

20 Gloucester St.

Electric Vehicle (EV) Charging Station Installation

Residential Application: 18.376 BB

Michael Gray

Three deeded parking places off Public Alley #428 belong to three of the owners at 20 Gloucester St.
First parking spot on left to get EV.



Deeded parking space

20 Gloucester St., Sept. 10, 2017

Installation will take advantage of existing electrical wiring that exits building rear.



20 Gloucester St. Sept. 10, 2017

A 30' long trench, 18" deep will be dug into the asphalt to bury the new electrical line connecting building power supply to the charging station. Charging station to be on left, inside the brick column

Location of charging station

Deeded parking space



Existing electrical line

20 Gloucester St., Sept. 10, 2017

The charging station will not be attached to the brick wall. No work will be done on the 20 Gloucester building or facade during charging station installation.



Location of charging station

20 Gloucester St., Sept. 10, 2017

The electrical wires will be buried and the charging pedestal tucked against the wall.



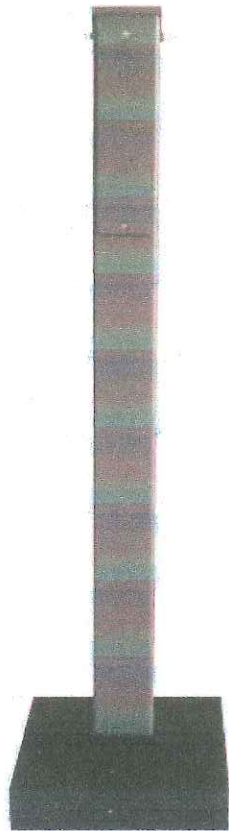
Free standing charging pedestal

Buried electrical line in trench



20 Gloucester St., Sept. 16, 2017

Sep. 17, 2017
20 Gloucester Street
Boston, MA 02115



Dimensions of Pedestal
L: 51" W: 14" D: 8.25"



- [Description](#)
- [Specifications](#)
- [Reviews \(0\)](#)
- [Downloads \(1\)](#)

CLIPPERCREEK

RELIABLE. POWERFUL. MADE IN AMERICA.

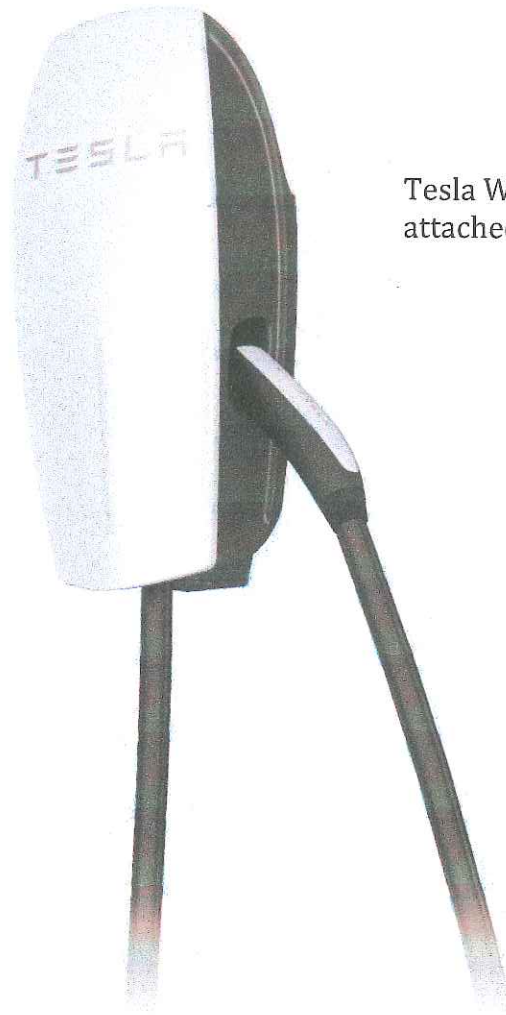
TESLA® Wall Connector Pedestal

- Product Code: 0300-00-022
- Availability: In Stock

• **\$659.00**



Sep. 17, 2017
20 Gloucester Street
Boston, MA 02115



Tesla Wall Connector will be
attached to the Pedestal.

