



Saris Cycling Group 5253 Verona Road Madison WI 53711 Ph: 800.783.7257 www.sarisinfrastructure.com



Shelter requirements:

Saris recommends a roof or shelter for outdoor installations to • provide added protection against sun (heat) and rain protection for the charging connection at the e-bike.



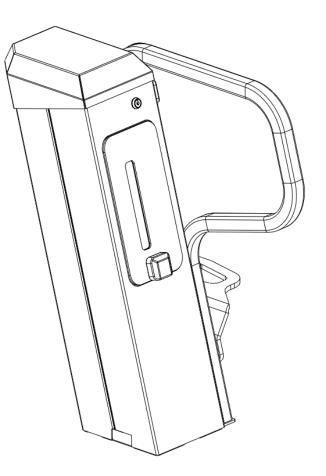
Electrical requirements:						
•	Power must be supplied to t	the				

- charging station. This power needs to be installed per the requirements in the National Electrical Code (NEC), ANSI/NFPA 70, or the Canadian Electrical Code (CEC), Part 1, CAN/CSA C22.1 or local requirements where applicable.
- Circuit breaker required. Recommended circuit breaker sizes shown in table.
- Recommend installation to be done by licensed electrician ٠

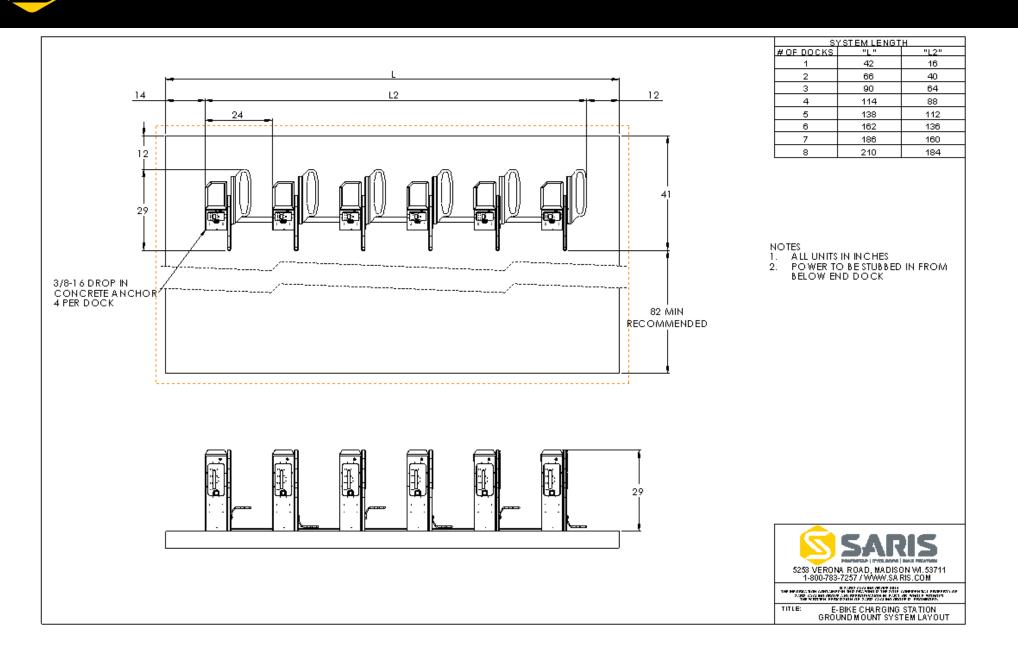
CIRCUIT BREAKER SIZES					
MARKET	BREAKER SIZE				
USA/CAN	120V, 25A				
EU/AUS/NZ	230V, 20A				
UK	230V, 16A				



