

Any person wishing to address the Board shall step up to the podium/front of room, state their name and address in an audible tone of voice for the record, and unless further time is granted by the Board, shall limit their address to three (3) minutes. A person may not give up or relinquish all or a portion of their time to the person having the floor or another person in order to extend a person's time limit in addressing the Board.

Any person who does not wish to address Board from the podium/front of room, may print their name, address and comment/question which he/she would like brought before Board on a card provided by a staff member and return the card to a staff member before the meeting begins. The staff member will address the presiding officer at the start of Public Comments on the Agenda, notifying him of the card comment, and read the card into the record for response.

The City of Monroe will provide necessary reasonable auxiliary aids and services to individuals with disabilities at the meeting upon one weeks' notice to the City Clerk/Treasurer. Individuals with disabilities requiring auxiliary aids or services should contact the City of Monroe by writing or calling: City of Monroe, City Clerk/Treasurer, 120 E. First St., Monroe, MI 48161, (734) 384-9136.

AGENDA REGULAR MEETING Wednesday, December 14, 2022, 8:30 A.M. CITY HALL, COUNCIL CHAMBER, 120 E. FIRST ST.

- 1. Call to Order
- 2. Roll Call
- 3. Vision Statement (1 minute)
- 4. Additions/Deletions to the Meeting Agenda (1 minute)
- 5. Public Comment (3 minutes per individual)
- 6. Consent Agenda (2 minutes)
 - A. Approval of Agenda
 - B. Approval of Minutes
 - i. October 19, 2022 and November 16, 2022
 - C. Financial Reports
 - i. November, DDA Preliminary Itemized Expenditure Report FY 2022-23
 - ii. November, DDA Revenue and Expenditure Report FY 2022-23

7. Project/Work Plan Updates (10 minutes)

- 8. New/Other Business
 - A. Closed Session Property Acquisition

9. Board Member and Administrative Comments

10. Adjournment

Action Requested

Action Requested

Vision Statement

In 2027, downtown Monroe will be a vibrant and walkable destination where retailers, restaurants, and residential spaces combine into a lively shopping and entertainment district. All historic buildings have made improvements from façade renovations to new signage to outdoor seating. The downtown is united by an attractive, functional streetscape that is welcoming and accessible to all.

Minutes

Monroe Downtown Development Authority Regular Meeting Wednesday, October 19, 2022 Council Chambers, Monroe City Hall

Chairperson William Slicker called the meeting to order at 8:30 a.m.

1. Roll Call

- Present: Andy Clark, Erik Drummonds, Stuart Eastman, Mary Hastings, Scott Kegerreis, William Slicker, Malissa Whited
- Absent: Mayor Robert Clark, Robert Copp
- Staff: Annette Knowles, Downtown/Economic Development Coordinator
- 2. Vision Statement Read by Drummonds
- 3. Additions/Deletions to the Meeting Agenda None
- 4. Public Comments None
- 5. Consent Agenda
 - A. Approval of Agenda
 - B. Approval of Minutes
 - Wednesday, September 28, 2022 Regular Meeting
 - C. Financial Reports:
 - September, DDA Preliminary Itemized Expenditure Report FY 2022-2023
 - September, DDA Revenue and Expenditure Report FY 2022-2023

Motion by Andy Clark, seconded by Hastings to approve items on the Consent Agenda. *Motion carried, all ayes.*

6. Presentations

A. Museum of Horror Introduction- Nate Thompson, Owner/Operator

Nate Thompson introduced the Michigan Museum of Horror concept and shared his plans for operation and growth.

7. Project/Work Plan Updates

Slicker asked for updates from project leads at the next regular meeting. Project updates by leads will be welcome if there is any activity to report.

8. New/Other Business

A. Riverwalk Connector-Lighting Project Price Adjustment

Geal Electric, contractor of record for the Riverwalk Connector – Lighting Project advised that the cost of materials from the supplier rose by \$1,100 and requested a price adjustment.

Motion by Kegerreis, seconded by Drummonds to approve a price adjustment for the Riverwalk Connector – Lighting Project by \$1,100.00., to new total of \$30,500.00.. *Motion carried, all ayes.*

B. Work Plan Process for Fiscal Year 2023-2024- Phase 1

Discussion led by Knowles included a review of current year projects for possibly completion, carry over or cancelation; then brainstormed new projects to be included in the forthcoming fiscal year work plan. Projects should be derived from the Strategic Plan.

C. Closed Session-Property Acquisition

Motion by Drummonds, seconded by Clark to enter Closed Session to discuss Property Acquisition at 9:50 am. *Motion carried, all ayes.*

Whited departed the meeting.

Motion by Kegerreis, seconded by Hastings to reconvene to Open Session at 10:10 am *Motion carried, all ayes.*

9. Board Member and Administrative Comments

10. Adjournment

Motion to adjourn at 10:11 am by Hastings, seconded by A. Clark *Motion carried, all ayes.*

Minutes

Monroe Downtown Development Authority Regular Meeting November 16, 2022 Council Chambers, Monroe City Hall

Chairperson William Slicker called the meeting to order at 8:31 a.m.

1. Roll Call

- Present: Mayor Robert Clark, Andy Clark, Erik Drummonds, William Slicker, Stuart Eastman, Mary Hastings, Robert Copp
- Absent: Scott Kegerreis, Malissa Whited
- Staff: Annette Knowles, Downtown/Economic Development Coordinator
- 2. Vision Statement Read by Mayor Clark

3. Additions/Deletions to the Meeting Agenda- None

4. Public Comments

Nate Thompson commented that he had no comment but was just there to observe.

5. Consent Agenda

- A. Approval of Agenda
- B. Financial Reports:
 - October, DDA Preliminary Itemized Expenditure Report FY 2022-2023
 - October, DDA Revenue and Expenditure Report FY 2022-2023

Motion by Andy Clark, seconded by Mayor Clark to approve items on the Consent Agenda. *Motion carried, all ayes.*

6. Project/Work Plan Updates

Erik Drummonds discussed the Certified Local Government Grant Program and DDA opportunities to utilize it.

Andy Clark discussed the PlacePlan Pocket Park. Mayor Clark added comments about this project.

William Slicker updated on the study of the two-way conversion of 1st St and Front St. Mary Hastings is assisting William Slicker on this study and meeting with Patrick Lewis.

Stuart Eastman is currently taking steps to develop a downtown marketing plan.

Slicker and Mayor Clark have reengaged the EV station project with details to come.

7. New/Other Business

A. BIG Program Reimbursement for 39 South Monroe Street

Motion by Mayor Clark, seconded by Drummonds to authorize reimbursement in the amount of \$3,191.00 in accordance with program requirments to Frank and Lisa Wszelaski for improvements to 39 South Monroe Street, funds to be derived from account #751-65.691-818.020, Façade Improvements. *Motion carried, all ayes.*

B. December Meeting Date Change from December 21 to December 14

Motion by Copp, seconded by Hastings to change December meeting date. *Motion carried, all ayes.*

C. Work Plan Process for Fiscal Year 2023-2024- Phase II

Annette presented a spreadsheet to everyone on the work plan for the forthcoming Fiscal Year. She will best-guess individual projections and prepare a draft budget for the January meeting.

