

# DESERT SHADOWS - TUCSON

## EV CHARGING STATION INSTALLATION

7425 N MONA LISA RD.,  
TUCSON, AZ 85741

### SCOPE OF WORK

INSTALL (3) CT4000 LEVEL 2 DUAL PORT EV CHARGERS.

### APPLICABLE CODES

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES:

- NATIONAL ELECTRICAL CODE 2017
- 2018 INTERNATIONAL BUILDING CODE
- 2012 INTERNATIONAL ENERGY CONSERVATION CODE
- 2018 INTERNATIONAL EXISTING BUILDING CODE
- 2018 INTERNATIONAL FIRE CODE

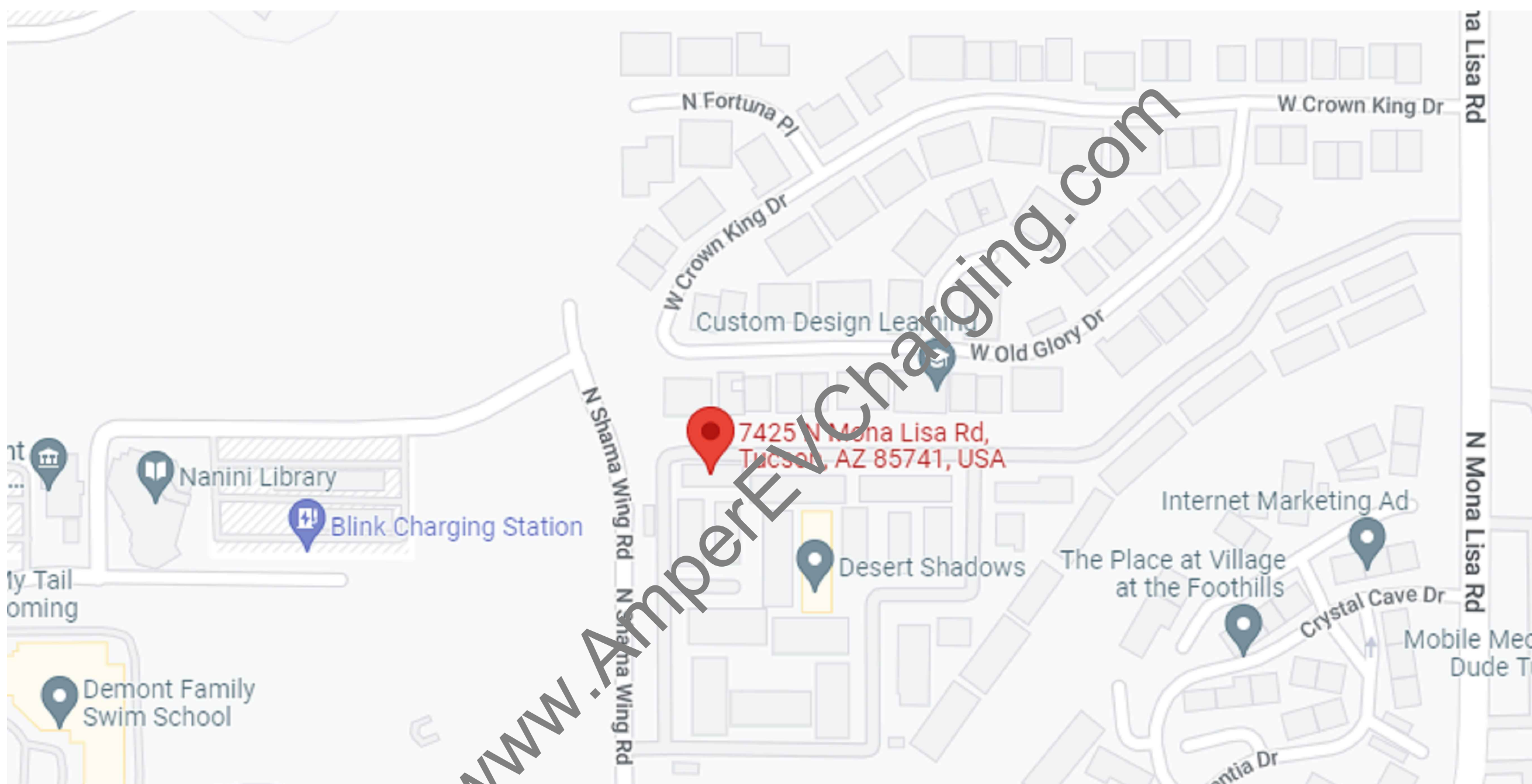
### UNDERGROUND UTILITIES



CALL AT LEAST TWO WORKING  
DAYS BEFORE YOU DIG

EXISTING UNDERGROUND FACILITIES ARE SHOWN ON THESE PLANS FROM RECORD INFORMATION AND ARE INFORMATION ONLY. OTHER UNDERGROUND FACILITIES NOT SHOWN ON THE PLANS MAY