

DESIGN INTENT & SCOPE

THESE DOCUMENTS REPRESENT THE DESIGN OF THE ELECTRICAL SYSTEM RELATED TO THE MAIN RESIDENCE ONLY & ARE NOT INCLUSIVE OF WORK ALREADY DESIGNED &/OR INSTALLED BY OTHERS, INCLUDING THE MAIN ELECTRICAL SERVICE/DISTRIBUTION OR PG&E COORDINATION FOR OTHER BUILDINGS OCCUPYING THE SITE.

SHEET NOTES

- 1 (E) PG&E SERVICE POLE TO REMAIN. PG&E TO REPLACE (E) POLE MTD. XFMR WITH (N) PAD MOUNT XFMR TO SERVE (N) & (E) SERVICES. COORDINATE WITH PG&E; DAN PRIEST @ (707) 257-5904.
- 2 (E) PG&E SERVICE DROP TO REMAIN.
- 3 (N) PG&E PAD MOUNT XFMR. TO FEED (N) & (E) SERVICE SWBD'S. COORDINATE EXACT LOCATION & LANDSCAPE SCREENING WITH OWNER.
- 4 PROVIDE & INSTALL (N) SERVICE CONDUITS FROM (E) PEDESTAL TO (N) SWBD. 'MSB'.
- 5 (N) 800A, 120/240V, 1Ø, 3W MAIN SWITCHBOARD 'MSB'; PROVIDE WITH AUTOMATIC TRANSFER SWITCH SECTION; NEMA 3R ENCLOSURE.
- 6 (N) 100KW/125KVA, 400A, 120/240V, 1Ø, 3W LP GAS EMERG. GENERATOR; PROVIDE WITH WP ENCLOSURE & ALL EQUIPMENT, DEVICES & CONNECTIONS FOR A COMPLETE INSTALLATION.

MAIN RESIDENCE LOAD CALCULATIONS

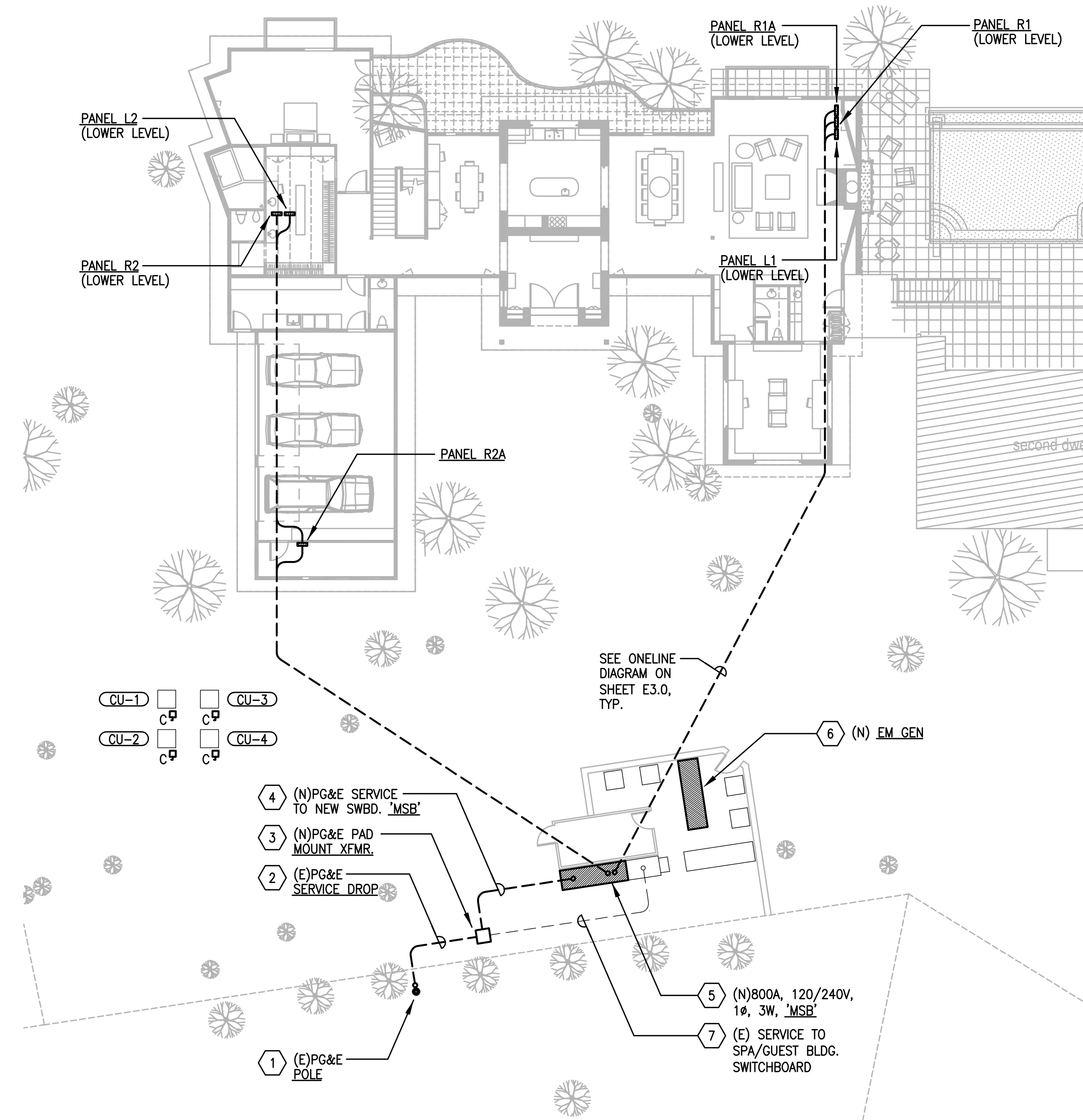
LOAD DESCRIPTION:	LOAD:
PANEL R1	40,810 VA
PANEL R1A	22,500 VA
PANEL R2A (INCLUDES R2)	28,130 VA
PANEL L1	22,500 VA
PANEL L2	14,500 VA
CONDENSING UNITS	26,976 VA
TOTAL IN WATTS	155,420 VA
VOLTAGE	240 V
LOAD IN AMPS	647.58 A
SERVICE AMPS	800.00 A

