

KENNETH C. BALDWIN

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ORIGINAL

EM-VER-108-070605

June 5, 2007

Via Hand Delivery

S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RECEIVED
JUN - 5 2007

CONNECTICUT
SITING COUNCIL

Re: **Notice of Exempt Modification
691 Oxford Road, Oxford, Connecticut**

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") intends to install antennas on the existing 150-foot self-supporting monopole tower owned by Crown Castle International ("Crown") at 691 Oxford Road in Oxford, Connecticut. Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, and pursuant to Siting Council directive a copy of this letter is being sent to Oxford First Selectman, August A. Palmer, III and to David G. & Donald J. Rich, the owners of the property on which the tower is located.

The Crown facility consists of a 150-foot self-supporting monopole tower capable of supporting multiple carriers within a fenced compound at 691 Oxford Road in Oxford. The tower is currently shared by Cingular at the 137-foot level on the tower. Cellco intends to install twelve (12) panel-type antennas at the 147-foot level on the tower and place a 12' x 30' equipment shelter at the base of the tower within the fenced compound. Attached behind Tab 1 are Project Plans for the proposed Cellco facility.

The planned modifications to the Oxford facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modification will not increase the overall height of the existing tower. Cellco's antennas will be mounted with their centerline at the 147-



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ROBINSON & COLE^{LLP}

S. Derek Phelps
June 5, 2007
Page 2

foot level on the 150-foot tower. The top of Cellco's antennas will not extend above the top of the tower.

2. The proposed installation of a 12' x 30' equipment shelter will not require an extension of the fenced compound or lease area.
3. The proposed installation will not increase the noise levels at the facility by six decibels or more.
4. The operation of the antennas will not increase radio frequency (RF) power density levels at the facility to a level at or above the Federal Communications Commission (FCC) adopted safety standard. The cumulative worst-case RF power density calculations for Cingular and Cellco antennas would be 12.85% of the FCC standard. A copy of cumulative power density calculations table is attached behind Tab 2.

Also attached, behind Tab 3, is a Structural Analysis Report confirming that the existing tower can support the existing and proposed antennas and associated equipment.

For the foregoing reasons, Cellco respectfully submits that the proposed antenna installation at the facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Kenneth C. Baldwin

Attachments
Copy to:

August A. Palmer, III, Oxford First Selectman
David G. & Donald J. Rich, Property Owners
Sandy M. Carter



Cellco Partnership

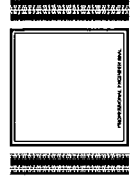
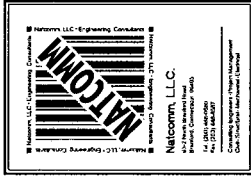
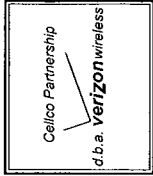


d.b.a. **verizon** wireless

WIRELESS COMMUNICATIONS FACILITY

OXFORD NORTH
691 OXFORD ROAD
OXFORD, CT 06478

REVISIONS	
100	05/09/07 CT SITING COUNCIL REVIEW
01	05/09/07 CT SITING COUNCIL



OXFORD NORTH

691 OXFORD ROAD
OXFORD, CT 06478

PROJECT NO: 907C
DRAWN BY: DMD
CHECKED BY: CFC
SCALE: AS NOTED
DATE: 05/09/07

TITLE SHEET

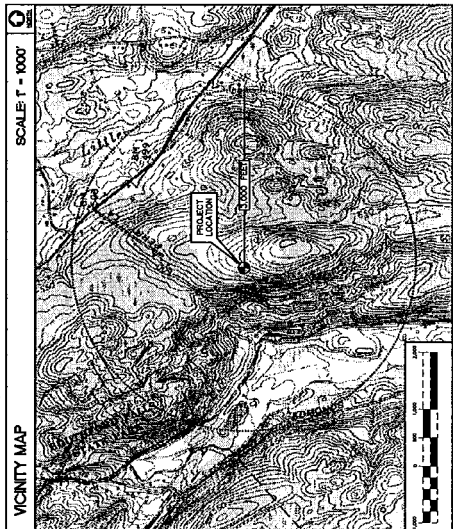
T-1
DWG. 1 OF 2

SHEET NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	01
C-1	COMPOUND PLAN AND ELEVATION	01

GENERAL NOTES
1. PROPOSED ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY VERIZON.
UNLESS NOTED OTHERWISE.

PROJECT SCOPE
1. THE PROPOSED SCOPE OF WORK GENERALLY INCLUDES THE DESIGN AND CONSTRUCTION OF A CONCRETE FOUNDATION FOR TWO (2) CELLULAR ANTENNAS AND THE INSTALLATION OF TWO (2) 150 FT. TALL MONOPOLE TOWERS AT A 90 DEG CENTER TO THE VERIZON EQUIPMENT SHEDS FROM AN EXISTING UTILITY MONOPOLE LOCATED ADJACENT TO THE PROPOSED FOUNDATION.

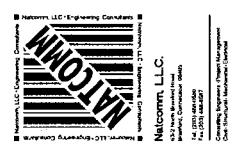
SITE DIRECTIONS		
FROM: 89 EAST RIVER DRIVE EAST HARTFORD, CONNECTICUT	TO: SITE ACCESS OFF AT 45 PERRY LANE OXFORD, CONNECTICUT	
-LEAVE ON RD 1-44 W/ US-48 W. THROUGH SOUTHFORD.		3.72 M.
-TURN LEFT ON/OFF STATION TOWN ROAD/CT-180.		2.2 M.
-TURN LEFT ON/OFF SOUTHFORD RD/CT-180/CT-47. CONTINUE TO FOLLOW CT-47.		2.2 M.
-TURN LEFT ON/OFF SOUTHFORD RD/CT-180/CT-47.		1.0 M.
-SITE ACCESS IS AT END OF "OUL-BE-SAC ON LEFT SIDE.		0.1 M.



