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Number of pages? <b>7</b>		
Firm Name: <b>Michael Wall Engineering</b>	Contact Name: <b>Shahab Salehi</b>		
Work Email: <b>ssalehi@mwalleng.com</b>	Work Phone: <b>(858) 638-0600</b>		
Firm Address: <b>2550 Fifth Avenue #810</b>	City: <b>San Diego</b>	State: <b>CA</b>	Zip Code: <b>92103</b>
<b>4. REASON FOR SUBMITTAL: (Check applicable boxes)</b>			
<input type="checkbox"/> For revision or addendum prior to construction.		<input type="checkbox"/> For a project currently under construction.	
<input type="checkbox"/> For a project that has a form DSA 301-N: Notification of Requirement for Certification, DSA 301-P: Posted Notification of Requirement for Certification or a 90-Day Letter issued.			
<input type="checkbox"/> To obtain DSA approval of an existing uncertified building or buildings.			
<input type="checkbox"/> For Category B CCD this is: <input type="checkbox"/> a voluntary submittal, <input type="checkbox"/> a DSA required submittal (attach DSA notice requiring submission).			
<b>5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE:</b>			
Name of the Design Professional In General Responsible Charge: <b>Shahab Salehi</b>			
Professional License Number: <b>18803</b>		Discipline: <b>Electrical</b>	
<b>Design Professional in General Responsible Charge Statement:</b> The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project.			
Signature: _____ <div style="text-align: center; font-size: small;">DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE</div>			
<b>6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:</b>			
For addenda, revisions, or CCDs: CHECK THIS BOX <input type="checkbox"/> to confirm that <i>all</i> post-approval documents have been stamped and signed by the Responsible Design Professional listed on form DSA 1: Application for Approval of Plans and Specifications for this project. (For Deferred Submittals, refer to IR A-18: Use of Construction Documents Prepared by Other Professionals, and IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents, when applicable, for signature and seal requirements.)			
Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed): <b>Revised primary power source feed from campus loop to IID transformer. Transformers and switchboards moved to the new location.</b>			
List of DSA-approved drawings affected by this post-approval document: <b>E1.0, E1.1, E2.0, E3.0, E3.1</b>			

DSA USE ONLY		
	Returned	DSA STAMP
SSS <u>GL</u> Date <u>12/02/2020</u> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Not Required Comments: _____	Date: <b>12/04/2020</b>	<div style="border: 2px solid black; border-radius: 15px; padding: 10px; text-align: center;"> <p>APPROVED DIV. OF THE STATE ARCHITECT</p> <p>APP: 04-118941 INC:</p> <p>REVIEWED FOR</p> <p>SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input type="checkbox"/></p> <p>DATE: <u>12/04/2020</u></p> </div>
FLS <u>JA</u> Date <u>12/04/2020</u> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Not Required Comments: _____	By: <b>DP</b>	
ACS _____ Date _____ <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input checked="" type="checkbox"/> Not Required Comments: _____		



SINGLELINE SYMBOLS AND DESCRIPTIONS		
	DRAWOUT CIRCUIT BREAKER	AMP METER
	CIRCUIT BREAKER	VOLT METER
	FUSED SWITCH	CURRENT TRANSFORMER
	TRANSFORMER	GROUND FAULT CIRCUIT INTERRUPTER
	GROUNDING ELECTRODE AND CONDUCTOR	MOTOR OR EQUIPMENT AS NOTED
	EXTERNALLY OPERATED CIRCUIT BREAKER	UGPS LANDING LUGS
	PANELBOARD	AUTOMATIC TRANSFER SWITCH
	THROUGH FED OR DOUBLE LUG PANELBOARD	GENERATOR
	SHUNT TRIP	DIGITAL METER BY POWER MEASUREMENTS ION-7350
	UTILITY METER WITH C.T.s.	SURGE PROTECTIVE DEVICE
	IN-LINE UTILITY METER-200A MAXIMUM	

**ELECTRICAL CONSTRUCTION DOCUMENTS  
GENERAL INFORMATION**

- THE DRAWINGS CONTAINED WITHIN THESE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND CLEARANCES PRIOR TO THE COMMENCEMENT OF WORK AND SHALL INCLUDE ALL COSTS, EQUIPMENT, MATERIALS, ETC. REQUIRED FOR A COMPLETE, FUNCTIONAL, AND CODE-COMPLIANT INSTALLATION.
- THE CONTRACTOR SHALL COORDINATE ALL INSTALLATIONS WITH ALL OTHER TRADES.
- FINAL LOCATIONS OF ALL DEVICES, LIGHT FIXTURES, EQUIPMENT, ETC. SHALL BE INDICATED ON THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM THE ARCHITECT. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM ELECTRICAL DRAWINGS.
- THESE DRAWINGS ARE SUPPLEMENTED BY PRINTED DIVISION 28 ELECTRICAL SPECIFICATIONS. THE COMPLETE ELECTRICAL CONSTRUCTION DOCUMENT PACKAGE CONTAINS BOTH SPECIFICATIONS AND DRAWINGS. THE CONTRACTOR SHALL OBTAIN AND REVIEW THE COMPLETE ELECTRICAL CONSTRUCTION DOCUMENT PACKAGE PRIOR TO THE COMMENCEMENT OF ANY WORK AND INCLUDE ALL COST IN THIS BID.
- ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, NATIONAL ELECTRICAL CODE, STATE OF CALIFORNIA ENERGY CONSERVATION STANDARDS AND ALL REQUIREMENT OF THE AUTHORITY HAVING JURISDICTION (A.H.J.).
- CONTRACTOR SHALL COORDINATE ALL EQUIPMENT LOCATIONS WITH ARCHITECTURAL, MECHANICAL, STRUCTURAL, PLUMBING AND ALL APPROPRIATE DISCIPLINES.
- ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM AND/OR ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF EXISTING SURFACES, AREAS, AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF ANY ELECTRICAL DEMOLITION AND/OR NEW WORK.
- PROVIDE WEATHERPROOF (NEMA 3R) JUNCTION BOXES, CONDUIT, FITTINGS AND ENCLOSURES AT ALL EXTERIOR LOCATIONS AND ALL WET OR DAMP INTERIOR LOCATIONS. ALL EXTERIOR LIGHTING FIXTURES SHALL BE UL LISTED FOR WET OR DAMP LOCATION AS APPROPRIATE FOR THE LOCATION.
- VERIFY EXISTING CONDITIONS PRIOR TO BID AND INCLUDE ALL COSTS AS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
- THE CONTRACTOR SHALL REVIEW EQUIPMENT MANUFACTURERS REQUIREMENTS AND PROVIDE FUSE SIZES AS INDICATED, RELAYS, CONNECTIONS OR OTHER RELATED WORK TO COMPLETE THE ELECTRICAL SYSTEM.
- ALL DEVICES AND EQUIPMENT SHALL BE INSTALLED IN COMPLIANCE WITH A.D.A. REQUIREMENTS.
- CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.
- CONTRACTOR SHALL ENSURE THAT ALL CONDUIT, FITTINGS, AND DEVICES LOCATED IN PUBLIC AREAS ARE TAMPERPROOF AND PROTECTED FROM PHYSICAL DAMAGE.
- ALL CURRENT CARRYING CONDUCTORS SHALL BE COPPER. INSULATION SHALL BE TYPE THINWALL FOR ALL BRANCH CIRCUITS UP TO AND INCLUDING SIZE #2AWG. INSULATION FOR CONDUCTORS OVER SIZE #2AWG SHALL BE XHHW.
- ALL GROUND CONDUCTORS SHALL BE INSULATED COPPER.
- ALL CONDUIT SHALL BE EMT (INSTALLED IN INTERIOR CONCEALED SPACES) OR SCHEDULE-40 PVC (INSTALLED UNDERGROUND) UNLESS OTHERWISE NOTED.
- ALL AMPACITIES ARE BASED UPON TABLE 310.15(B)(16) OF THE 2016 C.E.C.
- FEEDER SCHEDULES INDICATE DATA FOR COPPER CONDUCTORS RATED UP TO 600V AT 75 DEGREES CELSIUS.
- ALL MULTI-WIRE BRANCH CONDUCTORS SHALL ORIGINATE FROM THE SAME PANELBOARD. THE GROUNDED AND UNGROUNDED CONDUCTORS SHALL BE GROUPEDED WITHIN THE PANELBOARD AND THEY SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS. THE CONTRACTOR SHALL PROVIDE THE DISCONNECTING MEANS BASED UPON THE FINAL FIELD WIRING, CIRCUITING, HOMERUNS, ETC. AS REQUIRED TO SATISFY THIS REQUIREMENT.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS, LICENSES, ETC. AS NEEDED FOR THE COMPLETE ELECTRICAL INSTALLATION. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL FEES AND DATA NEEDED FOR THE ABOVE ITEMS.
- ALL ROOF-MOUNTED EQUIPMENT SHALL BE SERVED BY CIRCUITS ROUTED BELOW THE ROOF STRUCTURE. DO NOT ROUTE CONDUITS EXPOSED ON THE ROOF. LIMIT FINAL CONNECTIONS TO ROOF EQUIPMENT FROM ROOF PENETRATION TO 10 FEET.
- FOR ALL EXTERIOR CONDUITS EXPOSED TO DIRECT SUNLIGHT, THE CONTRACTOR SHALL ADJUST CONDUIT AND CONDUIT SIZES AS NECESSARY TO COMPLY WITH CODE-REQUIRED AMBIENT TEMPERATURE AMPACITY DE-RATING.