WALL CONNECTOR, 80A SINGLE PHASE INSTALLATION MANUAL

Approved Markets: North America, Japan, Taiwan, South Korea

For additional languages, please visit: www.tesla.com/wallconnector

Design and installation from Tesla, with MA licensed electrician.

INSTALLATION NOTES							
PARTS FOR PO PURCHASE (NOT OCCURRING IN GREAT PLAINS)							
QTY	MANUFACTURERS PART NUMBER AND DESCRIPTION						
*	*						
*	*						
*	*						
*	*						
*	*						
*	*						
<table border="1"> <thead> <tr> <th>AHJ SPECIFICS:</th> <th>DESIGNER NOTES:</th> <th>INSTALLATION SPECIFICS:</th> </tr> </thead> <tbody> <tr> <td> <p>NATURAL GAS CLEARANCE: A 36" HORIZONTAL CLEARANCE IS REQUIRED FOR ELECTRICAL METERS & SWITCHES THAT COULD CREATE AN ARCING/ EXPLOSION HAZARD. THIS IS MEASURED FROM THE CENTER OF THE GAS REGULATING VENT TO THE CENTER OF THE ELECTRICAL COMPONENT.</p> <p>WHEN INSTALLING SC YARD SIGNS THE SC CORPORATE ELECTRICAL LICENSE # MR1136 SHALL BE ADDED TO THE SIGN PER 237 CMR 18.01(2) MGL UNTIL THE MODIFIED SIGNS INCLUDING THIS ARRIVE. THIS CAN BE DONE WITH AN APPROPRIATE MEANS SUCH AS A P-TOUCH LABEL MAKER.</p> <p>USE PVC WHEN WE ARE WITHIN 4 MILES OF THE COAST.</p> <p>-4% OF UTILITY'S PEAK LOAD FOR PRIVATE ENTITIES -5% OF UTILITY'S PEAK LOAD FOR PUBLIC ENTITIES</p> <p>NEW BILL IS CURRENTLY BEING PROPOSED TO REMOVE NET METER CAP. WILL UPDATE ONCE NET METER CAP IS REMOVED.</p> </td> <td> <p><u>Connector Type:</u> -Wall Connector -Setting C</p> <p><u>Location:</u> -Tie in at new main panel -Installing new CSED meter-main in basement</p> <p><u>Tie-in:</u> - Tie in with new 90A breaker directly to bussing of new panel</p> <p><u>Conduit Run:</u> Trenching required -conduit will run to exterior from basement -from there 30' trench through hardscape</p> </td> <td> <p><u>SAFETY CONCERNS:</u></p> </td> </tr> </tbody> </table>		AHJ SPECIFICS:	DESIGNER NOTES:	INSTALLATION SPECIFICS:	<p>NATURAL GAS CLEARANCE: A 36" HORIZONTAL CLEARANCE IS REQUIRED FOR ELECTRICAL METERS & SWITCHES THAT COULD CREATE AN ARCING/ EXPLOSION HAZARD. THIS IS MEASURED FROM THE CENTER OF THE GAS REGULATING VENT TO THE CENTER OF THE ELECTRICAL COMPONENT.</p> <p>WHEN INSTALLING SC YARD SIGNS THE SC CORPORATE ELECTRICAL LICENSE # MR1136 SHALL BE ADDED TO THE SIGN PER 237 CMR 18.01(2) MGL UNTIL THE MODIFIED SIGNS INCLUDING THIS ARRIVE. THIS CAN BE DONE WITH AN APPROPRIATE MEANS SUCH AS A P-TOUCH LABEL MAKER.</p> <p>USE PVC WHEN WE ARE WITHIN 4 MILES OF THE COAST.</p> <p>-4% OF UTILITY'S PEAK LOAD FOR PRIVATE ENTITIES -5% OF UTILITY'S PEAK LOAD FOR PUBLIC ENTITIES</p> <p>NEW BILL IS CURRENTLY BEING PROPOSED TO REMOVE NET METER CAP. WILL UPDATE ONCE NET METER CAP IS REMOVED.</p>	<p><u>Connector Type:</u> -Wall Connector -Setting C</p> <p><u>Location:</u> -Tie in at new main panel -Installing new CSED meter-main in basement</p> <p><u>Tie-in:</u> - Tie in with new 90A breaker directly to bussing of new panel</p> <p><u>Conduit Run:</u> Trenching required -conduit will run to exterior from basement -from there 30' trench through hardscape</p>	<p><u>SAFETY CONCERNS:</u></p>
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SAFETY PLAN