EXIST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY A ONE-CALL SERVICE CENTER, TOLL FREE AT 811, NO LESS TWO DAYS PRIOR TO ANY EXCAVATION.

### VICINITY MAP



### SATELLITE VIEW



### SHEET INDEX

#### DRAWING SUBMITTALS STATUS

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LEGEND	
UPDATED DRAWING ISSUE	●
UNCHANGED, PREVIOUSLY ISSUED STILL CURRENT	○
DRAWING REMOVED FROM SUBMITTAL	X

SEAL & SIGNATURE:



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REV	DATE	DESCRIPTION
0	08/25/2022	ISSUED FOR APPROVAL

CLIENT:  
**RESOUND ENERGY SERVICES**

PROJECT:  
**DESERT SHADOWS EVCS INSTALLATION**

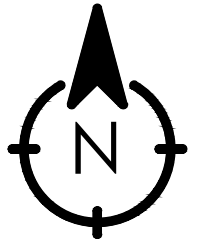
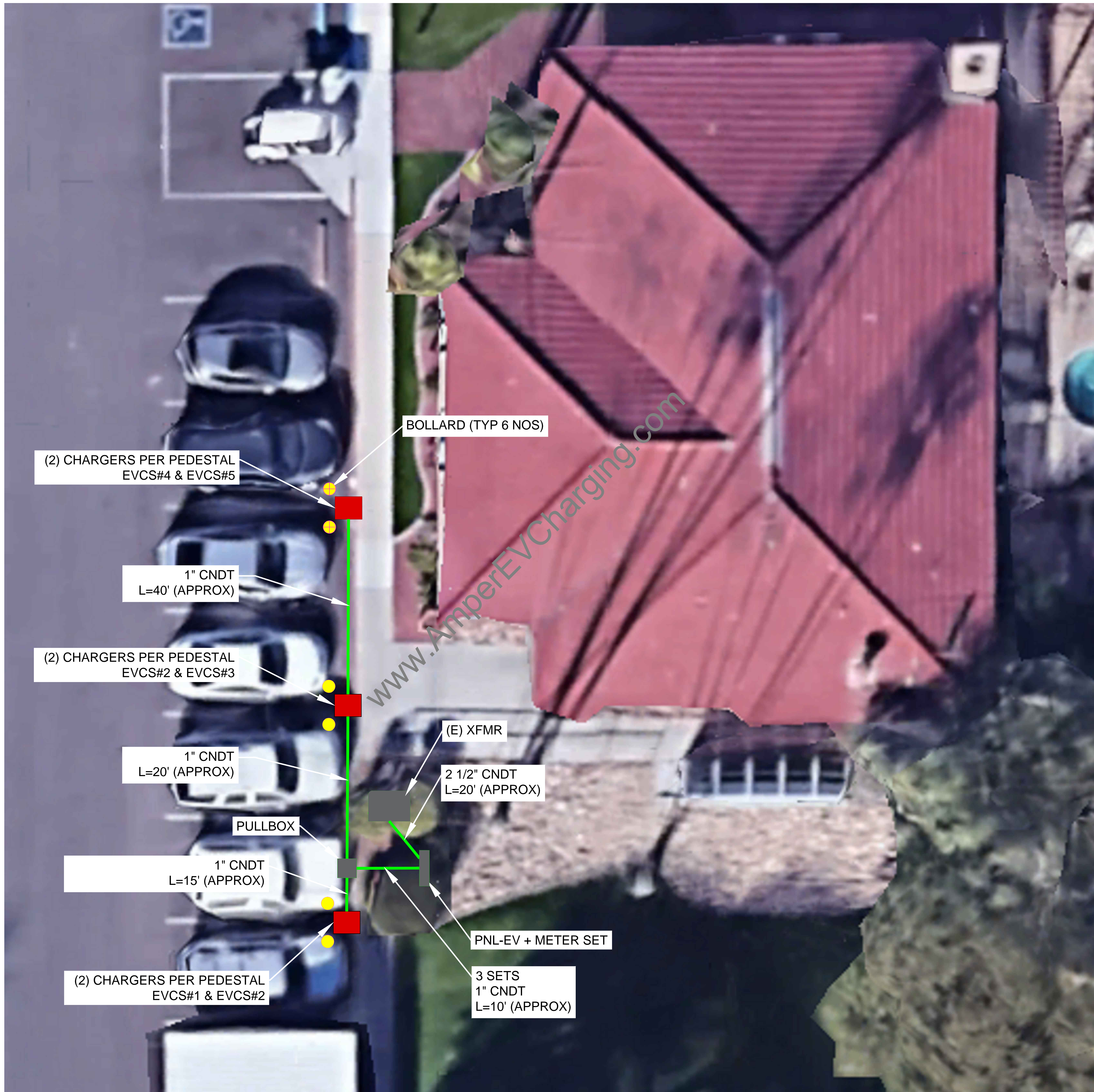
ADDRESS:  
**7425 N MONA LISA RD.,  
TUCSON, AZ 85741**