ABBREVIATIONS AND DESCRIPTIONS		
A	AMPERES	KCM KILO - CIRCULAR - MIL
AC	ALTERNATING CURRENT	KS KNEE SPACE
ACV	AIR CONDITIONING	KVA KILO-VOLT/AMPERE
AIC	AMPERES INTERRUPTING CAPACITY	KW KILO-WATT
AFC	AVAILABLE FAULT CURRENT	KWH KILO-WATT-HOUR
AF	ABOVE FINISHED FLOOR	LBS POUNDS
AFG	ABOVE FINISHED GRADE	LED LIGHT EMITTING DIODE
AFV	AMP FRAME/AMP FUSE	LF LINEAL FEET
AL	ALUMINUM	LOC LOCATION
ARCH	ARCHITECT OR ARCHITECTURAL	LT LIGHT
AS	AMP SWITCH	LTG LIGHTING
AT	AMP TRIP	LV LOW VOLTAGE
ATS	AUTOMATIC TRANSFER SWITCH	MANUF MANUFACTURER
AWG	AMERICAN WIRE GAUGE	MAX MAXIMUM
B/C	BELOW GRADE	MC MECHANICAL CONTRACTOR
BKBD	BACKBOARD	MCC MOTOR CONTROL CENTER
BEL	BELOW	MCP MOTOR CIRCUIT PROTECTION
C	CONDUIT WITH WIRE	MECH MECHANICAL
CATV	CABLE TELEVISION	MIN MINIMUM
CCTV	CLOSED CIRCUIT TELEVISION	MLO MAIN LUGS ONLY
CB	CIRCUIT BREAKER	MTD MOUNTED
CLG	CEILING	MTG MOUNTING
CLF	CURRENT LIMITING FUSE	N NEUTRAL
CLR	CLEAR	NC NORMALLY CLOSED
CO	CONDUIT ONLY WITH NYLON PULLCORD	NEC NATIONAL ELECTRICAL CODE
COAX	COAXIAL CABLE	NEC NOT IN CONTRACT
CONC	CONCRETE	NL NIGHT LIGHT
CONN	CONNECT OR CONNECTION	NTS NOT TO SCALE
CONT	CONTINUATION	NO NORMALLY OPEN
CONTR	CONTRACTOR	OC ON CENTER
CPT	CONTROL POWER TRANSFORMER	OFCI OWNER FURNISHED CONTRACTOR INSTALLED
CU	COPPER	OFDI OWNER FURNISHED OWNER INSTALLED
CT	CURRENT TRANSFORMER	PC PHOTOCELL CONTROL
CW	COLD WATER	PCTC PHOTOCELL/TIMECLOCK CONTROL
D	DEDICATED OUTLET	PE PNEUMATIC-ELECTRIC
DC	DIRECT CURRENT	PH PHASE
DIA	DIAMETER	PIV DIST INDICATING VALVE
DISC	DISCONNECT	PL PILOT LIGHT
DIST	DISTRIBUTION	PLBG PLUMBING
DL	DAMP LOCATION	PNL PANEL
DB	DISTRIBUTION SWITCHBOARD	PVC POLYVINYL CHLORIDE
DWGS	DRAWINGS	PWR POWER
EA	EACH	PP POWER POLE
EB	90-MINUTE BATTERY CONNECTED TO UNIT	PS POWER SENTRY EMERGENCY BATTERY UNIT
EC	ELECTRICAL CONTRACTOR	
EDF	ELECTRICAL DRINKING FOUNTAIN	
EFG	CONNECTED TO EMERGENCY GENERATOR	
EF	EXHAUST FAN	Q FIXTURE WITH QUARTZ RESTRIKE
EI	CONNECTED TO EMERGENCY INVERTER	QTY QUANTITY
ELECT	ELECTRICAL	
ELEV	ELEVATION/ELEVATOR	REC RECESSED
EMER	EMERGENCY	REF RECEPTACLE
EMT	ELECTRO METALLIC TUBING	REF REFRIGERATOR
EQUIP	EQUIPMENT	REQ REQUIREMENTS
EXIST	EXISTING	RGS RIGID GALVANIZED STEEL
F	DEGREES FAHRENHEIT	RM ROOM
FA	FIRE ALARM	SB STANDBY
FF	FURNITURE FEED, FINISHED FLOOR	SD SMOKE DETECTOR
FFE	FINISH FLOOR ELEVATION	SPEC SPECIFICATION
FIN	FINISH OR FINISHED	SQ FT SQUARE FEET OR SQUARE FOOT
FIXT	FIXTURE	STRUCT STRUCTURAL
FLUOR	FLUORESCENT	SW SWITCH
FT	FEET OR FOOT	SWBD SWITCHBOARD
FTG	FOOTING	SWGR SWITCHGEAR
FVNR	FULL VOLTAGE NON-REVERSING	
G	GROUND BUS OR WIRE	TEMP TEMPERATURE OR TEMPORARY
GA	GAUGE	TEL TELE TELEPHONE
GALV	GALVANIZED	TC TIMECLOCK
GEN	GENERAL CONTRACTOR	TRANS TRANSFORMER
GD	GARBAGE DISPOSAL	TYP TYPICAL
GFI	GROUND FAULT INTERRUPTER	
GFR	GROUND FAULT RELAY	UGPS UNDERGROUND PULL SECTION
GG	GREEN GROUND	UL UNDERWRITERS LABORATORIES
GND	GROUND	UNO UNLESS NOTED OTHERWISE
H	HORIZONTAL	V VOLTS
HAZMAT	HAZARDOUS MATERIAL	VA VOLT/AMPERE
HR	HOUR	VFD VARIABLE FREQUENCY DRIVE
HP	HORSEPOWER	
HOA	HAND-OFF-AUTOMATIC	W WITH
HT	HEIGHT	WH WATER HEATER
HTR	HEATER	WP WEATHER PROOF
HZ	HERTZ	WT WEIGHT
IG	ISOLATED GROUND	X EXISTING
IMC	INTERMEDIATE METAL CONDUIT	XFMR TRANSFORMER
INCAND	INCANDESCENT	XL EXISTING TO BE RELOCATED
J-BOX	JUNCTION BOX	XN NEW LOCATION OF RELOCATED FIXTURE
		XR EXISTING TO BE REMOVED

SYMBOLS AND DESCRIPTIONS	
	PANELBOARD SURFACE MOUNTED
	SWITCHBOARD
	TRANSFORMER
	FUSED DISCONNECT SWITCH
	CONCEALED EMT CONDUIT WITH WIRE #12AWG + #12AWG GREEN GROUND, 34°C MINIMUM.
	CONCEALED EMT CONDUIT WITH WIRE #12AWG + #12AWG GREEN GROUND, 34°C MINIMUM.
	CONCEALED EMT CONDUIT WITH WIRE #10AWG + #10AWG GREEN GROUND, 34°C MINIMUM.
	UNDERGROUND CONDUIT AND #10 WIRE, UNO. 34°C MIN.
	TELECOMMUNICATIONS CONDUIT ONLY, 1" TO ACCESSIBLE CEILING SPACE ON SAME FLOOR.
	HOMERUN
	HATCHED CONDUIT AND WIRE TO BE REMOVED
	CODE SIZED PULLBOX AS INDICATED ON PLANS.
	CODE SIZED PULLBOX OR SPLICE BOX AS INDICATED ON PLANS.
	INDICATES CONDUIT STUB-UP OR STUB-OUT LOCATION.

600V FEEDER SCHEDULE 3Ø 4W							
LABEL	TYPE	SETS	PHASE	NEUTRAL	GROUND	CONDUIT	
300A	50A-4W	1	3 # 8	1 # 8	1 # 8	3/4"	
1100A	100A-4W	1	3 # 1	1 # 1	1 # 6	1 1/2"	
1150V	150A-4W	1	3 # 10	1 # 10	1 # 6	1 1/2"	
1225V	225A-4W	1	3 # 40	1 # 40	1 # 2	2 1/2"	
1300V	300A-4W	1	3 # 50KCM	1 # 50KCM	1 # 10	4"	
1400V	400A-4W	1	3 # 60KCM	1 # 60KCM	1 # 10	4"	
1700V	700A-4W	2	3 # 60KCM	1 # 60KCM	1 # 20	4"	
1800V	800A-4W	2	3 # 60KCM	1 # 60KCM	1 # 30	4"	

FEEDER SCHEDULE 600V BRANCH CIRCUITS 1Ø 2W							
LABEL	TYPE	SETS	PHASE	NEUTRAL	GROUND	CONDUIT	
300A	20A-2W	1	2 # 12	N/A	1 # 12	3/4"	
350A	30A-3W	1	2 # 10	N/A	1 # 10	3/4"	
400A	40A-3W	1	2 # 8	N/A	1 # 8	1 # 10	1"
450A	45A-2W	1	2 # 8	N/A	1 # 10	3/4"	
500A	50A-2W	1	2 # 6	N/A	1 # 10	3/4"	

600V FEEDER SCHEDULE 1Ø 3W							
LABEL	TYPE	SETS	PHASE	NEUTRAL	GROUND	CONDUIT	
300A	20A-3W	1	2 # 12	1 # 12	1 # 12	3/4"	
350A	30A-3W	1	2 # 10	1 # 10	1 # 10	3/4"	
400A	40A-3W	1	2 # 8	1 # 8	1 # 10	1"	
450A	45A-3W	1	2 # 8	1 # 4	1 # 10	1"	
500A	50A-3W	1	2 # 6	1 # 4	1 # 10	1"	

