

1 ELECTRICAL PLAN
SCALE: NTS

CT4000 Level 2 Commercial Charging Station

Specifications and Ordering Information



CT4021

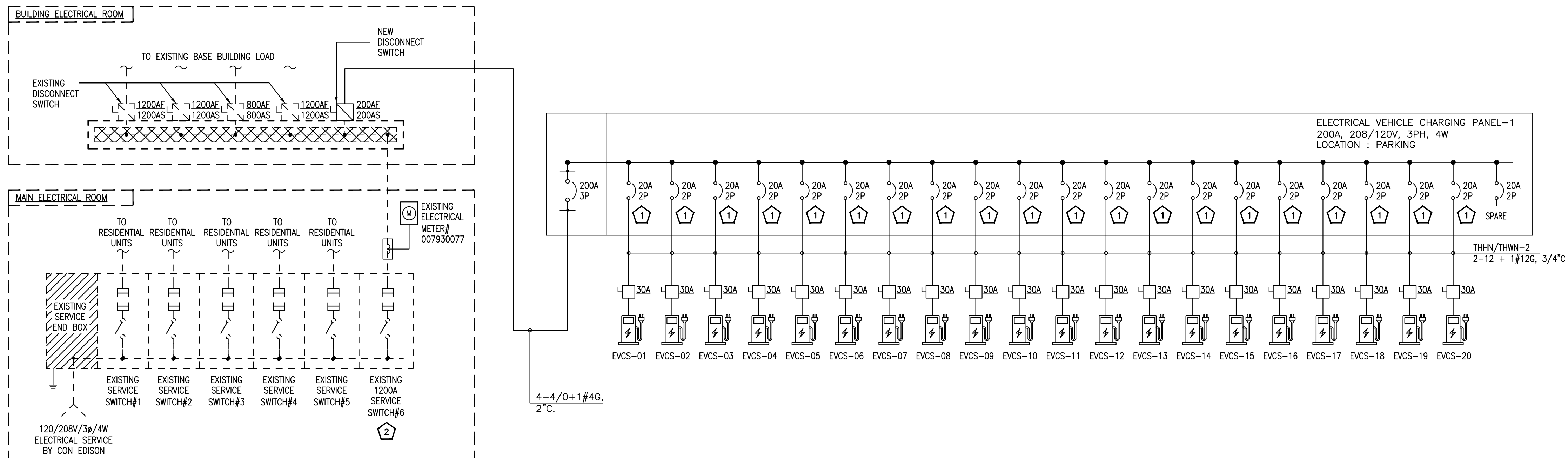
2 ELECTRICAL VEHICLE CHARGING STATION - DATASHEET
SCALE: NTS

Introduction

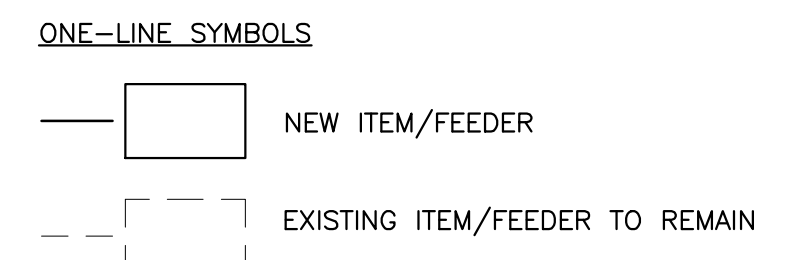
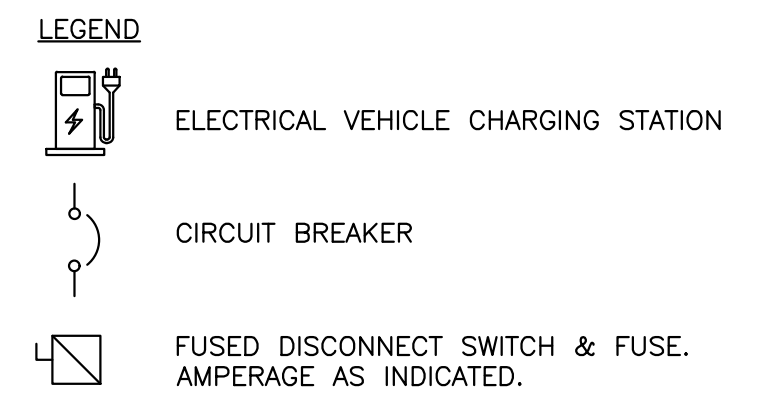
Specifications