AMPER PROJECT NUMBER: 1551	
SHEET SIZE: 24X36	DRAWN BY: IB
DESIGNED BY: AC	CHECKED BY: DEE

SHEET TITLE:  
**COVER SHEET**

SHEET NO:  
**EV01**





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AMPER PROJECT NUMBER: 1551	
SHEET SIZE: 24X36	DRAWN BY: IB
DESIGNED BY: AC	CHECKED BY: DEE

SHEET TITLE:  
**SITE LAYOUT**

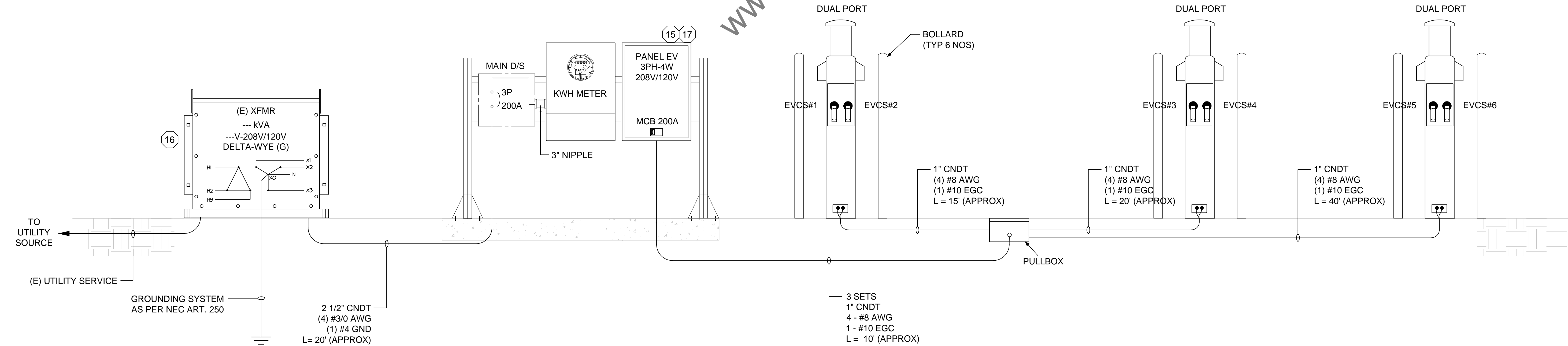
SHEET NO:  
**EV03**



PANEL-EV																										
VOLTAGE: 120/208 3 PHASE, 4 WIRE													LOCATION: OUTSIDE BESIDE EXISTING XMFR BUS (A): MAIN (A): 200													
No.	WIRE SIZE	CIRCUIT DESCRIPTION	LOAD (KVA)						BREAKER		PHASE			BREAKER		LOAD (KVA)						CIRCUIT DESCRIPTION	WIRE SIZE	No.		
			CONT	RCPT	MTR	A/C	KITCH	MISC	TRIP	POLE	A	B	C	POLE	TRIP	MISC	KITCH	A/C	MTR	RCPT	CONT					
1	#8 AWG	EVCS#1	3.60						40	2	7.20				2	40						3.60	EVCS#4	#8 AWG	2	
3	X	X	3.60						X	X		7.20			X	X						3.60	X	X	4	
5	#8 AWG	EVCS#3 & EVCS #2	3.60						40	2			7.20		2	40						3.60	EVCS#5	#8 AWG	6	
7	X	X	3.60						X	X	7.20				X	X						3.60	X	X	8	
9	#8 AWG	EVCS#5 & EVCS#3	3.60						40	2		7.20			2	40						3.60	EVCS#6	#8 AWG	10	
11	X	X	3.60						X	X			7.20		X	X						3.60	X	X	12	
13		SPACE									0.00												SPACE		14	
15		SPACE											0.00										SPACE		16	
17		SPACE												0.00									SPACE		18	
19		SPACE									0.00												SPACE		20	
21		SPACE										0.00											SPACE		22	
23		SPACE											0.00										SPACE		24	
25		SPACE									0.00												SPACE		26	
27		SPACE										0.00											SPACE		28	
29		SPACE											0.00										SPACE		30	
v13 - 08/02/2022			LOADS W/ NEC 220 DEMAND FACTORS (KVA)						TOTAL		14.40	14.40	14.40			0.00	0.00	0.00	0.00	0.00	43.20	CONNECTED KVA 43.2				
DEMAND LOAD PHASE-A (KVA)			18.00	0.00	0.00	0.00	0.00	0.00	18.00		<div>CONTINUOUS:125% LOAD</div> <div>RECEPTACLES:100% 1ST 10 KW + 50% REMAINING</div> <div>MOTORS:125% LARGEST MOTOR + 100% REMAINING</div> <div>A/C OR HEAT:100% LOAD</div> <div>KITCHEN:65% LOAD</div> <div>MISC:100% LOAD</div> <div>1)IF PANEL EXISTING AND ACTUAL CONNECTED KVA ARE NOT KNOWN, ASSUMPTIONS ARE MADE AS: CONTINUOUS &amp; NON-CONTINUOUS CONNECTED LOADS ASSUMED TO BE %80 OF THE OCPD RATING.