600V FEEDER SCHEDULE 3Ø 3W							
LABEL	TYPE	SETS	PHASE	NEUTRAL	GROUND	CONDUIT	
20A	20A-3W	1	3 # 12	N/A	1 # 12	3/4"	
30A	30A-3W	1	3 # 10	N/A	1 # 10	3/4"	
40A	40A-3W	1	3 # 8	N/A	1 # 10	1"	
50A	50A-3W	1	3 # 6	N/A	1 # 10	1"	
60A	60A-3W	1	3 # 4	N/A	1 # 10	1"	
70A	70A-3W	1	3 # 4	N/A	1 # 8	1 1/4"	
80A	80A-3W	1	3 # 2	N/A	1 # 8	1 1/4"	
90A	90A-3W	1	3 # 2	N/A	1 # 8	1 1/4"	
100A	100A-3W	1	3 # 1	N/A	1 # 8	1 1/4"	
125A	125A-3W	1	3 # 1	N/A	1 # 6	1 1/2"	
150A	150A-3W	1	3 # 10	N/A	1 # 6	1 1/2"	
175A	175A-3W	1	3 # 20	N/A	1 # 6	2"	
200A	200A-3W	1	3 # 30	N/A	1 # 6	2"	
225A	225A-3W	1	3 # 40	N/A	1 # 4	2 1/2"	
250A	250A-3W	1	3 # 50KCM	N/A	1 # 4	2 1/2"	
300A	300A-3W	1	3 # 60KCM	N/A	1 # 4	3"	
350A	350A-3W	1	3 # 60KCM	N/A	1 # 2	4"	
400A	400A-3W	1	3 # 60KCM	N/A	1 # 2	4"	
450A	450A-3W	2	3 # 40	N/A	1 # 2	3"	
500A	500A-3W	2	3 # 60KCM	N/A	1 # 2	3"	
600A	600A-3W	2	3 # 60KCM	N/A	1 # 10	4"	
700A	700A-3W	2	3 # 60KCM	N/A	1 # 10	4"	
800A	800A-3W	2	3 # 60KCM	N/A	1 # 10	4"	
1000A	1000A-3W	3	3 # 60KCM	N/A	1 # 20	4"	
1200A	1200A-3W	3	3 # 60KCM	N/A	1 # 30	4"	
1500A	1500A-3W	4	3 # 60KCM	N/A	1 # 40	4"	
2000A	2000A-3W	5	3 # 60KCM	N/A	1 # 20KCM	4"	
2500A	2500A-3W	6	3 # 60KCM	N/A	1 # 30KCM	4"	
3000A	3000A-3W	8	3 # 60KCM	N/A	1 # 50KCM	4"	
4000A	4000A-3W	10	3 # 60KCM	N/A	1 # 50KCM	4"	

600V FEEDER SCHEDULE 3Ø 4W							
LABEL	TYPE	SETS	PHASE	NEUTRAL	GROUND	CONDUIT	
300A	20A-4W	1	3 # 12	1 # 12	1 # 12	3/4"	
350A	30A-4W	1	3 # 10	1 # 10	1 # 10	3/4"	
400A	40A-4W	1	3 # 8	1 # 10	1 # 10	1"	
450A	50A-4W	1	3 # 6	1 # 6	1 # 10	1"	
500A	60A-4W	1	3 # 4	1 # 4	1 # 10	1"	
600A	70A-4W	1	3 # 4	1 # 4	1 # 8	1 1/4"	
800A	80A-4W	1	3 # 2	1 # 2	1 # 8	1 1/4"	
900A	90A-4W	1	3 # 2	1 # 2	1 # 8	1 1/4"	
1000A	100A-4W	1	3 # 1	1 # 1	1 # 8	1 1/2"	
1250A	125A-4W	1	3 # 1	1 # 1	1 # 6	1 1/2"	
1500A	150A-4W	1	3 # 10	1 # 10	1 # 6	1 1/2"	
1750A	175A-4W	1	3 # 20	1 # 20	1 # 6	2"	
2000A	200A-4W	1	3 # 30	1 # 30	1 # 6	2"	
2250A	225A-4W	1	3 # 40	1 # 40	1 # 4	2 1/2"	
2500A	250A-4W	1	3 # 50KCM	1 # 50KCM	1 # 4	2 1/2"	
3000A	300A-4W	1	3 # 60KCM	1 # 60KCM	1 # 2	4"	
4000A	400A-4W	1	3 # 60KCM	1 # 60KCM	1 # 2	4"	
4500A	450A-4W	2	3 # 40	1 # 40	1 # 2	3"	
5000A	500A-4W	2	3 # 60KCM	1 # 60KCM	1 # 2	3"	
6000A	600A-4W	2	3 # 60KCM	1 # 60KCM	1 # 10	4"	
7000A	700A-4W	2	3 # 60KCM	1 # 60KCM	1 # 10	4"	
8000A	800A-4W	2	3 # 60KCM	1 # 60KCM	1 # 10	4"	
10000A	1000A-4W	3	3 # 60KCM	1 # 60KCM	1 # 20	4"	
12000A	1200A-4W	3	3 # 60KCM	1 # 60KCM	1 # 30	4"	
15000A	1500A-4W	4	3 # 60KCM	1 # 60KCM	1 # 40	4"	
20000A	2000A-4W	5	3 # 60KCM	1 # 60KCM	1 # 50KCM	4"	
25000A	2500A-4W	6	3 # 60KCM	1 # 60KCM	1 # 50KCM	4"	
30000A	3000A-4W	8	3 # 60KCM	1 # 60KCM	1 # 50KCM	4"	
40000A	4000A-4W	10	3 # 60KCM	1 # 60KCM	1 # 50KCM	4"	

AA-8000 ALUMINUM FEEDER SCHEDULE 600V FEEDER SCHEDULE 3Ø 3W							
LABEL	TYPE	SETS	PHASE	NEUTRAL	GROUND	CONDUIT	
3000A	100A-3W	1	3 # 10	N/A	1 # 6	2"	
3150A	150A-3W	1	3 # 30	N/A	1 # 4	2"	
3315A	175A-3W	1	3 # 40	N/A	1 # 4	2 1/2"	
3465A	200A-3W	1	3 # 50KCM	N/A	1 # 4	2 1/2"	
3615A	225A-3W	1	3 # 60KCM	N/A	1 # 2	2 1/2"	
3765A	250A-3W	1	3 # 60KCM	N/A	1 # 1	2 1/2"	

**AA-8000 ALUMINUM GENERAL NOTES:**

- ALL GROUND CONDUCTORS SHALL BE STRANDED COPPER.
- ALL CONDUIT SHALL BE EMT (INSTALLED IN INTERIOR



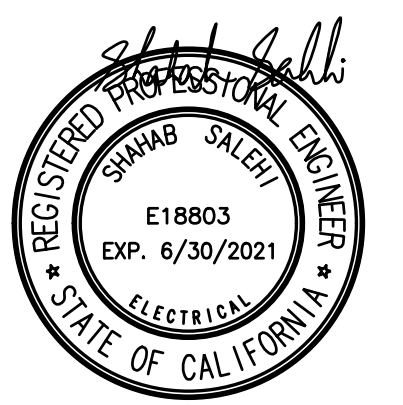
- KEY NOTES:**
- 1 EXISTING 3-WAY SECTIONALIZING CABINET #1. THIS SECTIONALIZING CABINET SHALL BE USED TO DE-ENERGIZE FEEDER TO TRANSFORMERS THAT ARE SCHEDULED TO BE REMOVED. ELECTRICAL CONTRACTOR TO REMOVE SKV FEEDERS (FEEDING BLDG. 700) AND ABANDON CONDUIT IN PLACE.
  - 2 AREA OF WORK.
  - 3 SKV PRIMARY FEEDER TO TRANSFORMER. SEE TRENCH DETAILS #2 ON SHEET E3.1.
  - 4 SECONDARY FEEDER FROM TRANSFORMER. SEE TRENCH DETAILS #1 ON SHEET E3.1.

