



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

August 7, 2012

Christopher B. Fisher, Esq.
Cuddy & Feder LLP
445 Jamilton Avenue, 14th Floor
White Plains, NY 10601

RE: MetroPCS Request for Extension of Time on Exempt Modifications

Dear Attorney Fisher:

The Connecticut Siting Council (Council) considered your request, dated May 29, 2012, for an extension of time to construct various co-location projects already acknowledged by the Council and granted an extension of time until July 30, 2013, to complete the construction for the exempt modification projects listed below:

| CSC Control Number | Site Address | Prev. Ackn. Date |
|-------------------------|---|------------------|
| EM-MetroPCS-073-090622 | 26 Mell Road a/k/a 20 Mell Road, Lisbon | 7/27/09 |
| EM-MetroPCS-058-090615 | 181 Norman Road, Griswold | 7/23/09 |
| EM-MetroPCS-058-090715 | 131 Bishop Crossing, Griswold | 8/26/09 |
| EM-MetroPCS-109-090612 | 954 Norwich Road, Plainfield | 7/21/09 |
| EM-MetroPCS-109-090623 | 388 Norwich Road, Plainfield | 7/27/09 |
| EM-MetroPCS-109-090615A | 47-51 Unity Road, Plainfield | 7/24/09 |
| EM-MetroPCS-109-090615B | 57 Roper Road, Plainfield | 7/24/09 |
| EM-MetroPCS-069-090728 | 246 East Franklin Street, Killingly | 8/28/09 |
| EM-MetroPCS-069-090807 | 79 Putnam Pike, Killingly | 9/25/09 |
| EM-MetroPCS-116-090623 | 154 Sayle Avenue, Putnam | 7/27/09 |
| EM-MetroPCS-141-091005 | 61 Lowell Davis Road, Thompson | 11/18/09 |
| EM-MetroPCS-069-090814 | 280-296 Ross Road, Killingly | 9/16/09 |

This extension is granted with the understanding that the Council will be notified should the applicant decide not to proceed with construction.

Sincerely,



Linda Roberts
Executive Director

LR/CDM/jbw

- c: The Honorable Philip E. Anthony, Jr., First Selectman, Town of Griswold
 Carl S. Fontneau, Town Planner, Town of Griswold
 The Honorable Robert B. Young, Chairman Town Council, Town of Killingly
 Bruce E. Benway, Town Manager, Town of Killingly
 Roger Gandolf, Zoning Officer, Town of Killingly
 The Honorable Thomas W. Sparkman, First Selectman, Town of Lisbon
 James D. Rabbit, Town Planner, Town of Lisbon
 The Honorable Paul E. Sweet, First Selectman, Town of Plainfield
 Gloria Rizer, Planning & Zoning Chairman, Town of Plainfield
 The Honorable Robert G. Viens, Mayor, Town of Putnam
 Gerard Cotnoir, Planning Chairman, Town of Putnam
 The Honorable Larry Groh, First Selectman, Town of Thompson
 John E. Mahon, Jr., Zoning Enforcement Officer, Town of Thompson

ORIGINAL

May 29, 2012

VIA FEDERAL EXPRESS

Ms. Linda Roberts, Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RECEIVED
MAY 30 2012
CONNECTICUT
SITING COUNCIL

Re: MetroPCS
Request for Extension of Time to Construct Exempt Facilities and
Notification of Construction Completion of Facilities

Dear Ms. Roberts:

We are writing on behalf of our client, MetroPCS, to notify the Council that construction has been completed on several sites identified below with a plus "+" symbol. We are also writing to request a further 1 year extension of time to July 30, 2013 to construct the remaining exempt facilities listed below that were previously acknowledged by the Siting Council. The Council previously granted an extension to July 30, 2012 for these sites in the attached correspondence, dated August 12, 2011. MetroPCS does not anticipate commencing construction on the remaining sites below until early 2013.

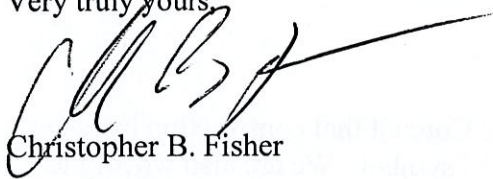
| GSC Control Number | Site Address | Orig. Date | Ackn. Date |
|-------------------------|---|------------|------------|
| EM-MetroPCS-045-090630 | 2 Scott Road, East Lyme | 7/28/09 | + |
| EM-MetroPCS-152-090619 | 607 Mohegan Avenue a/k/a 35 S. Bartlett Road, Waterford | 7/27/09 | + |
| EM-MetroPCS-086-090807 | 71 Moxley Road, Montville | 9/16/09 | + |
| EM-MetroPCS-086-090731 | 57 Cook Road, Montville | 8/28/09 | + |
| EM-MetroPCS-104-090715 | 2 Hinckley Hill Road, Norwich | 8/19/09 | + |
| EM-MetroPCS-104-090707 | 39 Maennerchor Avenue, Norwich | 8/14/09 | + |
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| EM-MetroPCS-109-090623 | 388 Norwich Road, Plainfield | 7/27/09 | |
| EM-MetroPCS-109-090615A | 47-51 Unity Road, Plainfield | 7/24/09 | |
| EM-MetroPCS-109-090615B | 57 Roper Road, Plainfield | 7/24/09 | |

**CUDDY &
FEDER^{LLP}**

| CSC Control Number | Site Address | Orig. Date | Ackn. |
|------------------------|---------------------------------------|------------|-------|
| EM-MetroPCS-069-090728 | 246 East Franklin Street, Killingly | 8/28/09 | |
| EM-MetroPCS-069-090807 | 79 Putnam Pike, Killingly | 9/25/09 | |
| EM-MetroPCS-116-090623 | 154 Sayle Avenue, Putnam | 7/27/09 | |
| EM-MetroPCS-141-091005 | 61 Lowell Davis Road, Thompson | 11/18/09 | |
| EM-MetroPCS-114-090611 | 389 Route 2, Preston | 7/21/09 | + |
| EM-MetroPCS-102-090630 | 118C Wintechog Road, North Stonington | 7/30/09 | + |
| EM-MetroPCS-072-090728 | 12 Orchard Drive, Ledyard | 8/28/09 | + |
| EM-MetroPCS-069-090814 | 280-296 Ross Road, Killingly | 9/16/09 | |
| EM-MetroPCS-152-090616 | 13 Industrial Drive, Waterford | 7/29/09 | + |

Thank you for your consideration.