PROJECT SUMMARY	
SITE NAME:	OXFORD NORTH
SITE ADDRESS:	691 OXFORD ROAD OXFORD, CT 06478
SITE LOCATION:	LATITUDE 41°-28'-44.2" LONGITUDE 73°-09'-43.3" ELEVATION 150 FT. ON CSD WEB LOC LAST UPDATED 05/07/07
SITE OWNER:	GLOBAL SIGNAL, INC.
LESSEE/TENANT:	CELCO PARTNERSHIP d.b.a. VERIZON WIRELESS EAST HARTFORD, CT 06108
CONTACT PERSON:	SANDY CARTER CELLCO PARTNERSHIP (860) 363-3211

REVISIONS	
00	DRAWING CTD BY: COUNCIL, REVISED
01	REVISED CTD BY: COUNCIL

Celco Partnership
d.b.a. Verizon wireless



NATCOM
NATIONAL TELECOMMUNICATIONS CORPORATION
11000 North Central Expressway
Dallas, Texas 75243
Tel: (972) 440-4000
Fax: (972) 440-4001
www.natcom.com

Netcom, L.L.C.
1325 North Central Expressway
Dallas, Texas 75243
Tel: (972) 440-4000
Fax: (972) 440-4001
www.netcom.com

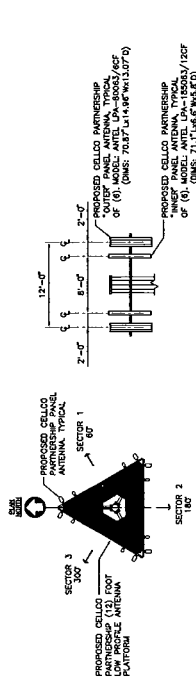


OXFORD NORTH
681 OXFORD ROAD
OXFORD, CT 06478

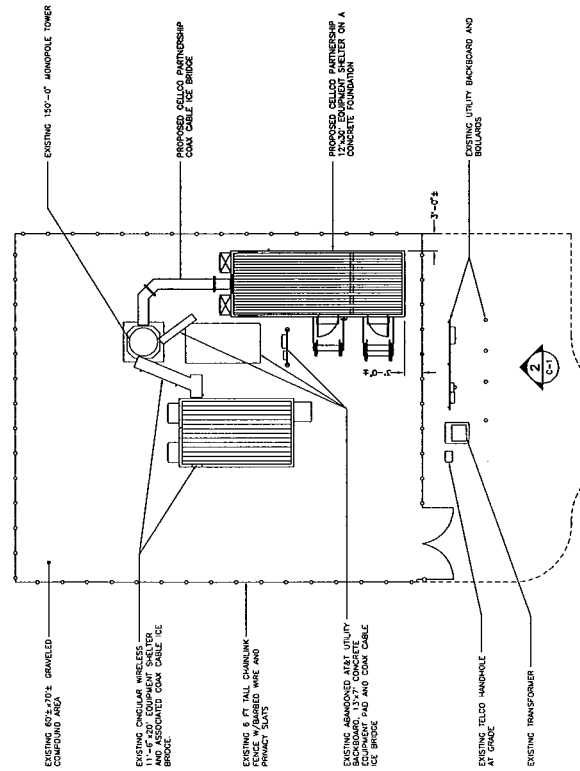
PROJECT NO: 907C
DRAWN BY: DMG
CHECKED BY: CFC
SCALE: AS NOTED
DATE: 05/09/07

COMPOUND PLAN AND ELEVATION

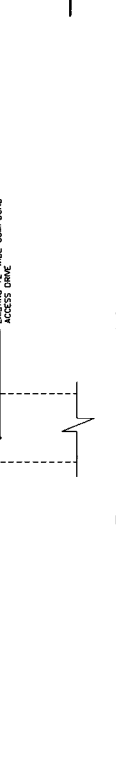
C-1
DWG. 2 OF 2



3 ANTENNA MOUNTING CONFIGURATION
SCALE: 1" = 10'-0"

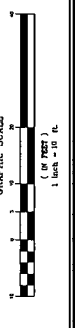


2 COMPOUND AND TOWER ELEVATION
SCALE: 1" = 10'-0"

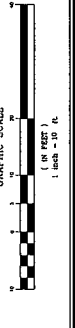


1 COMPOUND PLAN
SCALE: 1" = 10'-0"

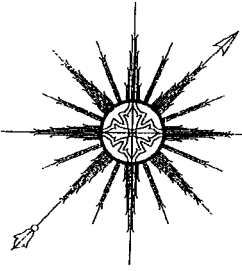
2 COMPOUND AND TOWER ELEVATION
SCALE: 1" = 10'-0"



1 COMPOUND PLAN
SCALE: 1" = 10'-0"



Site Name: Oxford N	General		Power	Density		
Tower Height: Verizon @ 147Ft.	ERP		S (mW/cm ²)	f (MHz)	Smax	
	channels	watt/ch	distance (feet)		Percent MPE	
Carrier						
Cingular*	2	296	137	880	0.5867	
Cingular*	2	427	137	1930	1.0000	
Verizon	9	285	147	880	0.5867	
Verizon	3	400	147	1900	1.0000	
*Source: Siting Council Records					Total %MPE	12.85



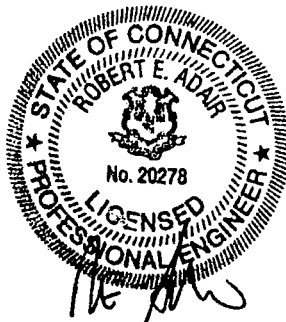
ALL-POINTS TECHNOLOGY CORPORATION, P.C.

**STRUCTURAL ANALYSIS REPORT
150' MONOPOLE TOWER
OXFORD, CONNECTICUT**

Prepared for
Natcomm, LLC

Site: Oxford

May 31, 2007



APT Project #CT232141

**STRUCTURAL ANALYSIS REPORT
150' MONOPOLE TOWER
OXFORD, CONNECTICUT
prepared for
Natcomm, LLC**

EXECUTIVE SUMMARY:

All-Points Technology Corporation, P.C. (APT) performed a structural analysis of this 150-foot monopole tower located in Oxford, Connecticut. The analysis was performed for two loading cases as detailed herein.

Our analysis indicates the tower does not meet the requirements of TIA-222 and IBC 2003 under load case 1, but meets Code requirements under load case 2.