8. Board Member and Administrative Comments

Andy Clark reminded everyone about the Tree Lighting that is happening on Friday November 18th. The Mayor also discussed this year's new lighted displays.

9. Adjournment

Motion to adjourn at 9:34 a.m. by Hastings, seconded by Mayor Clark *Motion carried, all ayes.*

12/12/2022 11:50 AM User: aknowles DB: Monroe		GL ACTIVITY REPORT TRANSACTIONS FROM 2	GL ACTIVITY REPORT FOR CITY OF MONROE TRANSACTIONS FROM 11/01/2022 TO 11/30/2022			1/1	
Date	JNL	Туре	Description	Reference #	Debits	Credits	Balance
Fund 248 DO	WNTOWN	DEVEL	OPMENT AUTHORITY				207 46
11/01/2022			248-65.736-727.000 OFFICE SUPPLIES	10 (17 (0000	BEG. BALANCE		307.46
11/21/2022	AP	INV	ADOBE SUBSCRIPTION	10/1//2022	31.79		339.25
11/30/2022	AP	T IN V	248-65.736-727.000	END BALANCE	43.79	0.00	351.25
11/01/2022			248-65.736-730.000 POSTAGE		BEG. BALANCE		2.28
11/30/2022	GJ	JE	POSTAGE - NOV 2022	27315	2.28		4.56
11/30/2022			248-65.736-730.000	END BALANCE	2.28	0.00	4.56
11/01/2022			248-65.736-818.020 GENERAL CONTRACT	SERVICES	BEG. BALANCE		0.00
11/07/2022	AP	INV	RIVERWALK CONNECTOR LIGHTING PROJECT	18186	12,200.00		12,200.00
11/21/2022	AP	INV	SCHEMATIC DESIGN COUNTY MUSEUM CONNE(2808	7,241.72		19,441.72
11/30/2022			248-65.736-818.020	END BALANCE	19,441.72	0.00	19,441.72
11/01/2022			248-65 736-853 000 TELEDUONE		REG BALANCE		93 00
11/21/2022	ΔP	TNV	DDA TELEPHONE	10/11/2022	31 00		124 00
11/30/2022		1	248-65.736-853.000	END BALANCE	31.00	0.00	124.00
11/01/2022			040 CE 72C 0C0 000 THOURNAR DEFINIT		DEC DALANCE		886 00
11/01/2022	СТ		248-65.736-969.000 INSURANCE PREMIU	JM 27172	221 50		1 107 50
11/30/2022	GU		248-65,736-969,000	END BALANCE	221.50	0.00	1,107.50
11,00,2022					222.00	0.00	1,10,100
11/01/2022			248-80.100-665.005 INTEREST ON INVE	STMENTS	BEG. BALANCE		(3,978.10)
11/10/2022	GJ	JE	5/3 SERVICE FEES - OCT 2022	27218	19.16		(3,958.94)
11/30/2022	GJ	JE	MICHIGAN CLASS INTEREST - NOV 2022	27309		937.31	(4,896.25)
11/30/2022	GJ	JE	MICHIGAN CLASS EDGE INT - NOV 2022	27310		716.29	(5,612.54)
11/30/2022			248-80.100-665.005	END BALANCE	19.16	1,653.60	(5,612.54)

User: aknowles

DB: Monroe

12/12/2022 01:21 PM REVENUE AND EXPENDITURE REPORT FOR CITY OF MONROE

PERIOD ENDING 11/30/2022

GL NUMBER	DESCRIPTION	2022-23 AMENDED BUDGET MAL	YTD BALANCE A 11/30/2022 NTH (ABNORMAL) ASE	CTIVITY FOR 11/30/2022 (DECREASE) MAI	AVAILABLE BALANCE L (ABNORMAL)
Fund 248 - DOWNTOWN DEVELOPME	NT AUTHORITY				
Revenues					
Dept 80.100 - GENERAL REVENUE					
248-80 100-665 005	ΤΝΨΕΡΕΩΨ ΟΝ ΙΝΥΕΩΨΜΕΝΨΩ	1 000 00	5 612 54	1 634 44	(1 612 54)
240 00.100 003.005	INTEREST ON INVESTMENTS	1,000.00	3,012.34	1,034.44	(1,012.34)
Total Dept 80.100 - GENERAL R	EVENUE	1,000.00	5,612.54	1,634.44	(4,612.54)
Dept 80.600 - GENERAL REVENUE					
248-80.600-402.000	REAL PROPERTY TAXES	311,700.00	262,649.54	0.00	49,050.46
248-80.600-410.000	PERSONAL PROPERTY TAXES	(34,800.00)	(20,658.45)	0.00	(14,141.55)
248-80.600-573.000	LCSA APPROPRIATION/PPT EXEMPT R	17,400.00	6,960.24	0.00	10,439.76
Total Dept 80.600 - GENERAL R	EVENUE	294,300.00	248,951.33	0.00	45,348.67
TOTAL REVENUES		295,300.00	254,563.87	1,634.44	40,736.13
Turner d'étaines					
Expenditures					
Dept 65.736 - DOWNTOWN DEVELO	PMENT	500.00	054.05		4 4 9 5 5
248-65.736-727.000	OFFICE SUPPLIES	500.00	351.25	43.79	148.75
248-65.736-730.000	POSTAGE	500.00	4.56	2.28	495.44
248-65.736-750.015	UNIFORMS/CLOTHING	100.00	0.00	0.00	100.00
248-65.736-750.075	SEASONAL DECORATIONS-DDA	10,000.00	7,454.60	0.00	2,545.40
248-65.736-818.010	AUDIT SERVICES	1,500.00	1,480.00	0.00	20.00
248-65.736-818.020	GENERAL CONTRACT SERVICES	175,000.00	19,441.72	19,441.72	155,558.28
248-65.736-853.000	TELEPHONE	1,600.00	124.00	31.00	1,476.00
248-65.736-860.000	TRAINING & TRAVEL	1,400.00	205.00	0.00	1,195.00
248-65.736-880.000	COMMUNITY PROMOTION	25,000.00	2,100.00	0.00	22,900.00
248-65.736-905.000	PUBLISHING/ADVERTISING	300.00	0.00	0.00	300.00
248-65.736-942.000	RENTAL-BUILDING	3,600.00	1,794.00	0.00	1,806.00
248-65.736-943.000	RENTAL-EQUIPMENT	445.00	445.00	0.00	0.00
248-65.736-955.000	MISCELLANEOUS EXPENSE	1,000.00	0.00	0.00	1,000.00
248-65.736-958.000	MEMBERSHIPS & DUES	600.00	200.00	0.00	400.00
248-65.736-964.700	FACADE IMPROVEMENTS	20,000.00	0.00	0.00	20,000.00
248-65.736-969.000	INSURANCE PREMIUM	2,658.00	1,107.50	221.50	1,550.50
248-65.736-971.000	LAND	100,000.00	0.00	0.00	100,000.00
248-65.736-974.000	LAND IMPROVEMENTS	100,000.00	0.00	0.00	100,000.00
248-65.736-995.101	TRANSFER OUT-GENERAL	10,000.00	0.00	0.00	10,000.00
248-65.736-995.301	TRANSFER OUT-DEBT SERVICE	125,060.00	23,530.00	0.00	101,530.00
Total Dept 65.736 - DOWNTOWN	DEVELOPMENT	579,263.00	58,237.63	19,740.29	521,025.37
TOTAL EXPENDITURES		579,263.00	58,237.63	19,740.29	521,025.37
Fund 248 - DOWNTOWN DEVELOPME	NT AUTHORITY:				
TOTAL REVENUES		295,300.00	254,563.87	1.634.44	40,736.13
TOTAL EXPENDITURES		579,263.00	58,237.63	19,740.29	521,025.37
NET OF REVENIIES . EVDENDITUTE	9	(283 963 00)	196 326 24	(18 105 85)	(480 289 24)
TIONE ST TO STORE & STORE	~	(200,000,000)		(+0,+00.00)	(100/200.27)