Very truly yours,



Christopher B. Fisher

CBF/cv

Enclosures

cc: Kate Rugman, MetroPCS



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August 12, 2011

Christopher B. Fisher, Esq.
Cuddy & Feder LLP
445 Jamilton Avenue, 14th Floor
White Plains, NY 10601

RE: MetroPCS Request for Extension of Time on Exempt Modifications

Dear Attorney Fisher:

The Connecticut Siting Council (Council) considered your request, dated July 26, 2011, for an additional extension of time to construct various co-location projects already acknowledged by the Council and further granted an extension of time until July 30, 2012, to complete the construction for the exempt modification projects listed with the following conditions:

- Any deviation from the proposed modification as specified initial notice and supporting materials with Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Not less than 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration;

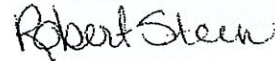
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| EM-MetroPCS-086-090731 | 57 Cook Road, Montville | 8/28/09 | |
| EM-MetroPCS-104-090715 | 2 Hinckley Hill Road, Norwich | 8/19/09 | |
| EM-MetroPCS-104-090707 | 39 Maennerchor Avenue, Norwich | 8/14/09 | |
| EM-MetroPCS-104-090612 | 202 North Wawecus Hill Road, Norwich | 7/21/09 | |
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| EM-MetroPCS-069-090728 | 246 East Franklin Street, Killingly | 8/28/09 |
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| EM-MetroPCS-069-090814 | 280-296 Ross Road, Killingly | 9/16/09 |
| EM-MetroPCS-152-090616 | 13 Industrial Drive, Waterford | 7/29/09 |

This extension is granted with the understanding that the Council will be notified should the applicant decide not to proceed with construction.

Sincerely,



Robert Stein *LR*
 Chairman

RS/CDM/laf

- c: The Honorable Paul M. Formica, First Selectman, Town of East Lyme
 Gary Goeschel, Planning Director, Town of East Lyme
 The Honorable Philip E. Anthony, Jr., First Selectman, Town of Griswold
 Carl S. Fontneau, Town Planner, Town of Griswold
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August 12, 2011

Christopher B. Fisher, Esq.
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445 Jamilton Avenue, 14th Floor
White Plains, NY 10601

RE: MetroPCS Request for Extension of Time on Exempt Modifications

Dear Attorney Fisher:

The Connecticut Siting Council (Council) considered your request, dated July 26, 2011, for an additional extension of time to construct various co-location projects already acknowledged by the Council and further granted an extension of time until July 30, 2012, to complete the construction for the exempt modification projects listed with the following conditions:

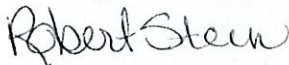
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| EM-MetroPCS-069-090807 | 79 Putnam Pike, Killingly | 9/25/09 | |
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| EM-MetroPCS-069-090814 | 280-296 Ross Road, Killingly | 9/16/09 | |
| EM-MetroPCS-152-090616 | 13 Industrial Drive, Waterford | 7/29/09 | |

This extension is granted with the understanding that the Council will be notified should the applicant decide not to proceed with construction.

Sincerely,



Robert Stein *UR*
Chairman

RS/CDM/laf

- c: The Honorable Paul M. Formica, First Selectman, Town of East Lyme
 Gary Goeschel, Planning Director, Town of East Lyme
 The Honorable Philip E. Anthony, Jr., First Selectman, Town of Griswold
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 Thomas V. Wagner, Planning Director, Town of Waterford

ORIGINAL

RECEIVED
JUL 27 2011
CONNECTICUT
SITING COUNCIL

July 26, 2011

VIA FEDERAL EXPRESS

Ms. Linda Roberts, Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: MetroPCS
Request for Extension of Time to Construct Exempt Facilities

Dear Ms. Roberts:

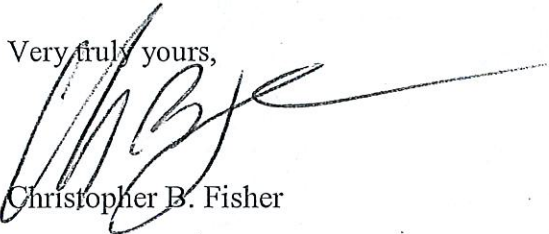
We are writing on behalf of our client, MetroPCS, to request a further 1 year extension of time to July 30, 2012 to construct various exempt facilities already acknowledged by the Siting Council. The Council previously granted an extension to July 30, 2011 in the attached correspondence, dated July 19, 2010.

We are informed by our client that at this time, MetroPCS has not slated a launch date for service to this part of the State and is asking for another 1 year extension. MetroPCS does not anticipate commencing construction on these sites until early 2012.

The attached chart outlines each of the sites MetroPCS is requesting extensions on pursuant to this letter. As you will see from the below, these sites received acknowledgment letters by the Council starting on July 21, 2009.

Thank you for your consideration.

Very truly yours,


Christopher B. Fisher

CBF/cs

Enclosures

cc: Kate Rugman, MetroPCS



Daniel F. Caruso
Chairman

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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July 19, 2010

Christopher B. Fisher, Esq.
Cuddy & Feder LLP
445 Jamilton Avenue, 14th Floor
White Plains, NY 10601

RE: MetroPCS Request for Extension of Time on Exempt Modifications

Dear Attorney Fisher:

The Connecticut Siting Council (Council) considered your request, dated July 2, 2010, for an extension of time to construct various co-location projects already acknowledged by the Council and granted an extension of time until July 30, 2011, to complete the construction for the exempt modification projects listed below:

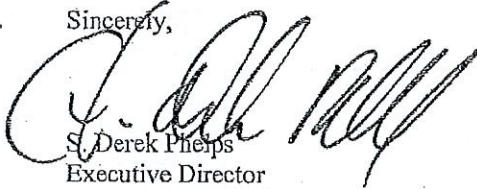
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CONNECTICUT SITING COUNCIL
Affirmative Action / Equal Opportunity Employer

This extension is granted with the understanding that the Council will be notified should the applicant decide not to proceed with construction.

