

# ATTACHMENT 2

# **NORTHEASTERN** **Communications Inc.**

7 Great Hill Road  
Naugatuck, Connecticut 06770

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June 5, 2014

Mr. Vincent Xavier  
Site Development Manager  
Homeland Towers LLC  
22 Shelter Rock Lane Building C  
Danbury, CT 06810

Dear Mr. Xavier

I am writing you on behalf of the Town of Cheshire, CT in regards to the Homeland Towers LLC tower site development at the Waste Water Treatment Plant on Cheshire Street. The Town is very much in support of the Homeland Towers LLC proposal to construct a 170' monopole tower at this location. This site currently supports the Town of Cheshire's public safety radio system with antennas mounted on a building. The proposed monopole will provide space at the top to install RF antennas as well as the capability to install Point to Point (PTP) backhaul communications equipment. The proposed tower will help to improve the town's radio system coverage and remove reliance on leased telephone circuits for connectivity at this site increasing public safety.

After close investigation we have determined that the tower would require a minimum height of 170' to support a 4.9 GHz line of sight point to point RF link back to Cheshire Police and Fire Headquarters for system backhaul connectivity. We have also run base line RF coverage propagation surveys that demonstrate RF coverage improvements from this site at two elevations on the tower: the 105' elevation provides noticeable improvement and the 170' elevation provides significant improvement on both the Police and Fire Department radio systems and also supports the needed height for the utilization of PTP connectivity. Please see the enclosed PTP backhaul survey and engineering documentation along with RF coverage propagation maps that show the improvements this site would provide to the towns public safety radio system.

Please feel free to contact me directly should you have any further questions.

Sincerely,

*Eric Fine*

Eric Fine  
Implementation Engineer/Project Manager

## **NORTHEASTERN** **Communications, Inc.**

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Naugatuck, CT 06770

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# Project Cheshire PD-FD 04-03-2014 EF

## PTP LINKPlanner Proposal Report

03 April 2014

Eric Fine

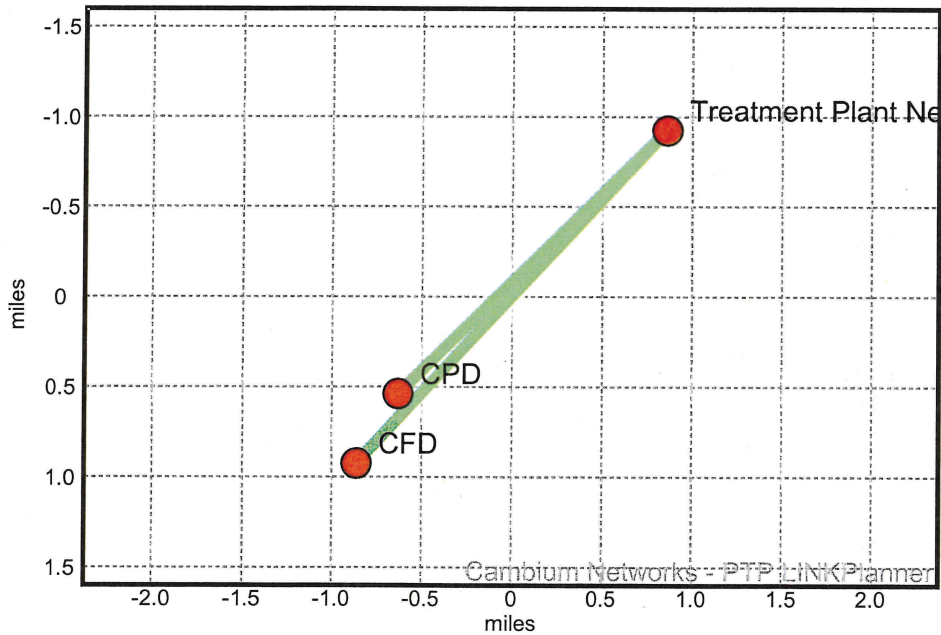
Organization: Northeastern Communications Inc