2022-2023 WORK PLAN

GOALS FROM STRATEGIC PLAN

Goal 1: Preserve and enhance downtown by facilitating development

Goal 2: Establish an environment that promotes residential growth

Goal 3: Market the downtown to encourage people to frequent local businesses and events

Goal 4: Inform and educate building owners and public of the actions and accomplishments of the DDA and businesses

Goal 5: Support downtown businesses and property owners through financial incentives, advocacy and awareness

Goal 6: Serve as an intermediary between the organizations that connect to downtown and link to other community

	PROJECT	TASKS	CHAMPION	TEAM MEMBER(s)	BUDGET	STATUS UPDATE
A.0	Front/Macomb parking lot redevelopment - RFP/legal				\$ 100,000.00	On hold per property availability
A.1		Property Acquisitions				
B.0	Develop Design Standards for downtown buildings/repeat 1983	1 Facade Study	Drummonds		\$ 50,000.00	Seeking Certified Local Government Grant due Feb. 2023
	1 0 0,1					0
C.0	Project from Riverwalk Enhancement Plan		Kegerreis/Whited		\$ 50,000.00	Materials on order
C.1			0 /		. ,	
C.2		MLK Foot Bridge Enhancements		R. Clark		\$100.000 commitment for FY22-23 to be included in budget
D.0	Identify locations for infill development				Ś -	
D.1		Property Acquisitions				
D.2		DTE EV Charging Stations	Slicker	R. Clark		See documents following this page
E.0	Building Improvement Grant Program		Slicker	Сорр	\$ 40.000.00	
E.1		39 S. Monroe - McGeady's			,	Reimbursement in process: to close by end of month
E.2		52 S. Monroe - Noble's/Residential				- · · · · · · · · · · · · · · · · · · ·
E.3		8 N. Monroe - River Raisin Banquet Center				Not eligible
E.4		34 W. Front - Castiglione				Expired
						E
F.0	Enhance maintnenance: improve garbage/litter clean up				\$ 25.000.00	
F.1		Garbage Off Streets			+,	
G.0	Upgrade the streetscape				\$ 100.000.00	
G.1		Seasonal Pole Banners		A. Clark	, ,	DONE
G.2		Sidewalk Exhibits/Historical		A. Clark		
G.3		Art Event/Galleries				
G.4		Murals/Rewrite Ordinance				
H.0	Implement a Project from Heart of Monroe Plan		Slicker	R. Clark, A. Clark	\$ 100,000.00	Concept under review; see attached materials following this page
H.1	p	Preserve Alley's Functionality			,,	
H.2		Make Alley Inviting				
H.3		Connect Alley to Community				
H.4		Incorporate Monore's Unique Identity				
H.5		Incorporate Green Features				
H.6		Manage and Care				

1.0	Install gateway enhancements		Slicker	Сорр	\$ 50,000.00
I.1		Permanent Placards on Entrance Buildings			
1.2		Murals			
J.0	Conversion of First/Front Streets		Slicker		\$ 100,000.00 Scoping meeting held with city departments and consultant 12/1
J.1		Traffic Conversion			
K.0	Annual Marketing Plan		Whited/Eastman		\$ 20,000.00 Virtual meeting to get organized held 12/5
K.1		Billboards			
K.2		National Park Service			
K.3		Social Media			
К.4		Flvers			
К 5		Monroe County Fair			
K.S		DDA Building Markers			
K.0		DDA Building Markers			
1.0	Annual Communications Plan		Mayor Clark		\$ 4,000,00
L.U	Annual Communications Flam				÷,000.00
MO	Stakeholder (Informational Mastings				ć 1.000.00. 2 hastad in 2022
IVI.U	Stakenoluer/IIIOIIIIdtioiidi Meetings				5 1,000.00 2 110Sted III 2022
					\$ 640,000.00
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Quotation

Driving a Better Way™ chargepoint.com

Sales Representative: Will White E-Mail: will.white@chargepoint.com Telephone: 408-340-7826

Primary Contact: William Slicker

Bill To Address

Quote Number: Q-254750-1 Date: 11/28/2022 Expires On: 12/28/2022

Ship To Address

City of Monroe MI Downtown Development Authority 120 E 1ST St Monroe Michigan 48161-2283 United States City of Monroe MI Downtown Development Authority 120 E 1ST St Monroe Michigan 48161-2283 United States

ChargePoint as a Service

ChargePoint as a Service[™] (CPaaS) is the easiest way to provide electric vehicle (EV) charging solutions without having to purchase and maintain everything yourself. You get the site ready, and for an annual subscription fee ChargePoint takes care of the installation, monitoring and maintenance to provide maximum uptime with minimum effort.

Product Name	Product Description	Term (Years)	Quantity	Lifetime Amount
CPAAS-CT4000-DUAL-5	5-year ChargePoint as a Service [™] subscription for Dual CT4000. Includes hardware and installation, cloud software, activation, ongoing proactive monitoring, maintenance, and reporting.	5	2	USD 24,000
				USD 24,000

Hardware Products Shipped with Subscription

Product Name	Product Description	Qty
CT4021-GW1	Dual Output Gateway North America, Bollard Unit - 208/240V @30A with Cord Management	2
	Total	2

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Annual Billing Summary

Term	Annual Billing
Year 1	USD 4,800.00
Year 2	USD 4,800.00
Year 3	USD 4,800.00
Year 4	USD 4,800.00
Year 5	USD 4,800.00
Grand Total	USD 24,000.00

Quote Acceptance

Requested Ship Date :

+ Invoices are Net 30 from invoice date.

+ All pricing is confidential between Customer and ChargePoint.

+ Customer to be invoiced at time of shipment.

+ Sales tax in applicable states will be applied to this quote at time of invoicing.

+ Credit checks are required for new customers.

+ Pricing does not include any electrical make ready work that is required for the installation.

+ Additional terms and conditions for this transaction can be found at http://www.chargepoint.com/legal/cpaas

+ Customer confirms that the shipping and billing information providing in this Quotation is accurate for ChargePoint's shipping and invoicing purposes.

+ Customer confirms that it has the power and authority to permit ChargePoint to install the Charging Stations at the Designated Parking Spaces.

