



**ADDITIONAL VISUAL INFORMATION RELATED TO
MICROCELL AMENDMENTS**

- I. NORTEL COMPACT METRO CELL OUTDOOR
CABINET INFORMATION**
- II. PHOTOS OF UTILITY AND LIGHT POLE
INSTALLATIONS IN OTHER JURISDICTIONS**
- III. PHOTOS OF EXISTING UTILITY BOXES IN
RAPID CITY**



Faulk & Foster

2680 Horizon Drive, Suite E
Grand Rapids, MI 49546

Ralph Wyngarden
Phone (616) 975-0923, ext. 115
Fax (616) 975-0920

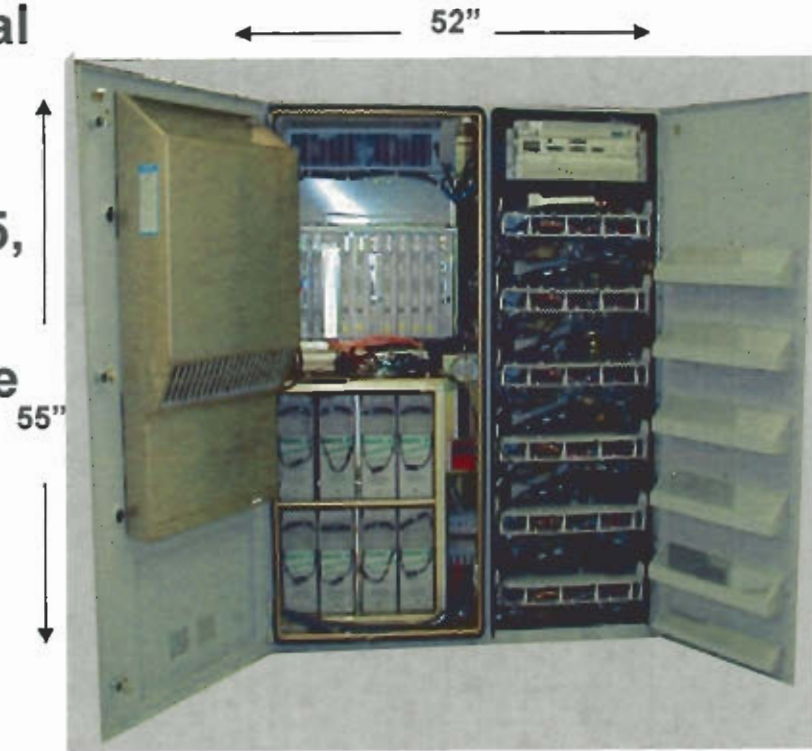
**I. NORTEL COMPACT METRO CELL OUTDOOR
CABINET INFORMATION**



CMO Overview

...CMO delivers substantially reduced footprint, reduced height and added network flexibility for our customers

- > **One Cabinet Solution for RF, Digital and Batteries**
- > **Complete investment protection with simultaneous support of IS-95, IX and 1X-EVDO**
- > **3U of free space to host microwave backhaul equipment or other customer electronics.**
- > **Supports remote radios**
- > **Under 50 ft³ volume**
- > **Supports 450 MHz, 800 MHz, 1900 MHz**





Product Specifications Summary

Compact Metro Cell Specifications

Dimensions	54.8"H x 52"W x 30"D / volume 49.7 ft ³	Rx Sensitivity	-127.5 dBm Typical
Weight	1000 lbs (3C3S), 2200 lbs max	Air Interface	IS95, 1xRTT, 1xEV-DO, DV (future)
Backhaul	18 T1/E1 twisted	Frequency	1900/800 @ launch; 450, 1900 G band (future)
Input Voltage	220 VAC		
Power Consumption	3C3S DC typical 1800W, max 3800 (6C3S)* AC typical 2773VA, max 5kVA (6C3S)		
Integrated Battery Backup	3C3S 1 string 4hrs, 2 strings 8 hrs 6C3S 2 strings 4 hrs Optional cabinet for additional backup as required		
Environmental	-40°C to 50°C Acoustic noise 60dBA @ 40°C		
Configurations	Omni/bi-sector/Tri-sector, Max 6 Carrier / 3 Sector (single cabinet) 12 Carrier / 3 Sector with 2 cabinets		
Output Power	~54 W (18W per carrier) @ 800MHz - parity ~35 W (12W per carrier) @ 1900MHz - parity		
Regulatory	EMC / EMI / Radio : CISPR & FCC Class B Safety : UL, CSA Environmental : Bellcore		
Duplexer	800MHz A & A", B & B', Full band 1900MHz band specific variants		



CMO – Compact Metro Cell Outdoor



Compact Metro Cell Outdoor

**II. PHOTOS OF UTILITY AND LIGHT POLE
INSTALLATIONS IN OTHER JURISDICTIONS**



At Utility Substation in California



On parking lot light in Glen Ellyn, IL



Utility Pole Installation in Palos Verdes Estates, San Diego, CA



**Modified Lightpole Installation in Reno, NV
Residential Neighborhood**



European Utility Pole Site



European Light Pole Site



Utility Pole Mount in Canada with Shelter behind fence in adjacent yard

**III. PHOTOS OF EXISTING UTILITY BOXES IN
RAPID CITY**



Located at 2733 West St. Patrick. Structure is 4' high, 1 ½' deep and 3 ½' wide.