INSTRUCTIONS:

1. USE SYMBOLS IN KEY TO MARK UP JCO SHEET.
2. SAFETY PLANS MUST BE MARKED BEFORE JOB STARTS AS PART OF THE PRE-PLAN.
3. DOCUMENT ALL ADDITIONAL HAZARDS ON THIS PAGE & MAKE NOTES ON THE JCO SHEET

IN CASE OF EMERGENCY:

NEAREST HOSPITAL OR OCCUPATIONAL/INDUSTRIAL CLINIC

NAME _____

ADDRESS _____

SAFETY COACH CONTACT INFORMATION

NAME _____

PHONE _____

ALL EMPLOYEES ON SITE SHALL BE MADE AWARE OF THE SAFETY PLAN AND SIGN INDICATING THAT THEY ARE AWARE OF THE HAZARDS ON-SITE AND THE PLAN FOR WORKING SAFELY.

NAME SIGNATURE

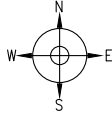
FALL COMPETENT

ELECTRICAL QUALIFIED

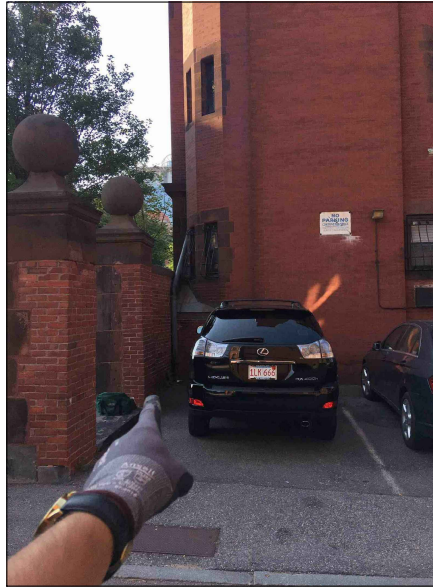
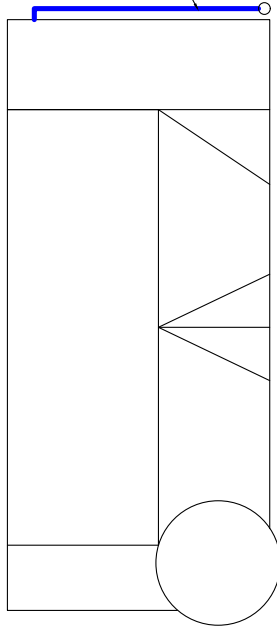
DATE: _____ TIME: _____

SELECT ELECTRICAL TIE IN METHOD

MAIN / SUB BREAKER/TAP



(NO) 30" TRENCH
 - 18" DEEP
 - CONDUITS: 1" SCH. 40
 - PVC WITH MARKING
 - 8" BELOW
 - GRADE
 - TRENCH THROUGH
 - HARDSCAPE



MARK UP KEY

- P PERMANENT ANCHOR
- T TEMPORARY ANCHOR
- D DELINEATOR FOR WARNING LINE (LOW-SLOPE ROOF ONLY)
- G GUARD RAIL STANCHION (LOW-SLOPE ROOF ONLY)
- IL INSTALLER LADDER
- AL AUDITOR LADDER
- B JUNCTION/COMBINER BOX
- S STUBOUT
- ☒ SKYLIGHT
- NO LADDER ACCESS (STEEP GRADE OR GROUND LEVEL OBSTRUCTIONS)
- ▨ RESTRICTED AREA (SOLARCITY EMPLOYEES ONLY)
- CONDUIT
- GAS GAS SHUTOFF
- H₂O WATER SHUTOFF
- 7 SERVICE DROP
- Z POWER LINES