By signing this quote I hereby acknowledge that I have the authority to enter into this transaction on behalf of my organization. Furthermore, I agree to the above terms and conditions and that this signed quote shall act as a purchase order.

Signature :	Title :
Name (Print) :	Date :
Company Name :	
Accounts Payable Contact Name :	
Accounts Payable Contact E-Mail :	

-chargepoin+

254 E. Hacienda Avenue Campbell, CA 95008 USA

Customer	r Credit Form	* denotes required field
*Contact person name	*Title	Phone
*Full Company Name	*Tax I.D. Number	Fax
*Trade Style: (dba)		
*Bill to Address		
*Federal Tax Classification: Corp., Partnership, LLC	*DUNS Number	
Type of Business	No. of Years in Business	
*If Division/Subsidiary, Name of Parent Company	No. of Years in Business	
*If Parent, Parent Address	Parent Phone	
*Is Purchase Order Required? YES OR NO	FED EX or UPS Account N	Number

Accounts Payable Contact

A/P Contact Name	*A/P Email
*A/P Phone	A/P Fax

Sales Tax Requirement

*Must check one of the below boxes. Failure to comply may result in delay of order shipment.

Yes. Tax exemption certificate is required. Must attach a valid tax reseller certificate for single ship to location or multi-jurisdiction with this form. Otherwise, shipment will be taxable per applicable rate.

No. Shipment will be taxable per applicable rate.

State and County where product(s) will be shipped

Signature: This credit application requires a signature from a Financial officer or Authorized Proxy.

By signing this application for credit, you certify that the information provided in this application is true and correct, you are authorized to sign this application on behalf of the applicant and agree to be bound by the terms and conditions as set forth in the order, unless otherwise noted and agreed to in writing.

Also, by signing this document, you authorize the release of detailed account information from the Bank and Credit References listed above for purpose of this credit review.

*Signature	*Date
*Print Name	*Title

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CT4000 Networked Charging Station

Site Design Guide

Make Ready Requirements for CPaaS



IMPORTANT SAFETY INSTRUCTIONS: SAVE THESE INSTRUCTIONS

WARNING:



1. Read and follow all warnings and instructions before installing and operating the ChargePoint® Charging Station. Install and operate only as instructed. Failure to do so may lead to death, injury, or property damage, and will void the Limited Warranty.

2. Only use licensed professionals to install your ChargePoint[®] Charging Station and adhere to all national and local building codes and standards. Before installing the ChargePoint[®] Charging Station, consult with a licensed contractor, such as a licensed electrician, and use a trained installation expert to ensure compliance with local building and electrical codes and standards, climate conditions, safety standards, and all applicable codes and ordinances. Inspect the Charging Station for proper installation before use.

3. Always ground the ChargePoint[®] **Charging Station.** Failure to ground the Charging Station can lead to risk of electrocution or fire. The Charging Station must be connected to a grounded, metal, permanent wiring system, or an equipment grounding conductor shall be run with circuit conductors and connected to the equipment grounding terminal or lead on the Electric Vehicle Supply Equipment (EVSE). Connections to the EVSE shall comply with all applicable codes and ordinances.

4. Install the ChargePoint® Charging Station using a ChargePoint approved method. Failure to install on a surface that can support the full weight of the Charging Station can result in death, personal injury, or property damage. Inspect the Charging Station for proper installation before use.

5. This charging station is not suitable for use in hazardous locations.

6. This device should be supervised when used around children.

7. Do not put fingers into the electric vehicle connector.

8. Do not use this product if the flexible power cord or EV cable is frayed, has broken insulation, or any other signs of damage.

9. Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.

10. Use 75°C or 90°C wire copper conductors only.

Important: Under no circumstances will compliance with the information in this manual relieve the user of his/ her responsibility to comply with all applicable codes or safety standards. This document describes the most commonly-used installation and mounting scenarios. If situations arise in which it is not possible to perform an installation following the procedures provided in this document, contact ChargePoint, Inc. ChargePoint, Inc. is not responsible for any damages that may result from custom installations that are not described in this document or for any failure to adhere to installation recommendations.

Product Disposal

Follow proper disposal methods according to local authorities. Re-using, recycling, or correctly processing obsolete devices is an important contribution to environmental protection. Product materials are recyclable as marked.



No Accuracy Guarantee

Commercially reasonable efforts were made to ensure that the specifications and other information in this manual are accurate and complete at the time of its publication. However, the specifications and other information in this manual are subject to change at any time without prior notice.

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Symbols Used in This Document

This guide and product use the following symbols:

DANGER: Risk of electric shock.





WARNING: Risk of personal harm or death.

C

CAUTION: Risk of equipment or property damage.



Important: Crucial step for installation success.





Read the manual for instructions.



Ground/protective earth.

-chargepoin+.

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Site Design Guidelines 1

This document describes how to design a project site for the ChargePoint[®] CT4000 networked charging station for electric vehicles. This includes guidelines and best practices for electrical infrastructure and capacity planning, construction and concrete work required prior to installation of charging stations, and cellular signal requirements.

For full specifications and certifications for CT4000 charging stations, refer to the *CT4000 Data Sheet* found online at: chargepoint.com/products/guides.

Initial Site Guidelines

ChargePoint recommends that you plan to install charging stations for 5-10% of parking spaces at commercial buildings, or 10-20% for high EV adoption areas like California. Designing electrical infrastructure to support current and future needs for EV charging helps avoid costly upgrades later as demands for EV charging grows.

Electrical Requirements

An onsite evaluation is needed to determine conduit and wiring requirements from the panel to the proposed parking spaces, construction and concrete requirements for mounting the charging stations, as well as to measure cellular signal levels and identify suitable locations for any necessary cellular signal booster equipment.

Review the CT4000 Data Sheet at chargepoint.com/products/guides.

Each Level 2 charging port requires:

- a dedicated single-phase electrical circuit (32 A at 208/240 V).
- a new dual pole breaker 40 A circuit breaker at the electrical panel. (Used breakers can damage equipment and cause a fire risk.)
- Conductor wiring sized in accordance with the National Electric Code requirement for 125% capacity for continuous load for all branch circuits from panel to stations via raceway or conduit.

Consequently, a CT4000 charging station with two charge ports requires two circuits and two new dual pole 40 A circuit breakers. If power capacity is limited at a site or to reduce costs for electrical infrastructure, consider ChargePoint Power Management options for power sharing at the circuit level, panel level, transformer, or site level.

Cellular Connectivity

The CT4000 charging station needs strong cellular connectivity to allow ChargePoint to communicate with the station. A connection is needed for station owners and operators to access these features:

- User authentication, access control, and billing
- Energy usage reporting
- · Charging station utilization and charging session details for analytical reporting
- Real-time charging status to drivers using the ChargePoint mobile app or web portal
- Ability for drivers to use the ChargePoint mobile app and Tap to Charge, Apple Pay, or Android Pay on their smartphone to start and stop sessions
- Text or email notifications to drivers when vehicle battery is full or stops charging
- Notifications to drivers prior to pricing increases for overstay of parking at EV spots
- Station fault alarms and remote diagnostic capability
- · Over-the-air software upgrades for new station features or enhancements

If you have preexisting infrastructure or are using your own preferred electrical contractor to prepare your site, a Site Validation by a ChargePoint Operations and Maintenance (O&M) partner is required to certify compliance with electrical specification requirements, and to ensure everything was prepared to ChargePoint specifications.

