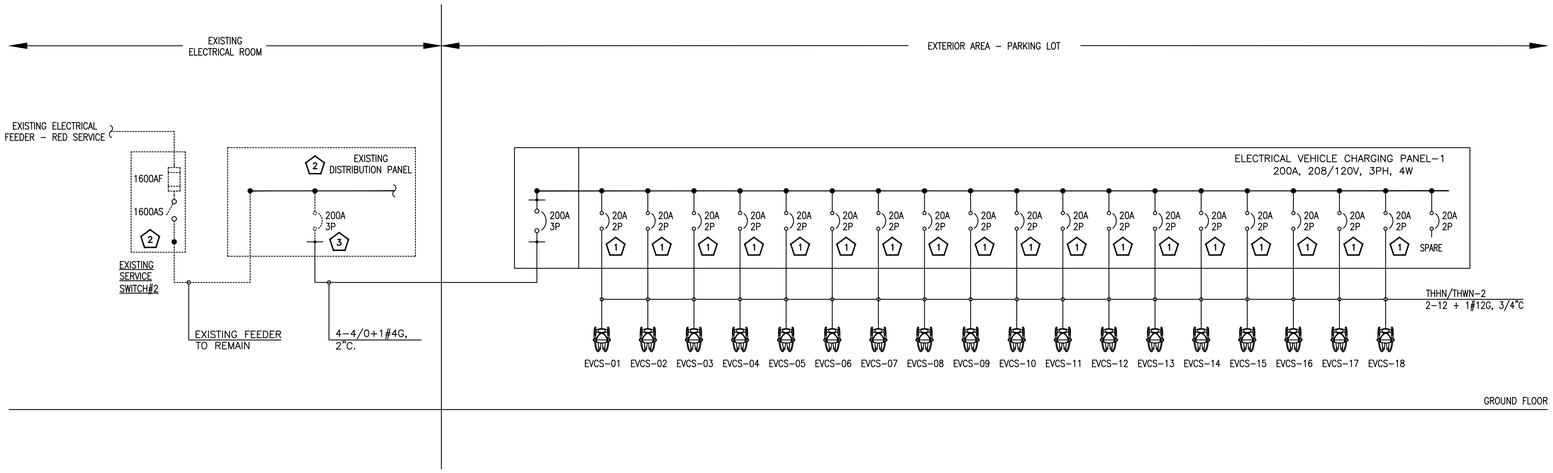


LEGEND

ELECTRICAL VEHICLE CHARGING STATION

CIRCUIT BREAKER

ONE–LINE SYMBOLS

NEW ITEM/FEEDER

EXISTING ITEM/FEEDER TO REMAIN

NOTES

1. ELECTRICAL CONTRACTOR TO PROVIDE SERVICE GROUNDING AND BONDING IN ACCORDANCE WITH NYC ELECTRICAL CODE.
2. 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

1. ALL BRANCH CIRCUIT BREAKER SHALL BE NON–GFCI TYPE
2. ELECTRICAL CONTRACTOR TO FIELD VERIFY THE EXACT RATING OF EXISTING ELECTRICAL EQUIPMENT.
3. 200A, 3PH, 208V EXISTING SPARE CIRCUIT BREAKER. ELECTRICAL CONTRACTOR TO FIELD VERIFY THE OPERABLE CONDITION.

1 ELECTRICAL ONE-LINE DIAGRAM - EV CHARGING STATION
SCALE: NTS

chargepoint

CT4000 Level 2 Commercial Charging Station

Specifications and Ordering Information

CT4021

Specifications

Electrical Input	SINGLE PORT			DUAL PORT		
AC Voltage	208/240VAC			208/240VAC		
	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)			5-wire (L1, L1, L2, L2, Earth)		
Wiring - Power Share	n/a			3-wire (L1, L2, Earth)		
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 3.8kW (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	3.8kW (240VAC@16A)	3.8kW (240VAC@16A) x 2
Power Select 16A Power Share	n/a	3.8kW (240VAC@16A) x 1 OR 1.9kW (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 Holster	Yes	Yes x 2

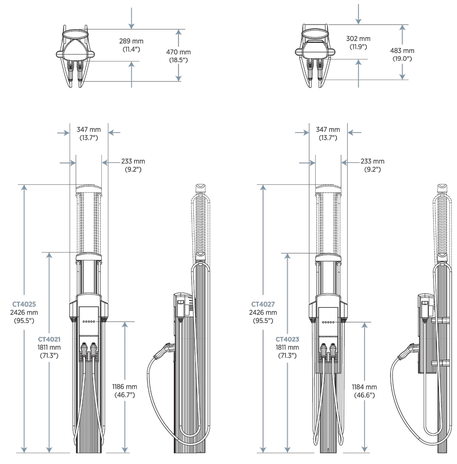
Safety and Connectivity Features	
Ground Fault Detection	20mA CCID with auto retry
Open Safety Ground Detection	Continuously monitors presence of safety (green wire) ground connection
Plug-Out Detection	Power terminated per SAE J1772™ specifications
Power Measurement Accuracy	+/- 2% from 2% to full scale (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-I, 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.