INTRODUCTION:

A structural analysis of this communications tower was performed by APT for Natcomm, LLC. The tower is located in Oxford, Connecticut. APT did not visit the tower site. This analysis relied solely on information provided by others, which included a design drawing by PennSummit Tubular, LLC and Paul J. Ford & Company, Job No. 29203-0272 dated August 28, 2003, and loading requirements provided by Natcomm, LLC.

The structure is a 150-foot, 18-sided, 4-section tapered steel monopole manufactured by PennSummit Tubular, LLC. According to the design drawing provided, the tower was originally designed for one 6-panel array and five 9-panel arrays.

STRUCTURAL ANALYSIS:

Methodology:

The structural analysis was done in accordance with TIA/EIA-222, Revisions F and G (TIA), Structural Standards for Steel Antenna Towers and Antenna Supporting Structures; and the American Institute of Steel Construction (AISC), Manual of Steel Construction, Allowable Stress Design, Ninth Edition. The more stringent of the two TIA revisions, Revision F, was used to compute the tower capacity values shown below.

The analysis was conducted using a 85 mph fastest mile wind speed (equivalent to 105 mph 3-second gust) and one-half inch of radial ice over the structure and associated appurtenances.

All-Points Technology Corporation

150 Old Westside Road
North Conway, NH 03860
(603) 496-5853

3 Saddlebrook Drive
Killingworth, CT 06419
(860) 663-1697

The TIA Standard requires a basic wind speed of 85 miles per hour for New Haven County, Connecticut.

Two loading conditions were evaluated in accordance with TIA/EIA-222-F to determine tower capacity. The more demanding of the two conditions is used to calculate tower capacity:

- Condition 1 = Wind Load (without ice) + Tower Dead Load
- Condition 2 = 0.75 Wind Load (with ice) + Ice Load + Tower Dead Load

The TIA/EIA standard permits a one-third increase in allowable stresses for towers less than 700-feet tall. Allowable stresses of tower members were increased by one-third when computing the tower capacity values shown below.

Load Case 1:

Antenna inventory used for loading case 1 was as follows:

Antenna	Elev.	Mount	Coax.
(6) LPA-80063/6, (6) LPA-185063/12 panels	147'	12' low-profile platform	(12) 1-5/8"
(12) DUO4-8670, (6) TMAs, (3) combiners	137'	12' low-profile platform	(12) 1-5/8"
(12) 4' x 1' x 3" panels	127'	14' low-profile platform	(12) 1-5/8"
(12) 4' x 1' x 3" panels	117'	14' low-profile platform	(12) 1-5/8"
(12) 4' x 1' x 3" panels	107'	14' low-profile platform	(12) 1-5/8"
(12) 4' x 1' x 3" panels	97'	14' low-profile platform	(12) 1-5/8"

Load case 1 results:

Elevation	Capacity
112'-150'	69%
76'-112'	115%
40'-76'	123%
0'-40'	119%
Base plate	88%

Base reactions imposed under loading case 1 were calculated to be as follows:

Axial: 35.4 kips
 Total Shear: 28.3 kips
 Overturning Moment: 3147 ft-kips

The overturning moment reaction exceeds the PennSummit design reaction by approximately 14 percent. Axial reaction exceeds design reaction by approximately 26 percent.

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Load Case 2:

Antenna inventory for the loading case 2 was as follows:

Antenna	Elev.	Mount	Coax.
(6) LPA-80063/6, (6) LPA-185063/12 panels	147'	12' low-profile platform	(12) 1-5/8"
(12) DUO4-8670, (6) TMAs, (3) combiners	137'	12' low-profile platform	(12) 1-5/8"
(9) 4' x 1' x 3" panels	127'	14' low-profile platform	(9) 1-5/8"
(9) 4' x 1' x 3" panels	117'	14' low-profile platform	(9) 1-5/8"

Load case 2 results:

Elevation	Capacity
112'-150'	67%
76'-112'	97%
40'-76'	99%
0'-40'	95%
Base plate	70%

Base reactions imposed under loading case 2 were calculated to be as follows:

Axial:	29.2 kips
Total Shear:	22.7 kips
Overturning Moment:	2509 ft-kips

The axial reaction exceeds the PennSummit design reaction by approximately 4 percent, however overturning moment generally governs in design. The foundation is likely to be adequate under this load case.

CONCLUSIONS AND SUGGESTIONS:

As detailed above, our analysis indicates that the existing 150' monopole tower located in Oxford, Connecticut does not meet the requirements of TIA-222 and IBC 2003 under loading case 1, but meets Code requirements under loading case 2.

The foundation is likely to be adequate to support load case 2.

LIMITATIONS:

This report is based on the following:

All-Points Technology Corporation

150 Old Westside Road
 North Conway, NH 03860
 (603) 496-5853

3 Saddlebrook Drive
 Killingworth, CT 06419
 (860) 663-1697

1. Tower is properly installed and maintained.
2. All members are in new condition.
3. Tower is in plumb condition.

All-Points Technology Corporation, P.C. (APT) is not responsible for any modifications completed prior to or hereafter which APT is not or was not directly involved. Modifications include but are not limited to:

1. Adding or relocating antennas.
2. Installing antenna mounts or waveguide cables.
3. Extending tower.

APT hereby states that this document represents the entire report and that it assumes no liability for any factual changes that may occur after the date of this report. All representations, recommendations, and conclusions are based upon the information contained and set forth herein. If you are aware of any information which conflicts with that which is contained herein, or you are aware of any defects arising from original design, material, fabrication, or erection deficiencies, you should disregard this report and immediately contact APT. APT disclaims all liability for any representation, recommendation, or conclusion not expressly stated herein.