APPROVED  
DIV. OF THE STATE ARCHITECT  
APP: 04-118941 INC.  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 12/04/2020

Revisions  
REVISIONS 11.16.2020

**IMPERIAL COMMUNITY  
COLLEGE DISTRICT  
BUILDING 700  
TRANSFORMER  
UPGRADE**

Drawn MJM  
Checked EB  
Project No. 192-037  
Date 2019.11.01

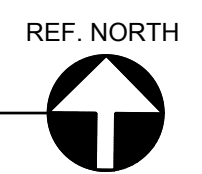


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OVERALL SITE PLAN

**E1.0**

1 OVERALL SITE PLAN  
1" = 100'-0"

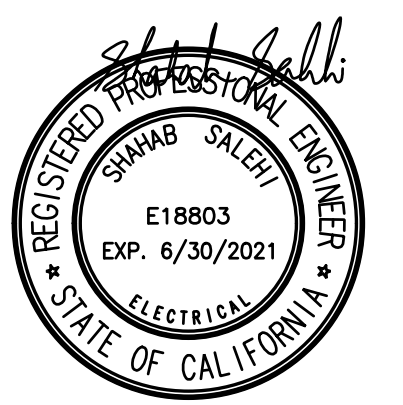


Revisions

REVISIONS 11.16.2020

**IMPERIAL COMMUNITY  
COLLEGE DISTRICT  
BUILDING 700  
TRANSFORMER  
UPGRADE**

Drawn	MJM
Checked	EB
Project No.	192-037
Date	2019.11.01



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ENLARGED PLANS

E1.1

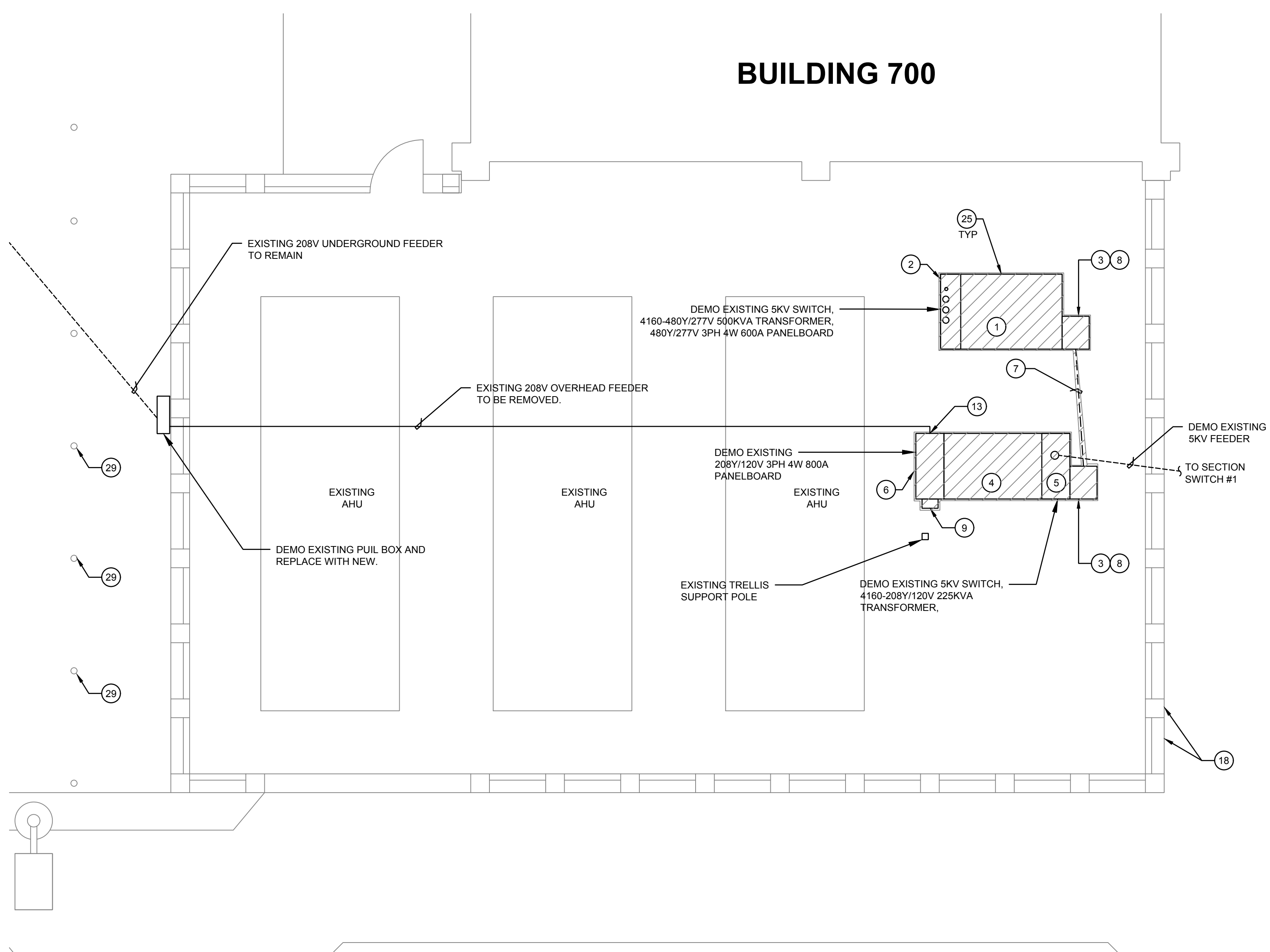
**GENERAL NOTES:**

- THE ONLY WAY TO REMOVE THE EXISTING EQUIPMENT AND INSTALL NEW ELECTRICAL EQUIPMENT IS TO REMOVE THE OVERHEAD TRELLIS AND LIFT THE ELECTRICAL EQUIPMENT OVER THE WALLS. CONTRACTOR SHALL PROVIDE CRANE TO PERFORM THE REMOVAL OF THE EXISTING AND INSTALLATION OF THE NEW EQUIPMENT AS NEEDED. REMOVE EXISTING TRELLIS AND REINSTALL TO MATCH EXISTING AFTER NEW EQUIPMENT HAS BEEN INSTALLED.
- WHEN 800V CONDUITS ARE CROSSING THE 5KV CONDUITS THE 600V CONDUITS MUST BE INSTALLED ABOVE THE 5KV CONDUITS.
- HATCHING INDICATES EQUIPMENT SCHEDULED FOR DEMOLITION.
- CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF THE OIL-FILLED TRANSFORMERS, SWITCHBOARDS AND ASSOCIATED MATERIAL THAT IS PART OF THE DEMOLITION.
- SCHEDULE AND COORDINATE ALL POWER OUTAGES WITH IVC FACILITIES BEFORE START OF ANY WORK.
- MAXIMUM HEIGHT OF THE NEW SWITCHBOARDS IS 72"

**KEY NOTES:**

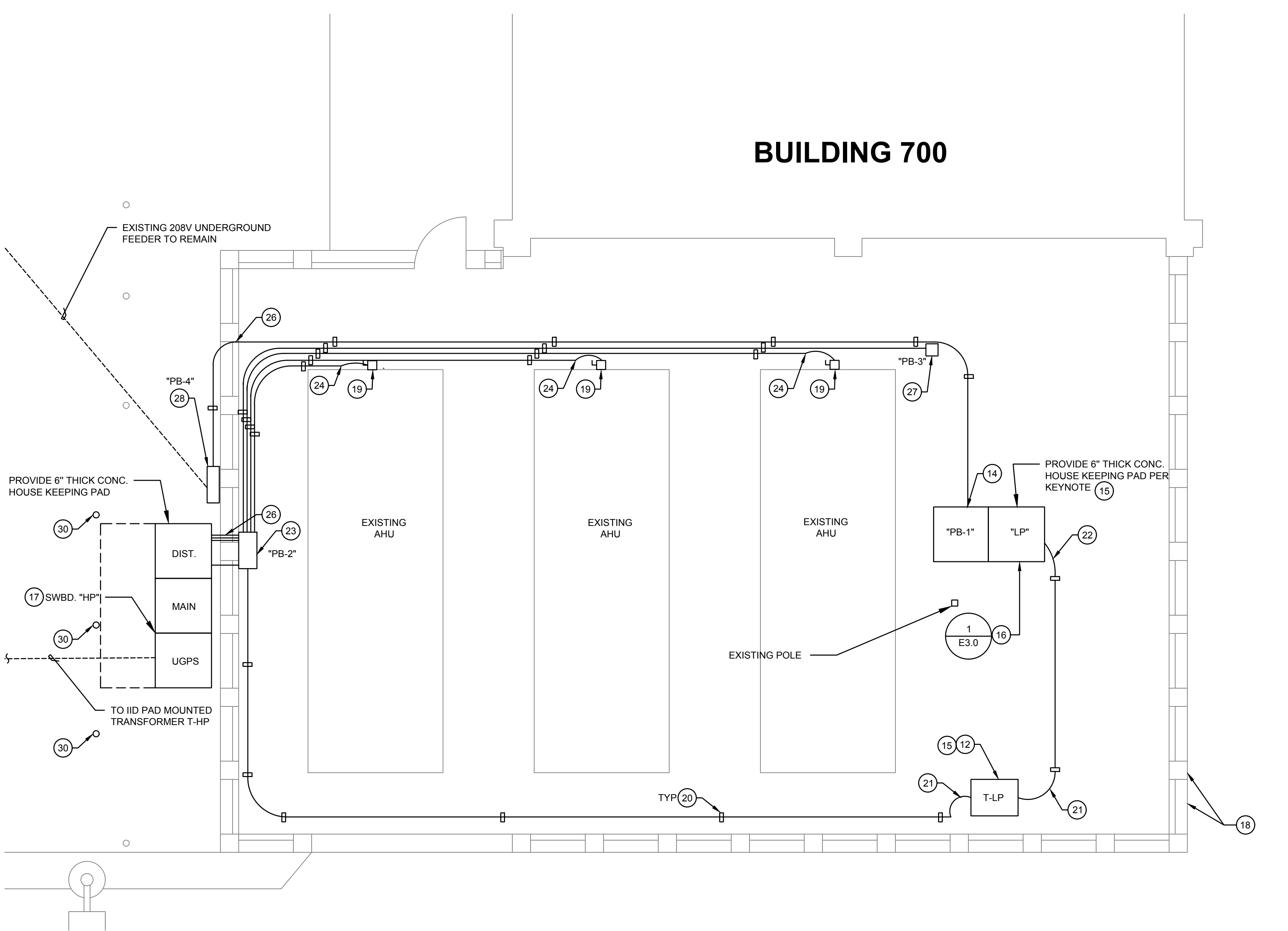
- REMOVE EXISTING 500KVA TRANSFORMER.
- REMOVE EXISTING 600A, 480Y/277V 3PH, 4W DISTRIBUTION BOARD.
- REMOVE EXISTING 5KV AIR SWITCH.
- REMOVE EXISTING 225KVA TRANSFORMER.
- REMOVE EXISTING PULLBOX FOR INCOMING 5KV FEEDER.
- REMOVE EXISTING 800A, 208Y/120V 3PH, 4W DISTRIBUTION BOARD.
- REMOVE EXISTING 5KV CONDUIT INTERCONNECT BETWEEN TRANSFORMERS.
- RETURN 5KV AIR SWITCH TO IVC FACILITIES.
- REMOVE EXISTING TIMECLOCK AND ASSOCIATED WIRES AND CONDUITS BACK TO PANEL.
- NOT USED.
- NOT USED.
- NEW 225KVA TRANSFORMER "T-LP", MAXIMUM WEIGHT 1,900LBS.
- DISCONNECT THE EXISTING FEEDER AND REMOVE EXISTING CONDUIT AND LB CONDUIT BODY.
- PROVIDE 48"W x 18"D x 72"H PULL BOX "PB-1" AND INTERCEPT THE EXISTING 208V FEEDERS. PROVIDE NEW UNDERGROUND CONDUITS FROM THE NEW PULL BOX TO NEW SWITCHBOARD "LP" AND EXTEND WIRES AS NEEDED.
- PROVIDE NEW 6" THICK CONCRETE SLAB (FLUSH WITH EXISTING SLAB) WITH #3 @ 18" ON CENTER EACH WAY AND 2" CLEAR. SEE DETAIL #2 ON SHEET E3.0.
- 800A, 208Y/120V 3PH, 4W DISTRIBUTION BOARD LP.
- 1000A 480Y/277V 3PH, 4W DISTRIBUTION BOARD.
- EXISTING PERMANENT METAL FENCE WITH CONCRETE/BRICK COLUMN.
- EXISTING ELECTRICAL FUSED DISCONNECT, CONNECT TO NEW FEEDER. SEE SINGLELINE DIAGRAM FOR MORE INFORMATION.
- PROVIDE CONDUIT SUPPORT BY COOPER B-LINE DB20 DURA-BLOK EVERY 12'-0" MAXIMUM SPACING. SECURE TO FLOOR.
- PROVIDE WATER SEAL-TIGHT FLEXIBLE CONDUIT FROM TRANSFORMER TO EMT CONDUIT.
- PROVIDE WATER SEAL-TIGHT FLEXIBLE CONDUIT FROM SWITCHBOARD TO EMT CONDUIT.
- PROVIDE 24"x14"x12" NEMA 3R PULLBOX.
- PROVIDE WATER SEAL-TIGHT FLEXIBLE CONDUIT FROM DISCONNECT TO EMT CONDUIT.
- PATCH & REPAIR CONCRETE TO MATCH EXISTING AS REQUIRED.
- DRILL EXISTING FENCE TO ALLOW FOR NEW CONDUITS.
- INTERCEPT AND SPLICE EXISTING 40A FEEDER IN 8x8x8 NEMA 3R PULLBOX. SECURE PULLBOX TO SLAB.
- PROVIDE 24"x24"x8 NEMA 3R PULLBOX, INTERCEPT AND SPLICE UNDERGROUND FEEDER AND ROUTE TO NEW PULLBOX "PB-1". CONNECT TO SWBD, "LP".
- DEMO EXISTING CONCRETE FILLED BOLLARD POST.
- PROVIDE NEW 4" DIAMETER X 42" CONCRETE FILLED BOLLARD POST TO MATCH EXISTING.