Sincerely,



Derek Phelps
Executive Director

SDP/MP/laf

- c: The Honorable Paul M. Formica, First Selectman, Town of East Lyme
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| EM-MetroPCS-109-090623 | 388 Norwich Road, Plainfield | 7/27/09 |
| EM-MetroPCS-109-090615A | 47-51 Unity Road, Plainfield | 7/24/09 |
| EM-MetroPCS-109-090615B | 57 Roper Road, Plainfield | 7/24/09 |
| EM-MetroPCS-069-090728 | 246 East Franklin Street, Killingly | 8/28/09 |
| EM-MetroPCS-069-090807 | 79 Putnam Pike, Killingly | 9/25/09 |
| EM-MetroPCS-116-090623 | 154 Sayle Avenue, Putnam | 7/27/09 |
| EM-MetroPCS-141-091005 | 61 Lowell Davis Road, Thompson | 11/18/09 |
| EM-MetroPCS-114-090611 | 389 Route 2, Preston | 7/21/09 |
| EM-MetroPCS-102-090630 | 118C Wintechog Road, North Stonington | 7/30/09 |
| EM-MetroPCS-072-090728 | 12 Orchard Drive, Ledyard | 8/28/09 |
| EM-MetroPCS-069-090814 | 280-296 Ross Road, Killingly | 9/16/09 |
| EM-MetroPCS-152-090616 | 13 Industrial Drive, Waterford | 7/29/09 |



Daniel F. Caruso
Chairman

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

July 19, 2010

Christopher B. Fisher, Esq.
Cuddy & Feder LLP
445 Jamilton Avenue, 14th Floor
White Plains, NY 10601

RE: MetroPCS Request for Extension of Time on Exempt Modifications

Dear Attorney Fisher:

The Connecticut Siting Council (Council) considered your request, dated July 2, 2010, for an extension of time to construct various co-location projects already acknowledged by the Council and granted an extension of time until July 30, 2011, to complete the construction for the exempt modification projects listed below:

| CSC Control Number | Site Address | Ackn. Date |
|-------------------------|---|------------|
| EM-MetroPCS-045-090630 | 2 Scott Road, East Lyme | 7/28/09 |
| EM-MetroPCS-152-090619 | 607 Mohegan Avenue a/k/a 35 S. Bartlett Road, Waterford | 7/27/09 |
| EM-MetroPCS-086-090807 | 71 Moxley Road, Montville | 9/16/09 |
| EM-MetroPCS-086-090731 | 57 Cook Road, Montville | 8/28/09 |
| EM-MetroPCS-104-090715 | 2 Hinckley Hill Road, Norwich | 8/19/09 |
| EM-MetroPCS-104-090707 | 39 Maennerchor Avenue, Norwich | 8/14/09 |
| EM-MetroPCS-104-090612 | 202 North Wawecus Hill Road, Norwich | 7/21/09 |
| EM-MetroPCS-104-090807 | 50 Clinton Avenue, Norwich | 9/16/09 |
| EM-MetroPCS-073-090622 | 26 Mell Road a/k/a 20 Mell Road, Lisbon | 7/27/09 |
| EM-MetroPCS-058-090615 | 181 Norman Road, Griswold | 7/23/09 |
| EM-MetroPCS-058-090715 | 131 Bishop Crossing, Griswold | 8/26/09 |
| EM-MetroPCS-109-090612 | 954 Norwich Road, Plainfield | 7/21/09 |
| EM-MetroPCS-109-090623 | 388 Norwich Road, Plainfield | 7/27/09 |
| EM-MetroPCS-109-090615A | 47-51 Unity Road, Plainfield | 7/24/09 |
| EM-MetroPCS-109-090615B | 57 Roper Road, Plainfield | 7/24/09 |
| EM-MetroPCS-069-090728 | 246 East Franklin Street, Killingly | 8/28/09 |
| EM-MetroPCS-069-090807 | 79 Putnam Pike, Killingly | 9/25/09 |
| EM-MetroPCS-116-090623 | 154 Sayle Avenue, Putnam | 7/27/09 |
| EM-MetroPCS-141-091005 | 61 Lowell Davis Road, Thompson | 11/18/09 |
| EM-MetroPCS-114-090611 | 389 Route 2, Preston | 7/21/09 |
| EM-MetroPCS-102-090630 | 118C Wintechog Road, North Stonington | 7/30/09 |
| EM-MetroPCS-072-090728 | 12 Orchard Drive, Ledyard | 8/28/09 |
| EM-MetroPCS-069-090814 | 280-296 Ross Road, Killingly | 9/16/09 |
| EM-MetroPCS-152-090616 | 13 Industrial Drive, Waterford | 7/29/09 |

This extension is granted with the understanding that the Council will be notified should the applicant decide not to proceed with construction.

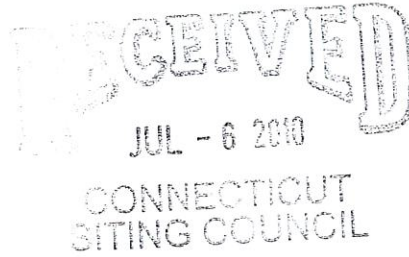
Sincerely,



S. Derek Phelps
Executive Director

SDP/MP/laf

- c: The Honorable Paul M. Formica, First Selectman, Town of East Lyme
Meg Parulis, Planning Director, Town of East Lyme
The Honorable Philip E. Anthony, Jr., First Selectman, Town of Griswold
Carl S. Fontneau, Town Planner, Town of Griswold
The Honorable Robert B. Young, Chairman Town Council, Town of Killingly
Bruce E. Benway, Town Manager, Town of Killingly
Roger Gandolf, Zoning Officer, Town of Killingly
The Honorable Fred B. Allyn, Jr., Mayor, Town of Ledyard
Brian Palaia, Town Planner, Town of Ledyard
The Honorable Thomas W. Sparkman, First Selectman, Town of Lisbon
James D. Rabbit, Town Planner, Town of Lisbon
The Honorable Joseph W. Jaskiewicz, Mayor, Town of Montville
Marcia Vlaun, Town Planner, Town of Montville
The Honorable Nicholas H. Mullane, II, First Selectman, Town of North Stonington
Craig Grimord, Senior Planning & Zoning Official, Town of North Stonington
The Honorable Peter A. Nystrom, Mayor, City of Norwich
Alan H. Bergren, City Manager, City of Norwich
Peter Davis, City Planner, City of Norwich
The Honorable Paul E. Sweet, First Selectman, Town of Plainfield
Gloria Rizer, Planning & Zoning Chairman, Town of Plainfield
The Honorable Robert M. Congdon, First Selectman, Town of Preston
Kathy Warzecha, Town Planner, Town of Preston
The Honorable Robert G. Viens, Mayor, Town of Putnam
Gerard Cotnoir, Planning Chairman, Town of Putnam
The Honorable Larry Groh, First Selectman, Town of Thompson
John E. Mahon, Jr., Zoning Enforcement Officer, Town of Thompson
The Honorable Daniel M. Steward, First Selectman, Town of Waterford
Thomas V. Wagner, Planning Director, Town of Waterford



July 2, 2010

BY FIRST CLASS MAIL

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

Re: MetroPCS
Request for Extension of Time to Construct Exempt Facilities

Dear Mr. Phelps:

We are writing on behalf of our client, MetroPCS, to request an extension of the time to construct various exempt facilities already acknowledged by the Siting Council. We are informed by our client that it has pushed out the construction commencement phase of various sites until early 2011 and anticipates completion of construction by the end of the second quarter in 2011.