All-Points Technology Corporation

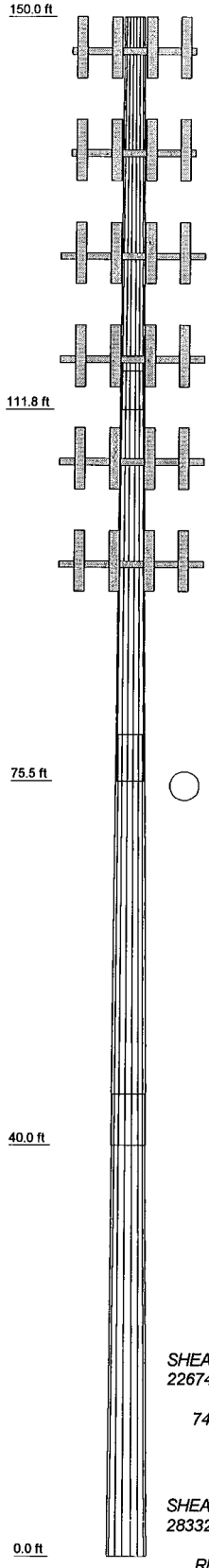
150 Old Westside Road
North Conway, NH 03860
(603) 496-5853

3 Saddlebrook Drive
Killingworth, CT 06419
(860) 663-1697

Appendix A

Tower Schematic

Section	1	2	3	4
Length (ft)	38.25	40.00	40.00	45.00
Number of Sides	18	18	18	18
Thickness (in)	0.1875	0.2500	0.3125	0.3750
Lap Splice (ft)	3.75	4.50	5.00	
Top Dia (in)	22.0000	27.6627	33.3765	38.8757
Bot Dia (in)	28.6940	34.6650	40.3757	46.7510
Grade		A607-65	A607-65	A607-65
Weight (lb)	1948.8	3338.7	4936.2	7734.7

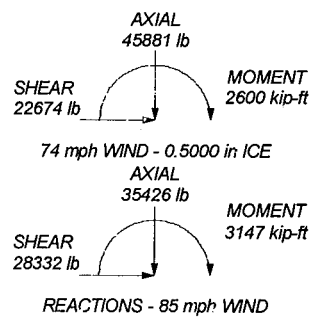


DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
(2) LPA-80063/6CF	147	(4) 4' x 1' x 3" panel	127
(2) LPA-80063/6CF	147	(4) 4' x 1' x 3" panel	127
(2) LPA-80063/6CF	147	(4) 4' x 1' x 3" panel	127
(2) LPA-185063/12CF	147	14' low-profile platform	127
(2) LPA-185063/12CF	147	(4) 4' x 1' x 3" panel	117
(2) LPA-185063/12CF	147	(4) 4' x 1' x 3" panel	117
12' low-profile platform	147	(4) 4' x 1' x 3" panel	117
(4) DU04-8670	137	14' low-profile platform	117
(4) DU04-8670	137	(4) 4' x 1' x 3" panel	107
(4) DU04-8670	137	(4) 4' x 1' x 3" panel	107
(2) 1900 TMA	137	(4) 4' x 1' x 3" panel	107
(2) 1900 TMA	137	14' low-profile platform	107
(2) 1900 TMA	137	(4) 4' x 1' x 3" panel	97
DBC-750 dual band combiner	137	(4) 4' x 1' x 3" panel	97
DBC-750 dual band combiner	137	(4) 4' x 1' x 3" panel	97
DBC-750 dual band combiner	137	14' low-profile platform	97
12' low-profile platform	137		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A607-65	65 ksi	80 ksi			

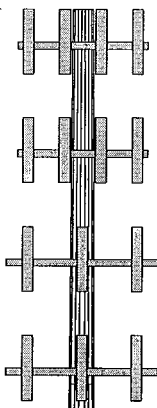


All-Points Technology Corp.
 150 Old Westside Road
 North Conway, NH 03860
 Phone: 603-496-5853
 FAX: 603-356-5214

Job: 150' Monopole Tower	Project: CT232140 Oxford; Loading 1
Client: Natcomm, LLC	Drawn by: Robert E. Adair, P.E.
Code: TIA/EIA-222-F	Date: 05/24/07
Path: <small>C:\Documents and Settings\Robert Adair\My Documents\232140\CT232140 Oxford\Load 1.rvt</small>	App'd: NTS
	Scale: NTS
	Dwg No. E-1

Section	4	3	2	1
Length (ft)	45.00	40.00	40.00	38.25
Number of Sides	18	18	18	18
Thickness (in)	0.3750	0.3125	0.2500	0.1875
Lap Splice (ft)	5.00	4.50	3.75	
Top Dia (in)	38.8757	33.3755	27.6627	22.0000
Bot Dia (in)	46.7510	40.3757	34.6630	28.6940
Grade		A607-65		
Weight (lb)	7734.7	4936.2	3338.7	1948.8

150.0 ft



111.8 ft

75.5 ft

40.0 ft

0.0 ft

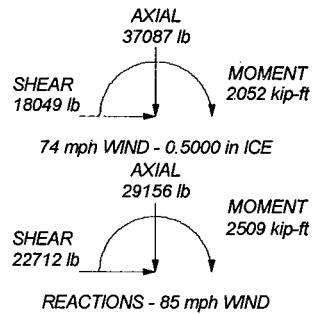


DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
(2) LPA-80063/6CF	147	DBC-750 dual band combiner	137
(2) LPA-80063/6CF	147	DBC-750 dual band combiner	137
(2) LPA-80063/6CF	147	DBC-750 dual band combiner	137
(2) LPA-185063/12CF	147	12' low-profile platform	137
(2) LPA-185063/12CF	147	(3) 4' x 1' x 3" panel	127
(2) LPA-185063/12CF	147	(3) 4' x 1' x 3" panel	127
12' low-profile platform	147	(3) 4' x 1' x 3" panel	127
(4) DU04-8670	137	14' low-profile platform	127
(4) DU04-8670	137	(3) 4' x 1' x 3" panel	117
(4) DU04-8670	137	(3) 4' x 1' x 3" panel	117
(2) 1900 TMA	137	(3) 4' x 1' x 3" panel	117
(2) 1900 TMA	137	14' low-profile platform	117
(2) 1900 TMA	137		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A607-65	65 ksi	80 ksi			



All-Points Technology Corp.			
150 Old Westside Road			
North Conway, NH 03860			
Phone: 603-496-5853			
FAX: 603-356-5214			
Job:	150' Monopole Tower		
Project:	CT232140 Oxford; Loading 2		
Client:	Natcomm, LLC	Drawn by:	Robert E. Adair, P.E.
Code:	TIA/EIA-222-F	Date:	05/29/07
Path:		Scale:	NTS
		Dwg No.:	E-1

Appendix B

Calculations

RISATower All-Points Technology Corp. 150 Old Westside Road North Conway, NH 03860 Phone: 603-496-5853 FAX: 603-356-5214	Job	150' Monopole Tower	Page	1 of 4
	Project	CT232140 Oxford	Date	16:39:05 05/24/07
	Client	Natcomm, LLC	Designed by	Robert E. Adair, P.E.