Important: Always check local codes or consult an engineer to ensure the site is prepared in compliance with all applicable regulations. Local authorities might not allow a unit to operate if it is not installed to code.

Charging Station Placement

To help minimize costs, choose station locations that are as close as possible to the available electrical infrastructure. Selecting these types of locations helps minimize long conduit and wire runs, as well as any trenching work.

WARNING: The ChargePoint Charging Station must be installed on a level concrete base or attached to a flat wall. Asphalt cannot support the full weight of the Charging Station. Failure to install the ChargePoint Charging Station on a level concrete base or a flat wall may cause the Charging Station to tip over, resulting in death, personal injury, or property damage.

Layout Considerations

- Identify station locations for EV charging spots.
- To help minimize costs, choose station locations that are as close as possible to the available electrical infrastructure.
- Consider locations where it will be easy to add future stations.

- Consider how easily drivers can find the stations they need to access.
- Identify suitable locations with smooth, plumb surfaces for wall mount stations or suitable floor surfaces for pedestal mount stations.
- Determine raceway or conduit runs for electrical wiring from the electrical panel. Consider a layout to minimize linear conduit costs to all proposed EV parking spaces. If possible, avoid or minimize trenching requirements, especially more costly trenching to run conduit under asphalt surfaces.
- Consider ADA compliance. The charging station should not block ramps or pathways and the bottom of the screen cannot be more than 48 inches above the level of the parking stall.
- Choose adjacent parking spaces in an area with adequate lighting.
- For stall parking, ChargePoint prefers using perpendicular parking stalls to better accommodate EVs with front and rear charge ports.

Note: While ChargePoint tests charging stations with a majority of upcoming vehicles, ChargePoint cannot guarantee the port locations of future vehicles and cannot warrant the configurations proposed will work for all vehicles.

- Use dual-port pedestal mount stations where possible in open areas for adjacent parking or adjoining parking spaces.
- Consider protective bollards and wheel blocks where appropriate, especially for open tandem parking spaces.

Electrical Considerations

- Evaluate existing electrical infrastructure to determine if the existing utility service and electrical panel capacity is sufficient. Ensure the electrical wiring, overcurrent circuit protection, and metering (if required) is in place by reviewing the data sheet, as well as the wiring diagram and grounding requirements in this document.
- Ensure the electrical wiring, overcurrent circuit protection, and metering (if required) is in place by reviewing the data sheet, as well as the wiring diagram and grounding requirements in this document.
- Ensure that you use 16 mm² (6 AWG) or 10 mm² (8 AWG) wire to the station. If you will be feeding the station with larger wire (like 25 mm² (4 AWG), you will need to splice the wire for 16 mm² (6 AWG) or 10 mm² (8 AWG). For each charging port, only three wires are required: L1, L2, and Ground. For dual port stations, only five wires are required as both ports share the same Ground wire.

Note: Neutral must be bonded to Ground upstream at the transformer or panel for each separately derived system.

• Identify costs for any necessary upgrades and/or a new dedicated electrical panel. Size all conduit and electrical wiring in accordance with the National Electric Code requirements.



ChargePoint recommends using a certified electrician to evaluate available capacity and identify any upgrades that may be required.

• If a dedicated EV electrical panel is required, choose a panel location in close proximity to the existing electrical supply.

Additional Considerations

- Determine appropriate mounting type: wall mount vs. pedestal mount.
- Use dual-port pedestal mount stations where possible in open areas for adjacent or tandem parking spots. Establish the quantity of each type of charging station in the initial order.
- Measure cellular signal levels using professional cellular test equipment to ensure adequate cellular coverage at the station installation location. To ensure adequate signal strength in underground or enclosed parking structures, cellular repeaters may be required. Use an indoor antenna located near EV parking spaces and an outdoor antenna typically located at the garage entrance ceiling or on the rooftop where cellular signals are best.
- Determine cost budget options for electrical infrastructure to satisfy current needs and future needs. Prioritize charging stations locations based upon immediate and future needs, construction timelines, and costs.

Plan for the Future

Keep in mind not only current EV charging needs, but future needs as EV adoption grows.

- Consider running raceway or conduit to all planned EV parking spots, but pulling electrical wiring from the panel to meet current needs.
- Consider installing a dedicated electrical panel for EV charging, then leverage ChargePoint Power Management to efficiently use available power at a site to support more EV charging ports than would otherwise be possible without power management.

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Civil and Mechanical Design 2

Use the guidance below to design the civil and mechanical aspects of the site.

The station can be installed attached to a wall, or on a concrete pedestal. The pedestal can be a newly poured pad or an existing concrete surface.

Wall Mount Stations

For wall mounted stations, the wall must be smooth, stable, and plumb. The minimum height of the wall must be 1250 mm (49 in). Place wheel stops (a) 915 mm (36 in) from the wall. The arc shows the usable reach of the two charging cable lengths available, 5.5 m (18 ft) (b) and 7 m (23 ft) (c).



!

Important: Ensure the wall supports the station. If mounting to a hollow wall, bridge at least two studs using a 41 mm (1-5/8 in) channel strut.

WARNING: If not installed correctly, the ChargePoint® Charging Station may pose a fall hazard, leading to death, personal injury, or property damage. Always use the provided Concrete Mounting Template or a ChargePoint-approved surface mounting solution to install the ChargePoint® Charging Station and install in accordance with applicable codes and standards using licensed professionals. Non-approved installation methods are performed at the risk of the contractor and void the Limited Warranty.

Pedestal Mount Stations

For newly poured pedestal mounted installations, the mounting surface must be smooth and cannot exceed a slope of 6 mm per 300 mm (0.25 in per ft). The concrete base must measure at least 610 mm (2 ft) on all sides. For installations in existing concrete, epoxy anchors can be used. Consult a civil engineer to ensure sufficient volume and strength of concrete.

There are three basic pedestal base designs:

- In front of a curb (a) 915 mm (3 ft) (a) x 915 mm (3 ft) / 2 (b) x 610 mm (2 ft) Area: 0.42 m² (4.5 ft²) Volume: 0.26 m³ (9 ft³)
 a
- Behind a curb (a) in a planter or berm 610 mm (2 ft) x 610 mm (2 ft) x 610 mm (2 ft) Area: 0.37 m² (4 ft²) Volume: 0.23 m³ (8 ft³)

Note: Use a retaining wall as needed to prevent dirt from accumulating on the pad.

Two stations back to back, centered between four spaces
 915 mm (3 ft) x 915 mm (3 ft) x 915 mm (3 ft)
 Area: 0.84 m² (9 ft²)
 Volume: 0.51 m³ (18 ft³)





The pedestal base design can be configured in a variety of ways to serve different parking arrangements. Ensure a sufficient volume of concrete to provide anchoring for the charging station.