**BUILDING 700**



**1 ENLARGED PARTIAL SITE PLAN - DEMO**  
1/4" = 1'-0"

**BUILDING 700**

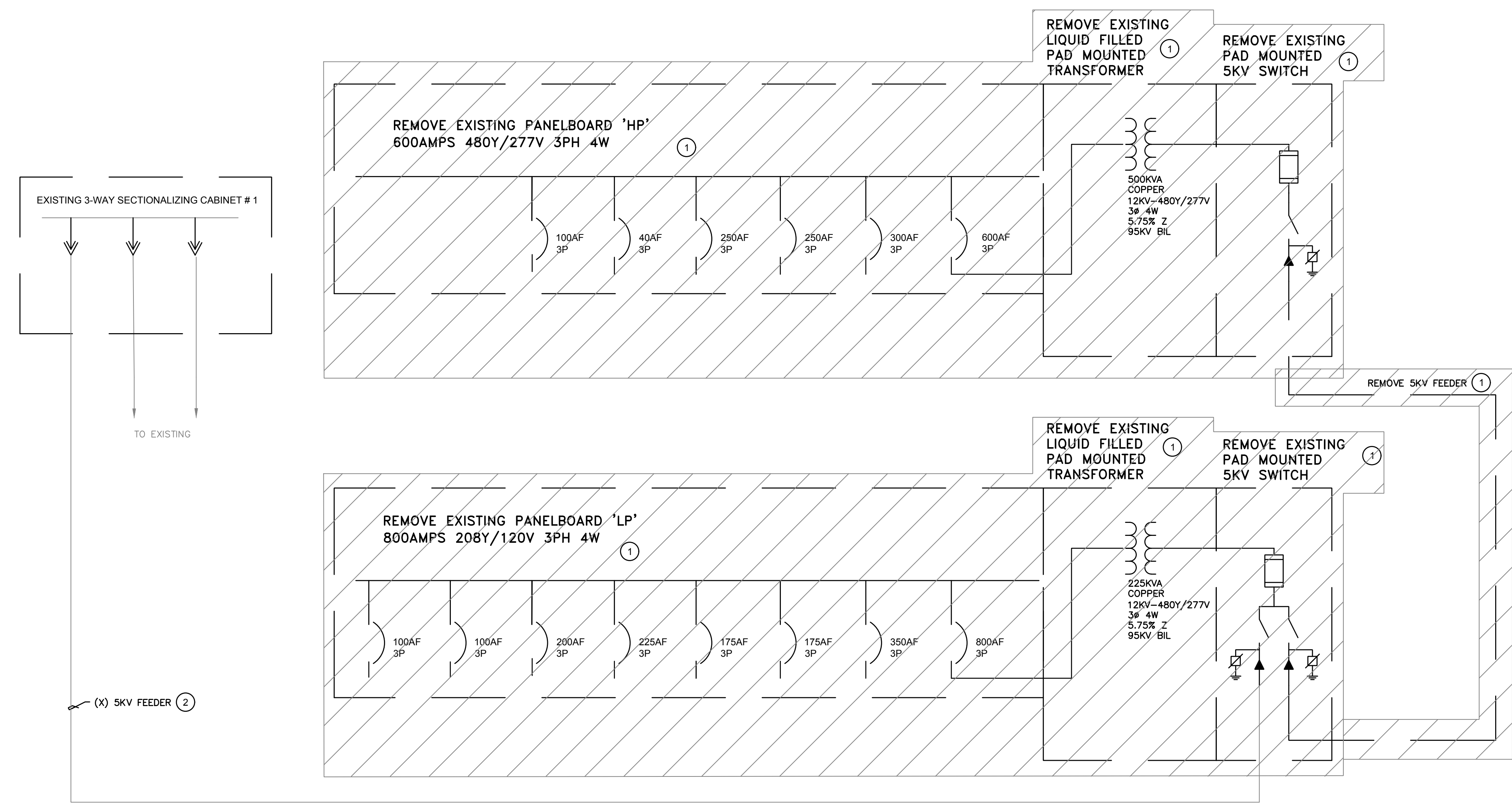


**2 ENLARGED PARTIAL SITE PLAN - NEW**  
1/4" = 1'-0"



**3 SITE PHOTO INFORMATION OF EQUIPMENT**  
SCALE: NONE

TRELLIS SHALL BE REMOVED AND STORED ON SITE FOR DURATION OF CONSTRUCTION. REINSTALL TRELLIS ONCE CONSTRUCTION IS COMPLETE. COORDINATE STORAGE LOCATION WITH FACILITY.



1 SINGLE LINE DIAGRAM - DEMO  
 NONE

- KEY NOTES:**
- REMOVE EXISTING 5KV SWITCHES, TRANSFORMERS, SWITCHBOARDS AND 5KV CABLE BETWEEN THE 5KV SWITCHES.
  - REMOVE EXISTING 5KV FEEDER CONDUCTORS AND ABANDON CONDUIT.
  - PROVIDE JENSEN PRECAST 48X48 PULLBOX MODEL PB4848836.
  - RECONNECT THE EXISTING SUB-FEEDERS TO THE NEW CIRCUIT BREAKERS. SPLICE WIRES INSIDE THE NEW PULL BOXES.
  - 1-1/2" - 1# 3/0 TO COLD WATER PIPE.  
3/4" - 1# 4 TO GROUND ROD.
  - PROVIDE (3) 1/2" AWG CU 15KV MV-105 EPR-1#4 B.C.G. IN 5' C.
  - INTERCEPT AND CONNECT TO EXISTING ELECTRICAL FUSED DISCONNECT. VERIFY EXACT LOCATION IN FIELD.
  - VERIFY FEEDER IN FIELD.
  - PROVIDE 24"x24"x8 NEMA 3R PULLBOX. INTERCEPT AND SPLICE UNDERGROUND FEEDER AND ROUTE TO NEW PULLBOX "PB-1". CONNECT TO SWBD. "LP".

