

Final Report - Approved

Application Number: UCDH-2023-0281-PAD-0003

Report Date: 05/14/2024

Description : Copy UCDH FDC Project Number (9559410) from parent record (UCDH-2023-0281)

Copy UCDH FDC Project Name (UC DAVIS HEALTH CANCER NET V2 UPGRADE 600A DISCONNECT INSTALLATION) from parent record (UCDH-2023-0281)

Address : , , ,

Record Type : UCDH Post Approval Document

Document Filename : Plan_9559410_2023-0281_ACD0001.pdf

Reviewer Contact Information:

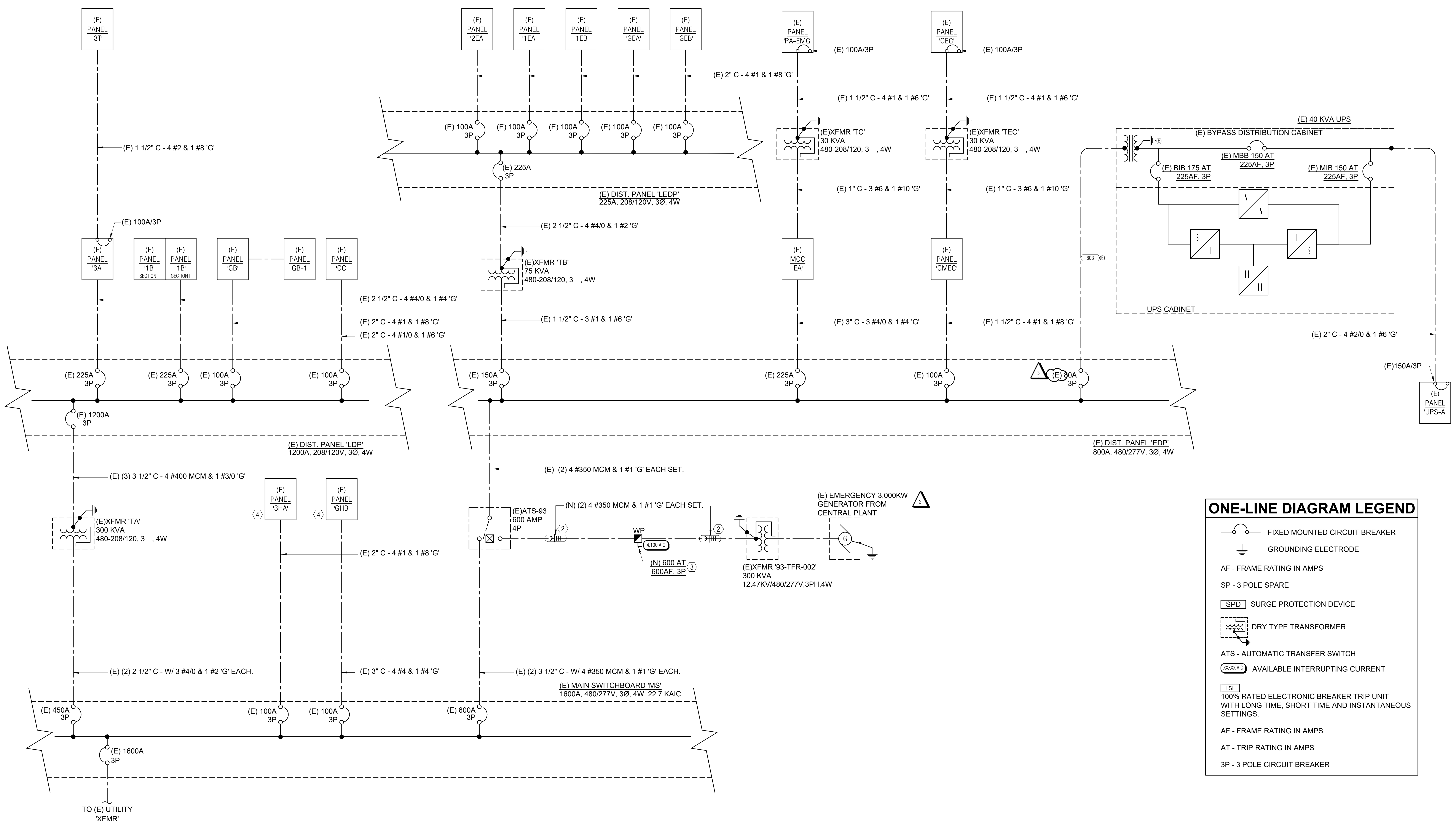
Reviewer Name	Reviewer Email	Reviewer Phone
Paul R. Menard AIA CBO	prmenard@ucdavis.edu	-
William Gilliland	wgilliland@ucdavis.edu	-

General Comments

Markups for this Approved Document or Plan

EXISTING COPPER FEEDER SCHEDULE					
FEEDER TAG	FEEDER DESCRIPTION	CONDUIT	CONDUCTORS		NOTES
			PHASE/NEUTRAL	GROUND	
803	80 AMP, 3 PHASE, 3 WIRE	1-1.25"	3 #3 AWG	1 #8 AWG	-

- ### NUMBERED NOTES
- NOT USED
 - NEW CONDUCTORS IN EXISTING (2) 3 1/2" CONDUITS.
 - NEW 600A/3P CIRCUIT BREAKER DISCONNECT. SEE TCC-PNL-EDP_1-3 ON SHEET E6.1 FOR SELECTIVE COORDINATION. LOCATE WITHIN 25FT OF TRANSFORMER LUGS (CONDUCTOR LENGTH).