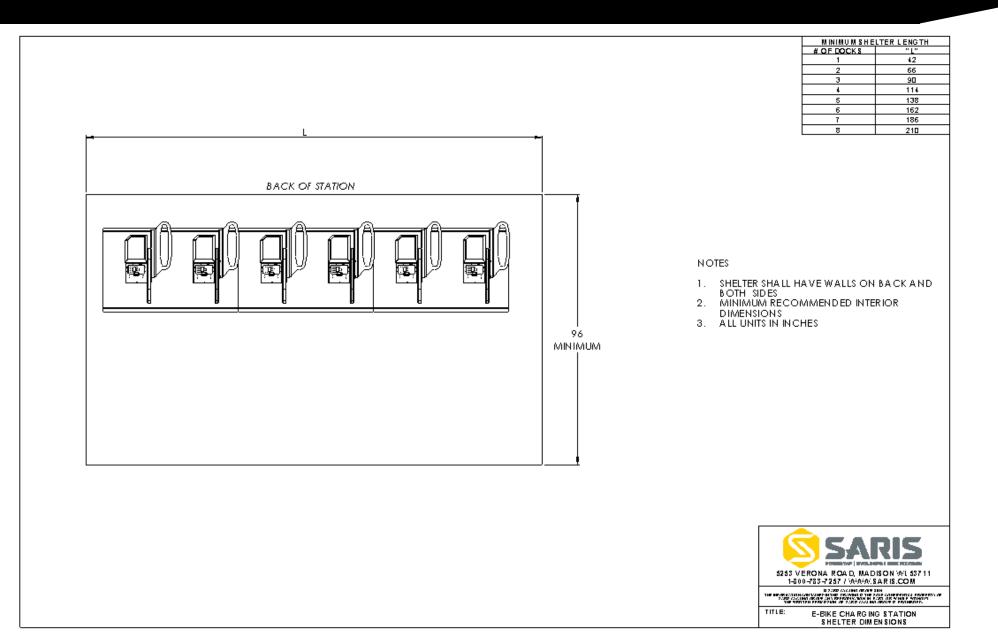
Step 1: Review site layout document to determine required space and setbacks for charging stations. Determine power source for site. Main power should be connected to a circuit breaker.



Site layout: Ground Mount System

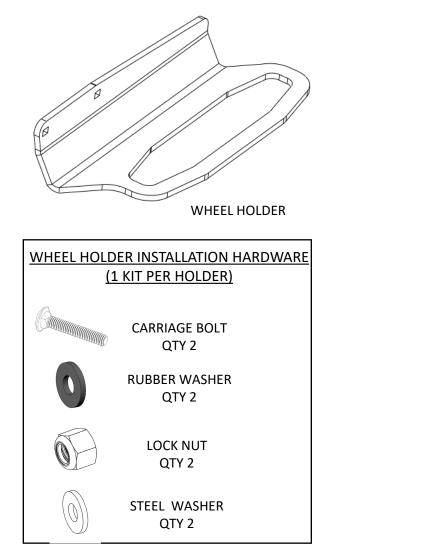


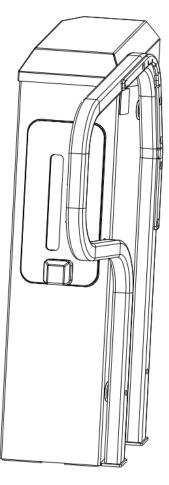
Site layout: Recommended Shelter Dimensions





GROUND MOUNT SYSTEM COMPONENTS





<u>Anchors</u>

 3/8 OR M10 ANCHORS (CAN BE PURCHASED FROM SARIS INFRASTRUCTURE, part #28879) QTY 4 PER DOCK

TOOLS REQUIRED for Install

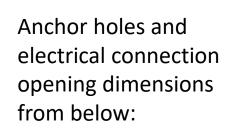
- T-25 Security Torx Bit
- 9/16" OR 14MM SOCKET
- 10MM SOCKET
- RATCHET
- TORQUE WRENCH
- SMALL FLAT BLADE
 SCREWDRIVERS

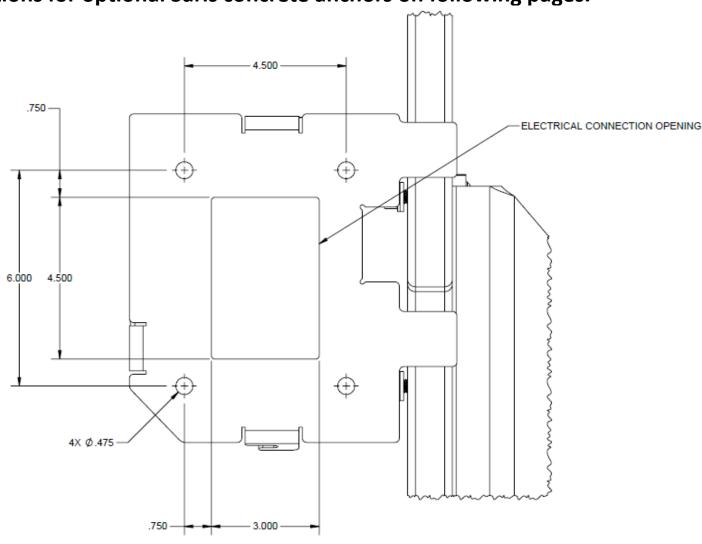
Tools required for above ground electrical supply

• Knockout punch or step drill



Step 2: Remove rear panel. Mark docks for anchoring. Remove docks and install anchors per manufacturer's instructions. Installation instructions for optional Saris concrete anchors on following pages.