• Place the station in a planter or berm between spaces with wheel stops 915 mm (3 ft) from the front of each stall.



• Place the station against the curb between spaces with wheel stops 915 mm (3 ft) from the front of each stall. The base of the charging station can be flush with the parking spaces or at curb level..



• Place two stations back to back centered on four spaces with wheel stops 915 mm (3 ft) from the front of each stall. The base of the charging station can be flush with the parking spaces or at curb level.



 Place a dual holster station centered on the right space. The charging cables reach two vehicles. Place a wheel stop (a) 1220 mm (4 ft) from the center of the charging station. The arc shows the usable reach of the two charging cable lengths available: 5.5 m (18 ft) (b) and 7 m (23 ft) (c). The 7 m (23 ft) cord option is recommended for this configuration. The base of the charging station can be flush with the parking spaces or at curb level. Be sure to install EV Charging Station signs on both spaces.



- Place a dual holster station centered between two parallel parking spaces (a), each 6 m (20 ft) long. Place the station (b) 450 mm (18 in) from the curb. A 7 m (23 ft) charging cable is recommended.
- Place a single holster station for a single parallel parking space 6 m (20 ft) long. Place the station (a) 450 mm (18 in) from the curb, and 1.8 m (6 ft) from the front of the parking space (b).



Drainage

Ensure any site slopes, walls, or fencing do not trap water around the charging station installation site. The system is only built to withstand water to the height of the conduit stub-up.

WARNING: Exposing the ChargePoint® Charging Station to water above the height of the conduit stub-up could create an electrocution, shock, or fire hazard. Cut power to the Charging Station if it has been exposed to standing water and contact ChargePoint before the Charging Station is powered on.

Clearances

For pedestal installations, the conduit stub up must be a minimum of 230 mm (9 in) from any obstructions to the rear. This includes other charging stations.Check applicable codes for any additional clearance requirements.

Accessibility

The CT4000 touchscreen and charging cables are centered at 1143 mm (45 in) to comply with American Disability Act (ADA) requirements. If your installation must comply with ADA standards, or the disability access regulations for other regions, consider this height when designing the height of the pad or when planning a wall-mounted installation. Also consider site design factors such as placement of pedestals or other vehicle obstacles. The placement must not obstruct ramps or pathways.

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Electrical Design **3**

The wall mount CT4000 installation uses surface mount wiring. The pedestal mount CT4000 installation requires service wiring installed underground. (If a site requires surface mounting, contact ChargePoint before beginning work, to obtain an approved installation method.) Conduit and wire size are determined based on the length of runs from the electrical panel to the station location. Service wiring must be run through conduit to comply with local electrical codes. Consult national and local codes or a project engineer to determine the grade, quality, and size of the conduit or cable. The CT4000 Concrete Mount Kit accommodates service wiring through the flare, conduit, or locally appropriate wiring method.

Note: All wiring and conduit is supplied by the contractor unless otherwise indicated.

Upstream Components

Charging stations are considered continuous load devices (EVs draw maximum load for long durations); therefore, electrical branch circuits to EV chargers must be sized at 125% of the load for North American installations, in accordance with National Electric Code (NEC) requirements. (For other regions, refer to local code.) This means that for a maximum 32 A load at 208/240 V output to an electric vehicle, 40 A breakers are required.

Wiring must be sized in accordance with NEC code for continuous load devices. Typically, 16 mm² or 10 mm² (6 AWG or 8 AWG) insulated electrical wiring is used, depending upon the distance between the electrical panel and the charging station. The terminal block accepts a maximum of 16 mm² (6 AWG) wire.

When planning multiple EV charging stations, it is best practice to segment non-continuous and continuous loads, with all branch circuits for EV charging on a dedicated electrical panel assembly with adequate circuit breakers. When sizing new electrical panels dedicated for EV charging, all branch circuits must support continuous load, and the panel rating must be sized for at least 125% of the total load on each leg of a 3-phase panel.



CAUTION: The CT4000 charging station is tested to IEC 61000-4-5, Level 5 (6 kV @ 3000 A) standards. In geographic areas that experience frequent thunderstorms, appropriate supplemental surge protection is recommended to guard against product damage.



Important: ChargePoint stations are UL 916 listed as Energy Management devices and are networked for real time communication to ensure they operate within the provisioned load allowance.

Conduit

The outer diameter of conduit must not exceed the sizes called out in the conduit layout drawing: 63.5 mm (2.5 in). Conduit stub-ups cannot extend higher than 660 mm (26 in).

For wall mounted stations, flex conduit must be used to bring the wire to the station.

Wiring Requirements

For full product specifications, refer to the *CT4000 Data Sheet*. Using that data, ensure that the installation location is equipped with service wiring that supports the CT4000's power requirements:

- AC conductors (L1, L2)
- Ground conductor

When pulling electrical wiring via conduit for CT4000 pedestal mount, ensure at least 915 mm (36 in) of coiled wire remains above conduit stub up.

When pulling electrical for wall mounted stations, the conduit and wire must be brought to the location where the stations will be mounted. Flex conduit must be used to bring the wire to the station. Wiring is brought in via the bottom of the CT4000.

Important: The AC terminal blocks on the CT4000 accept a maximum size of 16 mm² (6 AWG) solid or stranded wires. If using a larger gauge wire to accommodate a long run, reduce the wire size at the disconnect.

Wiring Diagram

240 VAC Single Phase Panel



- 1. Main Breaker 7. Left L1
- 2. Neutral Bus 8. Left L2
- 3. Ground Bus 9. Right L1
- 4. Neutral 10. Right L2
- 5. L2 11. 240 VAC
- 6. L1

- Terminal Block Left
 Terminal Block Right
- 15. Left L1
- 16. Right L1
- 17. Left L2
 - 18. Right L2

- **19.** Strip wire 13 mm (1/2 in)
- 20. Local Service or Subpanel
- **21.** 120/240 VAC 10
 - Bonded Neutral Required

Left and right refers to the left and right ports on the charging station.

12. Ground

208 VAC Three Phase Panel



- 1. Main Breaker 8. Left L1
- 2. Neutral Bus 9. Left L2
- 3. Ground Bus 10. Right L1
- 4. Neutral 11. Right L2
- 5. L3 12. 208 VAC
- 6. L2 13. Ground
- **7.** L1

- 15. Right L1
- 16. Left L2
- 17. Right L2
- 18. Terminal Block Right
- 19. Terminal Block Left
- **20.** Strip wire 13 mm (1/2 in)
- 21. Local Service or Subpanel

- 22. 120/208 VAC 30
 - Bonded Neutral Required
- Each 40 A, 2-Pole
 breaker may be connected to any two lines.

Left and right refers to the left and right ports on the charging station.

14. Left L1

Grounding Requirements

The CT4000 must be connected to a grounded, metal, permanent wiring system. An equipmentgrounding conductor must be run with circuit conductors and connected to an equipmentgrounding terminal or lead on the CT4000.

A grounding conductor that complies with applicable codes must be grounded to earth at the service equipment or, when supplied by a separate system, at the supply transformer.

Ensure that a grounding conductor that complies with all applicable codes is properly grounded to earth at the service equipment or, when supplied by a separate system, at the supply transformer.