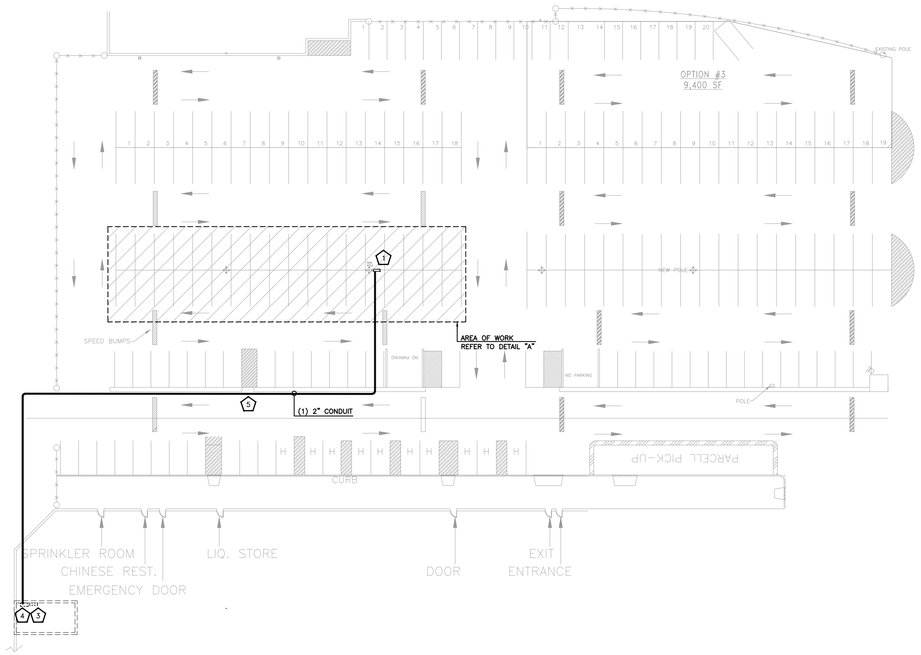
Architectural Drawings (Dimensions)

CT4021 1830 mm (6')
CT4025 2440 mm (8')
Bollard

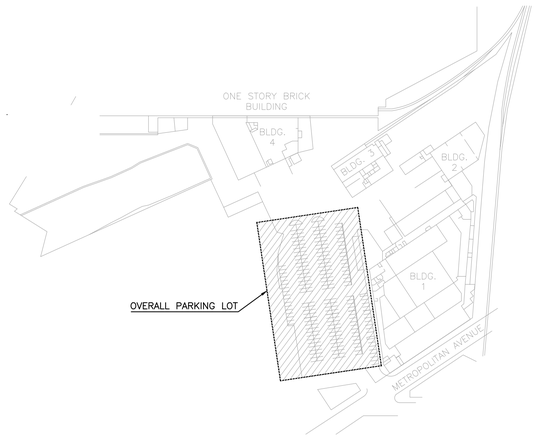
CT4023 1830 mm (6')
CT4027 2440 mm (8')
Wall Mount