</div> <div>2)DESIGN IS BASED ON NEC TABLE 310.15(B)(16) COPPER THHN CONDUCTORS. EXISTING CONDUCTORS.</div> <div>AND WIRING MAY NEED TO BE INSPECTED AND VERIFIED BY ELECTRICAL CONTRACTOR.</div> <div>3) EVCS ARE CONSIDERED CONTINUOUS LOAD AND ACTUAL NAME PLATE VALUES ARE USED.</div>															
DEMAND LOAD PHASE-B (KVA)			18.00	0.00	0.00	0.00	0.00	0.00	18.00																	
DEMAND LOAD PHASE-C (KVA)			18.00	0.00	0.00	0.00	0.00	0.00	18.00																	
TOTAL DEMAND LOAD (KVA)			54.00	0.00	0.00	0.00	0.00	0.00	54.00																	
LARGEST DEMAND LOAD OF ANY PHASE (KVA)			18.00																							
LARGEST DEMAND LOAD OF ANY PHASE (AMP)			150																							
TOTAL DEMAND LOAD OF ALL PHASES (KVA)			54.00																							
TOTAL DEMAND LOAD OF ALL PHASES (AMP)			150																							
MINIMUM FEEDER AMPACITY SELECTION (AMP)			150																							

CONDUIT FILL CALCULATOR					Select wire type THHN			
Wire Size	Enter number of conductors for each size	Total Area sq-inch	Conduit Trade Size	Trough and Conduit ID Sizes	Total area in square inches	20% Fill of trough 40% Fill of Conduit	Current total Area sq. inches	Current fill percent
18			TROUGH	4.000	16.000	3.200	0.1675	1.05%
16				6.000	36.000	7.200	0.1675	0.47%
14		0.0000		8.000	64.000	12.800	0.1675	0.26%
12		0.0000	PVC	Select type of conduit				
10	1	0.0211	0.50	000.562	0.248	0.099	0.1675	
8	4	0.1464	0.75	000.722	0.409	0.164	0.1675	
6		0.0000	1	000.936	0.688	0.275	0.1675	24.34%
4		0.0000	1.25	001.255	1.237	0.495	0.1675	13.54%
3		0.0000	1.50	001.476	1.711	0.684	0.1675	9.79%
2		0.0000	2	001.913	2.874	1.150	0.1675	5.83%
1		0.0000	3	002.864	6.442	2.577	0.1675	2.60%
1/0		0.0000	3.5	003.326	8.688	3.475	0.1675	1.93%
2/0		0.0000	4.0	003.786	11.258	4.503	0.1675	1.49%
3/0		0.0000						
4/0		0.0000						
250		0.0000						
300		0.0000						
350		0.0000						
NOTE: 1) All dimensions are from manufacturers specifications. 2) Dimensions are based on 2017 NEC. 3) ID area based on NEC 2017 Table 4 Chapter 9.								