Tower Input Data – Loading 1

This tower is designed using the TIA/EIA-222-F standard.

The following design criteria apply:

- Basic wind speed of 85 mph.
- Nominal ice thickness of 0.5000 in.
- Ice density of 56 pcf.
- A wind speed of 74 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 50 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.333.
- Local bending stresses due to climbing loads, feedline supports, and appurtenance mounts are not considered.

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	150.00-111.75	38.25	3.75	18	22.0000	28.6940	0.1875	0.7500	A607-65 (65 ksi)
L2	111.75-75.50	40.00	4.50	18	27.6627	34.6630	0.2500	1.0000	A607-65 (65 ksi)
L3	75.50-40.00	40.00	5.00	18	33.3755	40.3757	0.3125	1.2500	A607-65 (65 ksi)
L4	40.00-0.00	45.00		18	38.8757	46.7510	0.3750	1.5000	A607-65 (65 ksi)

Monopole Base Plate Data

Base Plate Data	
Base plate is square	√
Anchor bolt grade	A615-75
Anchor bolt size	2.2500 in
Number of bolts	16
Embedment length	84.0000 in
f_c	4 ksi
Grout space	2.0000 in
Base plate grade	A572-55
Base plate thickness	2.7500 in
Bolt circle diameter	53.0000 in
Outer diameter	53.0000 in
Inner diameter	45.2500 in
Base plate type	Plain Plate

Feed Line/Linear Appurtenances – Loading 1

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number		C_{AA} ft ² /ft	Weight plf
1 5/8	A	No	Inside Pole	147.00 - 6.00	12	No Ice	0.00	1.04
						1/2" Ice	0.00	1.04
1 5/8	A	No	Inside Pole	137.00 - 6.00	12	No Ice	0.00	1.04
						1/2" Ice	0.00	1.04

RISA Tower All-Points Technology Corp. 150 Old Westside Road North Conway, NH 03860 Phone: 603-496-5853 FAX: 603-356-5214	Job	150' Monopole Tower	Page	2 of 4
	Project	CT232140 Oxford	Date	16:39:05 05/24/07
	Client	Natcomm, LLC	Designed by	Robert E. Adair, P.E.

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number		C _{AA} ft ² /ft	Weight plf
1 5/8	A	No	Inside Pole	127.00 - 6.00	12	No Ice	0.00	1.04
						1/2" Ice	0.00	1.04
1 5/8	A	No	Inside Pole	117.00 - 6.00	12	No Ice	0.00	1.04
						1/2" Ice	0.00	1.04
1 5/8	A	No	Inside Pole	107.00 - 6.00	12	No Ice	0.00	1.04
						1/2" Ice	0.00	1.04
1 5/8	A	No	Inside Pole	97.00 - 6.00	12	No Ice	0.00	1.04
						1/2" Ice	0.00	1.04

Discrete Tower Loads – Loading 1

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb
(2) LPA-80063/6CF	A	From Face	4.00 0.00 0.00	0.0000	147.00	No Ice	10.34	9.03	30.00
						1/2" Ice	10.90	9.58	104.17
(2) LPA-80063/6CF	B	From Face	4.00 0.00 0.00	0.0000	147.00	No Ice	10.34	9.03	30.00
						1/2" Ice	10.90	9.58	104.17
(2) LPA-80063/6CF	C	From Face	4.00 0.00 0.00	0.0000	147.00	No Ice	10.34	9.03	30.00
						1/2" Ice	10.90	9.58	104.17
(2) LPA-185063/12CF	A	From Face	4.00 0.00 0.00	0.0000	147.00	No Ice	4.97	4.51	15.00
						1/2" Ice	5.42	4.95	47.55
(2) LPA-185063/12CF	B	From Face	4.00 0.00 0.00	0.0000	147.00	No Ice	4.97	4.51	15.00
						1/2" Ice	5.42	4.95	47.55
(2) LPA-185063/12CF	C	From Face	4.00 0.00 0.00	0.0000	147.00	No Ice	4.97	4.51	15.00
						1/2" Ice	5.42	4.95	47.55
12' low-profile platform	C	None		0.0000	147.00	No Ice	8.40	7.27	1000.00
						1/2" Ice	9.38	8.13	1643.12
(4) DU04-8670	A	From Face	4.00 0.00 0.00	0.0000	137.00	No Ice	6.53	4.20	31.40
						1/2" Ice	6.94	4.57	73.59
(4) DU04-8670	B	From Face	4.00 0.00 0.00	0.0000	137.00	No Ice	6.53	4.20	31.40
						1/2" Ice	6.94	4.57	73.59
(4) DU04-8670	C	From Face	4.00 0.00 0.00	0.0000	137.00	No Ice	6.53	4.20	31.40
						1/2" Ice	6.94	4.57	73.59
(2) 1900 TMA	A	From Face	4.00 0.00 0.00	0.0000	137.00	No Ice	1.29	0.31	15.00
						1/2" Ice	1.44	0.41	22.20
(2) 1900 TMA	B	From Face	4.00 0.00 0.00	0.0000	137.00	No Ice	1.29	0.31	15.00
						1/2" Ice	1.44	0.41	22.20
(2) 1900 TMA	C	From Face	4.00 0.00 0.00	0.0000	137.00	No Ice	1.29	0.31	15.00
						1/2" Ice	1.44	0.41	22.20
DBC-750 dual band combiner	A	From Face	4.00 0.00 0.00	0.0000	137.00	No Ice	0.73	0.44	15.00
						1/2" Ice	0.86	0.55	20.32
DBC-750 dual band combiner	B	From Face	4.00 0.00 0.00	0.0000	137.00	No Ice	0.73	0.44	15.00
						1/2" Ice	0.86	0.55	20.32

RISATower All-Points Technology Corp. 150 Old Westside Road North Conway, NH 03860 Phone: 603-496-5853 FAX: 603-356-5214	Job	150' Monopole Tower	Page	3 of 4
	Project	CT232140 Oxford	Date	16:39:05 05/24/07
	Client	Natcomm, LLC	Designed by	Robert E. Adair, P.E.

