

MAIN SWITCHBOARD SCHEDULE						
BRKR NO.	BREAKER FRAME	FUSE DATA	OUTGOING FEEDER CONDUCTOR	TRIP CONDUIT	USE	REMARKS
1	1600A 3P	1600A	SEE E5.1		MAIN DISCONNECT	SEE NOTE 5
2	100A 3P	100A	SEE E5.1		PANEL 1HA	
3	100A 3P	100A	SEE E5.1		PANEL 2HA	
4	100A 3P	100A	SEE E5.1		PANEL 3HA	
5	100A 3P	100A	SEE E5.1		PANEL 1HB	
6	100A 3P	100A	SEE E5.1		PANEL 2HB	
7	100A 3P	100A	SEE E5.1		PANEL 3HB	
8	100A 3P	20A	SEE E2.07		FAN EF-1	SEE NOTE 4
9	100A 3P	100A	SEE E2.07		AH-1	SEE NOTE 4
10	100A 3P	60A	SEE E2.07		SUPPLY FAN AH-1	SEE NOTE 4
11	100A 3P	100A	3#2 & 1#6 IN 1 1/4"		RETURN FAN ELEVATOR No.2	SEE NOTE 3
12	100A 3P	-	-		SPARE	
13	100A 3P	-	-		SPACE	SEE NOTE 6
14	100A 3P	-	-		SPACE	SEE NOTE 6
15	100A 3P	-	-		SPACE	SEE NOTE 6
16	100A 3P	-	-		SPACE	SEE NOTE 6
17	225A 3P	-	-		SPACE	SEE NOTE 6
18	225A 3P	-	-		SPACE	SEE NOTE 6
19	225A 3P	125A	SEE E5.1		XFMR ITS	
20	225A 3P	-	-		SPACE	SEE NOTE 6
21	400A 3P	350A	SEE E5.1		XFMR TTA	
22	400A 3P	250A	SEE E5.1		PANEL MIB	
23	400A 3P	-	-		SPACE	SEE NOTE 6
24	400A 3P	-	-		SPACE	SEE NOTE 6

- NOTES:
- UL SERIES RATING OF DOWN STREAM DEVICES PERMITTED.
 - CONTRACTOR SHALL VERIFY THE A.I.C. RATING WITH COLLEGE PRIOR TO PURCHASING THE MAIN SWITCHBOARD PROVIDE MIN. 65,000 A.I.C. DEVICES.
 - PROVIDE WITH 120V SHUNT TRIP COIL & TYPE A AUXILIARY CONTACT - SEE 2/E5.1.
 - THESE BREAKERS SHALL BE TYPE HACR.
 - PROVIDE 100X RATED BOLTED PRESSURE SWITCH WITH CURRENT-LIMITING FUSES AND WITH INTEGRAL GROUND FAULT PROTECTION.
 - PROVIDE BREAKER MOUNTING HARDWARE IN ALL SPACES.