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JOB NUMBER: JB-100014 00
 MOUNTING SYSTEM: *
 MODULES:
 INVERTER:

PREMISE OWNER:
 MICHAEL GRAY
 20 GLOUCESTER ST
 BOSTON, MA 02115

DESCRIPTION:
 Michael Gray RESIDENCE
 EV CHARGING STATION

PAGE NAME:
 SAFETY PLAN

DESIGN:
 *

SHEET: 3 SafetyPlan.qxd
 REV: DATE: 9/16/2017



This is a worksheet for on-site use as needed. All information **must** be transferred/uploaded through the digital app for all jobs (including the 2 cell phone pics).

ELECTRICAL TESTING					JOB PHOTOS	
Irradiance reading must be taken in the plane of array and at the same time as the I_{MP} and P_{AC} measurements.					<input type="checkbox"/>	Finished array photo (pullback)? Take these photos with your phone.
INVERTER #1: SERIAL NUM:					<input type="checkbox"/>	String Diagram / Safety Plan? with your phone.
STRING:					<input type="checkbox"/>	All inverter or meter labels.
V _{OC}					<input type="checkbox"/>	Picture of main disconnect in off position.
I _{MP}					<input type="checkbox"/>	Worker in electrical PPE testing the system or completing tie-in.
IRRADIANCE					<input type="checkbox"/>	All ladders set up.
Power (W) P _{AC} :					<input type="checkbox"/>	System used to raise modules to roof.
INVERTER #2: SERIAL NUM:					<input type="checkbox"/>	Fall arrester or restraint with employees while in use.
STRING:					<input type="checkbox"/>	A hazard encountered that isn't noted in the SolarWorks case notes or mentioned in the project preplan.
V _{OC}					<input type="checkbox"/>	Unflashed, installed anchor.
I _{MP}					<input type="checkbox"/>	Flashed anchor.
IRRADIANCE					<input type="checkbox"/>	In process penetration.
Power (W) P _{AC} :					<input type="checkbox"/>	Combo / J box location / Wiring.
INVERTER #3: SERIAL NUM:					<input type="checkbox"/>	Array wire management / grounding.
STRING:					<input type="checkbox"/>	Rafter upgrades.
V _{OC}					<input type="checkbox"/>	All electrical equipment wiring / grounding.
I _{MP}					<input type="checkbox"/>	All electrical equipment locations / working clearance.
IRRADIANCE					<input type="checkbox"/>	All conduit, including stubout.
Power (W) P _{AC} :						<u>Explain if any photos are missing:</u>

JOB INFO			
Did you walk customer through system operation?	Y / N	What and where is the grounding means?	Y / N
Does customer have the gateway connected?	Y / N		
Is grounding mechanism accessible for inspection?	Y / N		
Was placard installed?	Y / N		
Which ladders are required for roof access?	12 24 36		
Are there internal conduit runs?	Y / N		
Are there locked gates that need to be accessed?	Y / N		
Did we tie into an existing subpanel?	Y / N		
Does as-built match approved drawings?	Y / N	Are there punch list items remaining?	Y / N

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 *
 SHEET: 4_JCO SHEET_018/2017
 REV: DATE:



JOB HAZARD ANALYSIS

Crew leader to fill out all sections below, hold a pre-job safety meeting with all personnel, and upload this completed document and the Safety Plan to the JCO.

Ladder Access

- Ladders must be non-conductive, inspected before each use.
- Extension ladders must be set up on a firm and level surface at a 4-to-1 rise-to-run angle (or 75 degrees) and the top must be secured to the structure. Extension style ladders placed on uneven, loose or slippery surfaces must additionally have the base firmly anchored or lashed so the base will not slip out.
- Extension ladders must be used with walk-through devices or the ladder must extend 36" above the stepping off point.
- A-frame ladders must only be climbed with the ladder spreader bars locked in the open position; A-frame ladders shall not be climbed while in the closed position (ex, closed and used while leaned against a structure).