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA}		Weight
			Horz Lateral Vert				Front	Side	
			ft	°	ft		ft ²	ft ²	lb
DBC-750 dual band combiner	C	From Face	0.00	0.0000	137.00	No Ice	0.73	0.44	15.00
			4.00			1/2" Ice	0.86	0.55	20.32
			0.00						
12' low-profile platform	C	None		0.0000	137.00	No Ice	8.40	7.27	1000.00
(4) 4' x 1' x 3" panel	A	From Face	4.00	0.0000	127.00	No Ice	9.38	8.13	1643.12
			0.00			1/2" Ice	5.60	1.70	25.00
			0.00			1/2" Ice	5.99	1.99	51.57
(4) 4' x 1' x 3" panel	B	From Face	4.00	0.0000	127.00	No Ice	5.60	1.70	25.00
			0.00			1/2" Ice	5.99	1.99	51.57
			0.00						
(4) 4' x 1' x 3" panel	C	From Face	4.00	0.0000	127.00	No Ice	5.60	1.70	25.00
			0.00			1/2" Ice	5.99	1.99	51.57
			0.00						
14' low-profile platform	C	None		0.0000	127.00	No Ice	9.80	8.49	1200.00
(4) 4' x 1' x 3" panel	A	From Face	4.00	0.0000	117.00	1/2" Ice	10.93	9.47	2063.51
			0.00			No Ice	5.60	1.70	25.00
			0.00			1/2" Ice	5.99	1.99	51.57
(4) 4' x 1' x 3" panel	B	From Face	4.00	0.0000	117.00	No Ice	5.60	1.70	25.00
			0.00			1/2" Ice	5.99	1.99	51.57
			0.00						
(4) 4' x 1' x 3" panel	C	From Face	4.00	0.0000	117.00	No Ice	5.60	1.70	25.00
			0.00			1/2" Ice	5.99	1.99	51.57
			0.00						
14' low-profile platform	C	None		0.0000	117.00	No Ice	9.80	8.49	1200.00
(4) 4' x 1' x 3" panel	A	From Face	4.00	0.0000	107.00	1/2" Ice	10.93	9.47	2063.51
			0.00			No Ice	5.60	1.70	25.00
			0.00			1/2" Ice	5.99	1.99	51.57
(4) 4' x 1' x 3" panel	B	From Face	4.00	0.0000	107.00	No Ice	5.60	1.70	25.00
			0.00			1/2" Ice	5.99	1.99	51.57
			0.00						
(4) 4' x 1' x 3" panel	C	From Face	4.00	0.0000	107.00	No Ice	5.60	1.70	25.00
			0.00			1/2" Ice	5.99	1.99	51.57
			0.00						
14' low-profile platform	C	None		0.0000	107.00	No Ice	9.80	8.49	1200.00
(4) 4' x 1' x 3" panel	A	From Face	4.00	0.0000	97.00	1/2" Ice	10.93	9.47	2063.51
			0.00			No Ice	5.60	1.70	25.00
			0.00			1/2" Ice	5.99	1.99	51.57
(4) 4' x 1' x 3" panel	B	From Face	4.00	0.0000	97.00	No Ice	5.60	1.70	25.00
			0.00			1/2" Ice	5.99	1.99	51.57
			0.00						
(4) 4' x 1' x 3" panel	C	From Face	4.00	0.0000	97.00	No Ice	5.60	1.70	25.00
			0.00			1/2" Ice	5.99	1.99	51.57
			0.00						
14' low-profile platform	C	None		0.0000	97.00	No Ice	9.80	8.49	1200.00
						1/2" Ice	10.93	9.47	2063.51

RISATower All-Points Technology Corp. 150 Old Westside Road North Conway, NH 03860 Phone: 603-496-5853 FAX: 603-356-5214	Job 150' Monopole Tower	Page 4 of 4
	Project CT232140 Oxford	Date 16:39:05 05/24/07
	Client Natcomm, LLC	Designed by Robert E. Adair, P.E.

Solution Summary

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 111.75	142.517	4	7.9206	0.0000
L2	115.5 - 75.5	87.212	4	7.0984	0.0000
L3	80 - 40	41.418	4	4.9659	0.0000
L4	45 - 0	12.957	4	2.6476	0.0000

Section Capacity Table – Loading 1

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	SF*P _{allow} lb	% Capacity	Pass Fail	
L1	150 - 111.75	Pole	TP28.694x22x0.1875	1	-6458.76	99537.64	68.6	Pass	
L2	111.75 - 75.5	Pole	TP34.663x27.6627x0.25	2	-14796.40	233584.25	114.8	Fail X	
L3	75.5 - 40	Pole	TP40.3757x33.3755x0.3125	3	-22892.60	462184.41	122.7	Fail X	
L4	40 - 0	Pole	TP46.751x38.8757x0.375	4	-35394.80	919200.77	118.9	Fail X	
							Summary		
							Pole (L3)	122.7	Fail X
							Base Plate	87.9	Pass
							RATING =	122.7	Fail X

RISATower All-Points Technology Corp. 150 Old Westside Road North Conway, NH 03860 Phone: 603-496-5853 FAX: 603-356-5214	Job	150' Monopole Tower	Page	1 of 2
	Project	CT232140 Oxford; Loading 2	Date	10:25:09 05/29/07
	Client	Natcomm, LLC	Designed by	Robert E. Adair, P.E.