GENERAL NOTES

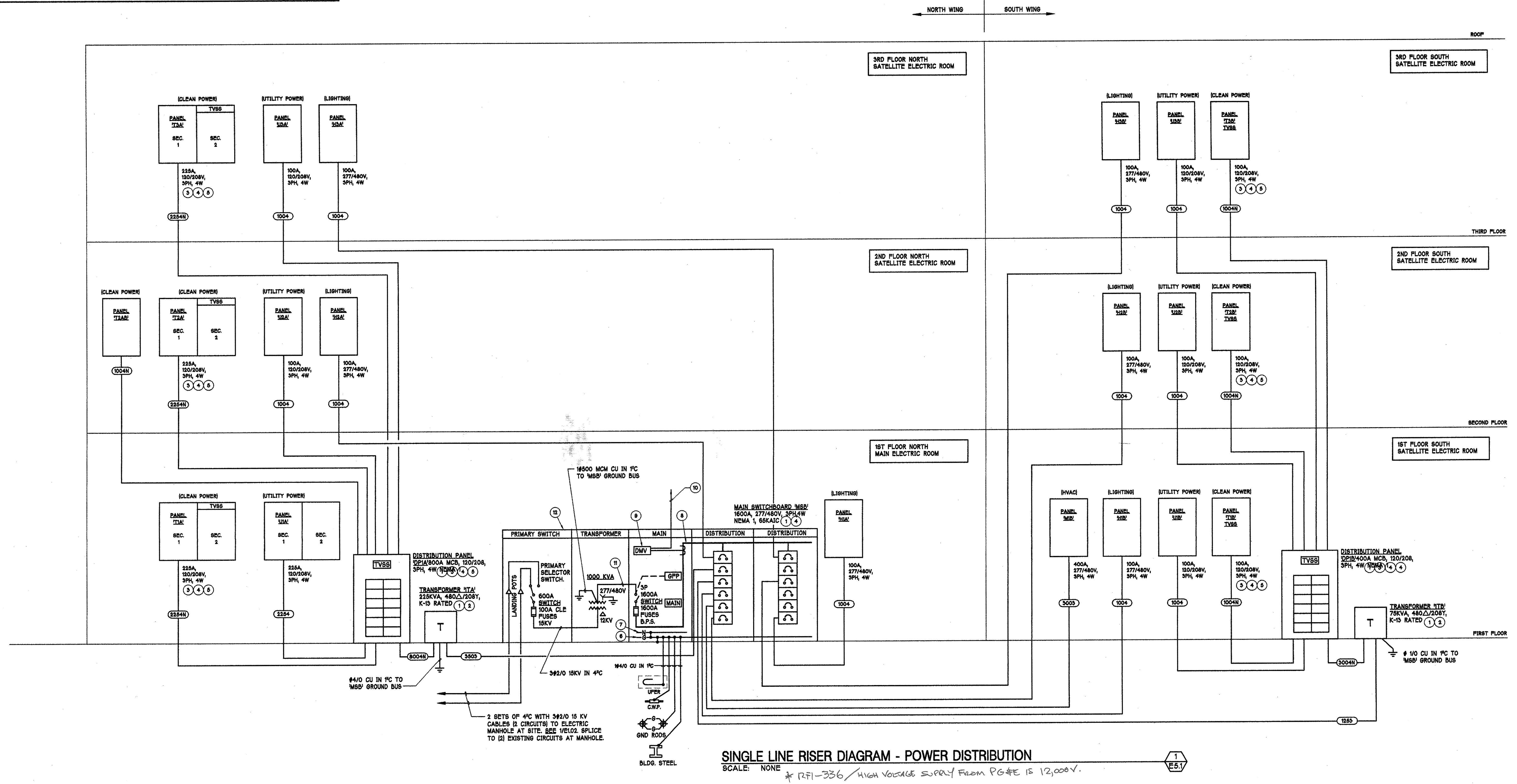
- CONTRACTOR TO RETAIN INDEPENDENT TESTING COMPANY (E.T.I OR EQUAL) TO PREPARE COORDINATION STUDY (INCLUDING GROUND FAULT) FOR ALL ADJUSTABLE TRIP BREAKERS - SET BREAKER TRIP SETTING AS PER STUDY RECOMMENDATIONS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INDICATING ALL PROPOSED CONDUIT ROUTING THROUGH THE BUILDING FOR REVIEW AND APPROVAL PRIOR TO ROUGH-IN. THE SHOP DRAWINGS SHALL BE SUBMITTED ON FLOOR PLANS AND INCLUDE ALL RACKING DETAILS AND ALL FULLBOX LOCATIONS AND SIZES.
- AT THE COMPLETION OF THE PROJECT, PROVIDE "AS-BUILT" FRAMED VERSION OF THIS SHEET W/PLEXIGLASS COVER ON THE WALL OF MAIN ELECTRICAL ROOM.