The voltage of either line, relative to ground, must not fall below 80 volts or a Floating Line Connection error occurs. Because the voltage of either line relative to ground must not be allowed to fluctuate, use only center-grounded systems. Neutral is not used to power the station but must be properly connected to ground, at the panel or transformer, to provide the necessary voltage reference relative to ground.

- In a Wye system, connect the station to any two lines, as shown.
- In a Delta system, connect the station to a center-tapped secondary only, where the center tap is bonded and the station is connected to the L1 and L3. This allows voltages to remain constant regardless of other loads that may be using the lines.

Connect To These Systems

 120/240 VAC, 10 Bonded Neutral Station is connected to L1 and L2 Neutral is not used



 120/208 VAC, 30 Wye Bonded Neutral Station may be connected to any two lines Neutral is not used



 120/240 VAC, 30 Delta Center tap grounded Bonded neutral Station must be connected to L1 and L2 only Do not connect any part of the system to L3 Neutral is not used
 Not recommended for new construction



Do Not Connect to These Systems

 120/208 VAC 3 phase Wye, ungrounded Floating neutral Voltage of either line to ground is undetermined Neutral is not grounded



- 120/240 VAC 3 phase Delta, corner-grounded
 Voltage of any line is not 120 V nominal relative to ground
- Any system where the center point of the AC power source is not grounded.



Cellular Connectivity

A consistently strong cellular signal is needed before installers can activate the station. Do not rely on cell phone applications to measure cellular signals when conducting site surveys. Take cellular readings at the exact location of each proposed EV charging station location.

Ensure the Reference Signal Receive Power (RSRP) is -100dBm or better. (Note that these numbers are all negative, so -80 dBm is stronger than -100 dBm, and -120 dBm is weaker.) Use a cellular signal detection device (such as an OctopusTM or Snyper-LTE GraphyteTM (USA) by Siretta) to take signal strength readings at the exact proposed Gateway location. If the test tool is capable of measuring the RSRQ value, ensure the value is higher than -10. (Again, where this is measured in negative numbers, so that -9 is higher than -10).

If the RSRP signal is below -100 dBm or the RSRQ value is below -10, take cellular readings at location where a cellular signal booster outdoor antenna will be installed to ensure enough signal exists to be boosted. Install repeaters to boost the strength of the cellular signals. Repeaters are often required when installing the charging station in an underground garage or enclosed parking structure. We recommend using a multi-carrier cellular repeater system. Here are some options for cellular signal boosters:

- WeBoost 4G-X for all carriers in North America, supports voice, 3G and 4G, max gain of 70 dB for up to 10,000 square feet of coverage area
- SureCall Fusion 5 for all carriers in North America, supports voice, 3G and 4G, average gain of 65 dB & max 72 db for up to 6,000 square feet of coverage area
- SureCall Force 5 for all carriers in North America for up to 20,000 square feet of coverage inside parking structure

Consult an expert in the cellular repeater industry for additional guidance. ChargePoint O&M partners can validate acceptable cellular signal strength at the site using a cellular strength reader.

-chargepoin+.

CT4000 Pedestal Mount 4 Concrete Preparation

The ChargePoint charging station pedestal mount can be installed either into new concrete or onto an existing concrete surface (on an intermediate floor only). The kit components you need to use, the tools required, and the installation steps vary depending on the type of installation: installation on new concrete or installation on existing concrete.



WARNING:

Do not use expanding anchor bolts. Do not install the CT4000 on an asphalt surface.

Concrete Mount Kit

ChargePoint offers an optional CT4000 Concrete Mount Kit for purchase. The kit contains all parts needed to install the CT4000 pedestal mount into new or existing concrete.

Kit Contents

- 1 9 galvanized washers
- 2 3 hot-dipped galvanized threaded bolts
- 3 1 plastic bolt installation template
- 4 12 hex nuts
- 5 CT4000 installation template with CMK footprint

Note: The Concrete Mount Kit contains 12 hex nuts and 9 galvanized washers. You need only 6 of each for installation on existing concrete pad.



Installation into New Concrete

Before casting new concrete, review the site for suitability to install a CT4000. The CT4000 requires space behind the power stub-up for the Cable Management Kit (CMK). To ensure adequate clearance,

refer to the illustrations below and to the CT4000 Installation Template (75-001094-01) included in the Concrete Mount Kit.

Note: If the original copy of the installation template is lost, a new one can be printed at: https://chargepoint.box.com/v/CT4000-bpt-enus. Ensure the PDF version of the mounting template is accurate by printing at 100% scale on 11x17 paper and verifying at least one dimension.

- Always check applicable codes to ensure compliance. You may need to adjust these instructions to comply with codes that apply at your installation location.
- The concrete block must measure at least 610 mm (24 in) on all sides.
- The bolt threads must extend 76 mm (3 in) above the concrete.
- The conduit must extend 300 to 610 mm (12 to 24 in) above the concrete.

Installation Instructions

- Install two nuts, with two washers captured between them, onto each of the three bolts. Lock them together so the lower end of the upper nut is located 150 to 160 mm (6 to 6-1/4 in) from one end of the bolt. This sets the length of the exposed threads.
- 2. Place the plastic bolt installation template over the three bolts. This ensures the relative position of the bolts and that the flange of the pole fits over the bolts.
- On the opposite end of each bolt, install a nut, a washer, and a nut. Lock the two nuts together so that the lower nut aligns to the bottom of the bolt. This provides retention for the bolt in the concrete.
- 4. Immediately after pouring the concrete, push the bolts into the concrete 150 mm (6 in) deep.
 - Ensure correct alignment, with the two bolts facing forward and the third bolt to the rear.
 - Ensure that the top 76 mm (3 in) of the bolts remains exposed.
 - Use a bubble level to ensure the bolts are plumb.

Important: Rotate the bolts as you insert them. This allows the concrete to fully coat the threads of the bolts, reducing the amount of trapped air.



Note: The plastic bolt installation template can be left in place.

5. When the concrete is fully set, remove the upper nuts and the washers to install the pedestal's mounting post.

You are now ready to install the CT4000 pedestal mount charging station.

Installing on Existing Concrete

Review the site for suitability to install a CT4000. The CT4000 requires space behind the power stub-up for the Cable Management Kit (CMK). To ensure adequate clearance, refer to the CT4000 Installation Template (75-001094-01) included in the installation kit.

Minimum Requirements

- Always check local codes to ensure compliance. You may need to adjust these instructions to comply with codes that apply at your installation location.
- Review the dimensions of the existing concrete slab. To safely mount a CT4000 charging station, the concrete must be at least 150 mm (6 in) thick. At this thickness, all of the CT4000 mounting bolts must be positioned at least 380 mm (15 in) from the front edge, at least 300 mm (12 in) from the side edges, and at least 150 mm (6 in) from the rear edge of the concrete slab.
- If an existing charging station is already in place at the installation site, turn off all power to the station and disassemble according to the original manufacturer's instructions. Cut away any existing bolts or non-power conduit stub-up to ground level. You may need to plug cut-away conduits at the slab end, and disconnect wiring at the other end.