Feed Line/Linear Appurtenances – Loading 2

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number		C _{AA}		Weight plf
							ft ² /ft	plf	
1 5/8	A	No	Inside Pole	147.00 - 6.00	12	No Ice	0.00	1.04	
						1/2" Ice	0.00	1.04	
1 5/8	A	No	Inside Pole	137.00 - 6.00	12	No Ice	0.00	1.04	
						1/2" Ice	0.00	1.04	
1 5/8	A	No	Inside Pole	127.00 - 6.00	9	No Ice	0.00	1.04	
						1/2" Ice	0.00	1.04	
1 5/8	A	No	Inside Pole	117.00 - 6.00	9	No Ice	0.00	1.04	
						1/2" Ice	0.00	1.04	

Discrete Tower Loads – Loading 2

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment °	Placement ft	C _{AA}		Weight lb
			Horz Lateral ft	Vert ft			Front ft ²	Side ft ²	
(2) LPA-80063/6CF	A	From Face	4.00	0.0000	147.00	No Ice	10.34	9.03	30.00
						1/2" Ice	10.90	9.58	104.17
						0.00			
(2) LPA-80063/6CF	B	From Face	4.00	0.0000	147.00	No Ice	10.34	9.03	30.00
						1/2" Ice	10.90	9.58	104.17
						0.00			
(2) LPA-80063/6CF	C	From Face	4.00	0.0000	147.00	No Ice	10.34	9.03	30.00
						1/2" Ice	10.90	9.58	104.17
						0.00			
(2) LPA-185063/12CF	A	From Face	4.00	0.0000	147.00	No Ice	4.97	4.51	15.00
						1/2" Ice	5.42	4.95	47.55
						0.00			
(2) LPA-185063/12CF	B	From Face	4.00	0.0000	147.00	No Ice	4.97	4.51	15.00
						1/2" Ice	5.42	4.95	47.55
						0.00			
(2) LPA-185063/12CF	C	From Face	4.00	0.0000	147.00	No Ice	4.97	4.51	15.00
						1/2" Ice	5.42	4.95	47.55
						0.00			
12' low-profile platform	C	None		0.0000	147.00	No Ice	8.40	7.27	1000.00
(4) DU04-8670	A	From Face	4.00	0.0000	137.00	1/2" Ice	9.38	8.13	1643.12
						No Ice	6.53	4.20	31.40
						1/2" Ice	6.94	4.57	73.59
(4) DU04-8670	B	From Face	4.00	0.0000	137.00	No Ice	6.53	4.20	31.40
						1/2" Ice	6.94	4.57	73.59
						0.00			
(4) DU04-8670	C	From Face	4.00	0.0000	137.00	No Ice	6.53	4.20	31.40
						1/2" Ice	6.94	4.57	73.59
						0.00			
(2) 1900 TMA	A	From Face	4.00	0.0000	137.00	No Ice	1.29	0.31	15.00
						1/2" Ice	1.44	0.41	22.20
						0.00			
(2) 1900 TMA	B	From Face	4.00	0.0000	137.00	No Ice	1.29	0.31	15.00
						1/2" Ice	1.44	0.41	22.20
						0.00			
(2) 1900 TMA	C	From Face	4.00	0.0000	137.00	No Ice	1.29	0.31	15.00
						1/2" Ice	1.44	0.41	22.20
						0.00			
DBC-750 dual band combiner	A	From Face	4.00	0.0000	137.00	No Ice	0.73	0.44	15.00
						1/2" Ice	0.86	0.55	20.32

RISATower All-Points Technology Corp. 150 Old Westside Road North Conway, NH 03860 Phone: 603-496-5853 FAX: 603-356-5214	Job 150' Monopole Tower	Page 2 of 2
	Project CT232140 Oxford; Loading 2	Date 10:25:09 05/29/07
	Client Natcomm, LLC	Designed by Robert E. Adair, P.E.

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb	
			Horz Lateral ft	Vert ft						
DBC-750 dual band combiner	B	From Face		0.00	0.0000	137.00	No Ice	0.73	0.44	15.00
				4.00			1/2" Ice	0.86	0.55	20.32
				0.00						
DBC-750 dual band combiner	C	From Face		0.00	0.0000	137.00	No Ice	0.73	0.44	15.00
				4.00			1/2" Ice	0.86	0.55	20.32
				0.00						
12' low-profile platform	C	None			0.0000	137.00	No Ice	8.40	7.27	1000.00
(3) 4' x 1' x 3" panel	A	From Face	4.00	0.0000	127.00	No Ice	9.38	8.13	1643.12	
			0.00			1/2" Ice	5.60	1.70	25.00	
			0.00			1/2" Ice	5.99	1.99	51.57	
(3) 4' x 1' x 3" panel	B	From Face	4.00	0.0000	127.00	No Ice	5.60	1.70	25.00	
			0.00			1/2" Ice	5.99	1.99	51.57	
			0.00							
(3) 4' x 1' x 3" panel	C	From Face	4.00	0.0000	127.00	No Ice	5.60	1.70	25.00	
			0.00			1/2" Ice	5.99	1.99	51.57	
			0.00							
14' low-profile platform	C	None			0.0000	127.00	No Ice	9.80	8.49	1200.00
(3) 4' x 1' x 3" panel	A	From Face	4.00	0.0000	117.00	No Ice	10.93	9.47	2063.51	
			0.00			1/2" Ice	5.60	1.70	25.00	
			0.00			1/2" Ice	5.99	1.99	51.57	
(3) 4' x 1' x 3" panel	B	From Face	4.00	0.0000	117.00	No Ice	5.60	1.70	25.00	
			0.00			1/2" Ice	5.99	1.99	51.57	
			0.00							
(3) 4' x 1' x 3" panel	C	From Face	4.00	0.0000	117.00	No Ice	5.60	1.70	25.00	
			0.00			1/2" Ice	5.99	1.99	51.57	
			0.00							
14' low-profile platform	C	None			0.0000	117.00	No Ice	9.80	8.49	1200.00
						1/2" Ice	10.93	9.47	2063.51	

