



COMMUNITY DEVELOPMENT DEPARTMENT • BUILDING INSPECTION DIVISION
500 Castro Street • Post Office Box 7540 • Mountain View, California 94039-7540
PHONE 650-903-6313 • FAX 650-962-8501

ELECTRIC VEHICLE CHARGER INSTALLATION GUIDE FOR ONE-TO-TWO FAMILY DWELLINGS

SUBMITTAL REQUIREMENTS

A permit is required for electric vehicle charger installation; permit shall be obtained prior to the start of the remodel.

Two (2) sets of plans **wet-signed** by the designer/architect, contractor, or homeowner responsible for preparing the plans. All plans submitted (existing and new floor plans) shall be on a minimum plan size of 11" x 17" and **must be legible** to facilitate microfilming as a permanent record after the project is completed.

If the property is overseen by a Homeowners Association and the scope of work is in the common area, exterior of a building or includes the alteration of walls, a letter of authorization, signed by the HOA, is required.

Exterior modifications to buildings require Planning review and approval prior to submittal to the Building Division.

Following is a listing of the general requirements based on the 2016 California Codes & Mountain View Municipal Code. This brochure is intended to provide general information. Your cooperation in providing this information will ensure that your project qualifies for over-the-counter review. Designated appointment time must be requested by the applicant, the over-the-counter review service is available Fridays, between 1:00 pm – 3:00 pm. Also, the option to submit your comprehensive submittal package with application via email at: pvsubbmittals@mountainview.gov

If you have any additional questions please contact the Building Inspection Division at (650) 903-6313.

BASIC CODE REQUIREMENTS

- **SITE PLAN**

Show the location of:

- a. Existing or proposed structure(s) for which the electric vehicle charger shall be affixed.
- b. Parcel dimensions and outline.
- c. Label street(s) frontage and access.
- d. Location and size of main service panel.
- e. Location and size of subpanel, existing and/or proposed.
- f. Location of electric vehicle charger.
- g. Pathway for electrical connection to EV.
- h. Show on the plans a complete and clear scope of work.

- **SYSTEM INFORMATION**

Provide manufacturers cut sheets and listing information for all components:

- a. All UL listed equipment.

- **ELECTRICAL PLAN**

Provide a single line diagram with the following items:

- a. Existing or proposed main service panel size.
- b. Panel schedule.
- c. Dedicated circuit for electric vehicle charger.
- d. Wiring method and sizing.
- e. Grounding and disconnect.

Provide a load calculation breakdown:

- a. Design your project using CEC Article 625 and NEC 220

OTHER RELATED HANDOUTS

1. Smoke Detector requirements
2. Self-Certification ~ Smoke and Carbon Detectors
3. Electric Load Calcs

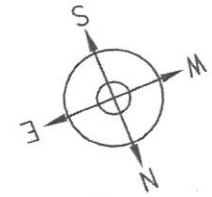
NEIGHBOR

BACK YARD

HOUSE

ABC STREET

DRIVE WAY



MAIN PANEL

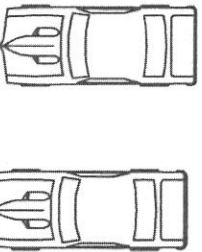
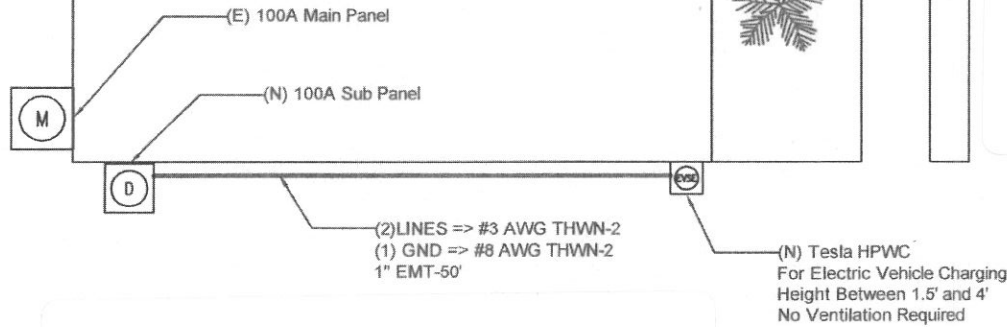
- Challenger
- Panel rated for 100A

SUB PANELS

- #1 : Challenger - 100A feeder breaker inside the main - located inside the house
- #2 : Murray - 100A feeder breaker inside the main - located outside in drive way

