

CONCEPTUAL COMMERCIAL EV CHARGING ELECTRICAL ONE-LINE DIAGRAM

EX. BGE UTILITY POLE / XFMR BANK

PROPOSED PAD-MOUNTED BGE TRANSFORMER (T-002)
480Y/277V, 3Ø, 4W
UTILITY-OWNED
FINAL XFMR SIZE TBD BY BGE
MAX TRANSFORMER CEILING: 2,500 KVA' [cite: image_850183.jpg]

UPDATED ONE-LINE DIAGRAM FOR
BGE 2.5 MVA SUBMISSION - MAY 2026

BGE METER / CT CABINET (E-003)

MAIN SERVICE & AUXILIARY AREA
(LOCATED AT SITE ENTRANCE)

MAIN SERVICE DISCONNECT (E-004)
480Y/277V, 3Ø, 4W
CUSTOMER-OWNED
SIZE TBD BY ELECTRICAL ENGINEER

MAIN SERVICE SWITCHGEAR / SWITCHBOARD (E-005)
480Y/277V, 3Ø, 4W
CUSTOMER-OWNED
FINAL BUS RATING TBD BY ELECTRICAL ENGINEER

FIELD CHARGER COMPONENT ZONE

AUXILIARY STEP-DOWN TRANSFORMER (T-1)
480V PRIMARY / 208Y/120V SECONDARY

AUXILIARY PANELBOARD (LP-1)
208Y/120V, 3Ø, 4W
OFFICE TRAILER / LIGHTING / CONTROLS
• Total Load (100 kVA)

TESLA V4 SEMI CHARGER CABINET (EVC-1)
CONNECTED LOAD: 1,247 kVA
480V, 3Ø INPUT
FEEDS TESLA SEMI CHARGING POSTS 1-2
DYNAMIC POWER SPLIT BASIS [cite: 1.1]

EV DISTRIBUTION SWITCHBOARD (EVC-DB-1)
480V, 3Ø
CUSTOMER-OWNED

ZEROVA DQ480 DCFC-1
522 kVA INPUT

ZEROVA DT240 DCFC-1 & DCFC-2
522 kVA TOTAL (2x 261 kVA CABINETS)
[cite: image_905742.jpg]

TESLA SEMI CHARGING POSTS 2 (EVC-1A & EVC-1B)
DISPENSER/CHARGING POST

TESLA SEMI CHARGING POSTS 2 (EVC-1A & EVC-1B)
DISPENSER/CHARGING POST

QUANTITY (2) PER PLAN

LEGEND

	XFMR		DISC
	M		OCFD
	CT		EVSE
	MDP		DCFC
	MSB		AIC
	SWGR		SCCR

NOTES:

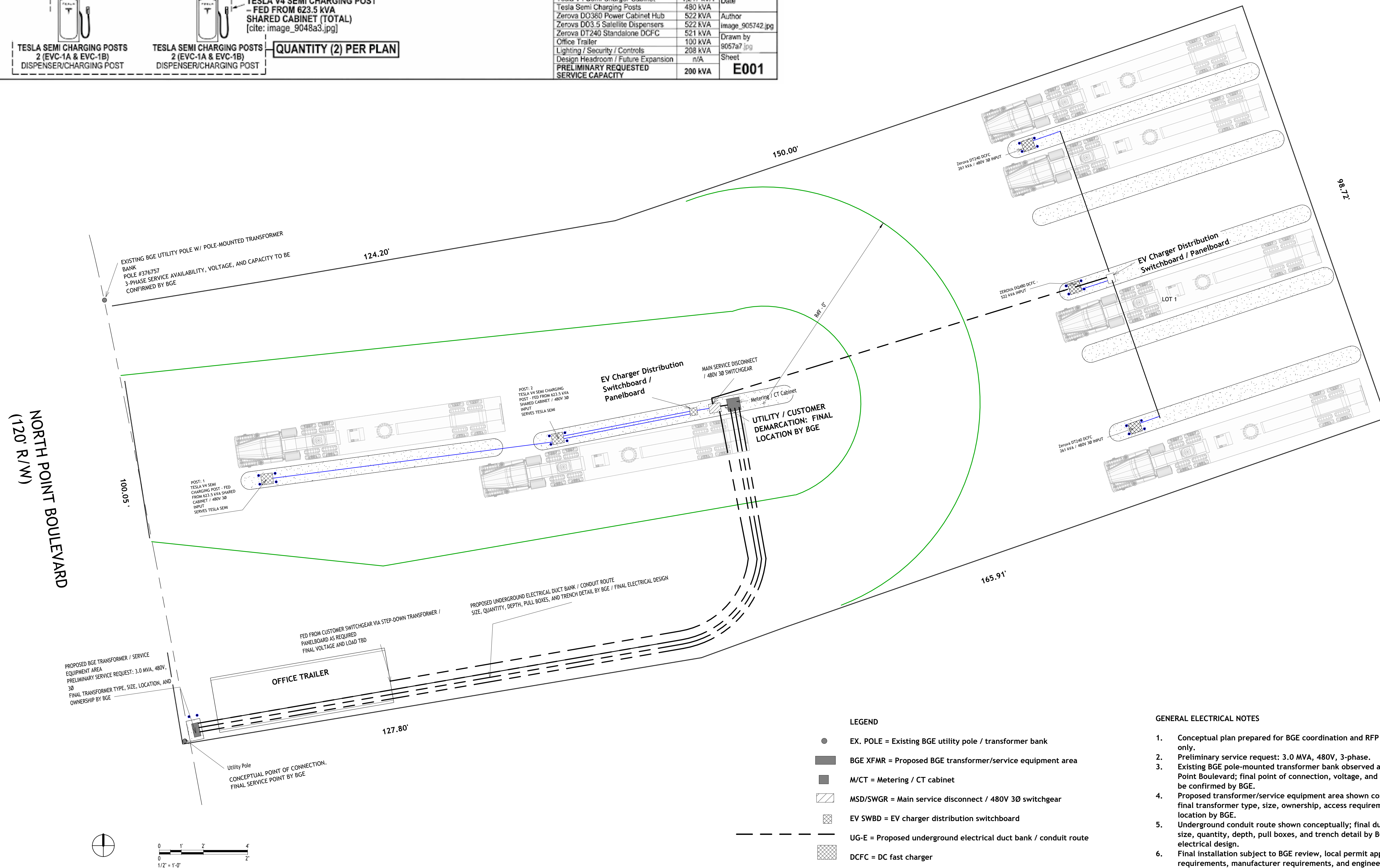
1. ERHMATED STOWY SERVICE BGE TRANSFORMER AND ROW URINARY IPINIT BOATI BY CK OVER [cite: image_905183.jpg]
2. PROPOSED PAD-MOUNTED BY CHARDISTWAVE RATING [cite: image_905742.jpg]
3. TESLA LINE DORIEK BWVWVZSE FPOSTS HED PES FROM FOX ENOTACRONOT LOARGING DEAY. [cite: image_905747.jpg]
4. ONE-LINE DIAGRAM REFLECTS CONCEPTUAL SERVICE FLOW SEQUENCE ONLY. REFER TO THE SITE LOAD TABLE FOR ALL DETAILED HARDWARE IDENTIFIERS, QUANTITIES, AND KVA RATINGS [cite: image_905742.jpg]. GRAND TOTAL INTERESTED SERVICE CAPACITY REGULATED UNDER THE 2,500 KVA UTILITY PAD-MOUNT TRANSFORMER CEILING [cite: image_850183.jpg, image_905742.jpg].

CONCEPTUAL BGE SERVICE COORDINATION PLAN - NORTH POINT BLVD. EV CHARGING SITE

Draws dreen Load Table tom image_905742.jpg, image_905742/, and image_905747.jpg

Load Table	KVA	Project Number
Tesla V4 Semi Charger Cabinet	1,247 kVA	Date
Tesla Semi Charging Posts	480 kVA	Author
Zeroxa D0360 Power Cabinet Hub	522 kVA	image_905742.jpg
Zeroxa D03.5 Satellite Dispensers	521 kVA	Drawn by
Zeroxa DT240 Standalone DCFC	100 kVA	905747.jpg
Office Trailer	208 kVA	Sheet
Lighting / Security / Controls	108 kVA	
Design Headroom / Future Expansion	n/A	
PRELIMINARY REQUESTED SERVICE CAPACITY	200 kVA	E001

1. PRELIMINARY REQUESTED SERVICE CAPACITY MAX CEILING: 2,500 kVA (2.5 MVA) at 480V, 3-PHASE.
2. TOTAL LOAD DESIGNED TO UTILIZE STANDARD UTILITY PAD-MOUNTED TRANSFORMATION IN ACCORDANCE WITH BGE COMMERCIAL COMPLIANCE GUIDELINES.
3. EV CHARGER CONFIGURATION PROVIDES 7 TOTAL PLUG INTERCONNECTIONS ACROSS 5 CABINET LOCATIONS TO SERVE 10 FLEET TRUCK STALLS.



Capital Logistics North Point Blvd. EV Charging Site	
Conceptual BGE Site Plan	
Project Number	Project Number
Date	5/27/26
Drawn By	Author
E001	
Scale	As indicated