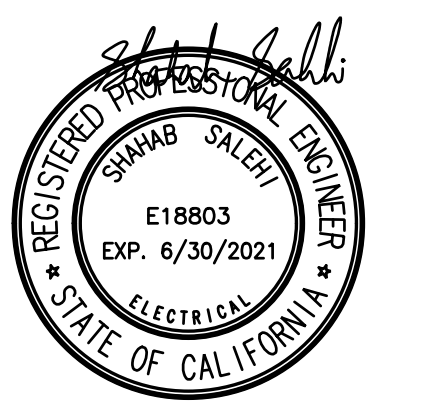
- GENERAL NOTES:**
- EACH TRANSFORMER SHALL USE THE NEAREST ELECTRODE AS THE SECONDARY GROUNDING SYSTEM. (I.E. BUILDING STEEL, COLD WATER PIPE).
  - ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.
  - ALL CONDUCTORS RATED 600V OR 250V SHALL HAVE "THW", "THHN" OR "THWN" INSULATION WITH EMT CONDUIT. UNLESS NOTED OTHERWISE.
  - ALL SWITCHGEAR AND EQUIPMENT SHALL BE FULLY RATED FOR THE AVAILABLE FAULT CURRENT.

Revisions

NO.	REVISIONS
1	REVISIONS 11.16.2020

**IMPERIAL COMMUNITY COLLEGE DISTRICT BUILDING 700 TRANSFORMER UPGRADE**

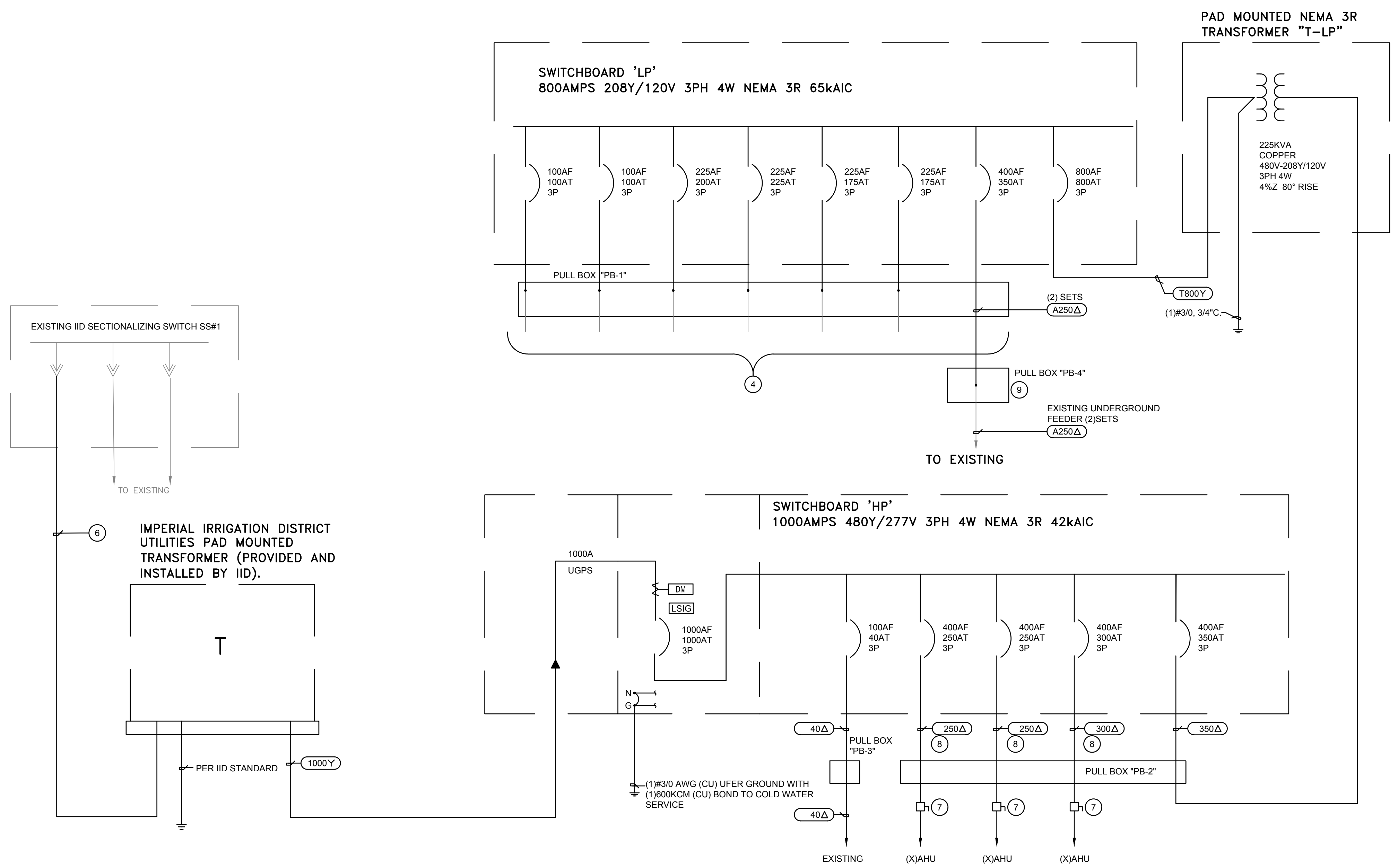
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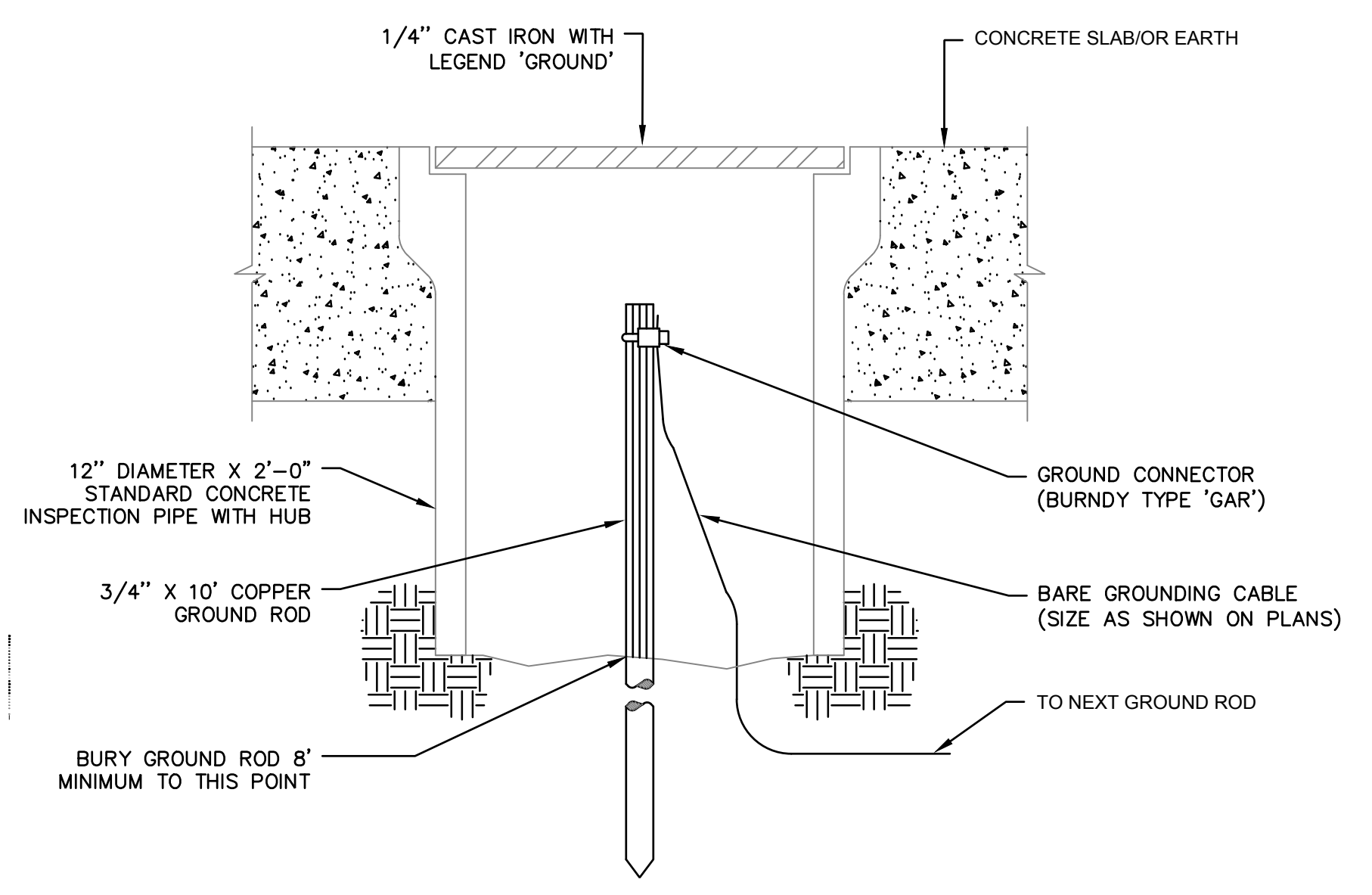
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**SINGLE LINE DIAGRAM**

**E2.0**



2 SINGLE LINE DIAGRAM - NEW  
 NONE



3 GROUND ROD DETAIL  
 NONE

**CONCRETE NOTES:**

- CONCRETE SHALL BE MIXED, PLACED AND CURED IN ACCORDANCE WITH ACI 318 AND ACI 301 LATEST EDITION, AND PROJECT SPECIFICATIONS.
- CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED SIX FEET. A SUFFICIENT NUMBER OF CHUTES OR TRUNKS SHALL BE USED TO ENSURE THE CONCRETE IS KEPT LEVEL AT ALL TIMES.
- STRUCTURAL CONCRETE SHALL MEET THE FOLLOWING DESIGN CRITERIA:

LOCATION	MIN 28-DAY COMP STRENGTH	CONCRETE TYPE	MAX AGGREGATE SIZE	MAX W/C RATIO
FOUNDATION	3000 PSI	NWC	1-1/2"	0.55
SLAB-ON-GRADE	4000 PSI	NWC	1"	0.50

- WHEN THE USE OF PLASTICIZER (ASTM C1017, TYPE I OR II) OR WATER REDUCER (ASTM C494, TYPE F OR G) IS USED, MAXIMUM SLUMP SHALL BE 4" PRIOR TO ADMIXTURE AND 8" INCLUDING ADMIXTURE AT THE POINT OF DELIVERY. IN THE ABSENCE OF PLASTICIZER AND WATER REDUCER, SLUMP AT THE POINT OF DELIVERY SHALL NOT EXCEED 4".
  - W/C RATIO INDICATES WATER TO CEMENTITIOUS MATERIALS RATIO.
  - SEE ACI 318 FOR ADDITIONAL REQUIREMENTS REGARDING MAXIMUM AGGREGATE SIZE, AGGREGATE GRADATION OF 3/8" MAXIMUM (PEA GRAVEL) SHALL NOT BE USED WHERE FINISHED CONCRETE SURFACE IS EXPOSED TO VIEW.
- CONCRETE MIX DESIGN AND TESTING SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE, AND SPECIFICATIONS. ALL CONCRETE MIXES SHALL BE DESIGNED PER ACI 318 SECTION 26.4.3 BY A RECOGNIZED TESTING LAB STAMPED AND SIGNED BY A LICENSED CALIFORNIA CIVIL ENGINEER AND SUBMITTED TO THE EOR FOR REVIEW PRIOR TO CONCRETE PLACEMENT. STRUCTURAL CONCRETE MIXES SHALL CONSIST OF 5 SACK MINIMUM UNO.
  - AGGREGATES IN NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33 (HARDROCK).
  - COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO DSA AND THE EOR.
  - PORTLAND CEMENT SHALL BE TYPE II AND SHALL CONFORM TO ASTM C150, LOW ALKALI. MILL TESTS WITH CERTIFICATES OF COMPLIANCE SHALL BE SUBMITTED.
  - FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618 CLASS F MAY BE USED AS A PARTIAL SUBSTITUTION FOR PORTLAND CEMENT UP TO A MAXIMUM OF 25% TOTAL CEMENTITIOUS MATERIALS BY WEIGHT IF THE MIX DESIGN IS PROPORTIONED BY FIELD EXPERIENCE OR TRIAL MIXTURES.
  - CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C94.
  - DRY-PACK OR NONSHRINK GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI, AND CONSIST OF MASTERFLOW 713, EUCON NS GROUT, SIKKA GROUT 212, OR APPROVED EQUAL. FOR THICK GROUT LAYERS FOLLOW MANUFACTURER'S GUIDELINES TO ATTAIN THE REQUIRED STRENGTH, WHICH MAY INCLUDE THE ADDITION OF PEA GRAVEL. FOR BASE PLATES LARGER THAN 6 SQUARE FEET, USE HI-FLOW GROUT OR MASTERFLOW 928.
  - DO NOT USE ANY CONCRETE OR GROUT CONTAINING CHLORIDES. WATER USED IN MIX SHALL BE CLEAN AND POTABLE.
  - MAINTAIN CONCRETE ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY EOR.
  - PROVIDE SLEEVES FOR ALL PIPES THROUGH CONCRETE WALLS AND FOOTINGS WHERE SHOWN ON THESE DRAWINGS. CORING IS NOT PERMITTED WITHOUT PRIOR APPROVAL BY THE EOR.
  - EXPOSED CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH 3/4" CHAMFER OR 1/2" RADIUS TOOLED EDGE, UNO.

**REINFORCING NOTES:**

- REINFORCING GRADES FOR CONCRETE:
  - ALL BARS UNLESS NOTED OTHERWISE.....ASTM A615 OR A706, GRADE 60
  - TIES AND STIRRUPS.....ASTM A615 OR A706, GRADE 60
 NOTE: ALL BARS SHALL BE DEFORMED.
- MAINTAIN CONCRETE COVER FROM FACE OF CONCRETE TO EDGE OF ALL REINFORCEMENT AS FOLLOWS (UNO):

CONDITION	COVER
CAST AGAINST & PERMANENTLY EXPOSED TO EARTH	3"
STRUCTURAL SLAB-ON-GRADE	
-FROM BOTTOM OF SLAB	2"
-FROM TOP OF SLAB	1-1/2"

- PROVIDE THE LARGEST COVER REQUIRED FOR ALL APPLICABLE CONDITIONS. WHERE #3 STIRRUPS OR TIES ARE USED, ENSURE THAT THE COVER FOR LONGITUDINAL BARS IS ADEQUATE.
- REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE". EACH REINFORCING BAR SHALL BE WIRED TO A CROSS BAR AT A MAXIMUM SPACING OF 24"OC. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING IN POSITIONS SHOWN ON THE PLANS. DO NOT USE WOOD OR BRICK TO SUPPORT REINFORCING.
  - ALL DOWELS, ANCHOR BOLTS AND OTHER HARDWARE TO BE SET IN CONCRETE SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. NO WET SETTING, STABBING, RODDING OR OTHER MOVEMENT OF EMBEDDED ITEMS SHALL BE PERFORMED DURING PLACEMENT OF CONCRETE.
  - BEND REINFORCING BARS COLD.
  - STEEL SHALL BE KEPT CLEAN AND FREE OF RUST.
  - DOWELS BETWEEN FOOTING AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE MAIN REINFORCING UNO.
  - ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN PLACE INSPECTION IS MADE.
  - CHAIRS OR SPACERS FOR REINFORCING SHALL BE PLASTIC WHEN RESTING ON EXPOSED SURFACES.
  - ALL BENDS WITHIN STIRRUPS, HOOPS, AND CROSS-TIES SHALL ENGAGE A LONGITUDINAL BAR. PROVIDE #4 SPACER BAR WHERE A LONGITUDINAL BAR IS NOT SPECIFICALLY DETAILED.

**FOUNDATION NOTES:**

- ALLOWABLE FOUNDATION VALUES BASED ON CODE MINIMUM (CBC TABLE 1806A.2).
- ALLOWABLE SOIL PRESSURES FOR FOOTINGS:  
DEAD LOAD + LIVE LOAD ..... 1500 PSF  
DEAD LOAD + LIVE LOAD + LATERAL LOAD ..... 2000 PSF
- ALLOWABLE LATERAL SOIL BEARING PRESSURE PER FOOT OF DEPTH ..... 100 PSF
- ALL EXCAVATIONS SHALL COMPLY WITH APPLICABLE OSHA REQUIREMENTS.
- POLE FOOTINGS ARE CENTERED UNDER COLUMNS, UNO.

**NEMA 3R FLAT ROOF ENCLOSURE**

**FLOOR ANCHOR PLAN**  
(TYPICAL INNER ENCLOSURE)

**VIEW "A"**

**NOTES:**

- (6) 1/2" DIA. SS HILTI KB-TZ W/ 2-1/2" EMBED. TYP @ SINGLE SWITCHBOARD. ON (E) 4" THICK SOG (ICC ESR 1917) TORQUE TEST TO 40FT-LBS. TEST 50% OF ANCHORS IN A GROUP. ANCHORS MUST ATTAIN REQUIRED TORQUE WITHIN 1/2 TURN OF THE NUT. LOCATE ANCHORS IN PRE-DRILLED PER SUPPLIER.
- (6) 1/2" DIA. SS HILTI KB-TZ W/ 3-3/4" EMBED. TYP @ EA OF (3) SECTIONS FOR EXTERIOR SWITCHBOARD ON CONC. PAD PER PLAN. SEE NOTE #1 FOR REMAINDER.

INNER ENCLOSURE DEPTH	DEPTH
24D	38.25
30D	44.25
36D	50.25
48D	62.25
54D	---
66D	---

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DATE	TITLE
DATE	TITLE
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DATE	TITLE

FEDERAL ID NO. PRODUCT CODE REVISION G.O. DWG SHEET

**1 600V SWITCHBOARD ANCHORING DETAIL (MAX. WEIGHT 600LBS)**  
NO SCALE

**KEY NOTES:**

- PAD MOUNTED TRANSFORMER
- 5/8" x 8' COPPER CLAD GROUND ROD
- GROUNDING ELECTRODE CONDUCTOR PER SINGLE LINE DIAGRAM.
- NEW CONCRETE PAD PER PLAN.

(1) ANCHOR EACH CORNER PER DETAIL.  
3 E3.0

**2 CONCRETE PAD LAYOUT FOR PAD MOUNT TRANSFORMER**  
NO SCALE

(4) 1/2" DIA. SS HILTI KB-TZ W/ 3-3/4" EMBED. TYP. (ICC ESR 1917) TORQUE TEST TO 40FT-LBS. TEST 50% OF ANCHORS IN A GROUP. ANCHOR MUST ATTAIN REQUIRED TORQUE WITHIN 1/2 TURN OF THE NUT.  
(1) ANCHOR EA HOLE PER SUPPLIER, (2) EACH SIDE (4) TOTAL.

