

EV Charging Station Plan Review Requirements City of Myrtle Beach, Construction Services 921 N Oak St, Myrtle Beach 29577 (843) 918-1111 www.cityofmyrtlebeach.com

## Overview

This document is intended to be a guide for the permitting of EV charging stations and may not contain all requirements needed to obtain permits and approval from the City of Myrtle Beach. Email any specific questions to <u>planreviewer@cityofmyrtlebeach.com</u>.

### The following are minimum requirements for plan review:

- Completed building permit application and electrical permit application.
- Site plan, if applicable.
- Tree Statement.
- HOA approval letter if installing in a residential HOA community or landlord approval.
- CAB approval for all ocean front single-family, multi-family and all commercial projects, if station is located outside of a building (see our website for CAB requirements).

### **Electrical Plans:**

In addition to the construction documents, include the minimum below for review. Additional electrical requirements may be required once electrical drawings are submitted for official review.

Type of Charging Station(s)	Power Levels (proposed circuit rating)
Level 1	110/120 VAC at 15 or 20 Amps
Level 2	208/240 VAC at 40 Amps
Level 3	277/280 VAC at 400 Amps Max or manufacture's specs

Other (Provide Detail) Provide Rating

### EV Chargers fed from existing electrical system requirements; provide the following:

- Engineered plans if the charging equipment is 277/480v or greater than 400 amps.
- General note of compliance with NEC 2020 Article 625 Electrical Vehicle Power Transfer System for the electrical installation on the electrical drawing.
- General note for the voltage drop for 3-percent feeders and 3-percent branch circuits, 5-percent total (feeders and branch) on the submitted electrical drawing.
- A one-line diagram showing raceways, conductors and overcurrent protection supplying the new EV chargers.
- Electrical specifications of EV chargers to include UL-2202 and UL-2594 listing and label information.
- Approved fire stopping system for all penetrations of fire rated assemblies.
- Revised existing panel schedule with demand load to now include the new EV chargers circuitry. Provide a panel schedule showing the load, new and existing to be placed on the panel servicing the new EV chargers.

# NEC 2020 Article 220.87 Determining Existing Loads. The calculation of a feeder or service load for existing installations will be permitted to use actual maximum demand to determine the existing load under all of the following conditions:

- The maximum demand data is available for a 1-year period.
- The maximum demand at 125 percent plus the new load does not exceed the ampacity of the feeder or rating of service.
- The feeder has overcurrent protection in accordance with NEC 240.4 and the service has overload protection in accordance with NEC 230.90.

## EV chargers fed from a new electrical service requirements:

- In addition to above EV chargers for an existing electrical system, provide an arc fault current calculation, showing the available fault current at the service mains breaker(s).
- Provide grounding detail showing all applicable grounding electrodes and grounding electrode conductor sizes.

## Required Inspections once permits are issued:

- Rough
- Courtesy Electric (Prepower)
- Final

# CITY OF MYRTLE BEACH BUILDING PERMIT APPLICATION

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Physical A						Use 🛛	Reside		District		Zone
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Description	of Work										
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Total Valuation			Plan R Fee	eview	·	Permit Fee			F	Permit #	·
Date Received		CAB / Date	Approva	al	BZA Approv Date	al			ntenance/ Yes 🗆 No		ate sued
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# CITY OF MYRTLE BEACH TRADE PERMIT APPLICATIONS