The below chart outlines each of the sites MetroPCS is requesting extensions on pursuant to this letter. As you will see from the below, these sites received acknowledgment letters by the Council starting on July 21, 2009. As such and given MetroPCS' anticipated construction start and completion dates, MetroPCS is respectfully requesting an extension to July 30, 2011 to complete each of the facilities listed below.

| CSC EM/TS# | Date of CSC Acknowledgement | Address | City/Town |
|------------------------|-----------------------------|---|-----------|
| TS-METROPCS-105-090716 | September 1, 2009 | 189 Boston Post Road | Old Lyme |
| EM-METROPCS-045-090630 | July 28, 2009 | 2 Scott Rd | East Lyme |
| EM-METROPCS-152-090619 | July 27, 2009 | 607 Mohegan Avenue (a/k/a 35 S. Bartlett Rd.) | Waterford |
| EM-METROPCS-086-090807 | September 16, 2009 | 71 Moxley Rd | Montville |
| EM-METROPCS-086-090731 | August 28, 2009 | 57 Cook Rd | Montville |
| EM-METROPCS-104-090715 | August 19, 2009 | 2 Hinckley Hill Road | Norwich |
| EM-METROPCS-104-090707 | August 14, 2009 | 39 Maennerchor Ave | Norwich |
| EM-METROPCS-104-090612 | July 21, 2009 | 202 North Wawecus Hill Rd | Norwich |
| EM-METROPCS-104-090807 | September 16, 2009 | 50 Clinton Avenue | Norwich |
| EM-METROPCS-073-090622 | July 27, 2009 | 26 Mell Road (a/d/a 20 Mell Rd) | Lisbon |
| EM-METROPCS-058-090615 | July 23, 2009 | 181 Norman Rd | Griswold |
| EM-METROPCS-058-090715 | August 26, 2009 | 131 Bishop Crossing | Griswold |

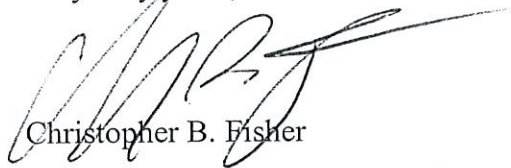
CUDDY &
FEDER^{LLP}

| | | | |
|-------------------------|--------------------|----------------------|---------------------|
| EM-METROPCS-109-090612 | July 21, 2009 | 954 Norwich Rd | Plainfield |
| EM-METROPCS-109-090623 | July 27, 2009 | 388 Norwich Rd | Plainfield |
| EM-METROPCS-109-090615A | July 24, 2009 | 47-51 Unity St | Plainfield |
| EM-METROPCS-109-090615B | July 24, 2009 | 57 Roper Rd | Plainfield |
| EM-METROPCS-069-090728 | August 28, 2009 | 246 East Franklin St | Killingly |
| EM-METROPCS-069-090807 | September 25, 2009 | 79 Putnam Pike | Killingly |
| EM-METROPCS-116-090623 | July 27, 2009 | 154 Sayle Ave | Putnam |
| EM-METROPCS-141-091005 | November 18, 2009 | 61 Lowell Davis Rd | Thompson |
| EM-METROPCS-114-090611 | July 21, 2009 | 389 Route 2 | Preston |
| EM-METROPCS-102-090630 | July 30, 2009 | 118C Wintechog Rd | North Stonington |
| EM-METROPCS-072-090728 | August 28, 2009 | 12 Orchard Drive | Ledyard |
| EM-METROPCS-069-090814 | September 16, 2009 | 280-296 Ross Road | Killingly |
| EM-METROPCS-152-090616 | July 29, 2009 | 13 Industrial Drive | Waterford |

Additionally, enclosed for your reference are copies of each of the Council's Acknowledgement Letters for the sites listed herein.

Thank you for your consideration of this request. Should you have any questions regarding this request, please do not hesitate to contact me.

Very truly yours,

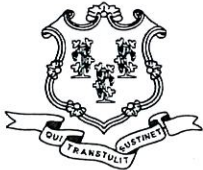


Christopher B. Fisher

CBF/cs

Enclosures

cc: Kate Rugman, MetroPCS



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

Daniel F. Caruso
Chairman

July 27, 2009

Douglas L. Culp
Real Estate Consultant for MetroPCS
Tower Resource Management
30 Lyman Street, Suite 12
Westborough, MA 01581

RE: **EM-METROPCS-116-090623** – MetroPCS Massachusetts, LLC notice of intent to modify an existing telecommunications facility located at 154 Sayle Avenue, Putnam, Connecticut.

Dear Mr. Culp:

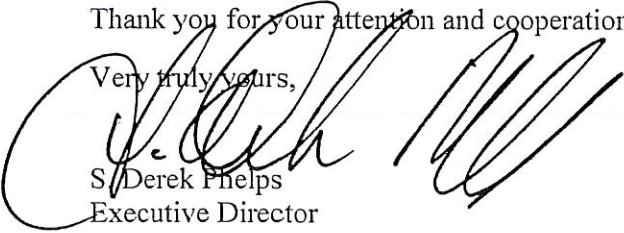
The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated June 23, 2009, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,


S/Derek Phelps
Executive Director

SDP/MP/laf

c: The Honorable Robert G. Viens, Mayor, Town of Putnam
Gerard Cotnoir, Planning Chairman, Town of Putnam
SBA



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

June 30, 2009

The Honorable Robert G. Viens
Mayor
Town of Putnam
Town Hall
126 Church Street
Putnam, CT 06260

RE: **EM-METROPCS-116-090623** – MetroPCS New York, LLC notice of intent to modify an existing telecommunications facility located at 154 Sayle Avenue, Putnam, Connecticut.