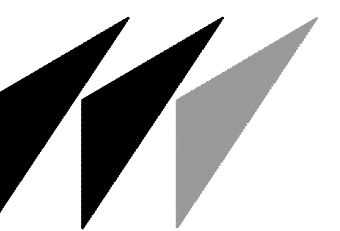
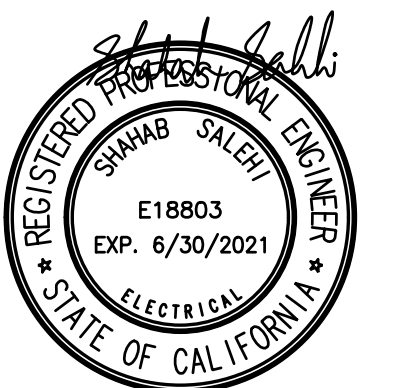
**3 ANCHORING DETAIL**  
NO SCALE

Revisions

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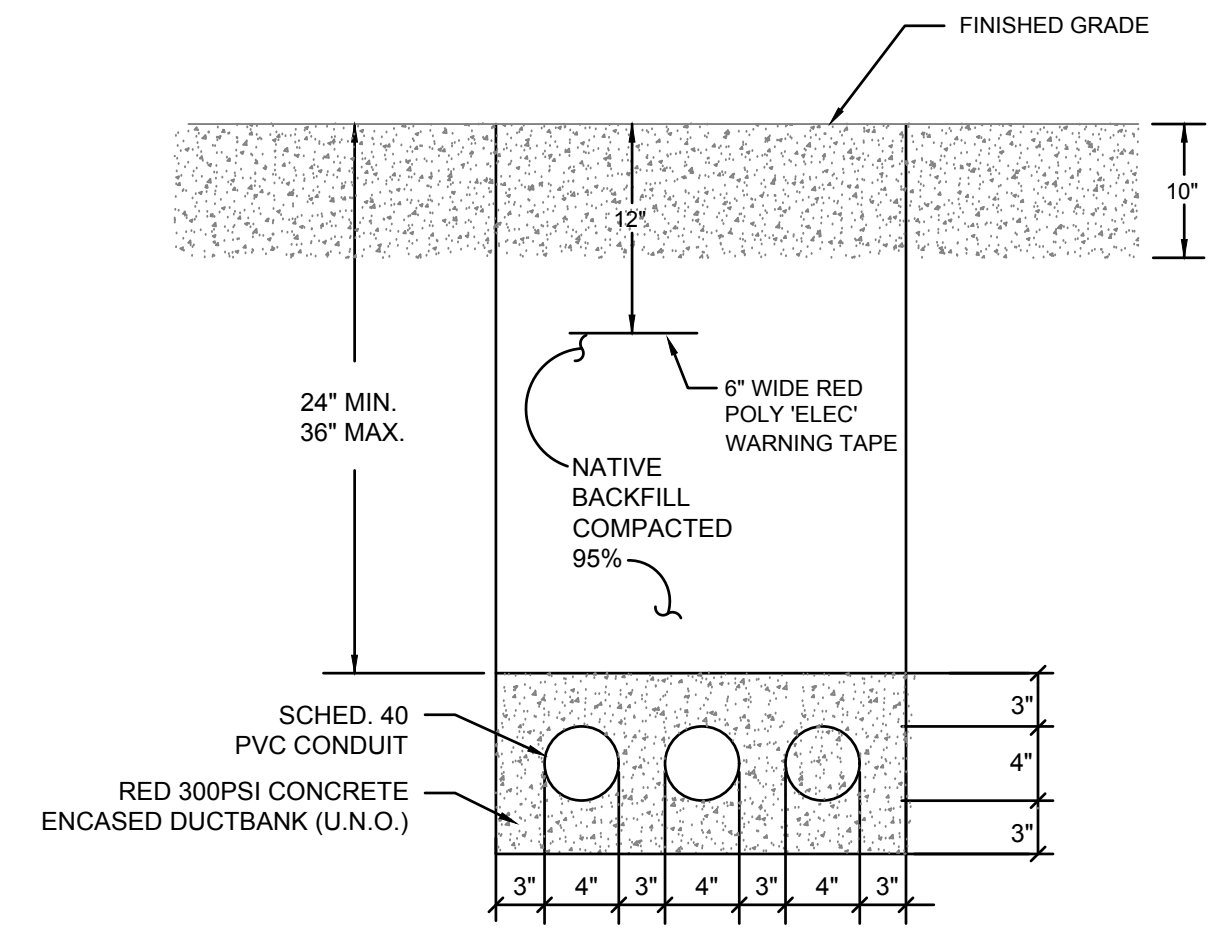


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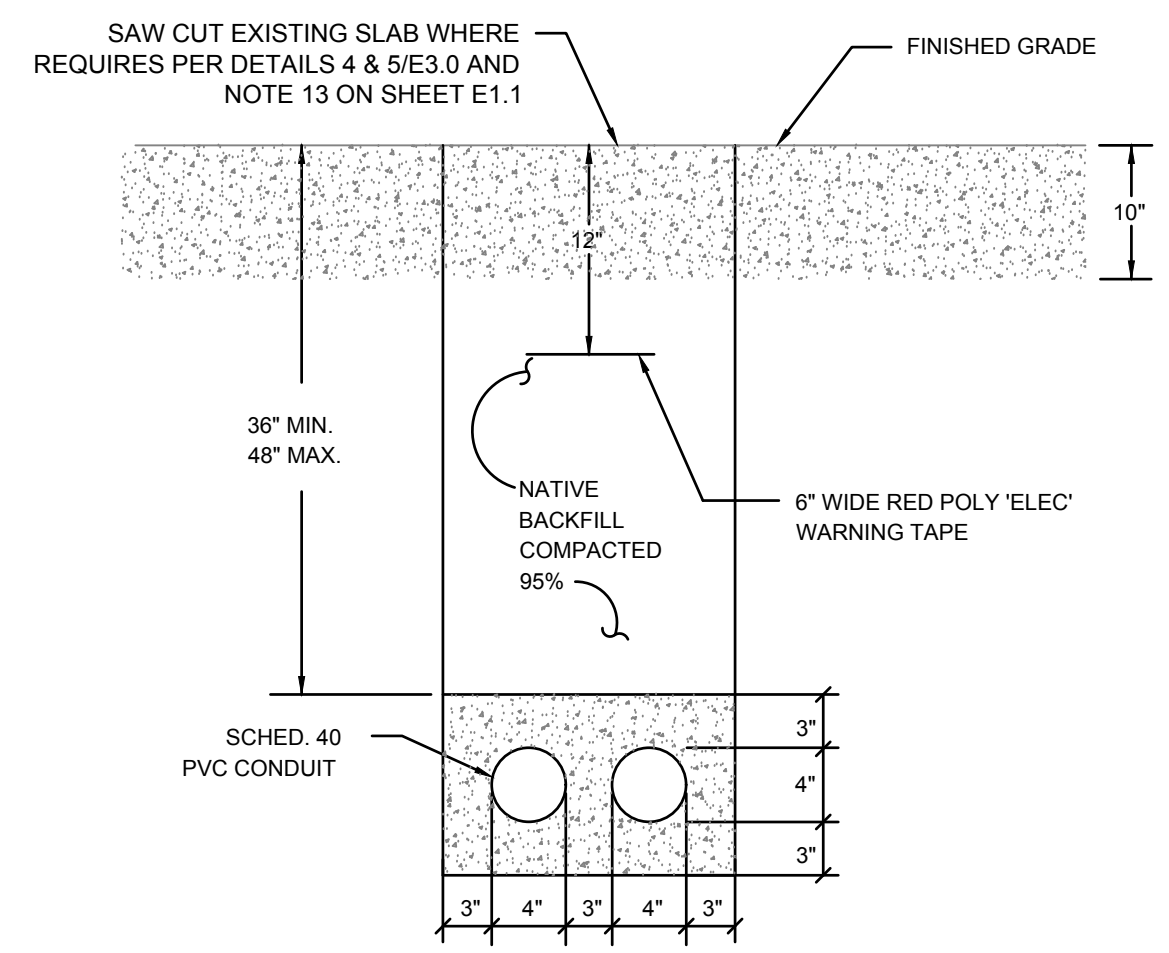
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**ELECTRICAL DETAILS**

**E3.0**



1 600V ELECTRICAL TRENCH DETAIL  
 NO SCALE



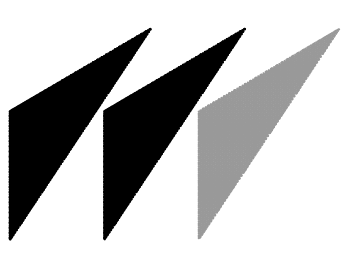
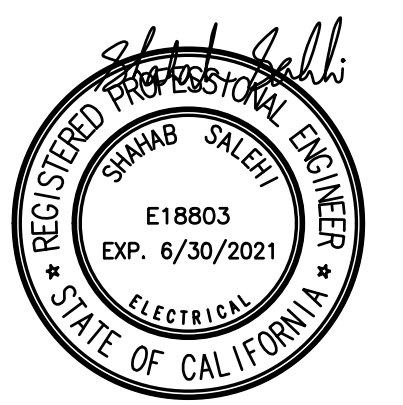
2 5KV ELECTRICAL TRENCH DETAIL  
 NO SCALE

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ELECTRICAL  
 DETAILS

E3.1