SINGLE PORT			DUAL PORT					
208/240VAC			208/240VAC					
Electrical Input	Current	Input Power Connection	Required Service Panel Breaker	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)		
Service Panel GFCI	Do not provide external GFCI as it may conflict with internal GFCI (CCID)							
Wiring - Standard	3-wire (L1, L2, Earth)							
Wiring - Power Share	n/a							
Station Power	8W typical (standby), 15W maximum (operation)							
Electrical Output								
Standard	7.2kW (240VAC@30A)		7.2kW (240VAC@30A) x 2					
Standard Power Share	n/a		7.2kW (240VAC@30A) x 1 OR 3.6kW (240VAC@16A) x 2					
Power Select 24A	5.8kW (240VAC@24A)		5.8kW (240VAC@24A) x 2					
Power Select 24A Power Share	n/a		5.8kW (240VAC@24A) x 1 OR 2.9kW (240VAC@12A) x 2					
Power Select 16A	3.6kW (240VAC@16A)		3.6kW (240VAC@16A) x 2					
Power Select 16A Power Share	n/a		3.6kW (240VAC@16A) x 1 OR 1.8kW (240VAC@8A) x 2					
Functional Interfaces								
Connector(s) Type	SAE J1772™		SAE J1772™ x 2					
Charging Cable Length	18' (5.5 meters)		18' (5.5 meters) x 2					
Overhead Cable Management System	Yes							
LCD Display	5.7" full color, 640x480, 30fps full motion video, active matrix, UV protected							
Card Reader	ISO 15693, 14443, NFC							
Locking Holder	Yes x 2							
Safety and Connectivity Features								
Ground Fault Detection	20mA CCID with auto retry							
Open Safety Ground Detection	Continuously monitors presence of safety (green wire) ground connection							
Plug-Out Detection	Power terminated per SAE J1772™ specifications							
Power Measurement Accuracy	±1% from 2% to full scale (30A)							
Power Report/Store Interval	15 minute, aligned to hour							
Local Area Network	2.4 GHz Wi-Fi (802.11 b/g/n)							
Wide Area Network	3G GSM, 3G CDMA							
Safety and Operational Ratings								
Enclosure Rating	Type 3R per UL 50E							
Safety Compliance	UL listed for USA and cUL certified for Canada; complies with UL 2594, UL 2231-1, UL 2231-2, and NEC Article 625							
Surge Protection	6kV @ 3000A. In geographic areas subject to frequent thunder storms, supplemental surge protection at the service panel is recommended.							
EMC Compliance	FCC Part 15 Class A							
Operating Temperature	-22°F to 122°F (-30°C to +50°C)							
Storage Temperature	-40°F to 122°F (-40°C to +50°C)							
Operating Humidity	up to 85% @ +50°C (122°F) non-condensing							
Non-Operating Humidity	up to 95% @ +50°C (122°F) non-condensing							
Terminal Block Temperature Rating	221°F (105°C)							
Maximum Stations per 802.11 Radio Group	10. Each station must be located within 150 feet "line of sight" of a gateway station.							

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3 ELECTRICAL ONE-LINE DIAGRAM - EV CHARGING STATION
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- NOTES
- ELECTRICAL CONTRACTOR TO PROVIDE SERVICE GROUNDING AND BONDING IN ACCORDANCE WITH NYC ELECTRICAL CODE.
 - ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE CURRENT VERSION OF THE NYC ELECTRICAL CODE, 2008 NEC WITH NYC AMENDMENTS, LOCAL JURISDICTION REQUIREMENTS, AND ALL GOVERNING LOCAL CODES, LAWS, AND REGULATIONS.

- KEYED NOTES
- ALL BRANCH CIRCUIT BREAKERS SHALL BE NON-GFCI TYPE
 - ELECTRICAL CONTRACTOR TO FIELD VERIFY THE EXACT RATING OF EXISTING ELECTRICAL EQUIPMENT.

THIS PLAN IS APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR BE CONSIDERED AS BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES