

Grid Interconnections

Template Single Line Diagram (SLD) Cover Page

This optional cover page is designed to reduce the return rate by facilitating communication between the SLD designer and the person completing the Grid Interconnection Request.

The SLD designer should complete the cover page and return it with the SLD to the person completing the Interconnection Request. It is not necessary to submit this cover page to SCE.



NEM Single Line Diagram (SLD) Cover Page

to be completed by SLD creator and provided along with SLD to paperwork administrator

Customer Name	<input style="width: 100%;" type="text"/>		
Site Address	<input style="width: 100%;" type="text"/>		
City	<input style="width: 30%;" type="text"/>	Zip Code	<input style="width: 30%;" type="text"/>
Technology Type (check all that apply): <input type="checkbox"/> Solar <input type="checkbox"/> Wind <input type="checkbox"/> Fuel Cell			
CEC-AC Nameplate (kW)	<input style="width: 150px;" type="text"/>	= (qty generator * generator rating * inverter efficiency rating)/1000 Component ratings for CEC-certified generators at www.csi-epbb.com (solar) or www.consumerenergycenter.org/erprebate/equipment.html (wind, fuel cell)	

System Design

Type of System	<input type="checkbox"/> New System	<input type="checkbox"/> System Expansion
Point of Interconnection	<input type="checkbox"/> Load Side Tap (below main circuit breaker)	<input type="checkbox"/> Line Side Tap (above main circuit breaker)
CEC-Certified Equipment	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Back-Up Generation	<input type="checkbox"/> No	<input type="checkbox"/> Yes
System Size (CEC-AC)	<input type="checkbox"/> up to 10 kW	<input type="checkbox"/> > 10 kW
for paperwork administrators:	<u>Solar/Wind</u> : If all boxes in this column are checked, use the 1-page Simplified Interconnection Application.	<u>Solar/Wind</u> : if any box in this column is checked, use the 14-page Generating Facility Interconnection Application (GFIA). <u>Fuel Cell</u> : always use the 14-page GFIA.

Component Information

	<u>Manufacturer</u>	<u>Model Number</u>	<u>Voltage</u>	<u>Qty</u>	<u>System Expansion</u>
Inverter	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>	<input type="radio"/> Existing <input type="radio"/> New
Inverter	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>	<input type="radio"/> Existing <input type="radio"/> New
Inverter	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>	<input type="radio"/> Existing <input type="radio"/> New
Generator <small>(solar panel, wind turbine, fuel cell)</small>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>	<input type="radio"/> Existing <input type="radio"/> New
Generator <small>(solar panel, wind turbine, fuel cell)</small>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>	<input type="radio"/> Existing <input type="radio"/> New
Generator <small>(solar panel, wind turbine, fuel cell)</small>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>	<input type="radio"/> Existing <input type="radio"/> New

Note: This template is provided courtesy of Southern California Edison to facilitate information sharing across contractor teams and to ensure accurate applications. It is optional and does not need to be submitted to SCE.

Grid Interconnections

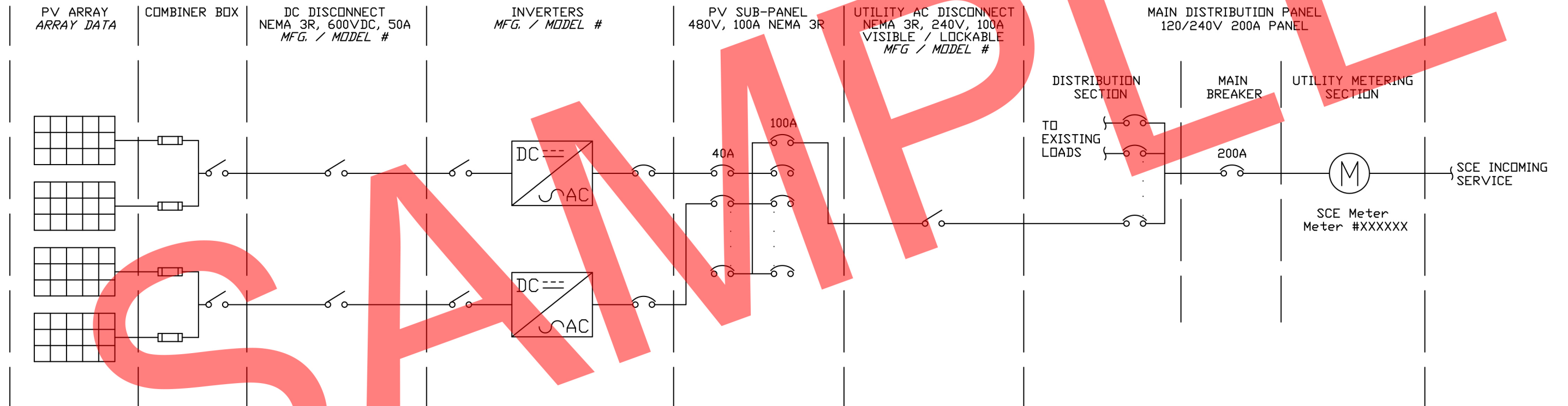
Sample Single Line Diagram:
Residential Systems



NEM SYSTEM INFORMATION

UNIT	INVERTER #1	INVERTER #2	TOTAL
MFG. & MODEL NO.	XYZ CORPORATION	XYZ CORPORATION	
EFFICIENCY RATING	XX%	XX%	
PV MODULES PER UNIT	XXX UNITS	YYY UNITS	XXX+YYY UNITS
NET NAMEPLATE RATING	XXX kW	XXX kW	XXX kW

MODULES X CEC RATING X EFF (%)



PROJECT NAME
 ADDRESS
 SCE SERVICE ACCT. #

DRAWING: ONE LINE DIAGRAM
 SCALE: X:XXX
 NOTES:

REV.	DESCRIPTION

DATE	BY

PE STAMP
REQ'D FOR INTERCONNECTIONS ON THE UTILITY SIDE OF THE MAIN CIRCUIT BREAKER

Grid Interconnections

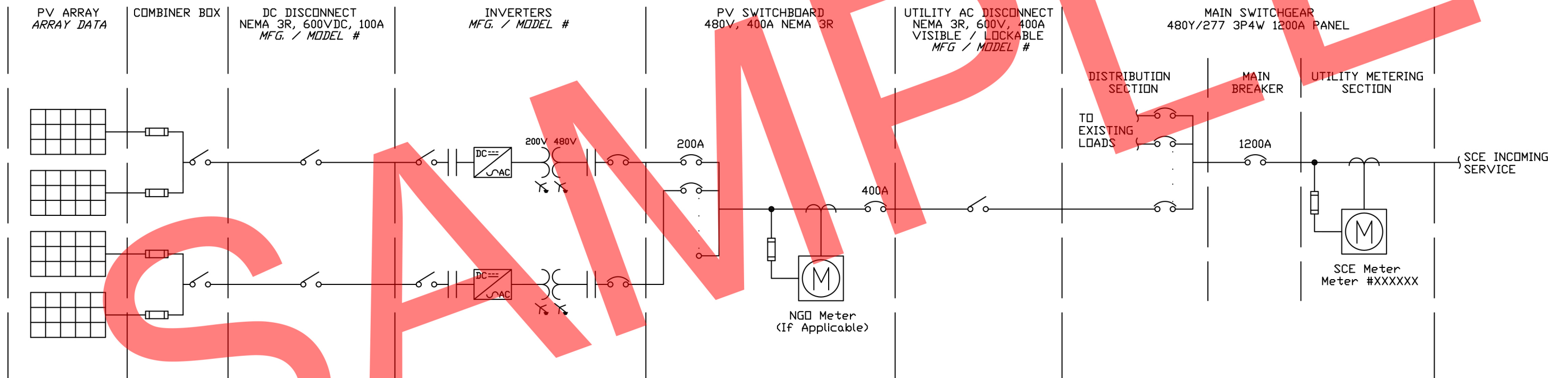
Sample Single Line Diagram:
Commercial Systems



NEM SYSTEM INFORMATION

UNIT	INVERTER #1	INVERTER #2	TOTAL
MFG. & MODEL NO.	XYZ CORPORATION	XYZ CORPORATION	
EFFICIENCY RATING	XX%	XX%	
PV MODULES PER UNIT	XXX UNITS	YYY UNITS	XXX+YYY UNITS
NET NAMEPLATE RATING	XXX kW	XXX kW	XXX kW

MODULES X CEC RATING X EFF (%)



PROJECT NAME
 ADDRESS
 SCE SERVICE ACCT. #

DRAWING: ONE LINE DIAGRAM

SCALE: X:XXX

NOTES:

REV.

DESCRIPTION

DATE

BY

PE STAMP

REQ'D FOR INTERCONNECTIONS
 ON THE UTILITY SIDE OF
 THE MAIN CIRCUIT BREAKER

Grid Interconnections

Sample Single Line Diagram:
Isolated System



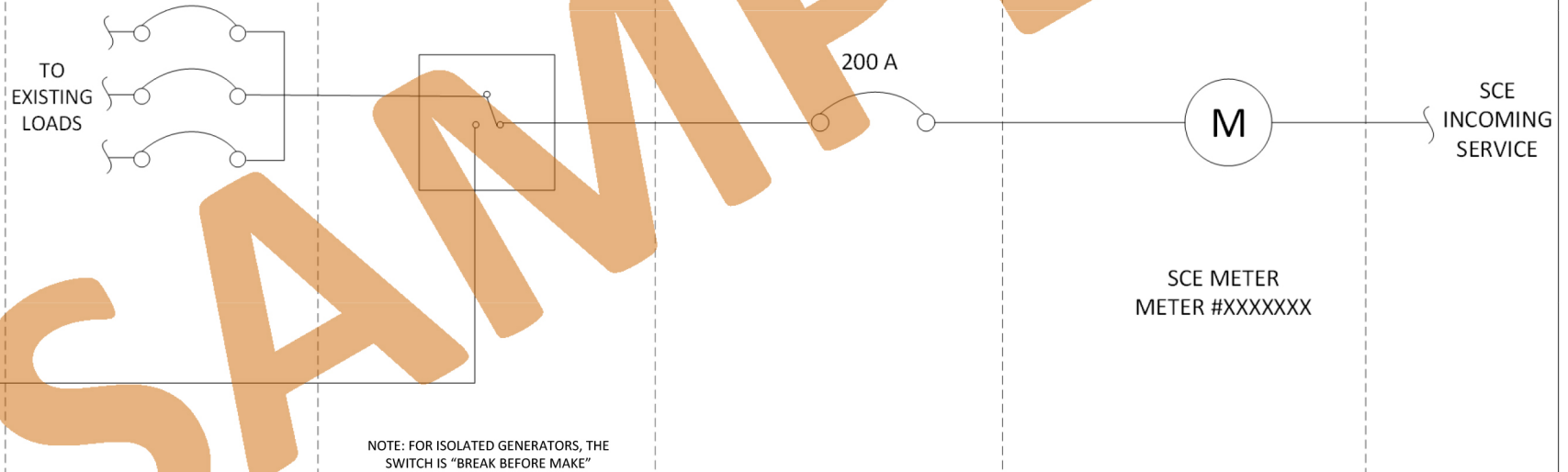
BACK-UP GENERATOR
DATA
MFG./MODEL
kW/kVA RATING
TECHNOLOGY/FUEL TYPE

DISTRIBUTION
SECTION

TRANSFER SWITCH
MFG. / MODEL #
NEMA ENCLOSURE TYPE

MAIN BREAKER
MFG. / MODEL #
NEMA ENCLOSURE TYPE
BREAKER RATING

UTILITY METERING
SECTION



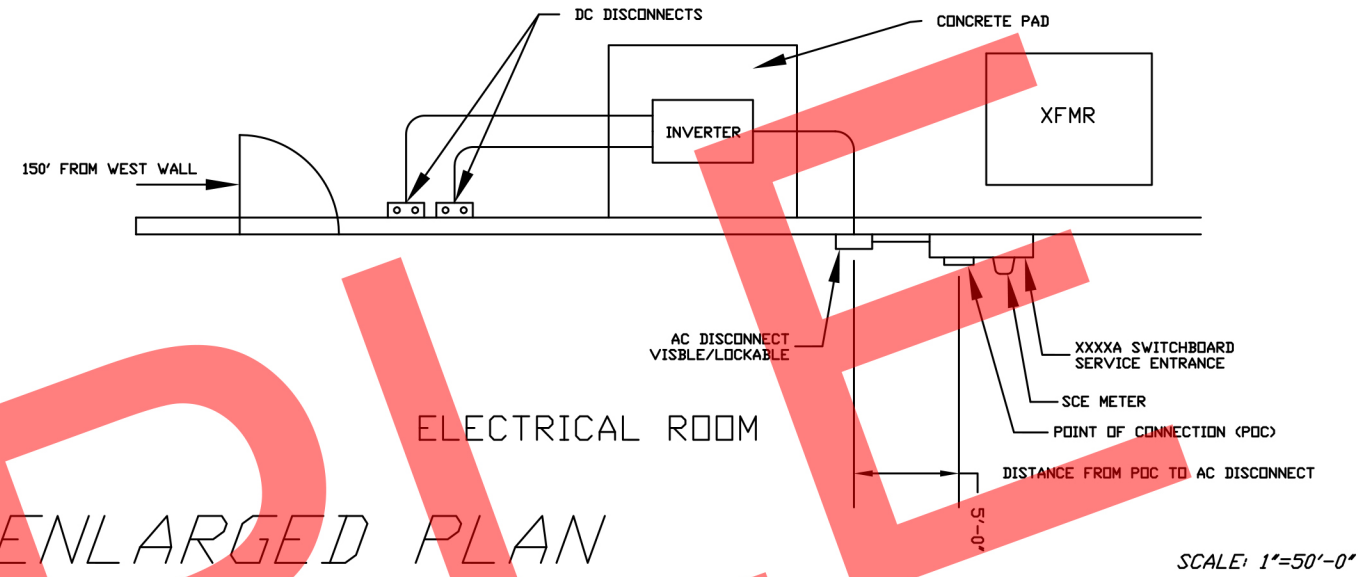
PROJECT NAME ADDRESS SCE SERVICE ACCT.#	DRAWING: ONE LINE DIAGRAM	REV.	DESCRIPTION	DATE	BY	PE STAMP <small>REQ'D FOR INTERCONNECTIONS ON THE UTILITY SIDE OF THE MAIN BREAKER</small>
	SCALE: X:XXX					
	NOTES:					

Grid Interconnections

Sample Plot Plan

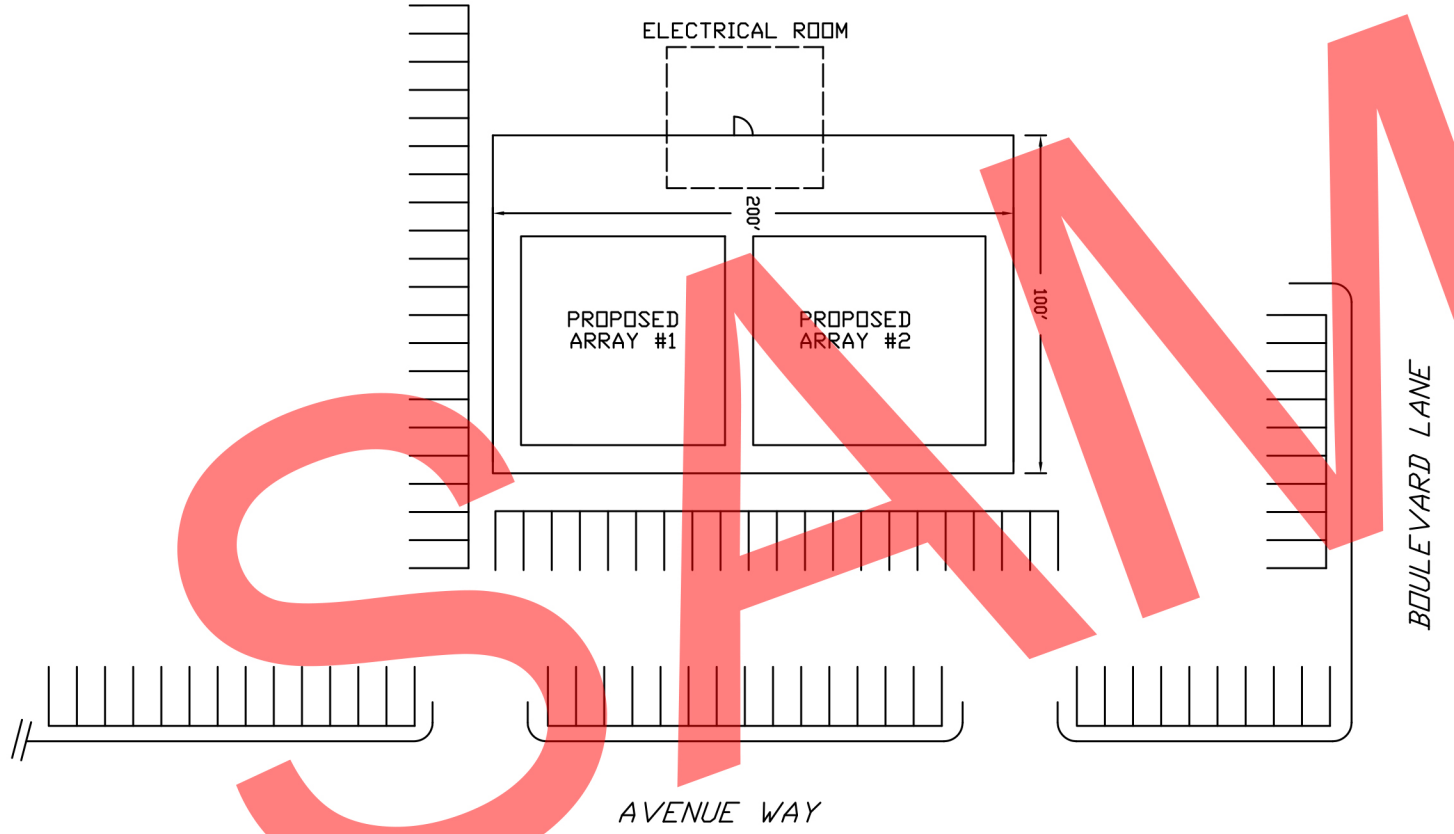
Required for all commercial projects regardless of size,
any project greater than 10 kW,
and any project involving back-up generation.





ENLARGED PLAN

NOTES:
 LIST ANY ACCESS LIMITATIONS
 LIST SCE/APPLICANT LOCK LOCATIONS
 NOTE SIGNAGE PLACEMENT/VERBIAGE @ MAIN & DISC.



PROJECT NAME ADDRESS SCE SERVICE ACCT. #	DRAWING: PLOT PLAN	REV.	DESCRIPTION	DATE	BY
	SCALE: X:XXX				
	NOTES:				