	PLUMBING PERM	/IT APPLICATION			ELECTRIC	AL PERM	T APPLICATION	
NO	TYPE OF FIXTURE OR ITE	M	FEE	NO	TYPE OF FIXTU	RE OR IT	EM	FEE
	WATER CLOSETS (TOILETS	)			RECEPTACLES			
	BATHTUB			SWITCHES				
	LAVATORY (WASH BASIN)				LIGHTS			
	SHOWER				RANGES AND OVI	ENS		
	KITCHEN SINK AND DISPO	SAL			DRYER (CLOTHES)	)		
	DISHWASHER				WATER HEATER			
	LAUNDRY TRAY				AIR CONDITIONE	R(S)		
	CLOTHES WASHER				HEAT			
	WATER HEATER				SUB PANEL			
	URINAL				TEMPORARY SER	VICE		
	DRINKING FOUNTAIN				COMMERCIAL OR	R RESIDEN	TIAL METER(S)	
	FLOOR DRAIN				PERMIT FEE			
	UTILITY SINKS				TOTAL FEE			
	ICE MACHINES			CONT	RACTOR:			
	GREASE INTERCEPTORS/O	R TRAPS		ADDF	RESS:			
	VACUUM BREAKERS/HOSE	E BIBS		CONT	ACT AND PHONE:			
	SEWER			TOTA	L JOB VALUE:			
	PERMIT FEE			CITY I	LIC. NO.		STATE LIC. NO.	
	TOTAL FEE			PERM	1IT NO.: E		DATE ISSUED:	
CON	TRACTOR:							
ADD	RESS:							
CON	TACT AND PHONE:							
	AL JOB VALUE:	T			Signature of A	Applicant	(Please Print Name)	
-	LIC. NO.	STATE LIC. NO.		<b></b>				
PERI	MIT NO.: P	DATE ISSUED:				CAL PERN	IIT APPLICATION	
				NO	TYPE OF ITEM			FEE
					CENTRAL AC UNIT	T/HEAT P	JMP	
					DUCTWORK			
	Signature of Applican	t (Plaga Print Nama)				BF PERMIT	FOR SUPPRESSION	
Signature of Applicant (Please Print Name)					SYSTEM)			
				CONT	TOTAL FEE			
	GAS PERMIT				RACTOR:			
NO	TYPE OF FIXTURE OR ITEN		FEE	ADDF				
	GAS HOOKUPS PER APPLIA	ANCE			ACT AND PHONE:			
	PERMIT FEE				L JOB VALUE:			
	TOTAL FEE				LIC. NO.		STATE LIC. NO.	
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	TACT AND PHONE: AL JOB VALUE:							
	LIC. NO.				Signature of 4	Annlicant	(Please Print Name)	
	MIT NO.: G	STATE LIC. NO. DATE ISSUED:			Signature Of P	ppicult		
PERI	VIT NO G	DATE ISSUED.			175.			
——	Signature of Annlican	t (Please Print Name)		MAST	ER PERMIT #:			
	Signature of Applicul			Email	:			
Ρ	lease check one:	No Subs	Subs	(attac	h list) 🛛 🗖	May U	se Subs (attach	list)

Construction Services, 921 N Oak St, Myrtle Beach, SC 29577 Ph: 843-918-1111 Remit to: <u>permittech@cityofmyrtlebeach.com</u> or fax 843-918-1158



Construction Services City of Myrtle Beach

Project Address:				
Horry County PIN or Th				
Name of Property Owne	r:			
Phone:		Email:		
Type of Construction:	Commercial	Multi-family	□ Residential	
New Construction, Addit (Check all that apply and		es or Accessory Structu	res	

Tree survey combined with the proposed site plan, drawn and sealed by a registered surveyor, showing the location, type and diameter of the tree in accordance with City of Myrtle Beach Zoning Code Section 903.H. Trees to be removed due to proposed construction should be clearly labeled on site plan.

\_\_\_\_\_ There are no trees are on the property.

Proposed construction will not affect any trees on the property; tree protection must be in place for all remaining trees. Inspection must be performed prior to plan approval; contact Charles Rowe at 843-918-1179 or crowe@cityofmyrtlebeach.com) or Matt Brooks at 843-918-1166 or mbrooks@cityofmyrtlebeach.com.