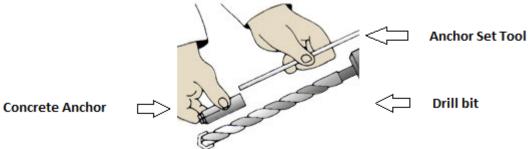




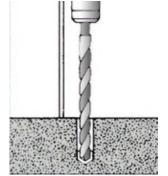


Install 4 concrete anchors for each dock. The concrete anchor (a.k.a "drop in anchor") Step 4: is a female anchor designed for use in solid concrete only and cannot be used in brick or block base material. The anchor size is designated by the inside diameter of the anchor. The diameter of the hole to be drilled is the same size as the outside diameter of the anchor which is $\frac{1}{2}$ ".

When fastening to solid concrete with a drop in anchor, a hole must first be drilled into the concrete. A hammer drill should be used as it will drill the best quality hole. Once the bit is inserted into the hammer drill, the depth of the hole to be drilled can easily be set by using the depth gauge on the drill or by wrapping the bit with tape at the required depth. We recommend a drill depth of 1-5/8" deep so that the anchor just sets down flush with the surface.



Before starting to drill the hole, it is important that eye and ear protection are used. Make sure the hammer drill is in the hammer mode and start drilling your hole. Continue drilling until the tape on the bit or the drill gauge meets the base material- this means that the required depth has been reached.



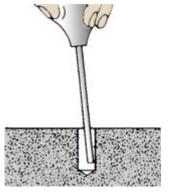


Step 5: Before proceeding with installation, the hole must be cleaned of all concrete dust to ensure proper fastening. Use a wire brush, a vacuum or compressed air to clean out the hole completely.

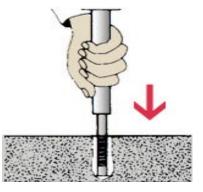
Step 6: Next, insert the drop-in anchor with the open side up. Tap lightly to get the anchor flush with the base material.

Step 7: Now, take the setting tool and insert it into the anchor. Strike the setting tool with the hammer several times until the set tool no longer moves down. This will ensure the anchor is properly set.

Step 8: Reinstall docks into position. Before securing anchors, make sure to place conduit pieces between docks. Tighten anchor hardware.

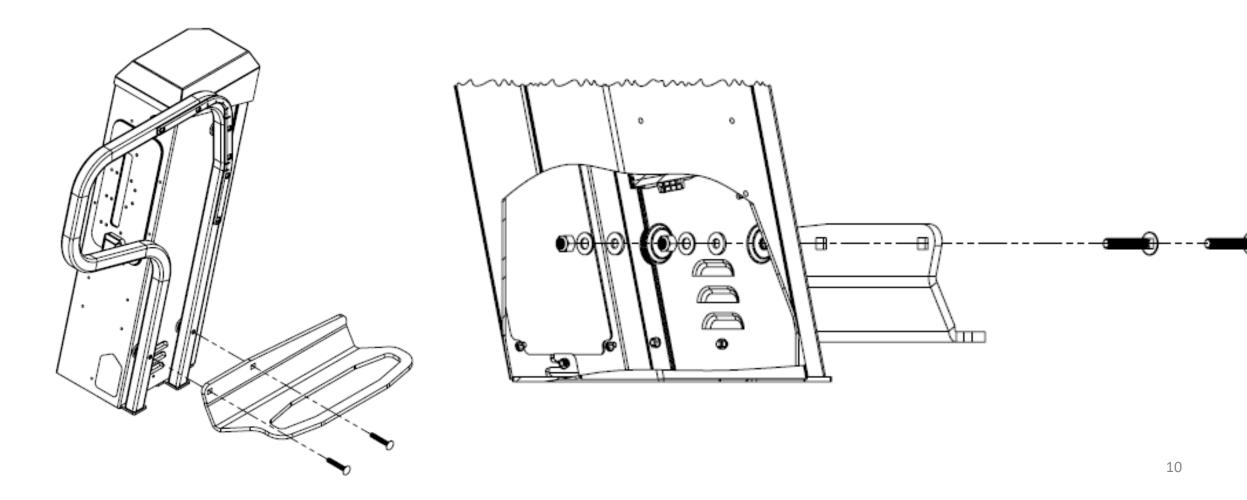


Tool to remove debris after drilling holes. Installer provides.



