

## **DEMOLITION NOTES:**

- CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING FEEDER WIRE AND CONDUIT FROM 150A/3P CIRCUIT BREAKER IN BUSDUCT "CBW6A" TO EXISTING ATS "CATS1001C" LOCATED IN ELECTRICAL ROOM. (FOR EMERGENCY POWER CONTINUATION SEE DWG. ED-601)
- CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING FEEDER WIRE AND CONDUIT FROM 150A/3P CIRCUIT BREAKER IN BUSDUCT "CBW5A" TO EXISTING ATS "CATS1002B" LOCATED IN ELECTRICAL ROOM. (FOR EMERGENCY POWER CONTINUATION SEE DWG. ED-601)
- $\overline{3}$  SEE NOTES 15 AND 16 IN DWG. E-101.

## **CONSTRUCTION DOCUMENTS**

FINAL BID DOCUMENTS (15-411)	6/22/17
100% CONSTRUCTION DOCUMENTS (15-410)	6/15/17
100% DESIGN DEVELOPMENT (15-407)	5/12/17
50% DESIGN DEVELOPMENT (15-401)	4/13/17
100% SCHEMATIC DESIGN (15-391)	3/10/17
65% DESIGN DEVELOPMENT (15-354)	11/30/16
15% DESIGN REPORT (15-269)	5/5/16

Date

NO. E 10342 = EXP. 09/30/2016

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Drawing Title | ELECTRICAL NORMAL/EMERGENCY POWER DEMOLITION ONE LINE DIAGRAM SERVICE 1 AND SERVICE 2 Approved: Project Director

Project Title PAD B100/101 EMERGENCY POWER UPGRADE

P. LOPEZ

6/22/2017

640-15-158 Building Number B103A Drawing Number 3801 MIRANDA AVE, PALO ALTO, CA ED-602