2 ELECTRICAL VEHICLE CHARGING STATION - DATASHEET
SCALE: NTS



1 OVERALL PARKING ELECTRICAL PLAN
SCALE: 1/32"=1'-0"



2 SITE PLAN
SCALE: NTS

LEGEND

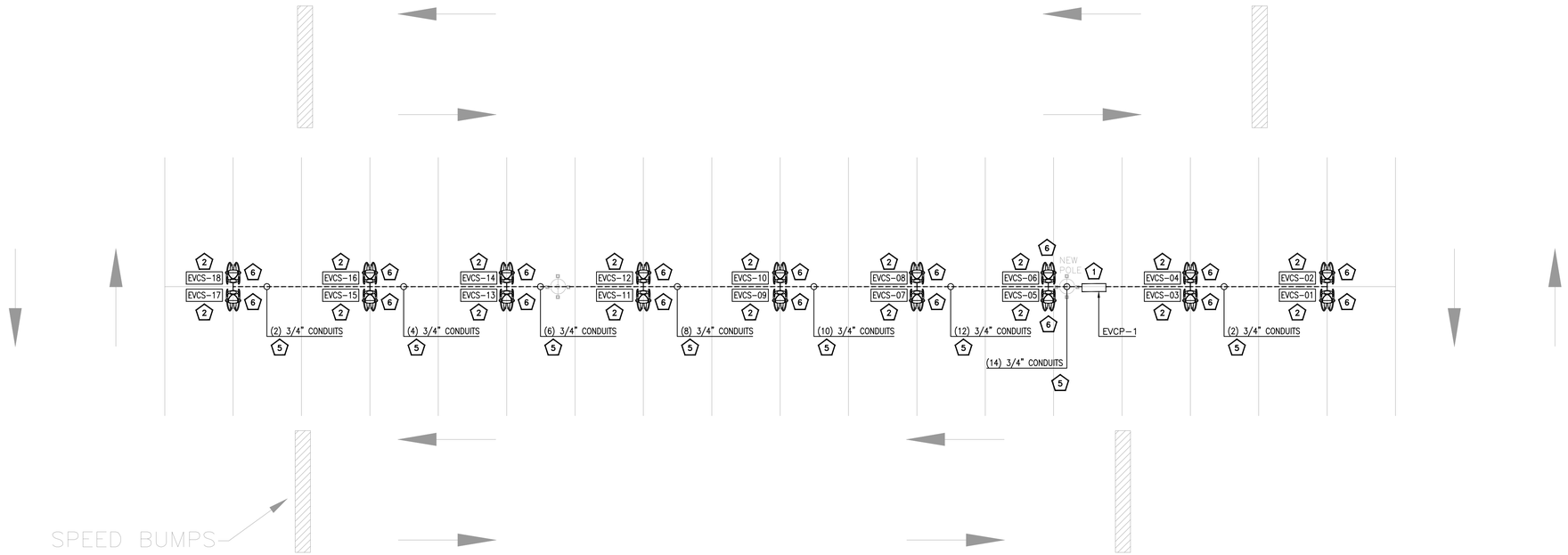
- ELECTRICAL VEHICLE CHARGING STATION
- CIRCUIT BREAKER
- ELECTRICAL PANEL
- ---- ELECTRICAL CONDUIT ROUTING. FINAL ROUTING SHALL BE DETERMINED IN FIELD.

GENERAL NOTES

1. REFER TO DWG. E-100.00 FOR ELECTRICAL ONE-LINE DIAGRAM.
2. ALL INFORMATION AND SOLUTION INDICATED IN DRAWING ARE DIAGRAMMATIC. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND FEASIBILITY ON FIELD. COORDINATE INSTALLATION WITH AHJ IF REQUIRED.
3. FIRE STOP ALL PENETRATIONS OF FIRE RATED CONSTRUCTION IN A CODE APPROVED MANNER IN ORDER TO MAINTAIN FIRE RATING. ALL PENETRATIONS SHALL BE SLEEVED AND SEALED WATERTIGHT.
4. COORDINATE POWER SHUTDOWN WITH OWNER / BUILDING MANAGEMENT.
5. ELECTRICAL CONTRACTOR TO CONFIRM EXACT CONDUIT ROUTING ON FIELD AND COORDINATE WITH AN OWNER.
6. ELECTRICAL CONTRACTOR SHALL UPDATE ELECTRICAL PANELBOARD SCHEDULE UPON COMPLETION OF WORK.
7. 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.
8. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK.
9. PULL AND JUNCTION BOXES NOT SHOWN ON DRAWINGS SHALL BE PROVIDED WHERE REQUIRED BY APPLICABLE CODE PROVISIONS OR WHERE CALLED FOR BY FIELD CONDITIONS.
10. ALL ELECTRICAL ACCESSORIES AND EQUIPMENT INSTALLED OUTSIDE OR EXPOSED TO WEATHER SHALL HAVE NEMA 3R ENCLOSURES AND SHALL BE TIGHTLY GASKETED FOR A COMPLETE RAINTIGHT INSTALLATION.

KEYED NOTES

1. 200A, 120/208V, 3PH, NEW ELECTRICAL VEHICLE CHARGING PANEL "EVCP-1", NEMA 3R RATED.
2. ELECTRICAL VEHICLE CHARGING STATION. MANUFACTURER: CHARGE POINT, MODEL : CT4021
3. EXISTING ELECTRICAL ROOM. ELECTRICAL CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION IN FIELD.
4. EXISTING SERVICE SWITCH AND ELECTRICAL PANEL. ELECTRICAL CONTRACTOR TO FIELD VERIFY THE LOCATION AND OPERABLE CONDITION.
5. ELECTRICAL FEEDER ROUTING. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT CONDUIT ROUTING WITH CLIENT PRIOR TO BID. BID SHALL INCLUDE COST TO TRENCH AND REPAVE AS REQUIRED.
6. ELECTRICAL CONTRACTOR TO PROVIDE CONCRETE BOLLARDS TO PROTECT CHARGING STATION FROM DAMAGE.



3 PARTIAL PARKING ELECTRICAL PLAN - DETAIL "A"
SCALE: 1/8"=1'-0"