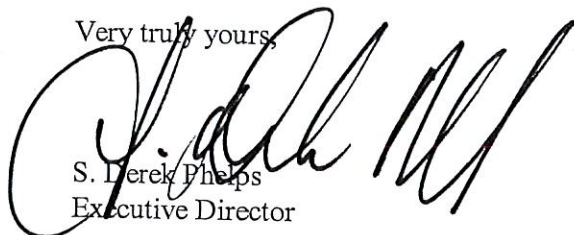
Dear Mayor Viens:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

If you have any questions or comments regarding this proposal, please call me or inform the Council by July 14, 2009.

Thank you for your cooperation and consideration.

Very truly yours,



S. Derek Phelps
Executive Director

SDP/jb

Enclosure: Notice of Intent

c: Gerard Cotnoir, Planning Chairman, Town of Putnam



EM-METROPCS-116-090623

June 23, 2009

Via Hand Delivery

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

RECEIVED
JUN 23 2009

ORIGINAL

CONNECTICUT
SITING COUNCIL

Re: **Notice of Exempt Modification**
154 Sayle Avenue Putnam, CT

Dear Mr. Phelps:

MetroPCS Massachusetts, LLC d/b/a MetroPCS ("MetroPCS") intends to install antennas on the existing 175-foot self-supporting monopole owned by SBA Network Services, Inc. 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, a copy of this letter is being sent to Robert G. Veins, Mayor, Town of Putnam. William Mosher is the owner of the property on which the tower is located.

The facility consists of a 175-foot self-supporting monopole tower capable of supporting multiple carriers within a fenced compound at 154 Sayle Ave., Putnam CT. The tower is currently occupied by T-Mobile with antennas located at the 187-foot level, Sprint occupies the 175-foot level, Nextel occupies the 159-foot level, and Verizon occupies the 146-foot level and Cingular occupies the 134-foot level on the tower. MetroPCS intends to install six (6) 742 351 Kathrein antennas and six (6) 860-10025 Kathrein Remote Control Units at the 124-foot level on the tower. Associated equipment will be located on a 10' x 16' concrete equipment pad on the ground near the base of the tower, within the fenced compound. Attached behind Exhibit A are Project Plans for the proposed MetroPCS facility.

30 Lyman Street, Suite 12
Westborough, MA 01581
Fax: 508-389-1749



The planned modifications to the Preston 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. MetroPCS antennas will be mounted with their centerline at the 127-foot level on the 140-foot tower.
2. The proposed installation of associated equipment will not require an extension of the fenced compound.
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 RF power density calculations for existing and MetroPCS antennas would be 29.57% of the FCC standard. A cumulative power density calculations table is included behind Exhibit B.

Included behind Exhibit C is a Structural Analysis Report confirming that the tower can support the existing and MetroPCS antennas, and associated equipment.

For the foregoing reasons, MetroPCS 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,

A handwritten signature in black ink, appearing to read "D. L. Culp", is written over a faint, larger version of the same signature.

Douglas L. Culp

Real Estate Consultant for MetroPCS

Exhibit A

Design Drawings

And

Antenna Cut Sheets

MetroPCS Site NLD0059A

154 Sayle Ave.

Putnam, Connecticut

285 BILLERICA ROAD
THIRD FLOOR
CHELMSFORD, MA 01824
TEL (978) 244-7000
FAX (978) 244-7240



CHAPPELL
ENGINEERING
ASSOCIATES, LLC

Civil-Structural-Land Surveying
201 BOSTON POST ROAD WEST
SUITE 101
MARBOROUGH, MA 01752
TEL (508) 461-7400
www.chappellengineering.com

| NO. | DATE | REVISIONS | BY | CHK | APP'D |
|-----|----------|---------------------------|----|-----|-------|
| 2 | 06/22/09 | CSDP RENISED | | | |
| 1 | 06/16/09 | CSDP FINAL | | | |
| 0 | 06/08/09 | CONV. SITING COUNCIL PLAN | | | |

NOT TO SCALE DESIGNED BY: JMT DRAWN BY: OMC
APPROVALS

| SITE OWNER | DATE |
|----------------------|------|
| | |
| CONSTRUCTION MANAGER | DATE |
| | |
| RF ENGINEER | DATE |
| | |
| SITE ACQUISITION | DATE |
| | |

THE ABOVE PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE.