Additional Notes:

Mobile Equipment

- Only Qualified operators will operate equipment; operators must maintain a certification on their person for the equipment being operated.
- Type(s) of mobile equipment (type/make/model):
- Qualified operator(s):

Material Handling and Storage

- Materials will be staged/stored in a way that does not present a hazard to client, personnel or public. Materials stored on the roof will be physically protected from falling or sliding off.

Fall Protection

- A Site-specific plan for fall prevention and protection is required prior to starting work and must remain onsite at all times until work is complete; a fall rescue plan must be outlined and discussed among the crew prior to work start.
- The Competent Person is required to be onsite at all times while work at heights is ongoing.
- First-Person-Up (FPU) must install their anchor and connect before any other task, including installing other anchors. The Last-Person-Down (LPD) must be the only person on a roof uninstalling fall protection.

FPCP (name and title):

FPU and LPD (name and title):

Electrical Safety

- The Electrical Qualified Person (EQP) is required onsite to perform electrical work.
- All electrical work will be performed with equipment in an electrically safe condition (de-energized) unless approval has been granted prior to work start.
- Service drops and overhead electrical hazards will be identified and protected from contact, as necessary.
- EQP (name and title):

Public Protection

- The safety of the Client and the Public must be maintained at all times.
- The Client and the Public shall be prevented from entering the work zone through the use of barriers and/or signage, as required.
- Company, Client and Public property shall be protected from falling objects.
- Pets (including dogs) shall be secured by their owners prior to work start.
- The client should not leave pets, family members, or others in charge or care of Employees, Contractors, or Temporary Workers.
- Crew leader responsible for communication with the client:

- Pets barricaded away from work areas (N/A, Yes, No):
- Client and public is excluded from work area by barricades (N/A, Yes, No):

Training And Pre-Job Safety Briefing

- All employees onsite shall be made aware of the specific hazards of this project and review this JHA during a pre-job briefing, and their signature indicates awareness of site conditions and the plan to eliminate any hazards identified prior to and during the project.

- Crew Leader (name/title):
- Crew Member (name/title):
- Crew Member (name/title):
- Crew Member (name/title):
- Crew Member (name/title):
- Crew Member (name/title):

Asbestos Contaminants:

- Asbestos-containing (Transite) piping (ACP) - Do not disturb (move, drill, cut, fracture, etc.)
- Asbestos-containing exterior building siding (ACS) - Only Asbestos Class III trained personnel can drill or cut into ACS material, and only for purposes of mounting BOS equipment; a completed Asbestos Work Permit is required onsite at all times prior to working with ACS.
- Asbestos-containing thermal insulation (ACI) and Asbestos-containing duct wrapping (ACW) - do not disturb; no attic or crawlspace access is allowed if work to be performed could cause exposure to personnel, client or public.

Is work around ABC or ABC containing materials being conducted (N/A, Yes, No):

If yes, list specific tasks and protection in place:

Weather and Environment

- The site supervisor shall forecast the weather conditions at the job site, prior to crew arrival, in order to mitigate any hazards associated with inclement weather (heat, cold, wind, rain, etc.).
- The site supervisor will utilize a portable wind meter (anemometer) to verify actual onsite wind conditions, by checking speed at the ground and on any elevated work surface (ex, rooftop) prior to work start, at midday and prior to solar panel staging on a roof.
- Elevated work involving the moving or maneuvering of solar panels shall cease at 25mph (sustained wind), until wind subsides.