ONE-LINE DIAGRAM LEGEND

- FIXED MOUNTED CIRCUIT BREAKER
- GROUNDING ELECTRODE
- AF - FRAME RATING IN AMPS
- SP - 3 POLE SPARE
- SPD - SURGE PROTECTION DEVICE
- DRY TYPE TRANSFORMER
- ATS - AUTOMATIC TRANSFER SWITCH
- XXXXX AIC - AVAILABLE INTERRUPTING CURRENT
- LSI - 100% RATED ELECTRONIC BREAKER TRIP UNIT WITH LONG TIME, SHORT TIME AND INSTANTANEOUS SETTINGS.
- AF - FRAME RATING IN AMPS
- AT - TRIP RATING IN AMPS
- 3P - 3 POLE CIRCUIT BREAKER

1 PARTIAL ONE-LINE DIAGRAM
NO SCALE

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
REVIEWED FOR CODE COMPLIANCE:
The set of plans and specifications must be kept on the job site at all times and be subject to review and approval by the Building Department.
The approval of this plan and specification (S) shall not be held to permit or require the violation of any University Policy or State Building Code.
BY: Paul R. Menard AIA CBO DATE: 05/11/2024
PROJECT #: UCDA-2023-0381-PAD-0005
UC Davis Health
Sacramento, CA 95817

CERTIFIED BUILDING OFFICIAL:
OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
William Gililand
for
UCDH Lead DCFM
DATE: 05/14/2024
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

DESIGNATED CAMPUS FIRE MARSHAL:

ECOM
ENGINEERING
1455 RESPENSE ROAD, SUITE 140
SACRAMENTO, CA, 95815
916.641.5600
916.641.1640 FAX
WWW.ECOMENG.COM
JOB NO: 17-1153.01 PK: JM
DESIGNERS:
DRAWN BY:
DESIGN PROFESSIONALS OF RECORD: 4/22/24

UC DAVIS HEALTH
Facilities Design & Construction
4800 2nd AVENUE, SUITE 2010
SACRAMENTO, CALIFORNIA 95817
(916)734-7034

REV	REVISION DESCRIPTION	DATE
2	BACK CHECK 3	11/27/2023
3	ACD-0001	4/19/2024

CONSULTANT LOG:

CONSTRUCTION DOCUMENTS

PROJECT # 9559410
UNIVERSITY OF CALIFORNIA, DAVIS
MEDICAL CENTER, SACRAMENTO
BUILDING: CANCER CENTER BUILDING #93
FLOOR: FIRST FLOOR
SHEET TITLE: CANCER CENTER NET V2 UPGRADE
600A DISCONNECT INSTALLATION
SHEET TYPE: PARTIAL ONE-LINE DIAGRAM

ARCH / ENGR: ECOM	FSBC JOB NO: 9559410	SCALE: AS SHOWN	E5.1
UCDMC PROJECT MANAGER: KEN PICKETT	DATE: SEPT. 27, 2023	CAD FILE	

LOAD VERIFICATION - PANEL 'GEC'			
LOCATION	FED FROM	FEEDER SIZE	OC PROTECTION
TELE/ELEC #0161	(E) PANEL 'GMEC'	(E) 1 1/2" C - 4 #1 & 1 #6 'G'	100A/3P
EMERGENCY BRANCH MAXIMUM DEMAND LOAD			
			LOAD IN KVA
(E) LOAD			7.20
ADDED 25%			1.80
REMOVED LOAD			0.00
SUBTOTAL			9.00
ADDED LOAD			0.22
TOTAL PANEL KVA LOAD			9.22
TOTAL PANEL AMPS LOAD			25.61

LOAD VERIFICATION - DIST PANEL 'EDP'			
LOCATION	FED FROM	FEEDER SIZE	OC PROTECTION
ELECTRICAL ROOM	EXISTING MAIN SWITCHBOARD	(E) (2) 3 1/2" C - W/ 4 #3/8 MCM & 1 #1 'G' EACH	500A/3P
EMERGENCY BRANCH 30 DAY DEMAND LOAD (3-20-2023_4-21/2023)			
			LOAD IN KVA
(E) LOAD			42.41
ADDED 25%			10.60
REMOVED LOAD			2.36
SUBTOTAL			50.66
ADDED LOAD			1.04
TOTAL PANEL KVA LOAD			51.70
TOTAL PANEL AMPS LOAD			62.21

LOAD VERIFICATION - PANEL 'PA-EMG'			
LOCATION	FED FROM	FEEDER SIZE	OC PROTECTION
PENTHOUSE	(E) PANEL 'EA'	(E) 1 1/2" C - 4 #1 & 1 #6 'G'	100A/3P
EMERGENCY BRANCH MAXIMUM DEMAND LOAD			
			LOAD IN KVA
(E) LOAD			7.20
ADDED 25%			1.80
REMOVED LOAD			0.00
SUBTOTAL			9.00
ADDED LOAD			0.22
TOTAL PANEL KVA LOAD			9.22
TOTAL PANEL AMPS LOAD			25.61