Signature of Applicant (Owner or Authorized Agent)

**Printed Name of Applicant** 

Date

1	ORDINANCE 2023-4
2 3 4 5 6 7 8 9	CITY OF MYRTLE BEACH COUNTY OF HORRY STATE OF SOUTH CAROLINA TO AMEND SECTIONS 203 TO DEFINE ELECTRIC VEHICLE CHARGING STATIONS AND 1502 TO ALLOW ELECTRIC VEHICLE CHARGING STATIONS AS ACCESSORY USES WITH CONDITIONS.
10 11 12 13 14	<b>IT IS HEREBY ORDAINED</b> that Section 203 of the Code of Ordinances, City of Myrtle Beach, Appendix A Zoning is hereby amended by adding a new definition for Electric Vehicle Charging Stations which reads as follows:
15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	<ul> <li>Electrical Vehicle Charging Stations (EVCS): A public or private parking space that is served by level 1, level 2, and/or level 3 battery charging station equipment including but not limited to power cabinets, conduit/wiring, structures, machinery, and equipment integral to supporting an electric vehicle for the purpose of transferring electric energy to a battery or other energy storage device in an electric vehicle.</li> <li>EV Charging Station, Level 1: Level 1 provides charging through a 120 volt (V), alternating-current (AC) plug. Level 1 is considered as slow charging. Level 1 charging equipment is standard on vehicles and therefore does not require the installation of charging equipment.</li> <li>EV Charging Station, Level 2: Level 2 charging is through a 240V, AC plug and requires installation of home charging or public charging equipment. These units require a dedicated 40 amp circuit.</li> <li>EV Charging Station, Level 3/Direct Current Fast Charging (DCFC): • Level 3 or DCFC charging is through a 480V, direct-current (DC) plug.</li> </ul>
30 31 32 33 34	<b>IT IS FURTHER ORDAINED</b> that Section 1502 of the Code of Ordinances, City of Myrtle Beach, Appendix A Zoning is hereby amended by adding a new subsection as follows: 1502.X. Level 1 and 2 EV Charging Stations can be an accessory use for all permitted
35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	<ul> <li>1952.X. Level 1 and 2 EV charging stations can be an accessory use for all permitted uses/zoning districts and level 3 EV Charging Stations can be an accessory use for all permitted uses/zoning districts except for residential uses in the City of Myrtle Beach with the following conditions: <ol> <li>Parking provided for the purpose of EV Charging Stations must meet the requirements as outlined in Article 10, Parking and Loading Requirements.</li> <li>EV charging cabinets and other infrastructure components commonly used in providing EV charging, excluding the individual EV charging stations, must be set back a minimum of 10 feet from any property line.</li> <li>EV charging cabinets and other infrastructure components commonly used in providing EV charging, excluding the individual EV charging stations and cabinets interior to a permitted building, must provide adequate landscape screening in addition to the following: <ul> <li>A minimum of one shrub, at least 18 inches tall immediately after planting, per three linear feet of perimeter around the area of the EV charging cabinets.</li> </ul> </li> </ol></li></ul>

1 2 3 4 5	<ul> <li>The remainder of the landscaped area around the EV charging cabinets shall be maintained with an approved ground cover.</li> <li>Curbing or other types of vehicular barriers acceptable to the zoning administrator shall be placed around the area of the EV charging cabinets for protection.</li> </ul>
6	4. Signage for EV Charging Stations may include the following:
7	<ul> <li>The logo/name of the provider of the EV charging on each charging</li> </ul>
8	station with a maximum area of no more than 3 square feet per station.
9	<ul> <li>Charging stations are permitted to display the information for the payment</li> </ul>
10	methods accepted, direction of use for the charging station, contact
11	information for the company and any required safety information.
12	5. Lighting for the area of the EV Charging Stations must adhere to the regulations
13	set by Article 12, Lighting and Glare, for the zoning district of the property.
14	
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16	
17	This ordinance will take effect upon second reading.
18 19	
20	
20	$\Lambda$ $\Lambda$ $\Lambda$
22	Manuly Betterel
23	BRENDA BETHUNE, MAYOR
24	
25	ATTEST:
26	1.0 Mat
27	Clenning Marins
28	JENNIFER ADKINS, CITY CLERK
29	
30	1 <sup>st</sup> Reading: 2-14-2023
31	2 <sup>nd</sup> Reading: 2-28-2023
32	