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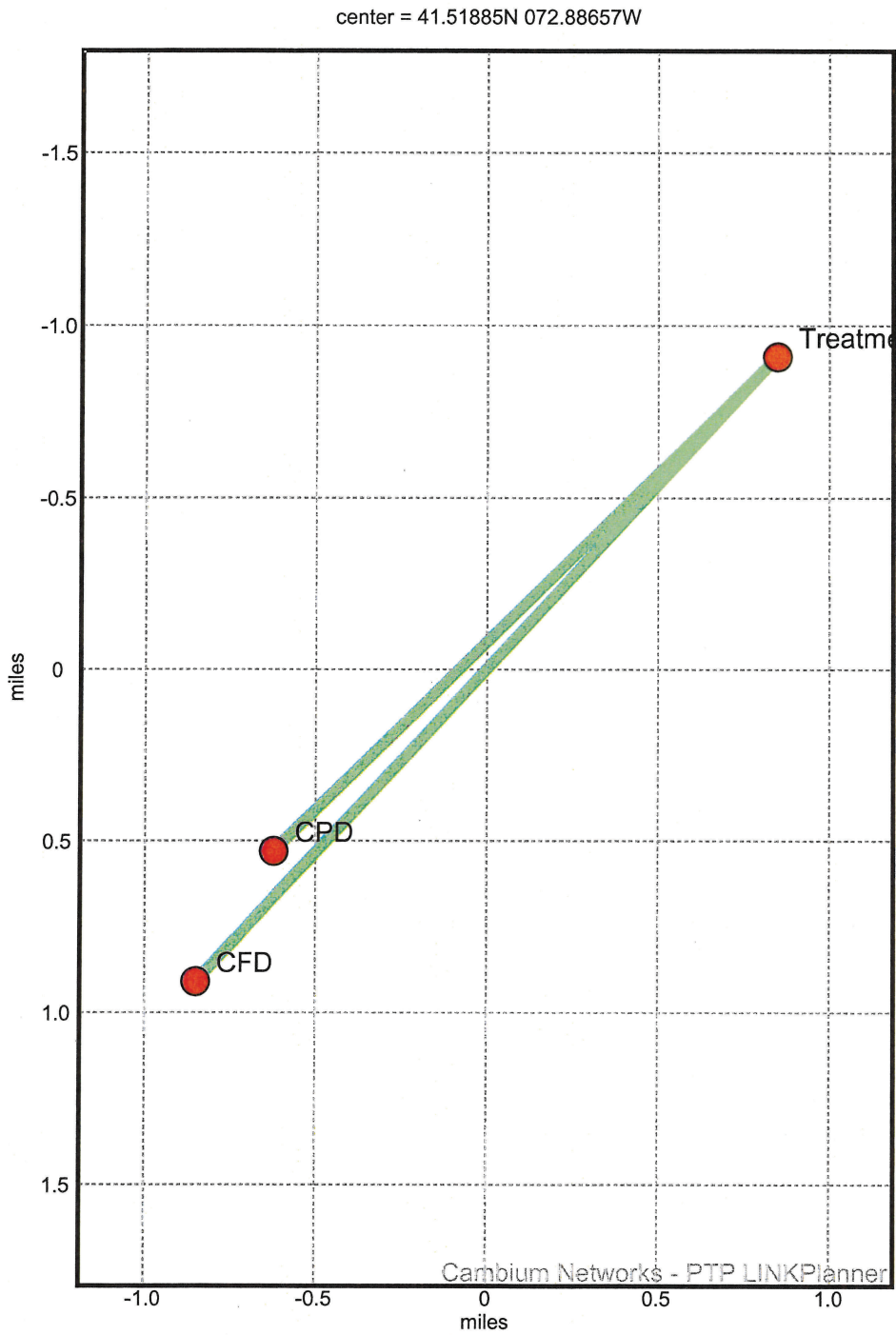


# 1. Project Summary

**Project:** Cheshire PD-FD 04-03-2014 EF  
**Description:** PTP Link Cheshire PD to new AT&T tower at Treatment Plant

General Information	
Customer Name	Cheshire PD/FD
Company Name	Northeastern Communications Inc
Address	7 Great Hill Road Naugatuck, CT 06770
Phone	203-568-6950
Cell Phone	
Email	efine@norcomct.net

Network Map



Link name	Product	Local antenna	Remote antenna	Max aggregate IP throughput (Mbps)
CPD to Treatment Plant New Tower	PTP49600	Radio Waves 2ft High Performance Dual-Polar Parabolic HPD2-4.7	Radio Waves 2ft High Performance Dual-Polar Parabolic HPD2-4.7	99.65
CFD to Treatment Plant New Tower	PTP49600	Radio Waves 2ft High Performance Dual-Polar Parabolic HPD2-4.7	Radio Waves 2ft High Performance Dual-Polar Parabolic HPD2-4.7	99.65

Part Number	Qty	Description
(no part number)	4	Radio Waves 2ft High Performance Dual-Polar Parabolic HPD2-4.7
WB2907	4	LPU End Kit PTP 600 (2 kits required per Link)
WB3176	4	328 ft (100 m) Reel Outdoor Copper Clad CAT5E (Recommended for PTP)
WB3226	2	PTP 49600 (5 MHz) Connectorised - Link Complete
WB3262	2	PTP 49600 Software Key 5 --> 10 MHz Link