BRANCH CIRCUIT LOAD SUMMARY						
NOTE: ALL LOADS SHOWN ARE EXPRESSED IN KVA. UNLESS OTHERWISE NOTED.						
ALL CIRCUIT BREAKERS SHOWN ARE 20A/1P UNLESS OTHERWISE NOTED.						
PANEL/BRANCH VOLTAGE	CIRCUIT NO.	EXISTING LOAD	REMOVED LOAD	ADDED LOAD	NEW LOAD	NEW LOAD (AMPS)
PANEL 'GEA' EMERGENCY 208/120V 100 AMPS	25	0.36	0.00	0.18	0.54	4.50
	*27/29	2.36	2.36	0.67	≤	≤
			2.36	0.85		
PANEL 'GEC' EMERGENCY 208/120V 100 AMPS	9	0.00	0.00	0.22	0.22	1.83
PANEL 'PA-EMG' EMERGENCY 208/120V 100 AMPS	22	0.00	0.00	0.22	0.22	1.83
DIST. PANEL 'EDP' EMERGENCY 480/277V 800 AMPS	8/10/12	25.77	0.00	0.00	25.77	71.58
PANEL 'SEA' EMERGENCY 208/120V 100 AMPS	11	0.64	0.00	0.60	1.24	10.33

PROJECT: UCDCM CANCER CENTER		EXISTING																																			
LOCATION: FILM STORAGE 0109		UPS- 'A'																																			
LOAD DESCRIPTION	CONT.	RECP.	NON	TRIP	POLE	#	AB	CB	TRIP	POLE	#	AB	CB	TRIP	POLE	#	AB	CB	TRIP	POLE	#	AB	CB	LOAD DESCRIPTION	CONT.	RECP.	NON	TRIP	POLE	#	AB	CB	TRIP	POLE	#	AB	CB
3 RECEPT. TR 0108A	1.67				30	3			4	30	3			1.67										RECEPT. TR 1009C													
13 RECEPT. TR 0108A	0.36				20	1			13															SPACE													
15 RECEPT. TR 0108A	0.36				20	1			15															SPACE													
17 SPACE									17															SPACE													
19 SPACE									19															SPACE													
21 SPACE									21															SPACE													
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39 SPACE									39															SPACE													
41 SPACE									41															SPACE													
TOTALS	10.02	0.72												10.02									TOTALS														
VOLTAGE: 120/208V, 3 PH, 4W		CONNECT DEMAND DEMAND		LOAD (KVA) FACTOR LOAD (KVA)		LOAD (KVA) FACTOR LOAD (KVA)		LOAD (KVA) FACTOR LOAD (KVA)		LOAD (KVA) FACTOR LOAD (KVA)		LOAD (KVA) FACTOR LOAD (KVA)		LOAD (KVA) FACTOR LOAD (KVA)		LOAD (KVA) FACTOR LOAD (KVA)		LOAD (KVA) FACTOR LOAD (KVA)		LOAD (KVA) FACTOR LOAD (KVA)		LOAD (KVA) FACTOR LOAD (KVA)		LOAD (KVA) FACTOR LOAD (KVA)		LOAD (KVA) FACTOR LOAD (KVA)		LOAD (KVA) FACTOR LOAD (KVA)		LOAD (KVA) FACTOR LOAD (KVA)		LOAD (KVA) FACTOR LOAD (KVA)		LOAD (KVA) FACTOR LOAD (KVA)			
A.C. 14,000		0.72 x CEC DEMAND = 0.72		← RECEPTACLES		← RECEPTACLES		← RECEPTACLES		← RECEPTACLES		← RECEPTACLES		← RECEPTACLES		← RECEPTACLES		← RECEPTACLES		← RECEPTACLES		← RECEPTACLES		← RECEPTACLES		← RECEPTACLES		← RECEPTACLES		← RECEPTACLES		← RECEPTACLES		← RECEPTACLES			
MOUNTING SURFACE		x 1.00 =		← MOTOR-IN-LARGEST		← MOTOR-IN-LARGEST		← MOTOR-IN-LARGEST		← MOTOR-IN-LARGEST		← MOTOR-IN-LARGEST		← MOTOR-IN-LARGEST		← MOTOR-IN-LARGEST		← MOTOR-IN-LARGEST		← MOTOR-IN-LARGEST		← MOTOR-IN-LARGEST		← MOTOR-IN-LARGEST		← MOTOR-IN-LARGEST		← MOTOR-IN-LARGEST		← MOTOR-IN-LARGEST		← MOTOR-IN-LARGEST		← MOTOR-IN-LARGEST			
BUSING: 200 AMP BUSING		0.76 KVA		0.67 Amps		25.77 KVA		71.58 Amps		71.58 Amps		71.58 Amps		71.58 Amps		71.58 Amps		71.58 Amps		71.58 Amps		71.58 Amps		71.58 Amps		71.58 Amps		71.58 Amps		71.58 Amps		71.58 Amps		71.58 Amps			
MAIN: 150 AMP MAIN BRKR.																																					
ADDITIONAL FEATURES:		CEC 220.44 DEMAND: 1st 10 KVA AT 100%; REMAINING AT 50%.																																			

