



Questions?

City staff is happy to answer your questions, provide plot plans and assist you to obtain the permit.

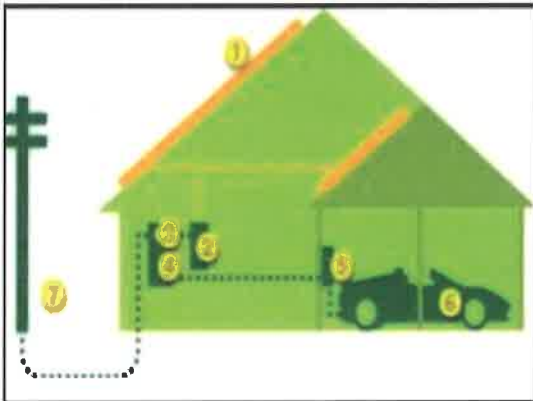
For more information contact

Phone 425.744.6267

PermitSpecialist@ci.mlt.wa.us

www.cityofmlt.com

Electrical Vehicle Charging Stations for Residential



City of Mountlake Terrace
Community and Economic Development
PO Box 72
Mountlake Terrace, WA 98043



*This brochure is not intended to cover all situations
nor to replace any code provision that may apply
and may differ or conflict with this information.
Contact City staff to discuss your specific project.*

Electric Vehicle Charging Stations for Residential

(MTMC 19.126)



Permits and fees apply

An electrical permit to accommodate a “level 2” (typically 220 to 240 volt) electric vehicle charging station in a garage is required for all new home construction or additions modifying greater than 50% of the assessed value of the building.

A mechanical permit may also be required.

What do I need to do?

Complete an electrical permit application form at City Hall or online at: <http://www.cityofmlt.com/177>.

What do I need to know?

Conduit connecting circuits located in a garage per National Electric Code (2008) Article 625, the following are required:

- Additional circuit to accommodate a “level 2” (typically 220 to 240 volt) electric vehicle charging station.
- The location must be in an area where charging an electric vehicle would not require plugging in a cord across a doorway to a garage.
- Ventilation as applicable.

What does Rough-in mean?

“Rough-in” means accommodating for future installation of electric vehicle charging stations in accordance with the National Electric Code (2008) Article 625. This includes:

- Calculating all future electric vehicle charging stations into electrical load for the building.
- While electrical infrastructure to support the charging stations does not need to be installed immediately, items such as additional space in the electrical room for a larger transformer or other electrical equipment such as additional electrical panels must be designed. This includes:
 - The installation of open piping necessary to provide power to a future charging station;
 - A wiring system between the future electric charging station and the power source (such as the electrical room);

- Additional ventilation as applicable, and
- Electric vehicle ADA requirements as applicable (for 5 or more electric vehicle charging stalls).

Additional information

“Charging level” means the standardized indicators of electrical force, or voltage, at which an electric vehicle’s battery is recharged. Levels 1, 2, and 3 are defined by the electrical output, per the following specifications:

1. Level 1. Voltage including the range from zero through 120.
2. Level 2. Voltage greater than 120 and up to and including 240.
3. Level 3, fast or rapid charging Voltage greater than 240.



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The full text of the City code requirements for electric vehicles infrastructure can be viewed on the City's webpage at www.cityofmlt.com.

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Electrical Vehicle Charging Stations for Multifamily and Commercial



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Electric Vehicle Charging Stations for Multifamily and Commercial

(MTMC 19.126)



Permits and fees

An electrical permit is required for new electric vehicle charging stations. A mechanical permit may also be required.

What do I need to do?

Complete an electrical permit application form at City Hall or obtain the application online at: <http://www.cityofmlt.com/177>.

When is an electric vehicle charging station required?

Electric vehicle charging stations shall be provided when the development is 10,000 sq. ft. or more and one of the following occurs:

- A new building or a new off-street parking facility is developed;
- An addition or improvement to an existing building is made that meets a certain threshold; and

- The parking capacity of an existing building, site, or parking facility is increased by more than 50%.

If any of the above applies to the development, the table below indicates the required electric vehicle charging station spaces by type of land use.

Required Electric Vehicle Charging Stations	
Land Use Type	% of Parking Spaces*
Multi-household residential	10%
Lodging	3%
Retail, eating and drinking establishment	1%
Office, medical	3%
Industrial	1%
Institutional, Municipal	3%
Recreational/Entertainment/Cultural	1%
Other	3%
* An equal % of parking spaces shall have all electric vehicle infrastructure roughed-in for potential future electric vehicle stations.	