M. CUELLAR

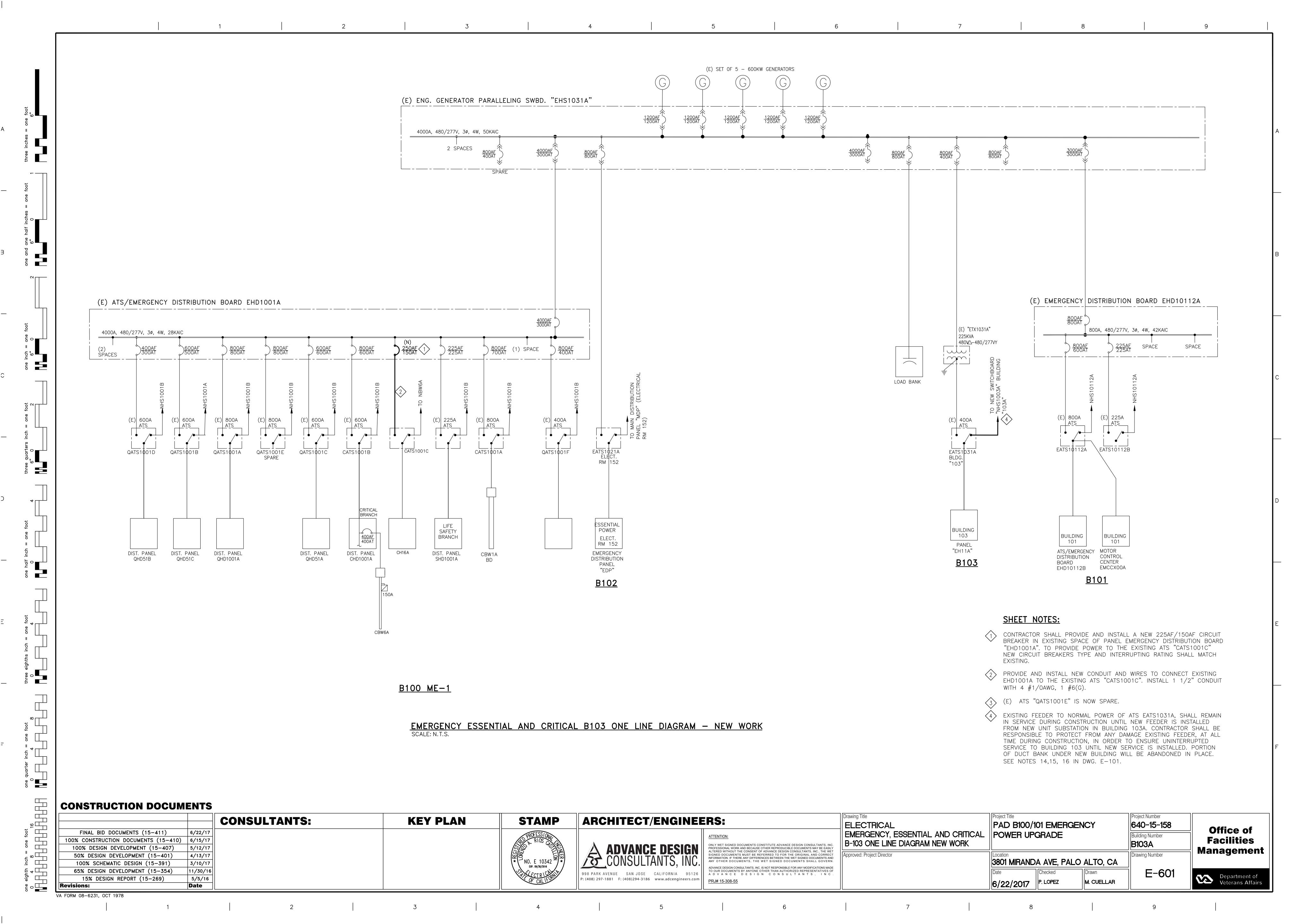
Project Number

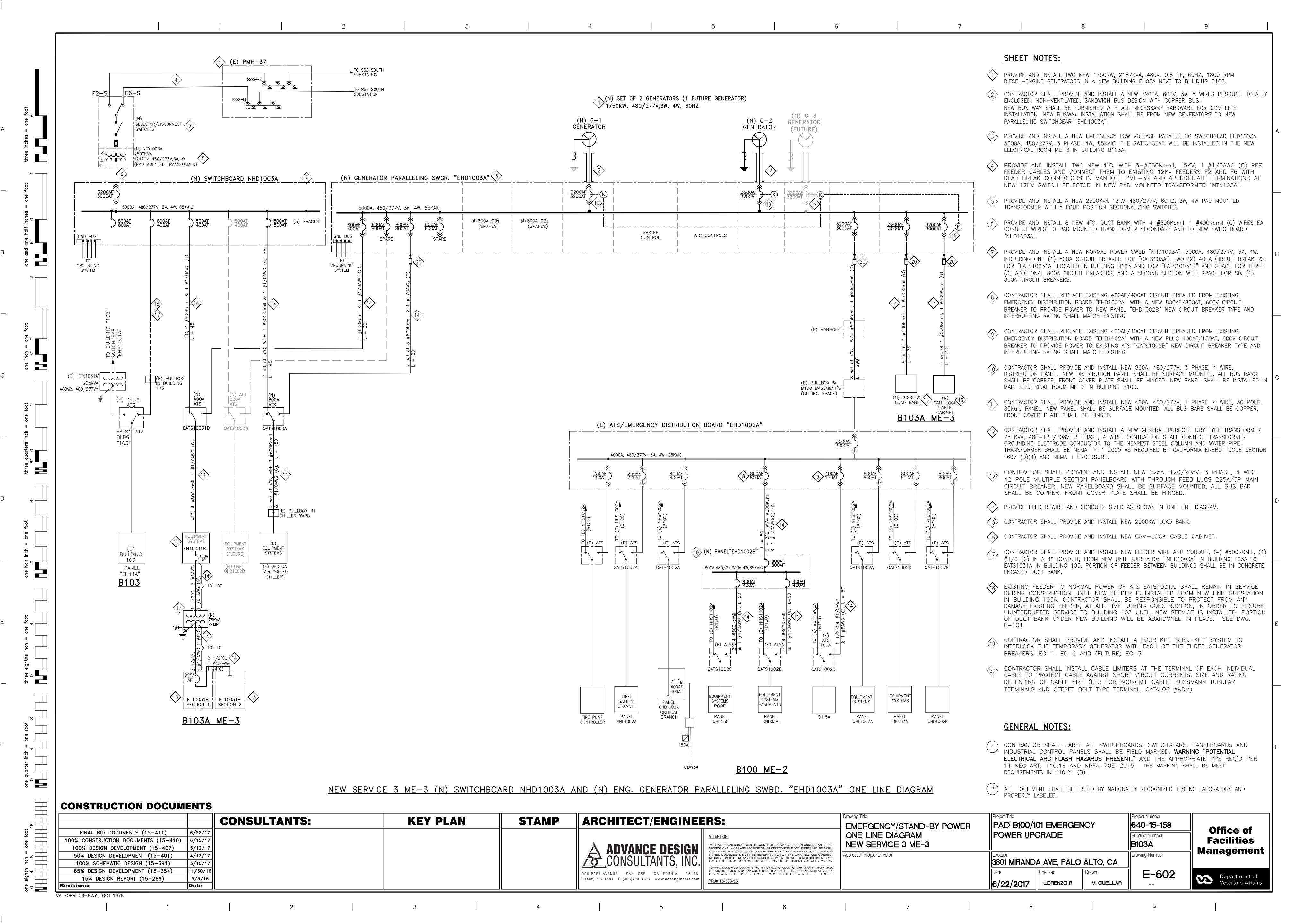
Office of **Facilities** Management

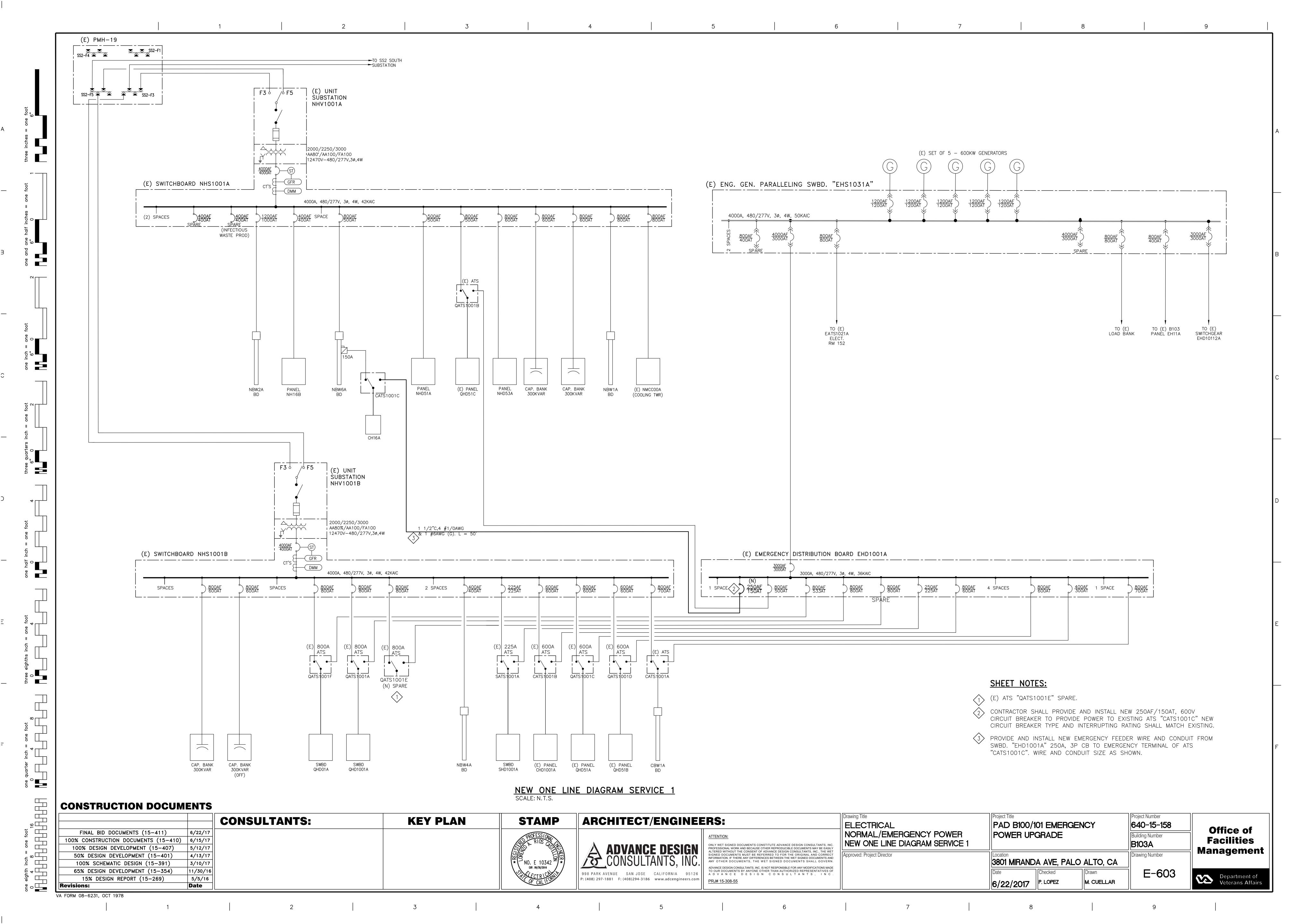
Department of Veterans Affairs

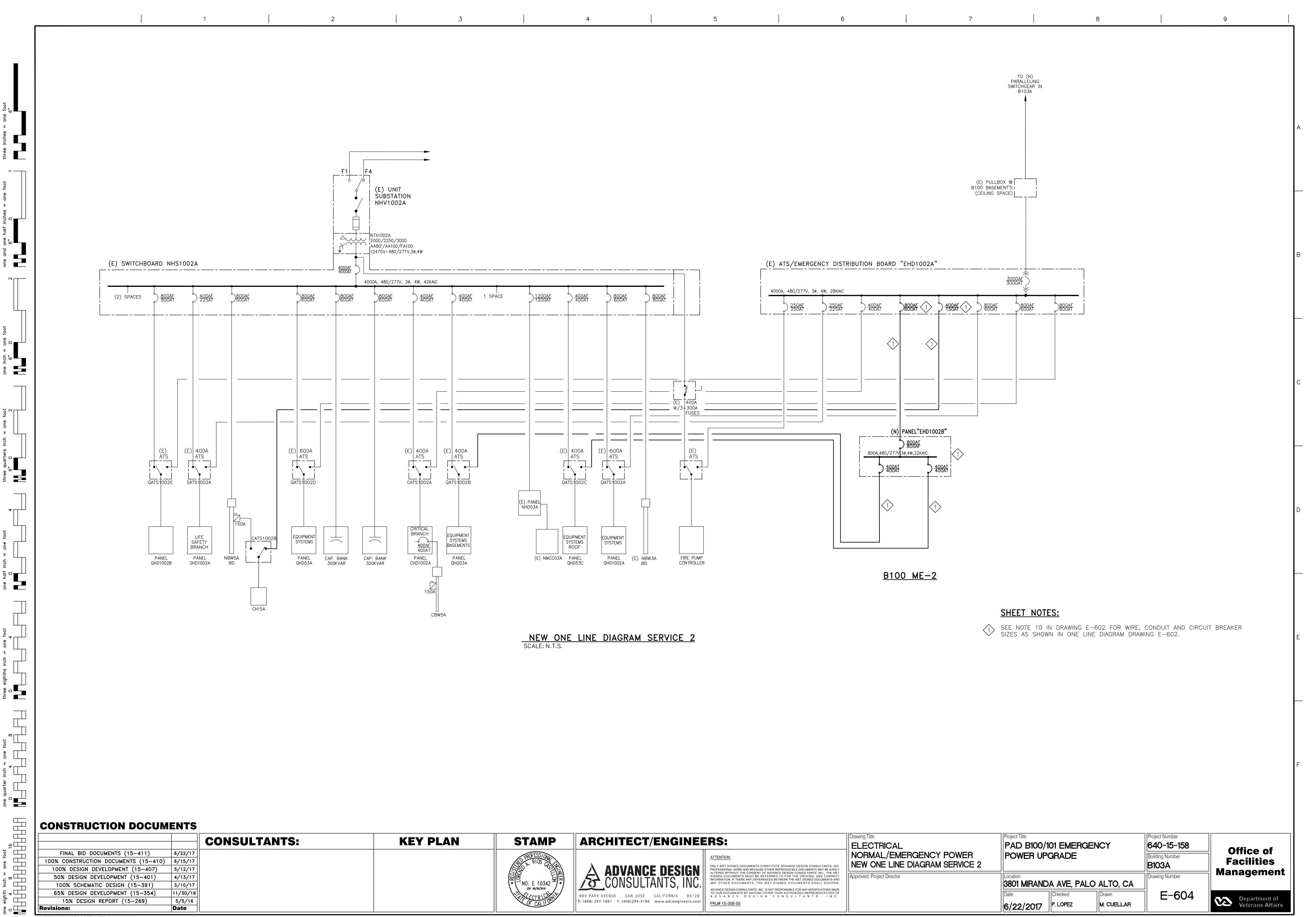
VA FORM 08-6231, OCT 1978

**Revisions:** 





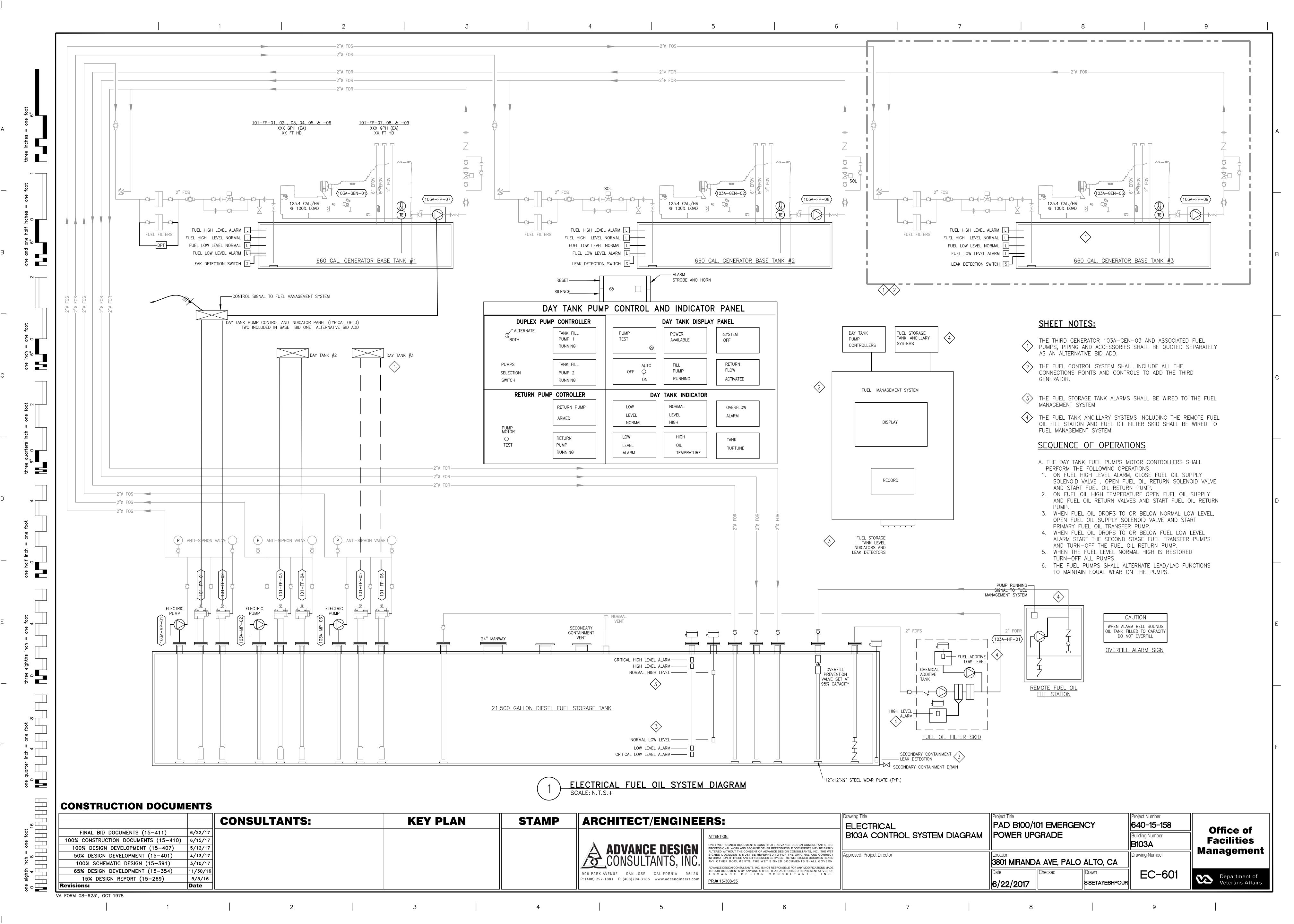