SITE ID
NLD0059A

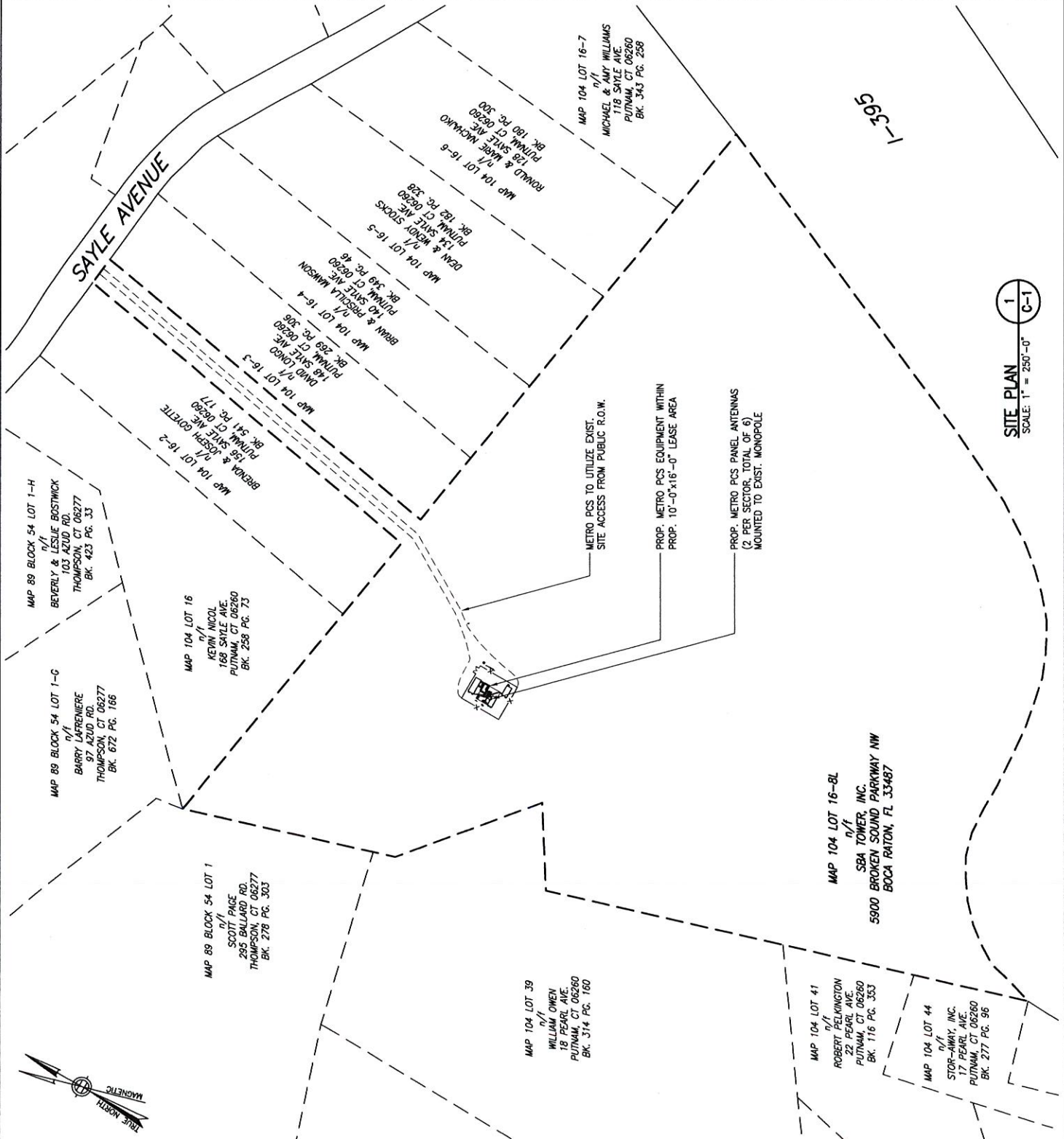
SITE NAME
SBA SAYLE AVENUE
PUTNAM

SITE ADDRESS
154 SAYLE AVENUE
PUTNAM, CT
06260

METRO PCS LEASE AREA
EQUIPMENT: 10'-0"x16'-0"=160.0 S.F.

TOTAL = 160.0 S.F.

| PROJECT NO. | DRAWING NAME | DATE | SHEET NO. | REV |
|-------------|--------------|----------|-----------|------|
| 736.257 | C-1 | 06/22/09 | 1 | OF 4 |



SITE PLAN
SCALE: 1" = 250'-0"
1
C-1



| NO. | DATE | REVISIONS | BY | CHK | APP'D |
|-----|----------|---------------------------|-----|-----|-------|
| 2 | 06/22/09 | CSDP REVISED | JMT | | |
| 1 | 06/16/09 | CSDP FINAL | JMT | | |
| 0 | 06/08/09 | CONV. SITING COUNCIL PLAN | JMT | | |

NOT TO SCALE DESIGNED BY: JMT DRAWN BY: OMC APPROVALS

| | |
|----------------------|------|
| SITE OWNER | DATE |
| CONSTRUCTION MANAGER | DATE |
| RF ENGINEER | DATE |
| SITE ACQUISITION | DATE |

THE ABOVE PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE.

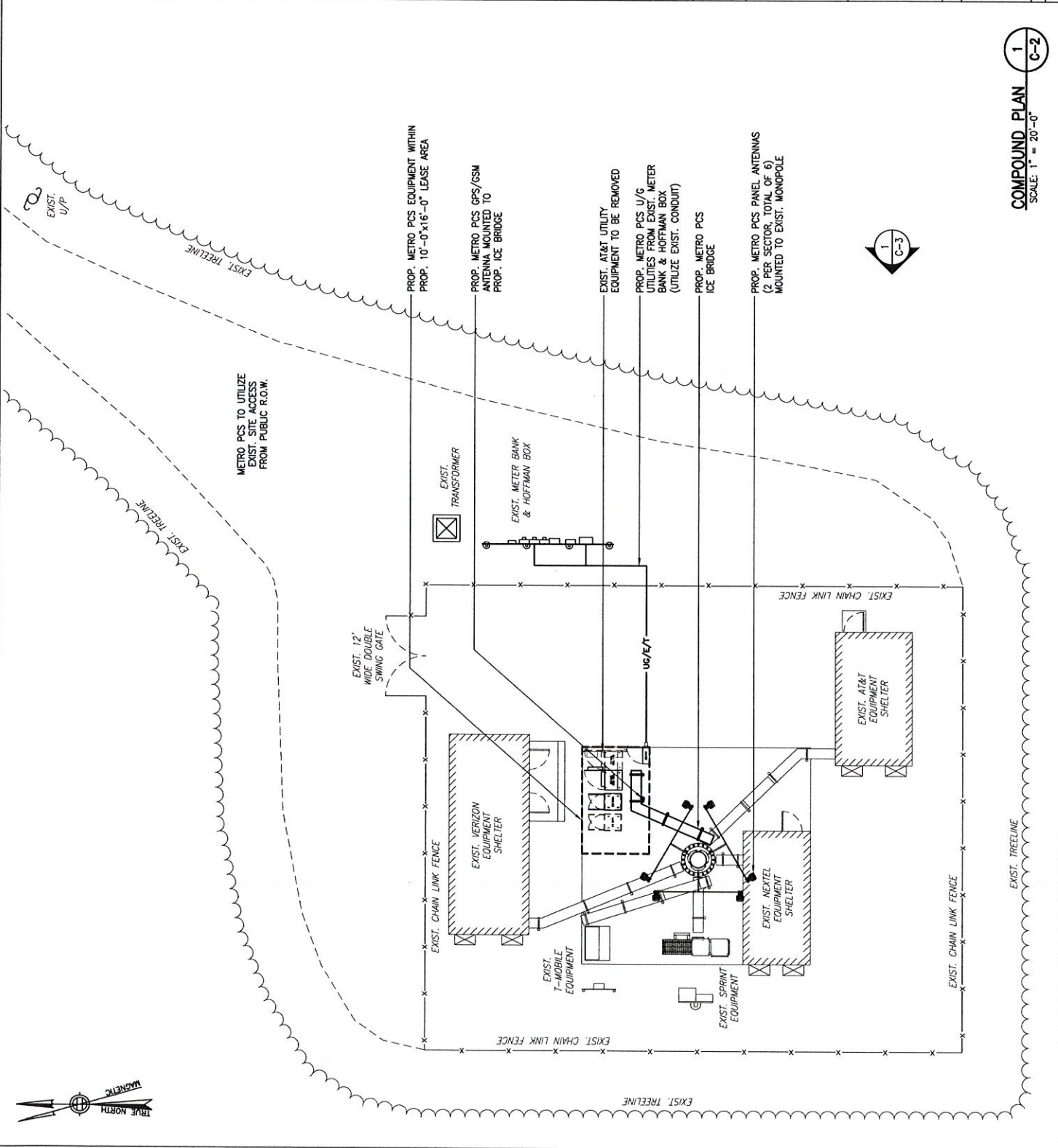
SITE ID
NLD0059A

SITE NAME
SBA SAYLE AVENUE
PUTNAM

SITE ADDRESS
154 SAYLE AVENUE
PUTNAM, CT
06260

METRO PCS LEASE AREA
EQUIPMENT: 10'-0"x16'-0"=160.0 S.F.