ELECTRICAL EQUIPMENT SCHEDULE									
EQUIPMENT NAME	DESCRIPTION	OSHPD OSP #	MANUFACTURER/MODEL	HEIGHT (IN.)	WIDTH (IN.)	DEPTH (IN.)	MOUNTING	WEIGHT (LBS)	DETAIL DWG
DISC. ATS 93	600AMP DISCONNECT	OSP-0064	SQUARED	59.6	20.4	8.2	FREE STANDING	140.0	1/E7.0

UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
 REVIEWED FOR CODE COMPLIANCE:
 The set of plans and specifications must be kept on the job site at all times and be subject to review and approval by the Building Department.
 The reviewer of this plan and specification SHALL NOT be held in person or otherwise responsible for any University Policy or State Building Code.
 BY: Paul R. Menard AIA CBO DATE: 05/11/2024
 PROJECT #: UCDCM-2023-001-PA0-0005
 UC Davis Health
 Sacramento, CA 95817

CERTIFIED BUILDING OFFICIAL:
 OFFICE OF THE STATE FIRE MARSHAL
 APPROVED FIRE AND PANC ONLY
 William Gilliland
 for
 UCDCM Lead DCFM
 DATE: 05/14/2024
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

DESIGNATED CAMPUS FIRE MARSHAL:
ECOM ENGINEERING
 1455 RESPENSE ROAD, SUITE 140
 SACRAMENTO, CA 95815
 916.641.5600
 916.641.1640 FAX
 WWW.ECOMENG.COM
 JOB NO. 17-153.01 PK. JM
 DESIGNER: ECOM
 DRAWN BY: ECOM
 DESIGN PROFESSIONALS OF RECORD: 4/22/24

UC DAVIS HEALTH
 FACILITIES DESIGN & CONSTRUCTION
 4800 2nd AVENUE, SUITE 2010
 SACRAMENTO, CALIFORNIA 95817
 (916)734-7034

CONSULTANT LOG:
 REV 3 ACD-0001 REVISION DESCRIPTION DATE 4/19/2024

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 MEDICAL CENTER, SACRAMENTO
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 FLOOR: FIRST FLOOR
 PRODUCT TITLE: CANCER CENTER NET V2 UPGRADE
 600A DISCONNECT INSTALLATION
 SHEET TITLE: LOAD CALC'S & SCHEDULES

ARCH / ENGR: ECOM 9559410
 UCDCM PROJECT MANAGER: KEN PICKETT SCALE: AS SHOWN **E6.0**
 DESIGNED BY: DATE: SEPT. 27, 2023
 DRAWN BY: CAD FILE SHEET OF