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VA FORM 08-6231, OCT 1978

2 3



		EH10031B													
Notes:	Supply From: Mounting:	Location: UNIT SUBSTATION 100 Supply From: Mounting: Surface Enclosure: Type 1					480/277 3 4	7 Wye			A.I.C. Rating: 85KAIC Mains Type: Mains Rating: 400 A MCB Rating: 400 A				
voies.				T		T		1							
СКТ	Circuit Description	n Trij	Poles		A		В		c	Poles	Trip	Circuit De	escription	CK	
1	PANEL "EL10031B" SECTION A/B VIA 75			2846						1	20 A	ELECTRICAL ROOM LIGHTIN	•	2	
3						2846	1266			1	20 A	GENERATOR ROOM LIGHTIN		4	
5								2743	680 VA	1	20 A	EXTERIOR LIGHTING		6	
7														8	
9														10	
11														12	
13														14	
15														16	
17														18	
19														20	
21														22	
23														24	
25														26	
27 29														28	
29		7	otal Load:	200	 92 VA	2073	 32 VA	2911	19 VA					30	
			otal Amps:		92 VA )5 A		8 A		2 A						
_egend:	:		,												
Load Classification		C	onnected	Load	Dei	mand Fa	ctor	Estimated Demand				Panel	Totals		
HVAC			2400 VA			100.00%	, 0		2400 VA						
ighting			2376 V	1		100.00%	, O		2376 VA			Total Conn. Load:	78544 VA		
Motor			559 VA			125.00%	, D		699 VA			Total Est. Demand:			
Other			53400 VA		10				53400 VA			Total Conn. Current:			
Recepta	cle		18000 V	4		77.78%			14000 VA		Tot	al Est. Demand Current:	90 A		