Tools Required

Electric hammer drill with 12 mm (1/2 in) or larger chuck.

Consumables Required

The following table lists and describes consumable items that you will need. The quantity listed in the table is based on installation of one charging station.

Note: The consumption rate of these products varies depending on conditions at the installation site.

Quantity	Description	Purpose
1	Epoxy adhesive for concrete such as Hilti RE-500.	Fill drilled holes.
1	Electrical cleaning and maintenance aerosol, any angle spray duster, 235 ml (8 oz), such as McMaster #7437K35	Clean drilled holes. Note: Compressed air will work.
1	Slow spiral round-shank masonry drill bit, 19 mm (3/4 in) diameter, 12.5 mm (1/2 in) shank, 254 mm (10 in) drill depth, 305 mm (12 in) length overall, such as McMaster #2960A22	Drill 19 mm (3/4 in) holes in concrete. Note: The holes must be at least 150 mm (6 in) deep.

Quantity	Description	Purpose
1	Drill bit for concrete embedded rebar, round 19 mm (3/4 in) bit size, 12.5 mm (1/2 in) shank diameter, 305 mm (12 in) length overall, such as McMaster #28655A25	Drill 19 mm (3/4 in) hole through rebar.
1	Nylon loop handle brush, 19 mm (3/4 in) brush diameter, 76 mm (3 in) length brush, 216 mm (8 1/2 in) length overall, such as McMaster #7221T13	Clean drilled holes.
1	Push-on round cap, fits 16 mm (5/8 in) - 17.5 mm (11/16 in) OD, 1/2 in inside height, pack of 100, such as McMaster #9753K47	Keeps the epoxy inside the drilled holes in situations where the slab is only 150 mm (6 in) deep.

Installation Instructions

- Install two nuts, with two washers captured between them. Lock them together so the lower end of the upper nut is located 150 to 160 mm (6 to 6 1/4 in) from the bottom of the bolt. This sets the length of the exposed threads.
- 2. Place the plastic bolt installation template to mark the hole locations.
- Remove the template and drill three 19 mm (3/4 in) diameter holes 150 mm (6 in) deep into the concrete.
 - When locating the template, consider the charging station's total footprint.
 - It is important that the bolts are parallel after installation. Ensure the drill holes are plumb by using a level to check the angle of the drill after drilling 25 to 38 mm (1 to 11/2 in).
 - If installing over existing buried conduit, position the center of the template around the conduit stub-up.



150-160 mm

6-6 1/4 in

• You may need two drill bits: one for the concrete (with the pilot) and another for the rebar (without the pilot). Always start the hole using the standard drill bit, then switch to the rebar drill bit only if drilling through rebar.

- 4. Remove all dust from inside the drilled holes using compressed air, a vacuum, and/or a brush.
- 5. If the concrete slab is only 150 mm (6 in) deep, insert a plug (such as McMaster product #9753K56) in each hole to keep the epoxy in place until it hardens. Place the plug over the long end of a bolt and then use the bolt to push the plug to the bottom of the hole.
- 6. Fill each hole with epoxy to about 64 to 76 mm (2 1/2 to 3 in) below the top. Continue immediately to the next step because the epoxy sets quickly.

Note: Inserting the threaded bolts displaces the epoxy, causing it to fill the holes to the grade level. If the epoxy is below grade level after the next step, add more epoxy.

- 7. Place the plastic concrete bolt installation template over the holes. This ensures the relative position of the bolts and that the flange of the pole fits over the bolts.
- 8. Insert the bolts through the template, into the holes.

Important: Rotate the bolts as you insert them. This allows the epoxy to fully coat the threads of the bolts, reducing the amount of trapped air.

Note: The installation template can be left in place.

- 9. If needed, top the holes with epoxy to grade level.
- **10.** Use a bubble level to ensure the bolts are plumb.
- **11.** Allow the epoxy to cure (depending on cure times recommended by the epoxy manufacturer) before removing the top nuts and washers.
- **12.** Allow the epoxy to fully cure (depending on cure times recommended by the epoxy manufacturer) before applying torque to the nuts.



You are now ready to install the CT4000 pedestal mount charging station.

Proper Wall Mount Make Ready Pictures









Proper Pedestal Mount Make Ready Picture



Warranty Information and Disclaimer

The Warranty you received with your Charging Station is subject to certain exceptions and exclusions. For example, your use of, or modification to, the ChargePoint® Charging Station in a manner in which the ChargePoint® Charging Station is not intended to be used or modified will void the limited warranty. You should review your warranty and become familiar with the terms thereof. Other than any such limited warranty, the ChargePoint products are provided "AS IS," and ChargePoint, Inc. and its distributors expressly disclaim all implied warranties, including any warranty of design, merchantability, fitness for a particular purposes and non-infringement, to the maximum extent permitted by law.

Limitation of Liability

CHARGEPOINT IS NOT LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION LOST PROFITS, LOST BUSINESS, LOST DATA, LOSS OF USE, OR COST OF COVER INCURRED BY YOU ARISING OUT OF OR RELATED TO YOUR PURCHASE OR USE OF, OR INABILITY TO USE, THE CHARGING STATION, UNDER ANY THEORY OF LIABILITY, WHETHER IN AN ACTION IN CONTRACT, STRICT LIABILITY, TORT (INCLUDING NEGLIGENCE) OR OTHER LEGAL OR EQUITABLE THEORY, EVEN IF CHARGEPOINT KNEW OR SHOULD HAVE KNOWN OF THE POSSIBILITY OF SUCH DAMAGES. IN ANY EVENT, THE CUMULATIVE LIABILITY OF CHARGEPOINT FOR ALL CLAIMS WHATSOEVER RELATED TO THE CHARGING STATION WILL NOT EXCEED THE PRICE YOU PAID FOR THE CHARGING STATION. THE LIMITATIONS SET FORTH HEREIN ARE INTENDED TO LIMIT THE LIABILITY OF CHARGEPOINT AND SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.



CAN ICES-3 (A)/NMB-3 (A)



chargepoint.com/support 75-001375-01 r1



MONROE COUNTY MUSEUM







A	Dumpster Enclosure with	Ζ
	Ramp at Pedestnan Opening	
В	Paralled Parking/Food Truck Parking/Loading Area Parking	\triangleleft
С	Bench	
D	Decrative Pavement	
E	Dining Area	Ω
F	Movable Planter	
G	New or Relocated Ramp	
н	Faux Green Wall with Wooden	
	String Light	0_
	Entrance Arch	
ĸ	Green Screen with	\triangleleft
	Flowering Vines	
L	Synthetic Lawn	O
м	Planting Area	()
N	Concrete Paving	0)
0	Utility Pole Decoration	\cap
Р	Parking Lot	
Q	New Concrete Walk	Z
R	Monroe County Museum	
S	River Raisin Centre for the Arts	\triangleleft
Т	Historic Park	
U	Charging Station	
V	Trash Receptacle	
W	Way-finding Sign	
×	Historic Interpretive Column	
Y	Proposed Drive Approach at 2nd St	\triangleleft
Z	Table/Seating with Umbrella	







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