Located on Meadowbrook Court.

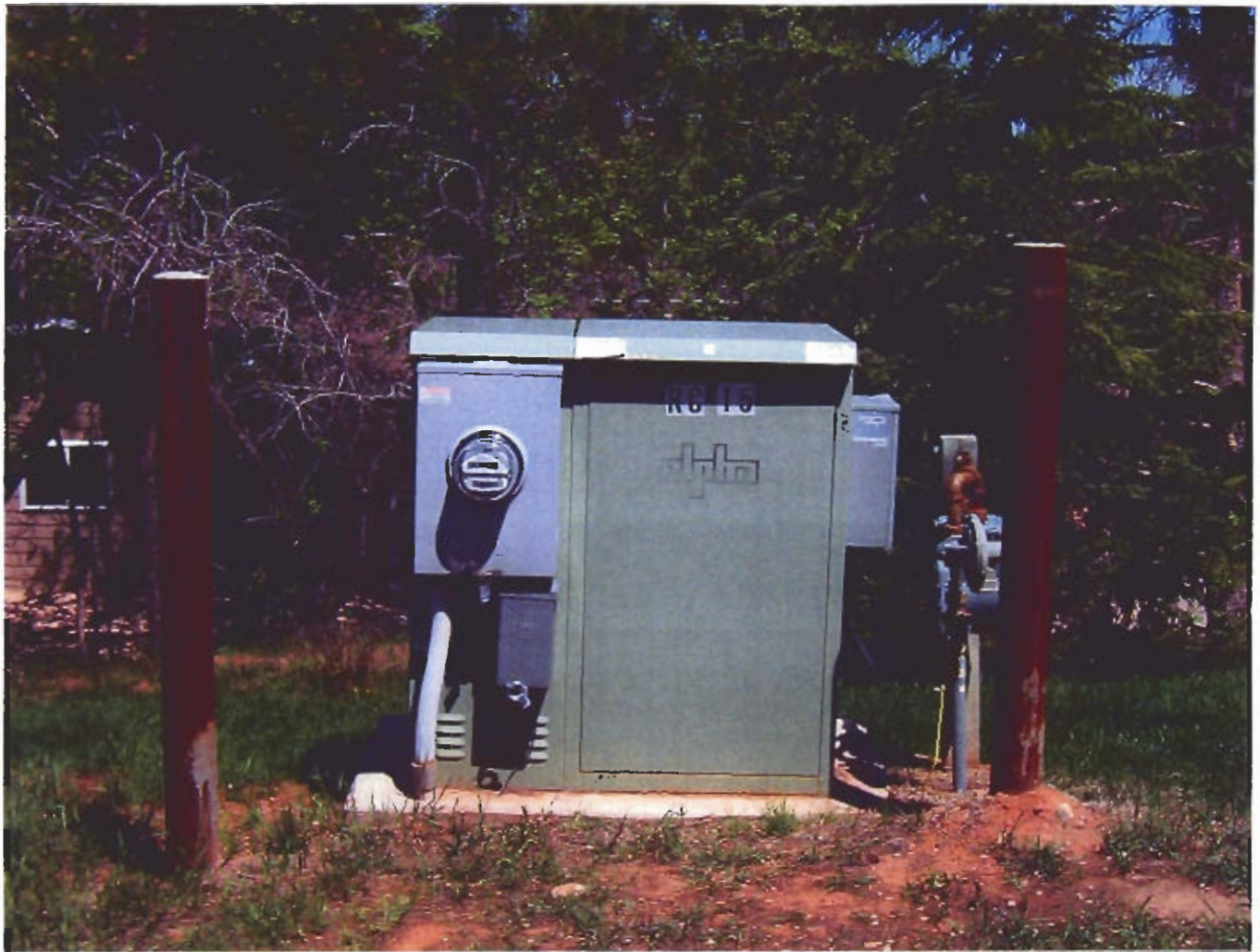


Located on Meadowbrook Drive.

05OA006, 05OA007, 05OA008, 05OA009



Units located across from the beginning of Player Drive.



Located towards the bottom of Morningview Drive.



Located in front of Creekside Offices, facing Jackson Boulevard



Located at 3804 Minnetonka. The largest structure is 5' high, 4'6" wide and 2' deep.



Outside of Apartments on the northeast part of town.



Pole located in the alley off of Adams, ½ block away from Food Bank.



Units located behind Youth and Family Services and to the east of Food Bank.