GENERAL NOTES

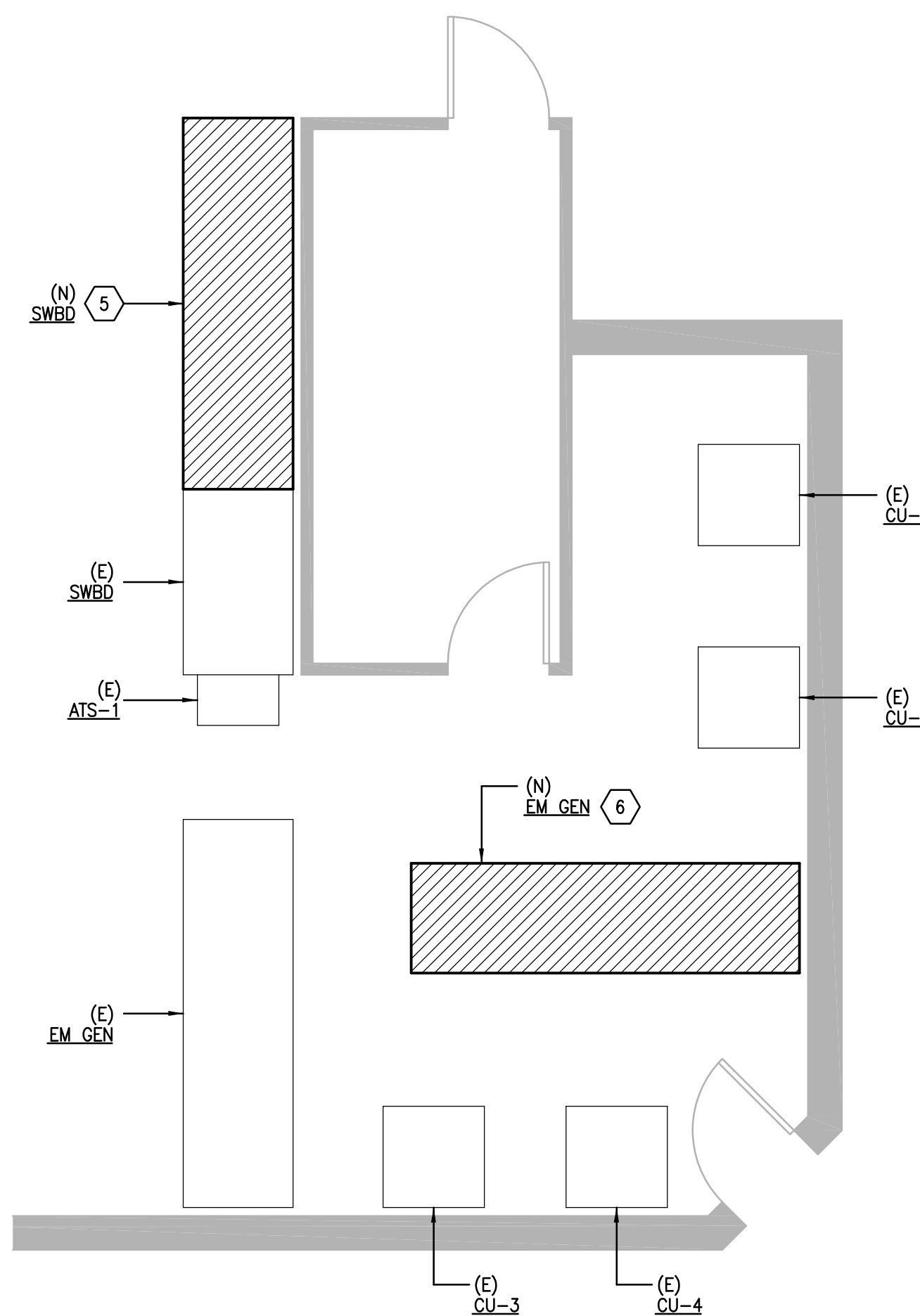
1. ALL CONDUCTORS TO BE COPPER UNLESS OTHERWISE NOTED.
2. NOTIFY THE DESIGNER & OWNER IMMEDIATELY UPON THE DISCOVERY OF ANY ITEM OR CONDITION THAT REQUIRES MODIFICATION TO THE LAYOUT OR CONNECTIONS OF DEVICES OR EQUIPMENT INDICATED ON THESE PLANS, PRIOR TO THEIR INSTALLATION.
3. ALL ELECTRICAL EQUIPMENT OR DEVICES MOUNTED ON THE ROOF OR EXTERIOR TO THE BUILDING, SHALL BE SUITABLE FOR EXTERIOR USE IN DAMP OR WET LOCATIONS & LABELLED ACCORDINGLY.
4. FIRE ALARM SYSTEM SHALL BE DESIGNED, PROVIDED & INSTALLED BY OTHERS.
5. SEAL ALL ROOF PENETRATIONS WITH APPROVED MATERIALS.
6. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS.
7. ALL CIRCUITS SHOWN CONNECTED TO BRANCH PANELS MUST ALSO CONTAIN A CODE REQUIRED GROUNDING CONDUCTOR.
8. ALL ELECTRICAL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE FOLLOWING CODES:
 - * 2002 CALIFORNIA BUILDING CODE
 - * 2001 CALIFORNIA PLUMBING CODE
 - * 2001 CALIFORNIA FIRE CODE
 - * 2001 CALIFORNIA MECHANICAL CODE
 - * 2005 CALIFORNIA ENERGY CODE
 - * 2004 CALIFORNIA ELECTRICAL CODE
 - * 2002 NATIONAL ELECTRICAL CODE
 - * 2002 UNIFORM HOUSING CODE
9. COORDINATE EXACT NEMA RECEPTACLE AND / OR PLUG REQUIREMENTS WITH INDIVIDUAL EQUIPMENT SUPPLIER / VENDOR, PRIOR TO INSTALLATION.
10. ALL GENERAL USE RECEPTACLES NOT SPECIFICALLY DEDICATED FOR USE BY DESIGNATED EQUIPMENT, SHALL BE INSTALLED AT A MINIMUM HEIGHT OF 15 INCHES ABOVE FINISHED FLOOR TO CENTER OF DEVICE.
11. ALL WIRING SHALL BE INSTALLED IN APPROVED RACEWAYS.
12. ALL NON-PORTABLE EQUIPMENT SHALL BE HARD WIRED.
13. THE APPROVAL OF ALL ELECTRICAL WORK IS SUBJECT TO FIELD INSPECTIONS.
14. ALTHOUGH NOT SHOWN FOR CLARITY, ALL RACEWAYS & HOMERUNS CONTAIN 2#12 AWG, UNLESS OTHERWISE NOTED ON PLANS.