| | | | | | |
|---------------------|------------------|---------------|-------------|------|-------|
| TOTAL: = 160.0 S.F. | | | | | |
| PROJECT NO. 736.257 | DRAWING NAME C-2 | DATE 06/22/09 | SHEET NO. 2 | OF 4 | REV 2 |



285 BULLERICK ROAD
THIRD FLOOR
CHELMSFORD, MA 01824
TEL (978) 244-7000
FAX (978) 244-7240



CHAPPELL ENGINEERING ASSOCIATES, LLC
Civil-Structural-Land Surveying

201 BOSTON POST ROAD WEST
SUITE 301
MARLBOROUGH, MA 01752
TEL (508) 461-7400
www.chappellengineering.com

| NO. | DATE | REVISIONS | BY | CHK | APP'D |
|-----|----------|---------------------------|-----|-----|-------|
| 2 | 06/22/09 | CSSP REVISED | CMC | JMT | JMT |
| 1 | 06/16/09 | CSSP FINAL | CMC | JMT | JMT |
| 0 | 06/09/09 | CONNL SITING COUNCIL PLAN | CMC | JMT | JMT |

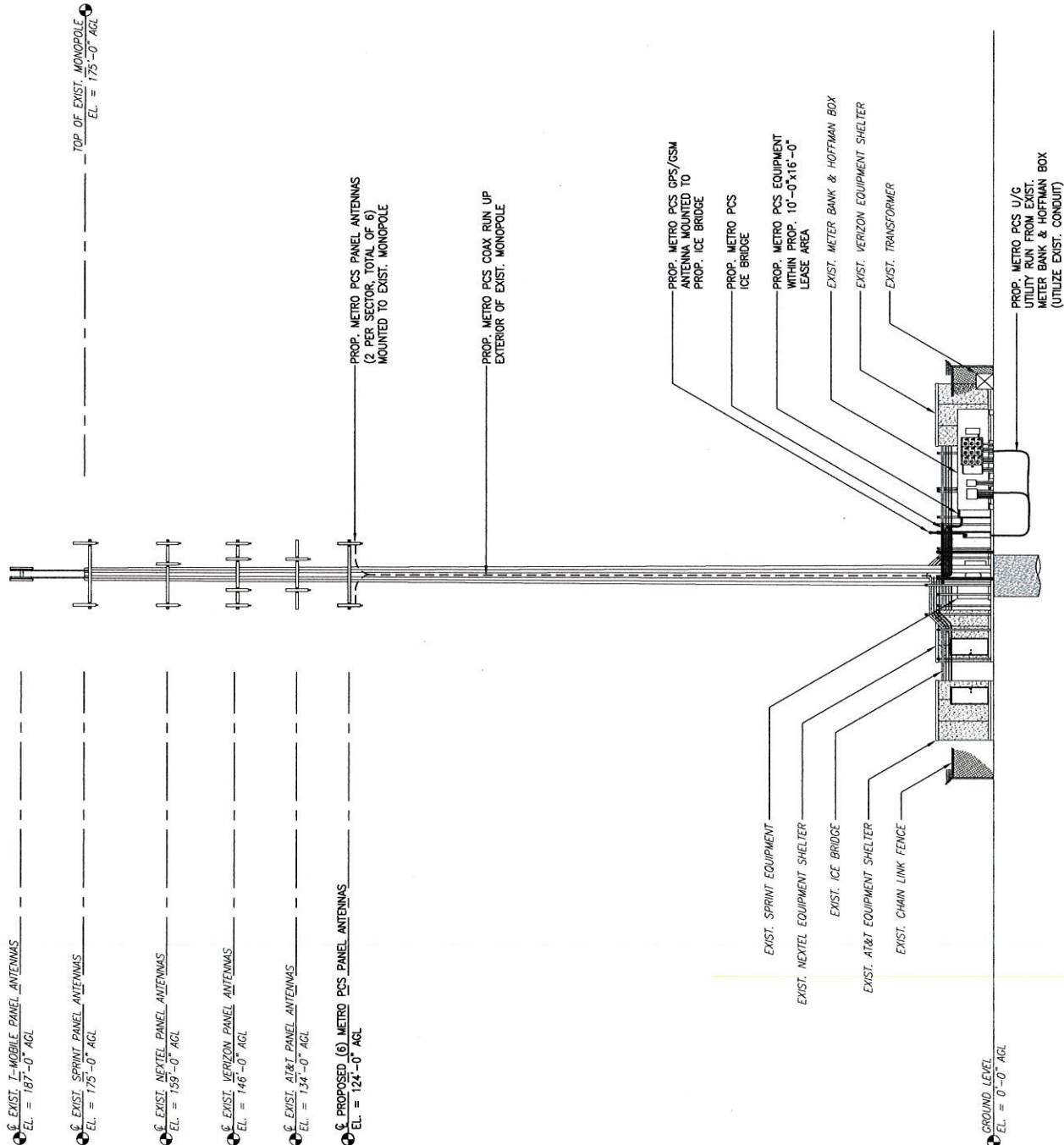
NOT TO SCALE DESIGNED BY: JMT DRAWN BY: CMC APPROVALS

| | |
|----------------------|------|
| SITE OWNER | DATE |
| CONSTRUCTION MANAGER | DATE |
| RF ENGINEER | DATE |
| SITE ACQUISITION | DATE |

THE ABOVE PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE.

| | |
|----------------------|---|
| SITE ID | NLD0059A |
| SITE NAME | SBA SAYLE AVENUE PUTNAM |
| SITE ADDRESS | 154 SAYLE AVENUE PUTNAM, CT 06260 |
| METRO PCS LEASE AREA | METRO PCS LEASE AREA |
| EQUIPMENT | 10'-0" x 16'-0" = 160.0 S.F. |

| | | | | |
|-------------|--------------|----------|-----------|-----|
| PROJECT NO. | DRAWING NAME | DATE | SHEET NO. | REV |
| 736.257 | C-3 | 06/22/09 | 3 OF 4 | 2 |