	Panel: EL100	31B- <i>A</i>	1											
Notes:	Location: UNIT SUBSTA Supply From: 75KVA XFMR Mounting: Surface Enclosure: Type 1	Volts: 120/208 Wye Phases: 3 Wires: 4							A.I.C. Rating: 22 Mains Type: Mains Rating: 225 A MCB Rating: 225 A					
СКТ	Circuit Description	Trip	Poles		A	E	В	(	C	Poles	Trip	Circuit De	escription	Ck
1	103A-EF-01 (ROOF)	30 A	1	1840	1250					1		BATTERY CHARGER		2
3	103A-EF-02 (ROOF)	20 A	1			373 VA	1250			1		BATTERY CHARGER		4
5	103A-EF-03 (ROOF)	15 A	1					187 VA	1250	1	20 A	BATTERY CHARGER		6
7	103A-SP-01 SUMP PUMP	15 A	1	559 VA	2050	0.15.1.1	105			1	30 A	BATTERY CHARGER BEST B		8
9	103A-FP-01, 02, CONTROL PANEL GENERATOR 1	15 A	2			910 VA	180 VA			1	20 A	103A-EF-01 SOLENOID VALV		1
11				040344	400344			910 VA	180 VA	1	20 A	103A-EF-02 SOLENOID VALV		1
13	103A-FP-03, 04 CONTROL PANEL GENERATOR 2	15 A	2	910 VA	180 VA	0403/4	0.1/4			1	20 A	103A-EF-03 SOLENOID VALV	E GENERATOR 3 (FUTURE)	1
15	1024 FD 05 07 CONTROL DANIEL CENEDATOR 2					910 VA	0 VA	040 \/A	0.1/4	1	20 A	Spare		1
17	103A-FP-05, 06 CONTROL PANEL GENERATOR 3	15 A	2	910 VA	0 VA			910 VA	0 VA	1	20 A	Spare		1
19 21	Chara	20 A	1	910 VA	UVA	0 VA	1200			1	20 A 20 A	Spare FILTRATION - 103A-DFS-01		2
23	Spare	20 A	1			UVA	1200	0 VA	1200	1	20 A	REMOTE FILL STATION - 103	Λ ΓΓC 01	2
25	Spare Spare	20 A	1	0 VA	1200			UVA	1200	1	20 A	LOAD BANK CTRL PANEL	A-FF3-UI	2
27	FUEL MANAGEMENT PANEL	20 A	1	UVA	1200	1200				'	20 A	LOAD DAINK CIRL FAINLL	VLL	
29	TOLL WANAGEWENT FANCE	20 A	1			1200			3000	2	40 A	103A-GEN-01 HEATER		3
31					3000				0000					3
33					0000		3000			2	40 A	103A-GEN-02 HEATER		3
35									3000					3
37					3000					2	40 A	103A-GEN-03 HEATER (FUTU	IRE)	3
39							3000						,	4
41	Space							0 VA	0 VA			Space		4
	, .	Tota	al Load:	2846	2 VA	2846	6 VA	2743	9 VA					
		Tota	l Amps:	238	8 A	239	9 A	229 A						
	l: lassification		nected I			mand Fa			nated De			Panel	Totals	
HVAC			2400 VA			100.00%			2400 VA			Total Court Last	70400 \/A	
Motor Other			559 VA 53400 V			125.00% 100.00%		,	699 VA 53400 VA			Total Conn. Load: Total Est. Demand:		
	acia		18000 V			77.78%			14000 VA			Total Est. Demand:		
Receptacle			10000 7/	`		11.1070			1-1000 VF	`	Tot	al Est. Demand Current:		
											101	ai Lat. Demand Currefit.	2017	
Notes:					•			•						