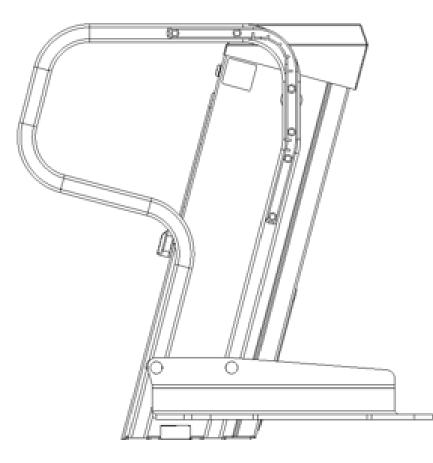


Step 10: Install wheel holders to each dock. Note correct orientation of wheel holder. Insert carriage bolts through wheel holder into the dock. Inside of dock, install in order the rubber washer, steel washer, and locknut onto the carriage bolt. Using 9/16" or 14mm socket, torque to 20-27 N-m (15-20 ft-lbs).





Step 10 cont.: Assure wheel holder is installed in the correct orientation



CORRECT ORIENTATION

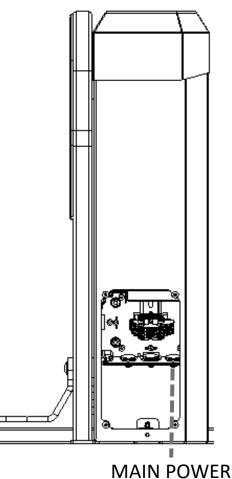


Step 11: Wire mains power to junction box in dock per local codes. Terminal blocks are marked for Line, Neutral, and Ground connections. Power can be plumbed up from below the unit or a through a knockout placed in the rear of the unit to the right of the access panel.

Rear view of ground mount system

• If knockout used, debur edges and use watertight connection







Step 12: When all connections have been made, energize mains power. Test each outlet to ensure that power is present at each outlet. Reinstall junction box covers and access panels.



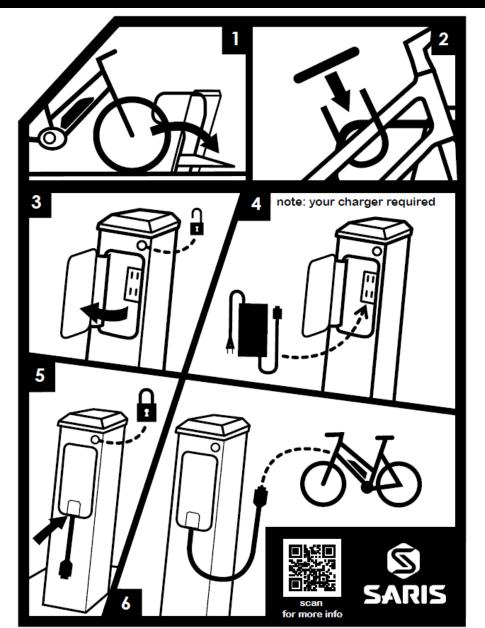
Maximum Receptacle Amperage/Wattage: USA/Canada			Maximum Receptacle Amperage/Wattage: EU		Maximum Receptacle Amperage/Wattage: UK			Maximum Receptacle Amperage/Wattage: AUS/NZ			
Model #	# of Docks	Max Amps/Watts	Model #	# of Docks	Max Amps/Watts	Model #	# of Docks	Max Amps/Watts	Model #	# of Docks	Max Amps/Watts
84101320	1	20/2400	84201320	1	16/3600	84301320	1	13/2990	84401320	1	15/3450

RATINGS BY MODEL #						
Model # Input Rating		Output rating				
84101320	120V/20A ~ 60Hz	120V/20A ~ 60Hz				
84201320	230-240V/16A ~ 50Hz	230-240V/16A ~ 50Hz				
84301320	230-240V/13A ~ 50Hz	230-240V/13A ~ 50Hz				
84401320	230-240V/15A ~ 50Hz	230-240V/15A ~ 50Hz				

FCC NOTICE

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.





Standard system User Instructions:

Step 1: User parks their bike at the dock using the wheel holder.

Step 2: Lock bicycle frame with U-lock.

Step 3: User gains access to locker with key. Keys will typically be supplied/controlled by a property manager or similar authority.

Step 4: User will place their charger into the locker and plug into the provided receptacle.

Step 5: User is instructed to route charger output cable through a port at the bottom of the door and to securely close the door

Step 6: User can then plug charge cable to the charge port on the parked bicycle



Locker can be secured with any standard padlock

Push door closed to activate latch

To open, rotate upper latch to the right to release door latch