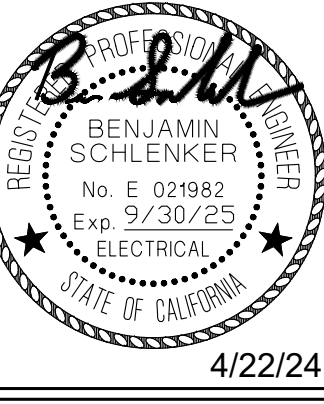
UC DAVIS HEALTH BUILDING DEPARTMENT
APPROVED
 REQUIRED FOR CODE COMPLIANCE
 The set of plans and specifications must be kept on the job site at all times and be subject to review and approval or disapproval by the department.
 No other person shall be permitted to modify or alter the approved plans.
 The accuracy of this plan and specification SHALL NOT be held to permit or excuse the violation of any University Policy or State Building Code.
 BY: Paul R. Menard AIA CBO DATE: 05/11/2024
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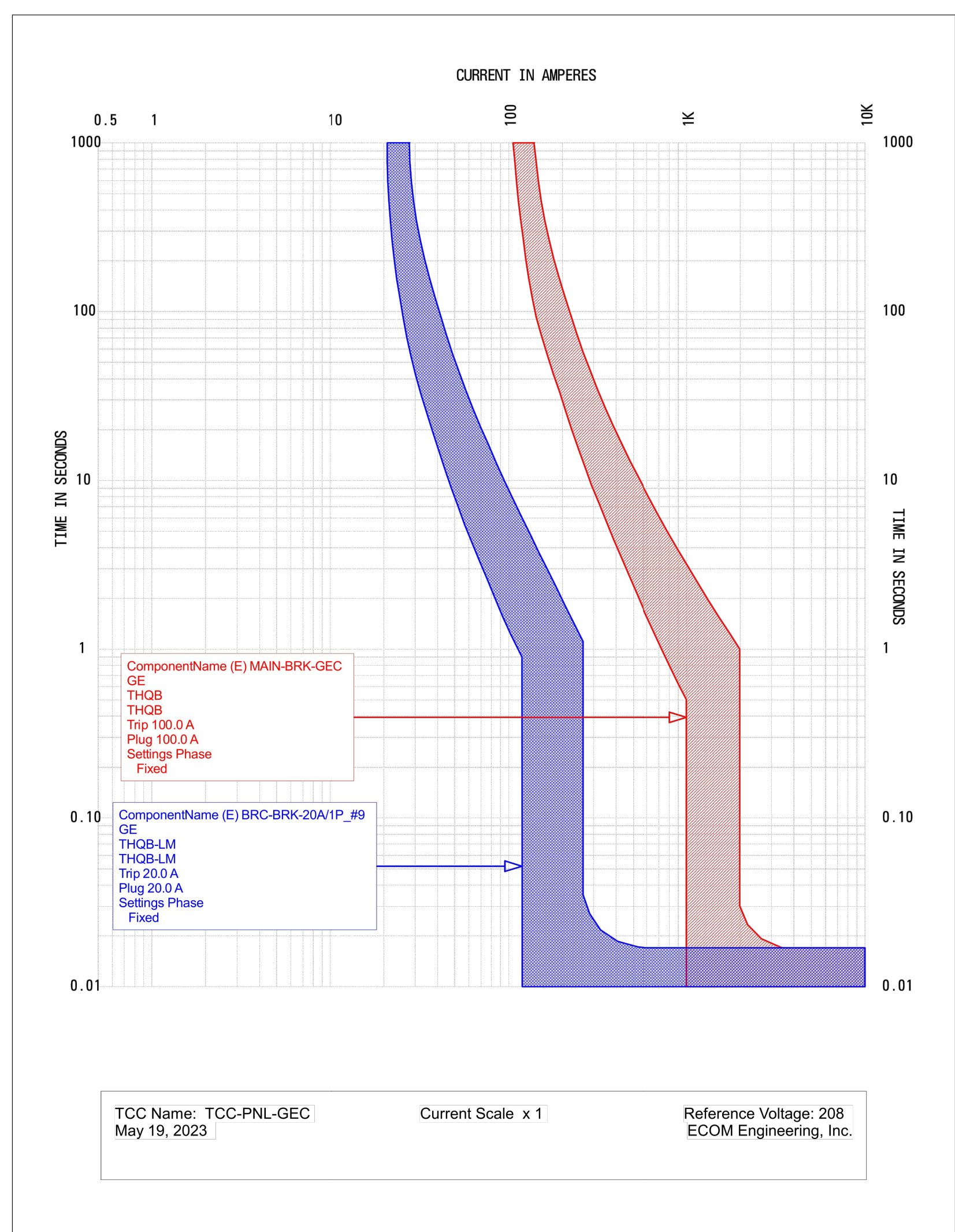
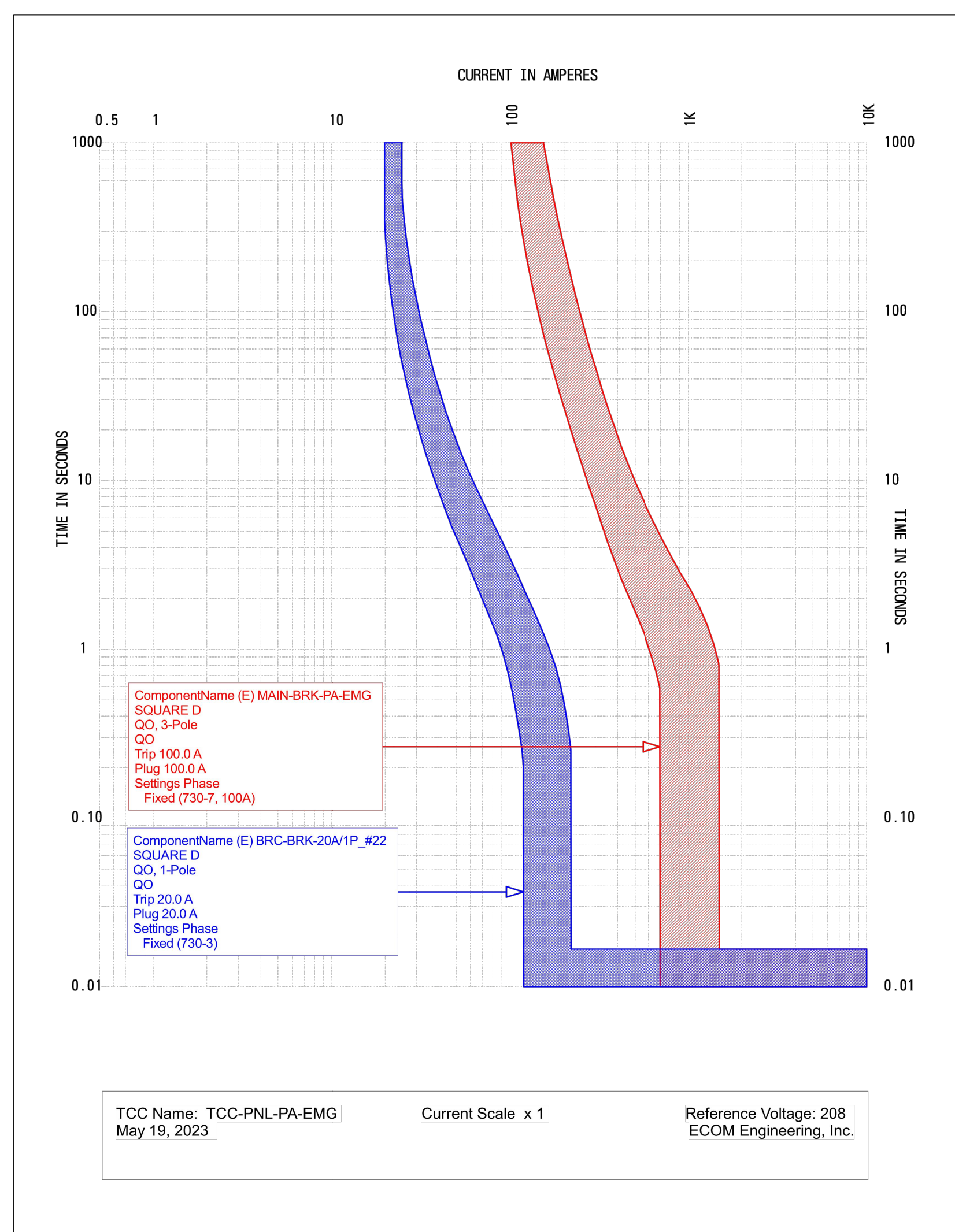
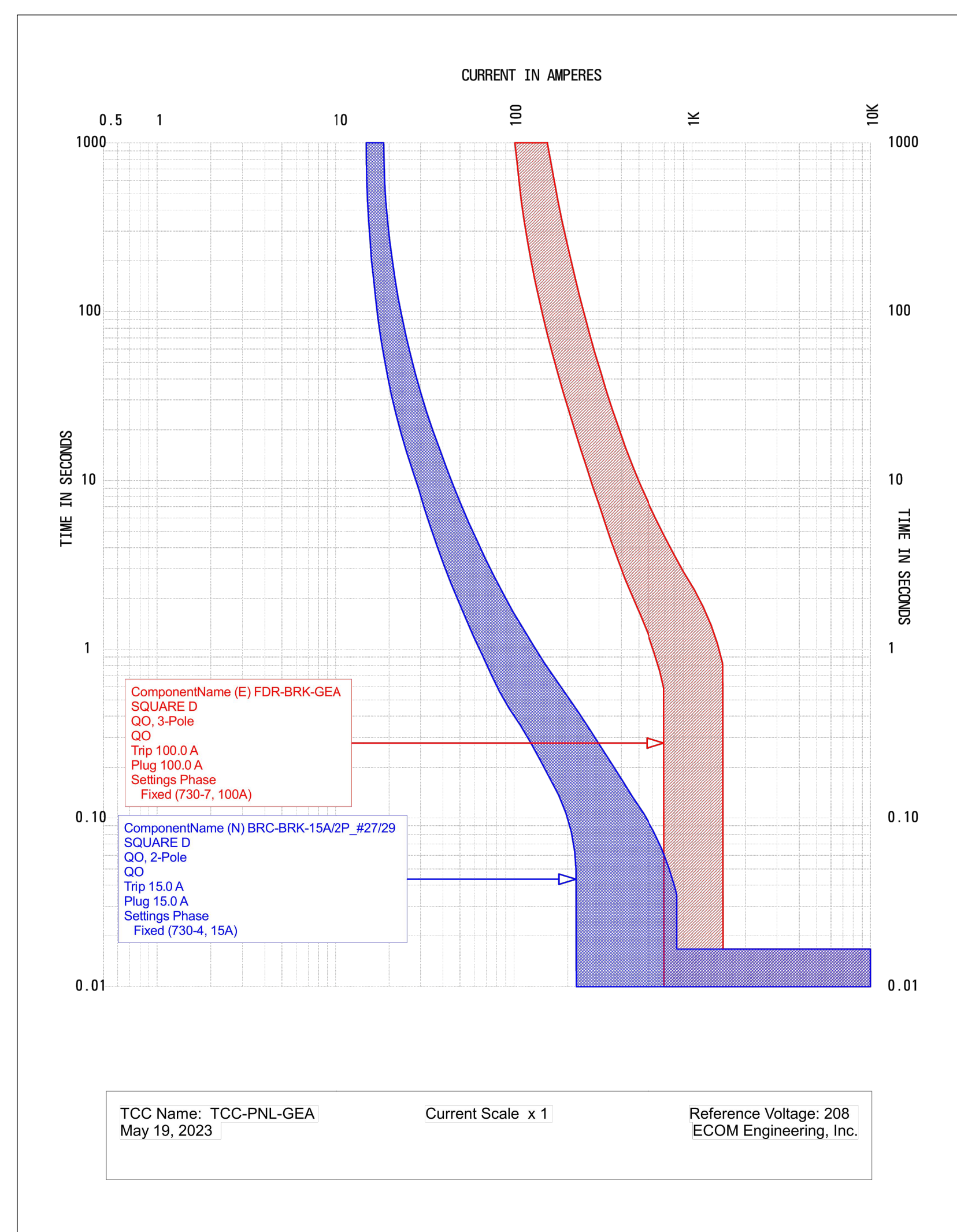