SYMBOLS LEGEND

	JUNCTION BOX; ABOVE CEILING OR SURFACE ON FLOOR
	JUNCTION BOX; WALL MOUNTED
	DUPLEX RECEPTACLE, WALL MOUNTED
	DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED
	DUPLEX RECEPTACLE, MOUNTED AT HEIGHT AS INDICATED
	DOUBLE DUPLEX RECEPTACLE, MOUNTED AT HEIGHT AS INDICATED
	DUPLEX RECEPTACLE WALL SWITCH CONTROLLED
	DUPLEX FLUSH IN FLOOR
	DUPLEX FLUSH IN CEILING
	FLUSH FLOOR MOUNTED BOX WITH POWER & DATA
	SPECIAL RECEPTACLE, COORDINATE EXACT NEMA PATTERN WITH EQUIPMENT
	DATA OUTLET WALL MOUNTED
	DATA OUTLET FLUSH IN FLOOR
	MOTOR
	PANEL OR EQUIPMENT CABINET
	CABLE TV OUTLET
	GARAGE DOOR KEY SWITCH CONTROL
	GARAGE DOOR PUSHBUTTON CONTROL
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM SMOKE DETECTOR
	FUSED DISCONNECT SWITCH
	DISCONNECT SWITCH TAG:
	VOLTAGE
	PHASE
	SWITCH SIZE
	FUSE SIZE
	HOMERUN TO PANEL
	CONDUIT RACEWAY
	PHASE CONDUCTOR
	NEUTRAL CONDUCTOR
	NUMBERED NOTE TAG
	FEEDER TAG
	MECHANICAL EQUIPMENT DESIGNATION
	PANEL & CIRCUIT DESIGNATION
	AMPS
	AIR CONDITIONER
	ABOVE FINISHED FLOOR
	ARC FAULT INTERRUPTER
	ALUMINUM
	CONDUIT
	CABLE TELEVISION
	CIRCUIT BREAKER
	COMMERCIAL
	GARBAGE DISPOSER
	EXISTING
	FAN
	FORCED AIR UNIT
	GROUND FAULT INTERRUPTER
	ELECTRICAL
	GROUND
	LIGHTING CONTROL PANEL
	MAIN CIRCUIT BREAKER
	MAIN LUGS ONLY
	NEW
	POLES
	PHASE
	PANEL
	POLY VINYL CHLORIDE PIPE
	REFRIGERATOR
	RESIDENTIAL
	SWITCHBOARD
	TYPICAL
	UNLESS OTHERWISE NOTED
	VOLTS
	WATTS
	WATER HEATER
	WEATHERPROOF



1 PARTIAL SITE PLAN
SCALE: 1/16" = 1'-0"



2 PARTIAL PLAN AT EQUIPMENT ENCLOSURE
SCALE: 1/4" = 1'-0"

DRAWING INDEX

E0.0	SYMBOLS LIST & GENERAL NOTES
E1.0	MAIN LEVEL POWER & SIGNAL PLAN
E2.0	LOWER LEVEL POWER & SIGNAL PLAN
E3.0	ONELINE DIAGRAM & SCHEDULES
E4.0	DETAILS

REVISIONS

NO.	DESCRIPTION	DATE
1	PLAN CHECK REVIEW	05.29.08
1	ISSUED TO TLA	06.06.08
2	ISSUED FOR REVIEW	11.21.08
3	FOR CONSTRUCTION	11.30.08
4	SERVICE COORD.	05.05.09
4	PG&E REVISIONS	06.15.09

PROJECT

Burns Residence

1325 Las Posadas Road
Angwin, California

SYMBOLS LIST & GENERAL NOTES

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DATE	04.14.08
SCALE	AS NOTED
JOB NO.	0804.05

SHEET NO.

E0.0