	Location: UNIT SUBS Supply From: EL10031B-A Mounting: Surface Enclosure: Type 1		2		ı	Volts: Phases: Wires:		8 Wye				A.I.C. Rating: 22KAIC Mains Type: Mains Rating: 225 A MCB Rating:		
Notes:														
СКТ	Circuit Description	Trip	Poles		A	E	3		C	Poles	Trip	Circuit De	escription	CK
1	Receptacle RM 1002	20 A	1		540 VA					1	20 A	Receptacle RM 1001		2
3	Receptacle RM 1002	20 A	1			720 VA	720 VA			1		Receptacle RM 1001		4
5	Receptacle RM 1002	20 A	1					900 VA	540 VA	1	20 A	Receptacle RM 1001		6
7	Receptacle RM 1004	20 A	1	540 VA	360 VA					1	20 A	Receptacle RM 1001		8
9	Receptacle RM 1003, 1004	20 A	1			720 VA	720 VA			1		Receptacle RM 1001		10
11	Receptacle RM 1003, 1004	20 A	1					720 VA	540 VA	1		Receptacle RM 1001		12
13	Receptacle RM 1003	20 A	1	720 VA	540 VA					1	20 A	ROOF RECEPTACLES		14
15	Receptacle RM 1003	20 A	1			720 VA	900 VA			1	20 A	Receptacle RM 1003		16
17	Receptacle RM 1003	20 A	1					540 VA	720 VA	1	20 A	Receptacle RM 1003		18
19	Receptacle GENERATOR BOX CONNECTOR	50 A	2	2700	720 VA					1	20 A	Receptacle RM 1003		20
21						2700	375 VA			2	15 A	103A-FP-07 GENERATO	R 1	22
23	103A-GEN-01 ENGINE JACKET	50 A	2					4500	375 VA					24
25				4500	375 VA					2	15 A	103A-FP-08 GENERATO	R 2	26
27	103A-GEN-02 ENGINE JACKET	50 A	2			4500	375 VA							28
29								4500	375 VA	2	15 A	103A-FP-09 GENERATO	R 3 (FUTURE)	30
31	103A-GEN-03 ENGINE JACKET (FUTURE)	50 A	2	4500	375 VA									32
33						4500								34
35														36
37														38
39														40
41														42
		Tot	al Load:	1644	15 VA	1680	5 VA	1356	7 VA					l
		Tota	l Amps:	14	1 A	144	1 A	11	3 A	l				
egeno	l: classification	Con	nected I	oad	Don	nand Fac	ctor	Estin	nated De	mand		Panel <sup>*</sup>	Totals	
Other			27000 V			100.00%			27000 VA			i alici		
Recepta	acle		18000 VA			77.78%			14000 VA			Total Conn. Load:	46817 VA	
						373						Total Est. Demand:		
												Total Conn. Current:		
											Tot	al Est. Demand Current:		
												-		
Notes:		1						1			1			

## CONSTRUCTION DOCUMENTS

	CONSULTANTS:	KEY PLAN	STAMP	ARCHITECT/ENGINEERS		Drawing Title:  ELECTRICAL	Project Title: PAD B100/101	EMERGENCY	Project Number: 640-15-158	
FINAL BID DOCUMENTS (15-411) 6/22/17 100% CONSTRUCTION DOCUMENTS (15-410) 6/15/16 100% DESIGN DEVELOPMENT (15-307) 05/12/17			PROFESSIONAL RIOS CASALA	ADVANCE DESIGN  ONLY WET SIG INC. PROFESSING MAY BE EASILY  ONLY WET SIG INC. PROFESSING MAY BE EASILY			POWER UPGRA	DE	Building Number: B103A	Office of Facilities
50% DESIGN DEVELOPMENT (15-401)       4/13/17         100% SCHEMATIC DESIGN (15-391)       3/10/17         65% DESIGN DEVELOPMENT (15-354)       11/30/16			NO. E 10342 **  EXP. 09/30/2018	CONSULTANTS, INC.  MAY BE EASILY CONSULTANTS, THE ORIGINAL BETWEEN THE SIGNED DOCUMENTS SIGNED SIGN	SILY ALTERED WITHOUT THE CONSENT OF ADVANCE DESIGN NTS, INC., THE WET SIGNED DOCUMENTS MUST BE REFERRED TO FOR VAL AND CORRECT INFORMATION. IF THERE ARE ANY DIFFERENCES THE WET SIGNED DOCUMENTS AND ANY OTHER DOCUMENTS, THE WET CUMENTS SHALL GOVERN.	Approved: Project Director	Location: 3801 MIRANDA AV	E, PALO ALTO, CA	Drawing Number:	Management
15% DESIGN DEVELOPMENT (13-334) 11/30/16 15% DESIGN REPORT (15-269) 5/5/16    Revisions: Date			OF CALLED	998 PARK AVENUE SAN JOSE CALIFORNIA 95126 P: (408) 287-1881 F: (408) 294-3186 www.adcengineers.com PO# 15-308-55	DESIGN CONSULTANTS, INC. IS NOT RESPONSIBLE FOR ANY IONS MADE TO OUR DOCUMENTS BY ANYONE OTHER THAN AUTHORIZED TATIVES OF ADVANCE DESIGN CONSULTANTS, INC.		Date 6/22/17	Checked Drawn  M. CUELLAR J. AGUIRRE	<b>E-701</b> Dwg. of	Department of Veterans Affairs

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