COPPER FEEDER SCHEDULE

FEEDER	CONDUIT	CONDUCTORS
8004N	(2) 3 1/2"	(2) SETS; 3#500, 2#500N & 1#1/0 G
6004	(2) 3"	(2) SETS; 4#350, 1#1/0 G
4004	(1) 3 1/2"	4#500 & 1#1 G
5503	(1) 3"	3#500 & 1#2 G
3004N	(1) 3"	(3) 3#350, 2#350N & 1#2 G
3003	(1) 3"	3#350, 1#2G
2254N	(1) 2 1/2"	3#4/0, 2#4/0 N, 1#2G
2254	(1) 2 1/2"	4#4/0, 1#2 G
1253	(1) 1 1/4"	3#1 & 1#6 G
1004N	(1) 1 1/2"	3#2, 1#1/0N & 1#6 G
1004	(1) 1 1/4"	4#2 & 1#6 G
1003	(1) 1 1/4"	3#2 & 1#6 G

SHEET NOTES

- PROVIDE AND INSTALL CONCRETE HOUSEKEEPING PAD.
- PROVIDE AND INSTALL SOUND ISOLATION MOUNTING.
- PROVIDE WITH 200% RATED NEUTRAL BUS.
- PROVIDE WITH TVSS PROTECTION.
- PROVIDE AND INSTALL FEEDER WITH DOUBLE NEUTRAL.
- CONTINUOUS GROUND BUS.
- BOND NEUTRAL & GROUND BUSES AT 'MSB' ONLY.
- CONTINUOUS 1600A BUS - NO TAPERING ALLOWED.
- PROVIDE VERIS INDUSTRIES "ENERCEPT" ENHANCED DATA STREAM METER TYPE H8036-1600-4 (NO EQUAL) WITH MATCHING CURRENT TRANSFORMERS & MODULAR WIRING; INSTALL & CONNECT COMPLETE AS PER MANUFACTURER'S INSTRUCTIONS.
- RS485 CONNECTION (BELDEN #1120A OR EQUAL IN 1/2" C) TO UTILITY VISION MONITORING PANEL - SEE 1/E4.01.
- PROVIDE 1600A 277/480V 3PH 4W BRAIDED BUS CONNECTION; OR CABLE CONNECT WITH 4 SETS OF 4#600MCM & 1#250MCM G IN 4" C.
- INCOMING PRIMARY SWITCH SHALL BE CUTLER HAMMER "MVS" TYPE (OR APPROVED EQUAL) WITH "PRIMARY SELECTOR SWITCH" CONFIGURATION.



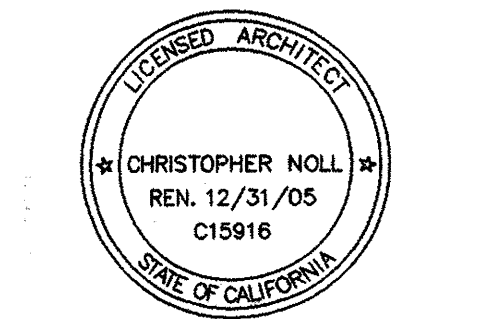
SINGLE LINE RISER DIAGRAM - POWER DISTRIBUTION
SCALE: NONE
* RFI-336 / HIGH VOLTAGE SUPPLY FROM PG&E IS 12,000V.



IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPLICATION NUMBER OF 106448
DATE 03/24/05

CALIFORNIA STATE FIRE MARSHAL
APPROVED
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.
REVIEWED BY: DATE:

CAÑADA COLLEGE
Building 9
CLIENT PROJECT No.
SMCCCD
3401 CSM Drive
San Mateo, CA 94402
Cañada College
4200 Farm Hill Blvd.
Redwood City, CA 94061



100% CD Submittal

SHEET TITLE
SINGLE LINE
DIAGRAM

REVISIONS		
NO.	DATE	DESCRIPTION

DATE: March 15, 2005
DRAWN: TV
CHECKED: MM/PJC
SCALE: NONE
JOB NO.: 203086
SHEET NUMBER

E5.1