- Forecasted weather maximum temp (degrees F):
- Measured wind speed (MPH ground):
- Measured wind speed (MPH roof):

Heat Related Illness Prevention

- Employees shall have access to potable drinking water that is fresh, pure, and suitably cool. The water shall be located as close as practicable to the areas where employees are working. Water shall be supplied in sufficient quantity at the beginning of the work shift to provide at least one quart per employee per hour for drinking for the entire shift. Employees may begin the shift with smaller quantities of water if they identify the location and have effective means for replenishment during the shift to allow employees to drink one quart or more per hour. The frequent drinking of water shall be encouraged.
- Shade shall be present when temperature exceeds 80 degrees Fahrenheit. When the outdoor temperature in the work exceeds 80 degrees Fahrenheit, employees shall have and maintain one or more areas with shade at all times.
- New employees must be acclimatized. New employees will be monitored by their Crew Leader (site supervisor) for the first two (2) weeks of employment or longer when necessary.
- Employees will be allowed and encouraged to implement scheduled breaks during each shift. Employees must take cool-down breaks in the shade any time they feel the need to do so to protect them from overheating. Supervisors are REQUIRED to allow employees any break period they need during high heat conditions.
- Cool Vests are encouraged for all employees at all times during periods of high heat.
- Identify the location of the closest Occupational/Industrial Clinic or Hospital in case a crew member becomes ill.

What is the specific plan to provide and replenish sufficient water for all employees onsite?

- If offsite replenish is necessary, where will you go to replenish water (location/address):
- Who will replenish the drinking water (name):

Restroom Facilities

- Employees shall have access to restroom facilities with hand-washing stations. Use of onsite restroom is at the client's discretion (location is noted below). If client does not give permission, location of suitable restroom facilities with hand-washing stations at an offsite will be provided. The onsite supervisor will identify location and make arrangements to ensure all employees have access at any point.

- Restroom facilities will be (circle one): Onsite - Offsite
- If offsite, add location name and address:

Incident Reporting Procedure

- Contact your Site Supervisor
 - Name:
 - Phone:
- Contact your Manger
 - Name:
 - Phone:
- Contact the Incident Hotline
 - (650) 963-5678 - Follow the voice prompts and provide us with:
 - Your full name, phone number, office location, brief description of what happened and when.

NOTE ADDITIONAL HAZARDS NOT ADDRESSED ABOVE (add as many as necessary by using additional sheets):

Define the hazard:	Method/steps to prevent incident:

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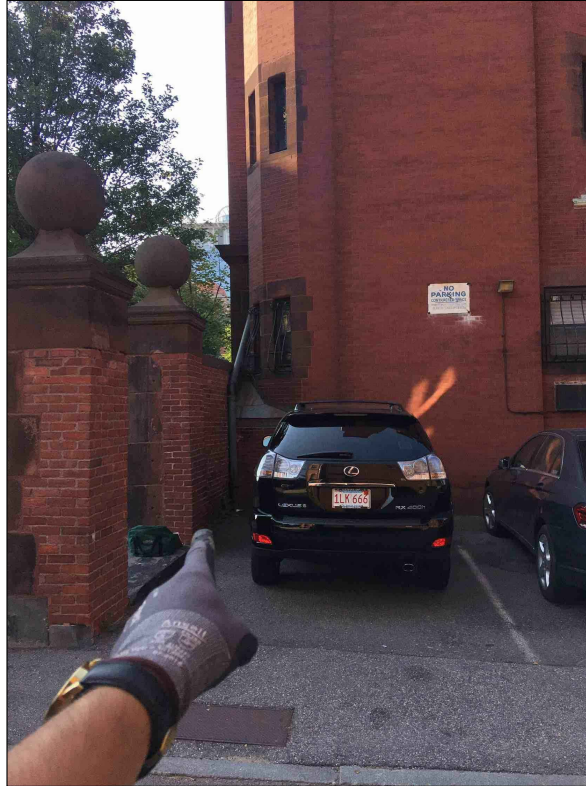
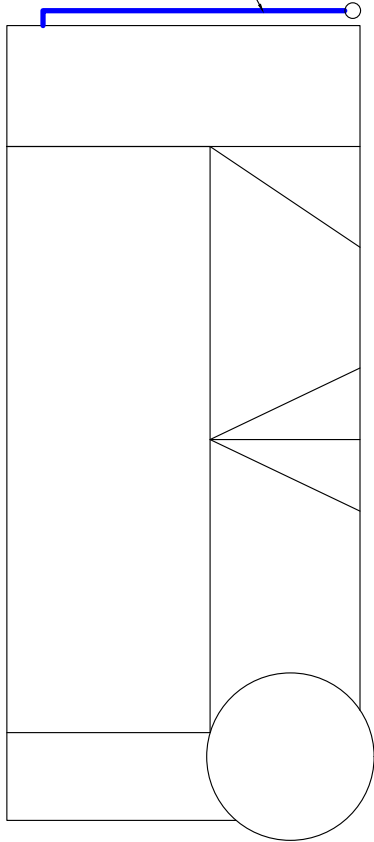
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