“Rough-in” means accommodating future installation electric vehicle charging stations consistent with the National Electric Code (2008) Article 625. This includes:

- While electrical infrastructure to support the charging stations does not need to be installed immediately, items such as additional space in the electrical room for a larger transformer or other electrical equipment and/or additional electrical panels, must be designed;

- Any open piping necessary to provide power to future charging stations must be installed. For example, the relocation of a 480 volt transformer from outside a building into an electrical room that goes to a step down transformer;
- A wiring system between a future electric charging station and a power source (such as the electric room); and
- Additional ventilation, as applicable.

Additional information

- At least one ADA accessible electric vehicle charging station is required for 5-50 parking spaces. Additional ADA electric vehicle stations are required for parking in excess of 50 spaces.
- Signs are required alerting that the electric vehicle charging station/parking stall is for electric vehicle charging, only.





Why go electric?

Electric vehicles are environmentally friendly, inexpensive, and reduce dependence on foreign fuels.

In the Greater Seattle area, 50% of air pollution comes from vehicles, equal to emissions from all other sources combined (such as manufacturing and building operation). Electric vehicles do not generate any pollution and utilize clean power from our State's hydro power plants.

Costs of electricity are considerably lower than gasoline. The long term costs of electric cars today is quite low, and the costs of new electric vehicles is coming down quickly (for instance, Mitsubishi is releasing an electric car in 2012 that will cost \$5,000 less than any other electric vehicle on the market).

Finally, electric cars are powered by fuel made in America.



How to Charge

Mountlake Terrace Transit Center Electric Vehicle Charging Stations

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How to Charge

Mountlake Terrace Transit Center Electric Vehicle Charging Stations



Ten electric vehicle charging stations are installed and ready to go at the Mountlake Terrace Transit Center.

These stations will meet the needs for the increasing number of electric vehicles, and support this extremely green and less expensive-to-operate form of transportation.

This brochure answers any questions on how to use the stations.

First off, where are the electric vehicle charging stations located?

They are located at the south side of the surface lot at the Mountlake Terrace Transit Center, 6001 236th Street SW.

Tell me more about the station capabilities.

Each station includes two charging ports – one at slower speed charging and one at medium speed.

Stations are UL-Listed, ensuring safe operation and quality. This includes operation features such as *turning off automatically when the vehicle is fully charged.*

Great, I found the stations, how do I pay?

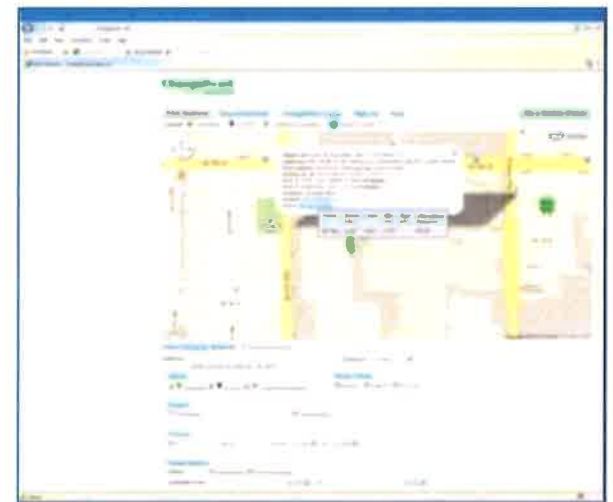
The easiest way to pay is to set up an account with the payment operator Chargepoint at www.chargepoint.net/chargepoint-card.php. Once you set up an account, simply swipe the provided card in front of the station to begin the charging session/unlock the charger.



Other methods include calling the telephone number on the charging station (if you have already set up a Chargepoint account) or using a credit card with a RFID tag.

Okay, I will be using the electric vehicle charging stations at the Mountlake Terrace Transit Center. Where else can I charge my electric vehicle?

There are numerous locations throughout the region with electric vehicle charging stations. One resource to find information is www.chargepoint.net/find-stations.php.



Another feature of the website is that it includes information about whether or not a charging station is in use.

Sounds good, what are the rates?

Rates have been set by the Mountlake Terrace City Council at \$0.85 per hour of electric charging, which is included in the minimum amount of \$1.50 and a maximum amount of \$3.00 per charging session. The rates may increase over time.