Section Capacity Table – Loading 2

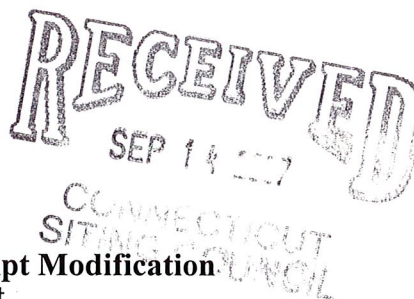
Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	SF*P _{allow} lb	% Capacity	Pass Fail
L1	150 - 111.75	Pole	TP28.694x22x0.1875	1	-6682.99	99537.64	67.1	Pass
L2	111.75 - 75.5	Pole	TP34.663x27.6627x0.25	2	-11612.30	233584.25	96.8	Pass
L3	75.5 - 40	Pole	TP40.3757x33.3755x0.3125	3	-18302.30	462184.41	98.8	Pass
L4	40 - 0	Pole	TP46.751x38.8757x0.375	4	-29136.10	919200.77	94.9	Pass
Summary								
Pole (L3)							98.8	Pass
Base Plate							70.1	Pass
RATING =							98.8	Pass

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

September 14, 2007

Via Hand Delivery

S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



Re: **EM-VER-108-070605 - Notice of Exempt Modification**
691 Oxford Road, Oxford, Connecticut

Dear Mr. Phelps:

On July 3, 2007 the Connecticut Siting Council (the "Council") approved the request of Cellco Partnership d/b/a Verizon Wireless ("Cellco") to install antennas on the existing 150-foot self-supporting monopole tower owned by Crown Castle International ("Crown") at 691 Oxford Road in Oxford, Connecticut.

Recently, Cellco decided to install a propane generator at the site rather than the diesel generator previously proposed. Enclosed for your files is an updated site plan showing the Cellco equipment and the location of the 1000 gallon propane tank. I don't believe this minor change would warrant the filing of a second notice of exempt modification. If you disagree with that assessment please contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kenneth C. Baldwin".

Kenneth C. Baldwin



Law Offices

BOSTON

HARTFORD

NEW LONDON

STAMFORD

WHITE PLAINS

NEW YORK CITY

SARASOTA

www.rc.com

Attachments

Copy to:

August A. Palmer III, Oxford First Selectman
David G. Rich and Donald J. Rich, Property Owners
Sandy M. Carter

HART1-1420624-1

Cellco Partnership

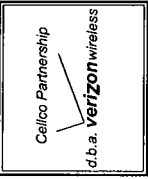


d.b.a. **verizon** wireless

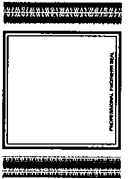
WIRELESS COMMUNICATIONS FACILITY

**OXFORD NORTH
691 OXFORD ROAD
OXFORD, CT 06478**

REVISIONS	
NO.	DATE
01	06/05/07
02	06/05/07



NATCOM
National, LLC - Engineering Consultants
1400 Main Street, Suite 200
Westport, Connecticut 06880
Tel: (203) 326-1100
Fax: (203) 326-1101
www.natcom.com



OXFORD NORTH
691 OXFORD ROAD
OXFORD, CT 06478

PROJECT NO.:	807C
DRAWN BY:	DMD
CHECKED BY:	CFC
SCALE:	AS NOTED
DATE:	06/06/07

TITLE SHEET

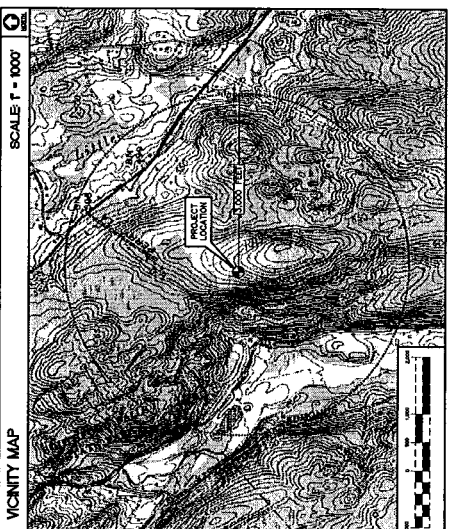
T-1
DWS, 1 OF 2

SHT. NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	02
C-1	COMPOUND PLAN AND ELEVATION	02

GENERAL NOTES
1. PROPOSED ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY VERIZON WIRELESS.

PROJECT SCOPE
1. THE PROPOSED SCOPE OF WORK GENERALLY INCLUDES THE INSTALLATION OF ONE (1) CELLULAR EQUIPMENT SHELTER ON A CONCRETE FOUNDATION WITHIN THE EXISTING WIRELESS COMMUNICATIONS COMPOUND.
2. THE EXISTING 150' FT. TALL MONOPOLE TOWER AT A 90° CENTER TO THE PROPOSED SHELTER SHALL BE REMOVED.
3. ELECTRIC AND TELECOM UTILITIES SHALL BE ROUTED UNDERGROUND TO THE WIRELESS EQUIPMENT SHELTER FROM AN EXISTING UTILITY BUILDING LOCATED ADJACENT TO THE FENCED COMPOUND.

SITE DIRECTIONS	
FROM:	TO:
99 EAST RIVER DRIVE EAST HARTFORD, CONNECTICUT	SITE ACCESS OFF AT 49 PERRY LANE OXFORD, CONNECTICUT
MERGE ONTO I-84 W/ US-41 N. TRAVEL SOUTH FOR 6.00 MI.	
TURN LEFT ONTO STRONGSTOWN ROAD/CT-100.	
TURN LEFT ONTO SOUTHFORD RD/CT-186/CT-87. CONTINUE TO FOLLOW CT-87.	
TURN LEFT ONTO SOUTHFORD RD/CT-186/CT-87. CONTINUE TO FOLLOW CT-87.	
SITE ACCESS IS AT END OF CUL-DE-SAC ON LEFT SIDE.	



PROJECT SUMMARY	
SITE NAME:	OXFORD NORTH
SITE ADDRESS:	691 OXFORD ROAD OXFORD, CT 06478
SITE LOCATION:	LATITUDE 41°-35'-48.3" LONGITUDE 72°-59'-43.3" UTM ZONE 18Q UTM ON CSD WEB LOG LIST UPDATED 05/01/07
SITE OWNER:	GLDML SIGNAL, INC.
LESSEE/OWNER:	CELCO PARTNERSHIP 80 EAST MAIN STREET EAST HARTFORD, CT 06108
CONTACT PERSON:	SMYTY GAITHER PROJECT MANAGER (860) 863-8219