LEGEND

- Main Panel
- Load Center
- J-Box
- AC Disconnect
- EV Outlet
- Transfer Switch
- Conduit & Conductors
- Trench
- Tree

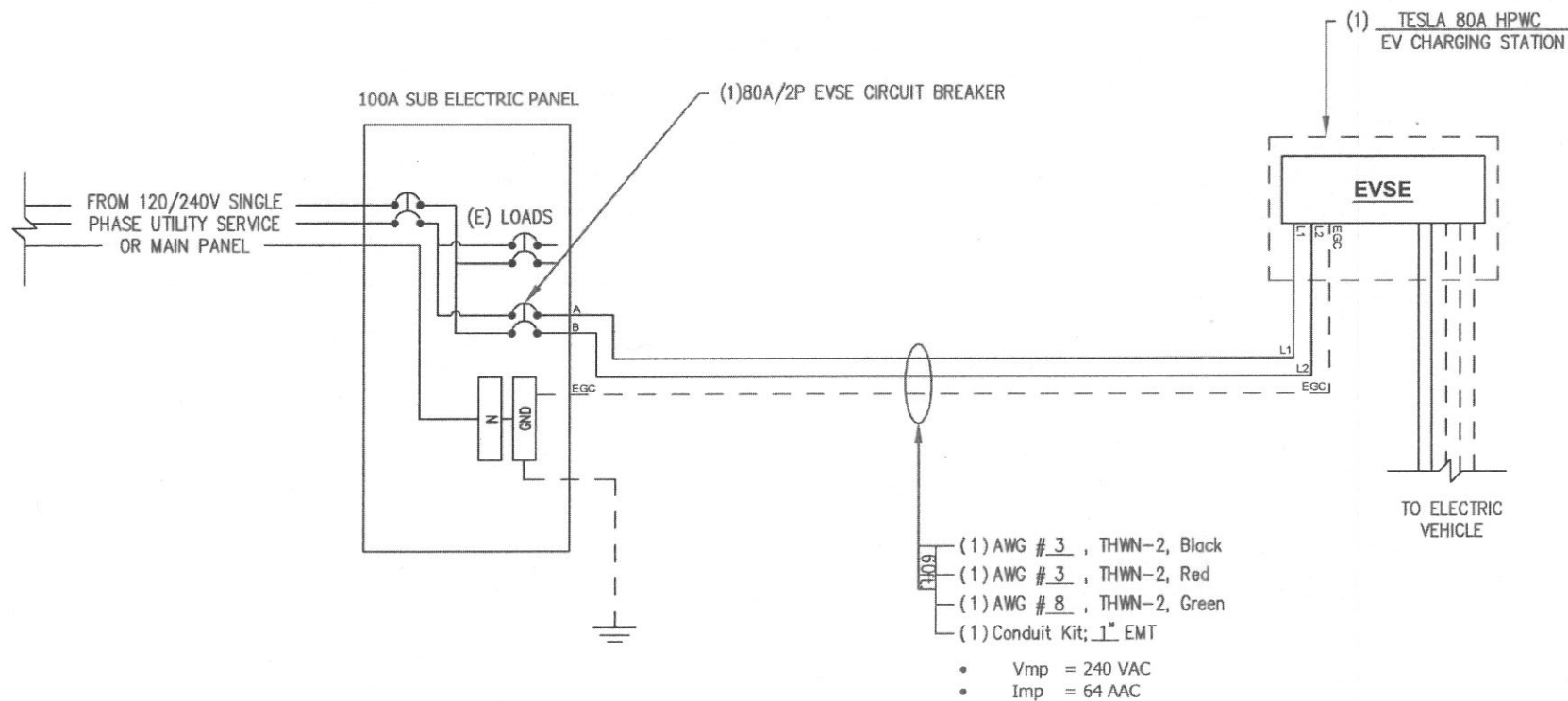


NEIGHBOR

e.g. Site Plan

MAIN PANEL SERVICE RATING:	100A
CIRCUIT VOLTAGE/AMPERAGE:	240V/80A
CHARGER:	TESLA 80A HPWC

Mr. and Mrs. Smith
 1234 ABC Street
 Mountain View, CA 94042



e.g. Single-Line Diagram

AHL:	Mountain View
MAIN PANEL SERVICE RATING:	100A
CIRCUIT VOLTAGE/AMPERAGE:	240V/80A
CHARGER:	TESLA 80A HPWC

PREMISE OWNER:	Mr. and Mrs. Smith 1234 ABC Street Mountain View, CA 94042
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