VOLTAGE DROP CALCULATIONS							
STATION	CONDUIT	LENGTH (FT)	VOLTAGE	CURRENT	WIRE SIZE	V.D %	V.D (V)
EVCS#1	1"	25	208	30	8	0.5	1.0
EVCS#2	1"	25	208	30	8	0.5	1.0
EVCS#3	1"	30	208	30	8	0.6	1.2
EVCS#4	1"	30	208	30	8	0.6	1.2
EVCS#5	1"	50	208	30	8	1.0	2.0
EVCS#6	1"	50	208	30	8	1.0	2.0



KEY NOTES:

- ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) STANDARDS BEING ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT THE TIME OF CONSTRUCTION.
- UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRECONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATIONS.
- CONDUIT PATHS ARE REPRESENTATIVE ONLY. EXACT CONDUIT PLACEMENT TO BE DETERMINED ON SITE BASED ON FIELD CONDITIONS.
- A NATIONALLY RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH NEC ARTICLE 110.3
- ALL EXTERIOR EQUIPMENT SHALL BE RAIN TIGHT AND APPROVED FOR USE IN WET CONDITIONS.
- ALL CONDUCTORS TO BE THHN COPPER
- ALL CONDUCTORS AND CABLES SHALL BE PROVIDED WITH STRAIN RELIEF UPON ENTRY INTO ENCLOSURES
- EACH UNGROUNDED CONDUCTOR SHALL BE IDENTIFIED BY PHASE AND SYSTEM PER NEC 210.5
- ALL METALLIC COMPONENTS SHALL BE GROUNDED VIA ELECTRIC GROUNDING CONDUCTORS.
- ALL UNDERGROUND CONDUIT TO BE UL RATED, MINIMUM 24" DEEP.
- WIRING FOR ELECTRICAL VEHICLE CHARGING STATIONS TO BE INSTALLED PER MANUFACTURER'S DIRECTIONS AND SPECIFICATIONS.
- CONTRACTOR TO ENSURE THAT ALL FEEDERS, CONDUITS, CONDUCTORS, OCPD, TRANSFORMERS, ELECTRICAL PANELS AND OTHER ELECTRICAL EQUIPMENT IS SIZED TO COMPLY WITH CURRENT NEC AND LOCAL AHJ CODES.
- CONTRACTOR IS RESPONSIBLE TO VERIFY DESIGN, ENGINEERING ASSUMPTIONS AND EXISTING FIELD CONDITIONS. REPORT ANY INSUFFICIENCIES TO ENGINEER OF RECORD PRIOR TO ANY WORK BEING PERFORMED.
- GROUNDING INSTALLATION AS PER NEC ART. 250.
- THE KAIC OF NEW PANEL-EV SHALL BE HIGHER THAN THE EXISTING SHORT CIRCUIT RATING OF THE SECONDARY XFMR. COORDINATE WITH THE UTILITY.
- VERIFY EXISTING XFMR PHASE ANGLES AND XFMR PRIMARY VOLTAGE.
- PANE-EV KAIC RATING:  
XFMR-EV 30KVA, IF XFMR-EV %Z>0.83 THEN 10KAIC. IF XFMR-EV<0.83 THEN 22KAIC.  
XFMR-EV 45KVA, IF XFMR-EV %Z>1.3 THEN 10KAIC. IF XFMR-EV<1.3 THEN 22KAIC.  
XFMR-EV 75KVA, IF XFMR-EV %Z>2 THEN 10KAIC. IF XFMR-EV<2 THEN 22KAIC.  
XFMR-EV 112.5KVA, IF XFMR-EV %Z>3.13 THEN 10KAIC. IF XFMR-EV<3.13 THEN 22KAIC.  
XFMR-EV 150KVA, IF XFMR-EV %Z>4.17 THEN 10KAIC. IF XFMR-EV<4.17 THEN 22KAIC.

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DESIGNED BY: AC	CHECKED BY: DEE

SHEET TITLE:  
**ELECTRICAL RISER DIAGRAM & CALCULATIONS**

SHEET NO:  
**EV04**

ELECTRICAL RISER DIAGRAM



## CT4000 Family

ChargePoint® Level 2 Commercial Charging Stations

The CT4000 family is the latest generation of ChargePoint commercial charging stations. Refined yet rugged, these stations set the industry standard for functionality and aesthetics.

The CT4000 full motion color LCD display instructs drivers and supports dynamic updates of custom branded videos and advertisements. Intelligent power management options double the number of parking spaces served by allowing two charging ports to share a single circuit. Sites with single port EV stations can upgrade to dual port stations without requiring additional electrical services.

The CT4000 is the first ENERGY STAR® certified EV charger because it charges efficiently and conserves power when not charging. As an ENERGY STAR certified EV charger, the CT4000 uses significantly less energy than a standard EV charger when in standby mode to help you save money on your utility bill.

All CT4000 models offer one or two standard SAE J1772™ Level 2 charging ports with locking holsters, each port supplying up to 7.2kW. With this standard connector, ChargePoint Level 2 stations can charge any EV.

Stations are available in bollard and wall mount configurations for easy installation anywhere. All stations are fully software upgradable remotely over the air. Stations come in both 6' and 8' tall models with 18' and 23' cords, respectively. With multiple options for size and cord reach, your station can service up to four parking spaces, reach all car models regardless of parking style or car sizes and increase the usability of your EV spots.

### Driver Friendly User Interface

- Instructional video shows how to use the station
- Multi-language: English, French, Spanish
- Touch button interface works in rain, ice and with gloves
- Backed by ChargePoint's world class 24/7 driver phone support

### Easily Communicate with Your Drivers

Whether you're a retail establishment wanting to advertise your latest product, a workplace looking to communicate with employees or a municipality wanting to welcome visitors, ChargePoint's prominent LCD screen makes it easy to reach EV drivers:

- Daylight readable, with auto brightness control
- 640 X 480 resolution active matrix
- Full motion 30fps video support
- Upload up to 60 seconds of high quality video on a color LCD screen to individual stations as often as desired
- Brand your charging stations to communicate with drivers
- Instructional video in English, Spanish or French



-chargepoint+



ChargePoint CT4000 Family

### Service Products and Support

ChargePoint offers world-class service products and support that help ensure quality of work, save time and money, protect your investment and enhance the productivity of your charging stations. From site planning to installation and setup, to ongoing care and management, when you choose ChargePoint, you're covered.

- **ChargePoint Configuration and Activation:** customized setup and activation of your stations
- **ChargePoint Assure:** the most comprehensive EV Station maintenance and management in the industry

### Energy Measurement and Management

- Real-time energy measurement
- 15 minute interval recording
- Time of Day (TOD) pricing
- Load shed by percentage of running average or to fixed power output

### Minimize Costs with Flexible Power Management Options

In the vast majority of applications, a full power configuration is the best choice for both station owners and drivers. However, when drivers are parked for a longer time, an intelligent, lower power output can save station owners considerable installation cost while still providing drivers a great charging experience. With flexible power options, station owners can meet the needs of drivers while lowering costs.

### Power Select (Patent Pending)

- Allows for a lower capacity (less than 40A) circuit to power each port
- Cuts installation costs by reducing the cost or even avoiding the need to upgrade panels or transformers

### Power Sharing

- Dynamically share one 40A, 30A or 20A circuit between two parking spaces
- Doubles the number of parking spots served while reducing installation and operating costs
- Allows station owners to upgrade a single port station to dual port to serve more drivers with no electrical upgrade

### Clean Cord Technology

- Keep charging cords off the ground
- Standard on all models
- Ultra-reliable second-generation gravity operated mechanism
- Flexible over entire -40°F to +122°F product temperature range

### Safe, Reliable, Energy Efficient Hardware

- UL listed, meeting the stringent requirements of the nation's leading safety standards organization
- Stations are rugged, built to withstand the elements
- Safe, Reliable and Energy Efficient
- ENERGY STAR certified, charges efficiently and conserves power when not charging

**When Charging is Mission Critical, Protect Your Investment with ChargePoint Assure**

- **Maintain downtime:** ChargePoint Assure provides the most comprehensive EV Station maintenance and management in the industry

- **Get up and running quickly and flawlessly:** Professional guidance for station configuration saves you time, and unlimited changes to station policies flexibly supports your business
- **Eliminate unexpected future expenses:** Cost for parts and on-site labor to install is covered for all Assure eligible repairs
- **One less thing to worry about:** Proactive station monitoring provides you with regular reporting
- **Reduced risk of downtime:** We guarantee 98% annual uptime and one business day response to requests
- **Support when you need it:** We're there for you and your drivers. Phone support available for station owners Monday to Friday from 5 AM to 6 PM Pacific. Phone support for drivers is 24/7/365, so you never need to field a driver call



2 chargepoint.com

## CT4000 Family Specifications

Electrical Input	Single Port (AC Voltage 208/240V AC)			Dual Port (AC Voltage 208/240V AC)			
	Input Current	Input Power Connection	Required Service Panel Breaker	Input Current	Input Power Connection	Required Service Panel Breaker	
	Standard	30A	One 40A branch circuit	40A dual pole (non-GFCI type)	30A x 2	Two independent 40A branch circuits	40A dual pole (non-GFCI type) x 2
	Standard Power Share	n/a	n/a	n/a	32A	One 40A branch circuit	40A dual pole (non-GFCI type)
	Power Select 24A	24A	One 30A branch circuit	30A dual pole (non-GFCI type)	24A x 2	Two independent 30A branch circuits	30A dual pole (non-GFCI type) x 2
	Power Select 24A Power Share	n/a	n/a	n/a	24A	One 30A branch circuit	30A dual pole (non-GFCI type)
	Power Select 16A	16A	One 20A branch circuit	20A dual pole (non-GFCI type)	16A x 2	Two independent 20A branch circuits	20A dual pole (non-GFCI type) x 2
	Power Select 16A Power Share	n/a	n/a	n/a	16A	One 20A branch circuit	20A dual pole (non-GFCI type)
	Do not provide external GFCI as it may conflict with internal GFCI (CCID)						
	Service Panel GFCI	3-wire (L1, L2, Earth)			5-wire (L1, L2, L3, L4, Earth)		
Wiring - Standard	n/a			3-wire (L1, L2, Earth)			
Wiring - Power Share	n/a			8W typical (standby), 15W maximum (operation)			
Station Power							
Electrical Output	Standard	7.2kW (240V AC @ 30A)		7.2kW (240V AC@30A) x 2			
	Standard Power Share	n/a		7.2kW (240V AC@30A) x 1 or 3.8kW (240V AC@16A) x 2			
	Power Select 24A	5.8kW (240V AC@24A)		5.8kW (240V AC@24A) x 2			
	Power Select 24A Power Share	n/a		5.8kW (240V AC@24A) x 1 or 2.9kW (240V AC@12A) x 2			
	Power Select 16A	3.8kW (240V AC@16A)		3.8kW (240V AC@16A) x 2			
	Power Select 24A Power Share	n/a		3.8kW (240V AC@16A) x 1 or 1.9kW (240V AC@8A) x 2			
	Power Select 16A Power Share	n/a					
Functional Interfaces							
Connector(s) Type	SAE J1772™			SAE J1772™ x 2			
Cable Length - 1830 mm (6') Cable Management	5.5 m (18')			5.5 m (18') x 2			
Cable Length - 3440 mm (8') Cable Management	n/a			7 m (23')			
Overhead Cable Management System				Yes			
LCD Display	145 mm (5.7") full color, 640x480, 30fps full motion video, active matrix, UV protected						
Card Reader	ISO 15693, ISO 14443, NFC						
Locking Holster	Yes			Yes x 2			

## EVCS OVERVIEW

SCALE  
N.T.S.