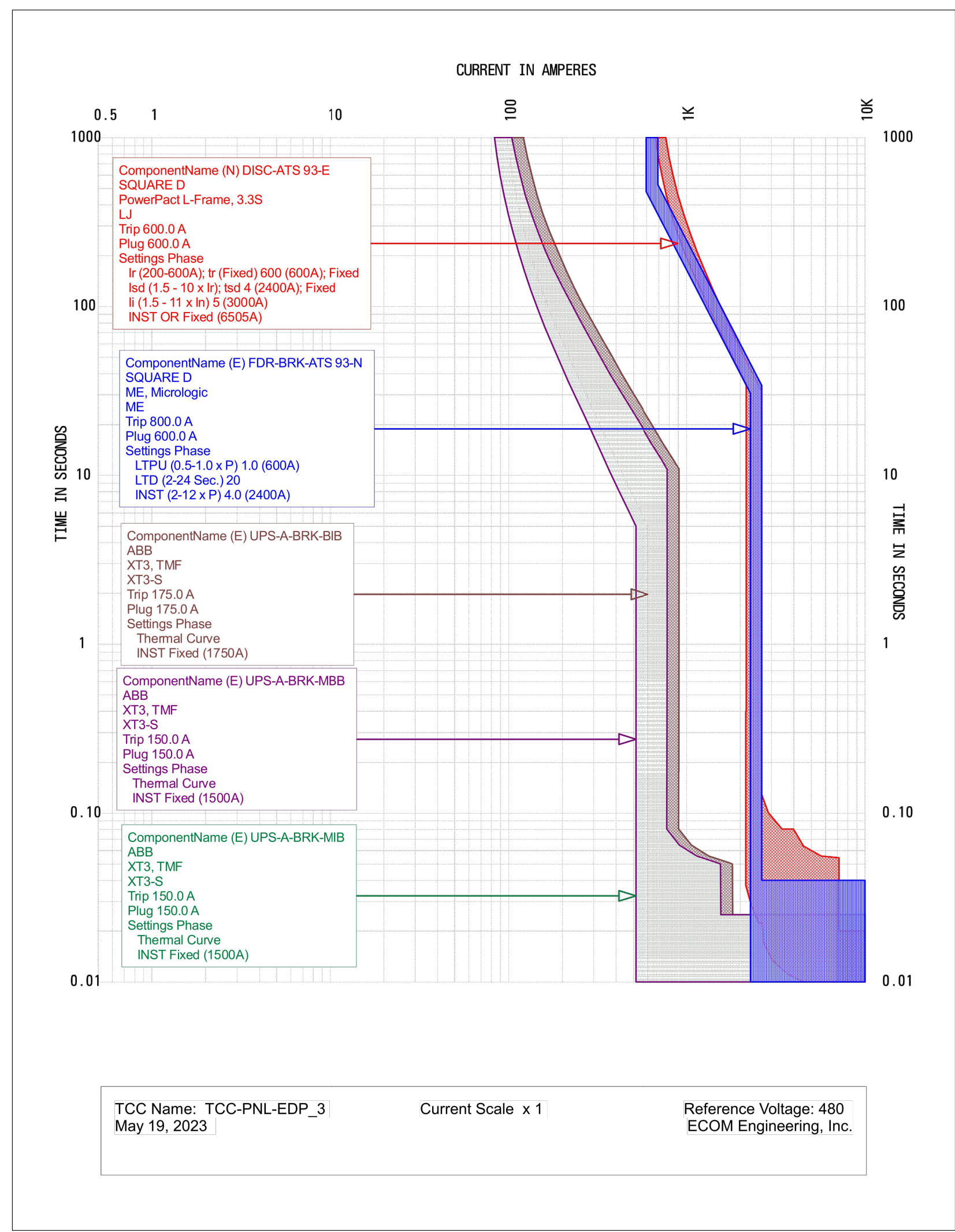
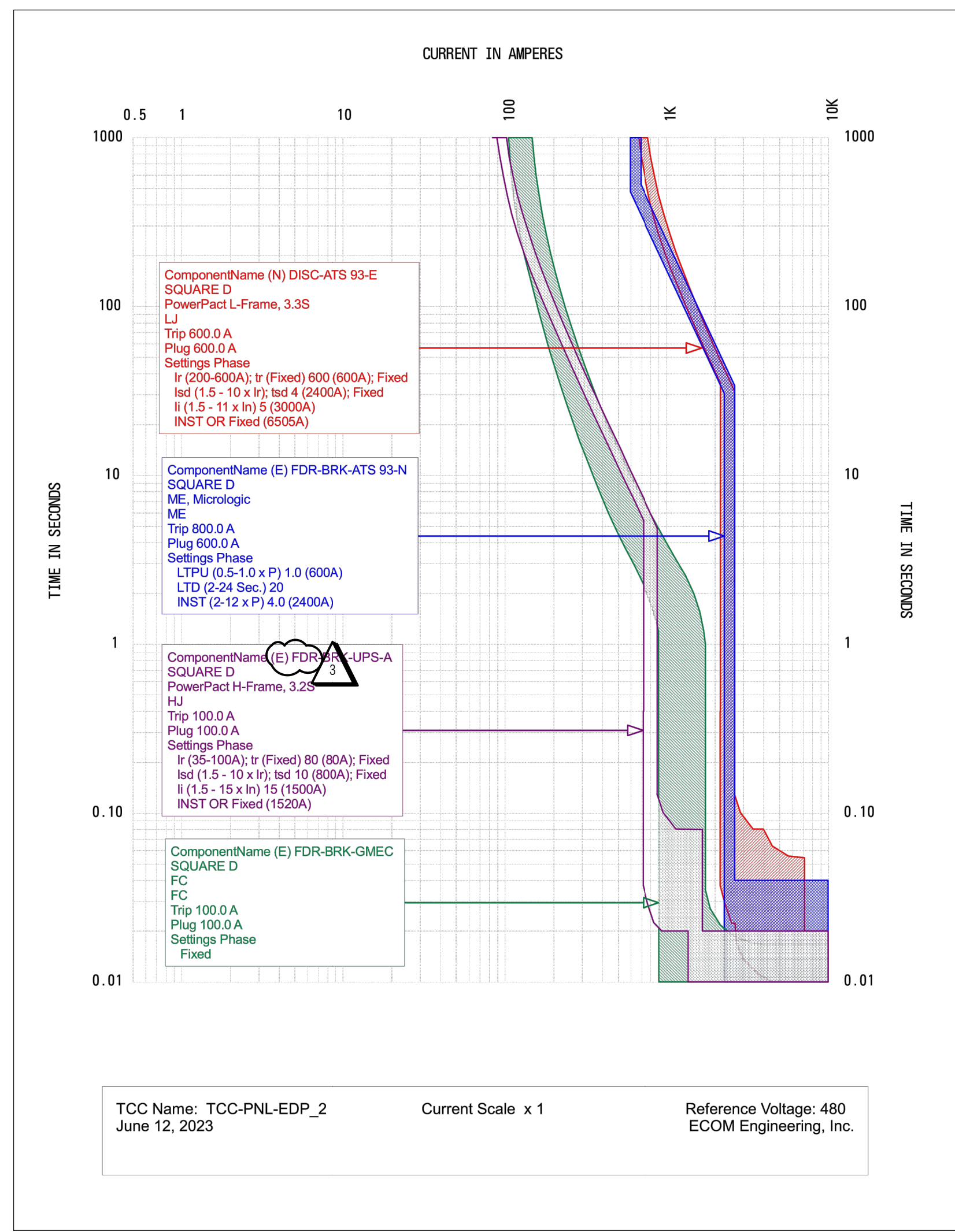
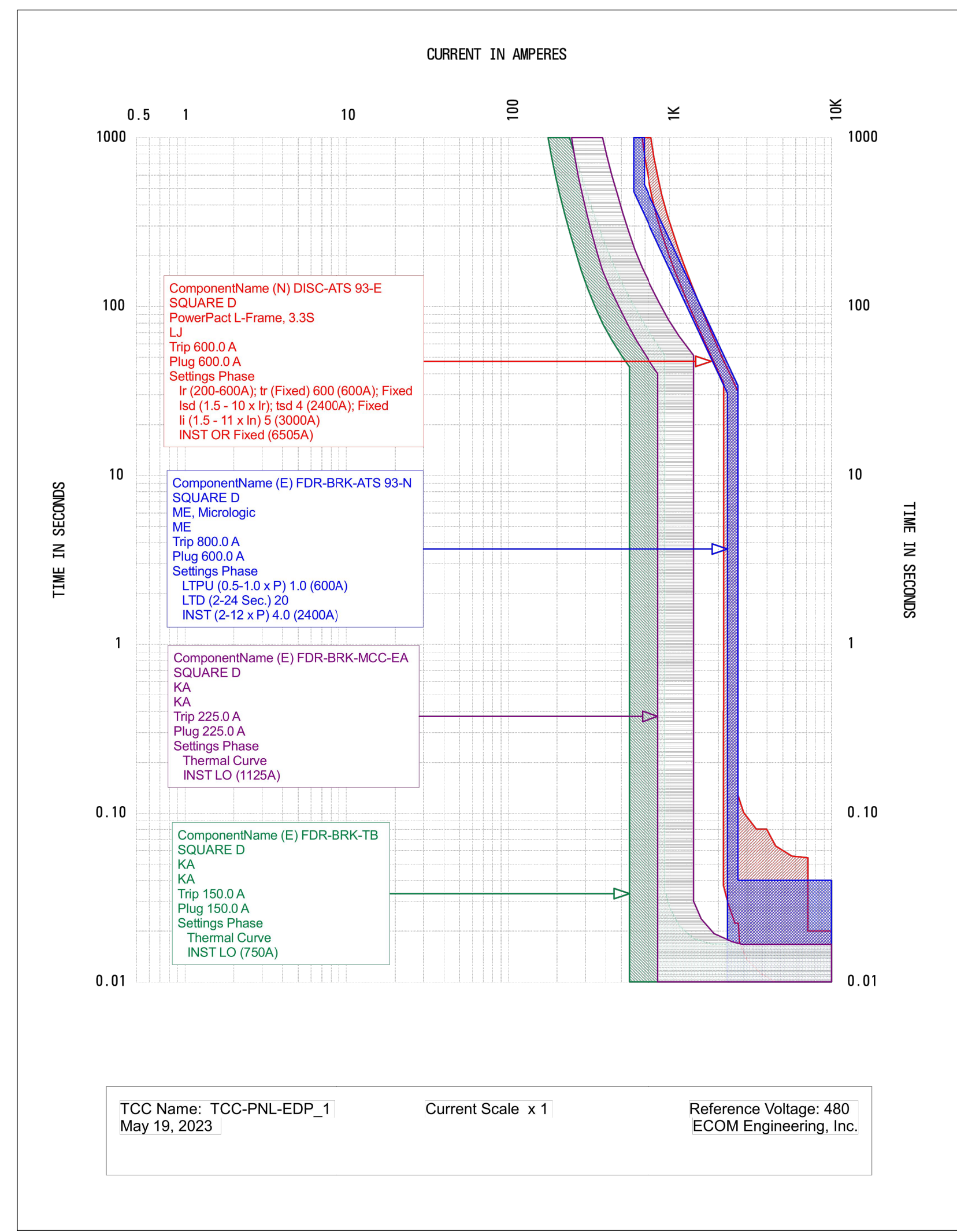
UC DAVIS HEALTH
 FACILITIES DESIGN & CONSTRUCTION
 400 2nd AVENUE, SUITE 2010
 SACRAMENTO, CALIFORNIA 95817
 (916)734-7034

CONSULTANT LOG:

REV	REVISION DESCRIPTION	DATE
3	ACD-001	4/19/2024

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 BUILDING: CANCER CENTER BUILDING #93
 FLOOR: FIRST FLOOR
 PROJECT TITLE: CANCER CENTER NET V2 UPGRADE
 600A DISCONNECT INSTALLATION
 SHEET TITLE: TIME CURRENT CURVES



ARCH / ENGR	ECOM	FDSC JOB NO.	9559410	SCALE	AS SHOWN	E6.1
UCDM PROJECT MANAGER	KEN PICKETT	DESIGNED BY	DATE	CAD FILE	SHEET	
DESIGNED BY	DATE	CAD FILE	SHEET	OF		