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 SHEET: 4S
 REV: H
 DATE: 6/2017



(N) 30' TRENCH
 * 18" DEEP
 * CONDUIT: 1" SCHL 40
 * PVC WITH WARNING
 * RIBBON 6" BELOW
 * GRADE
 * TRENCH THROUGH
 * HARDSCAPE



LEGEND

-  (E) UTILITY METER & WARNING LABEL
-  INVERTER W/ INTEGRATED DC DISCO & WARNING LABELS
-  DC DISCONNECT & WARNING LABELS
-  AC DISCONNECT & WARNING LABELS
-  DC JUNCTION/COMBINER BOX & LABELS
-  DISTRIBUTION PANEL & LABELS
-  LOAD CENTER & WARNING LABELS
-  DEDICATED PV SYSTEM METER
-  RAPID SHUTDOWN
-  STANDOFF LOCATIONS
-  CONDUIT RUN ON EXTERIOR
-  CONDUIT RUN ON INTERIOR
-  GATE/FENCE
-  HEAT PRODUCING VENTS ARE RED
-  INTERIOR EQUIPMENT IS DASHED

SITE PLAN

Scale: 1/8" = 1'



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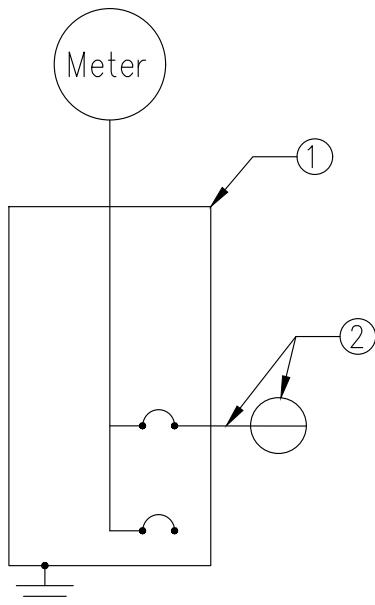
PAGE NAME:
 SITE PLAN

DESIGN:

*

SHEET: PV2_VD REV: DATE: 9/6/2017

TESLA



- ① (N) 200A MAIN SERVICE PANEL
 (N) 200A MAIN BREAKER

Wall Connector Setting: C

- ② (1) Tesla # 1050067-01-E
 Wall Connector; Variable current up to 80A, NEMA 3R, 208V or 240V, 24' Cable
 (1) CUTLER-HAMMER # BR290
 Breaker; 90A/2P, 2 Spaces
 - (1) Eaton # BRLWCS
 Breaker Handle Lock Kit, Type BR
 - (1) AWG #3, THWN-2, Black
 - (1) AWG #3, THWN-2, Red
 - (1) AWG #8, THWN-2, Green EGC
 - (1) CONDUIT, KIT
 1" x 10' EMT Conduit

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JOB NUMBER: JB-100014 00
 MOUNTING SYSTEM:
 *
 MODULES:
 INVERTER:

PREMISE OWNER:
 MICHAEL GRAY
 20 GLOUCESTER ST
 BOSTON, MA 02115

DESCRIPTION:
 Michael Gray RESIDENCE
 EV CHARGING STATION
 PAGE NAME:
 THREE LINE DIAGRAM

DESIGN:
 *
 SHEET: PV 6 REV: DATE: 9/6/2017