1

## PEDESTAL OVERVIEW

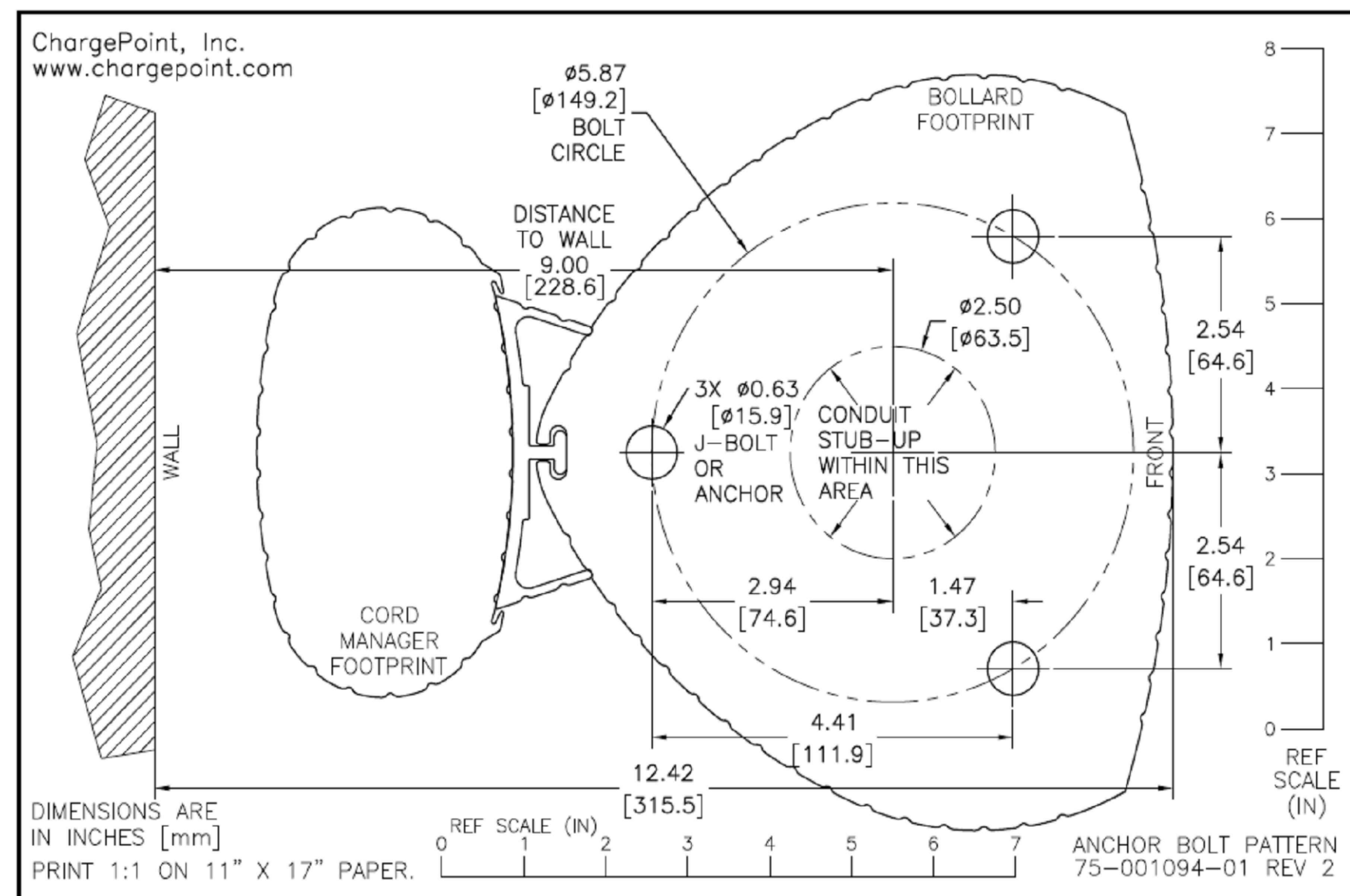
SCALE  
N.T.S.

3

## PRODUCT SPECIFICATION

SCALE  
N.T.S.

5



## PEDESTAL BASE PLATE DETAIL

SCALE  
N.T.S.

2

## (NOT USED)

SCALE  
N.T.S.

4

## (NOT USED)

SCALE  
N.T.S.

6

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SHEET SIZE: 24X36	DRAWN BY: IB
DESIGNED BY: AC	CHECKED BY: DEE

SHEET TITLE:  
**INSTALLATION DETAILS SHEET 3**

SHEET NO:  
**EV07**