1
C-3
NORTH LEVATION
SCALE: 1" = 30'-0"

285 BILLERICA ROAD
THIRD FLOOR
CHELMSFORD, MA 01824
TEL (978) 244-7000
FAX (978) 244-7240



CHAPPELL ENGINEERING ASSOCIATES, LLC
Civil-Structural-Land Surveying

201 BOSTON POST ROAD WEST
SUITE 301
MARLBOROUGH, MA 01752
TEL (508) 481-7400
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| NO. | DATE | REVISIONS | BY | CHK | APP'D |
|-----|----------|---------------------------|----|-----|-------|
| 2 | 06/22/09 | CSSP REVISED | | | |
| 1 | 06/16/09 | CSSP FINAL | | | |
| 0 | 06/09/09 | CONV. SITING COUNCIL PLAN | | | |

DESIGNED BY: JMT DRAWN BY: CMK
APPROVALS

| SITE OWNER | DATE |
|----------------------|------|
| | |
| CONSTRUCTION MANAGER | DATE |
| | |
| RF ENGINEER | DATE |
| | |
| SITE ACQUISITION | DATE |
| | |

THE ABOVE PRIORITIES HEREBY APPROVE AND ACCEPT THESE DRAWINGS AND HEREBY AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE.

SITE ID
NLD0059A

SITE NAME
SBA SAYLE AVENUE
PUTNAM

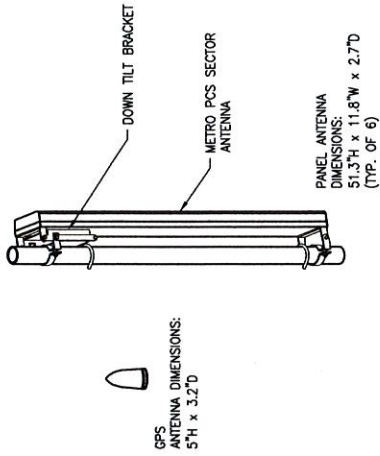
SITE ADDRESS
154 SAYLE AVENUE
PUTNAM, CT
06260

METRO PCS LEASE AREA

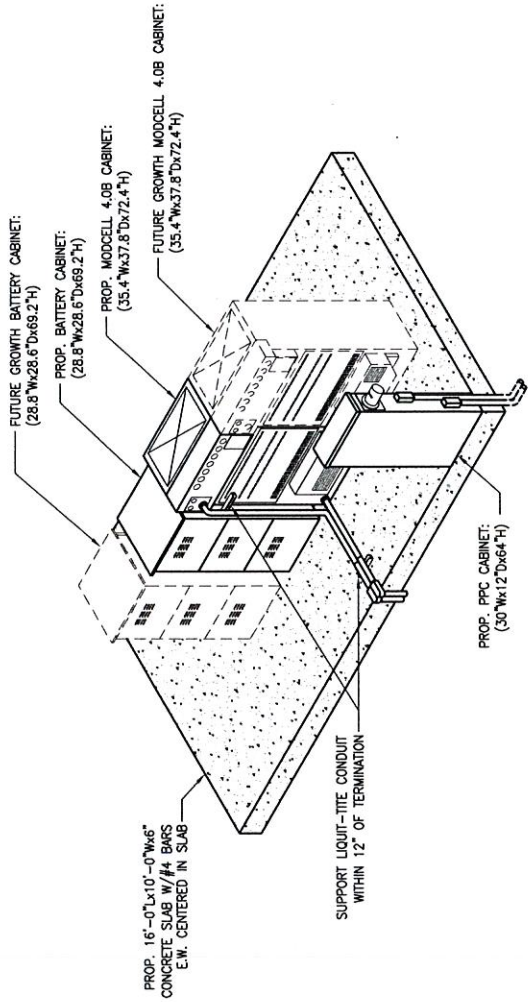
EQUIPMENT: 10'-0"x16'-0"=160.0 S.F.

| PROJECT NO. | DRAWING NAME | DATE | SHEET NO. | REV |
|-------------|--------------|----------|-----------|-----|
| 736-257 | C-4 | 06/22/09 | 4 OF 4 | 2 |

TOTAL = 160.0 S.F.



GPS & PANEL ANTENNA DETAIL
SCALE: NOT TO SCALE



EQUIPMENT DETAIL
SCALE: NOT TO SCALE

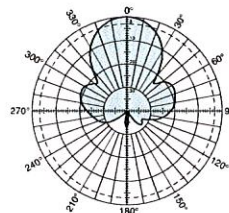
Kathrein's X-polarized adjustable electrical downtilt antennas offer the wireless carrier the ability to tailor polarization diversity sites for optimum performance. Using variable downtilt, only a few models need be procured to accommodate the needs of widely varying conditions. Remotely controlled downtilt is available as a retrofitable option.

- 0-8° downtilt range.
- UV resistant pulltruded fiberglass radome.
- DC Grounded metallic parts for impulse suppression.
- No moving electrical connections.
- Wideband vector dipole technology.
- Optional remote downtilt control.
- Will accommodate future 3G / UMTS applications.

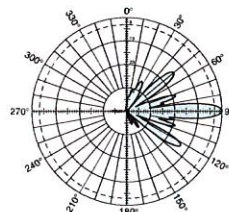
General specifications:

| | |
|----------------------------|---|
| Frequency range | 1710–2170 MHz |
| VSWR | <1.5:1 |
| Impedance | 50 ohms |
| Intermodulation (2x20w) | IM3: <-150 dBc |
| Polarization | +45° and -45° |
| Front-to-back ratio | >30 dB (co-polar) |
| Connector | 2 x 7/16 DIN female |
| Isolation | >30 dB |
| Maximum input power | 300 watts (at 50°C) per input |
| Weight | 29.8 lb (13.5 kg) |
| Dimensions | 51.3 x 11.8 x 2.7 inches (1304 x 299 x 69 mm) |
| Equivalent flat plate area | 5.48 ft ² (0.509 m ²) |
| Wind survival rating* | 120 mph (200 kph) |
| Shipping dimensions | 62.6 x 12.7 x 4.3 inches (1589 x 322 x 108 mm) |
| Shipping weight | 32 lb (14.5 kg) |
| Mounting | Fixed and tilt mount options are available for 2 to 4.6 inch (50 to 115 mm) OD masts. |

See reverse for order information.



Horizontal pattern
±45°- polarization



Vertical pattern
±45°- polarization

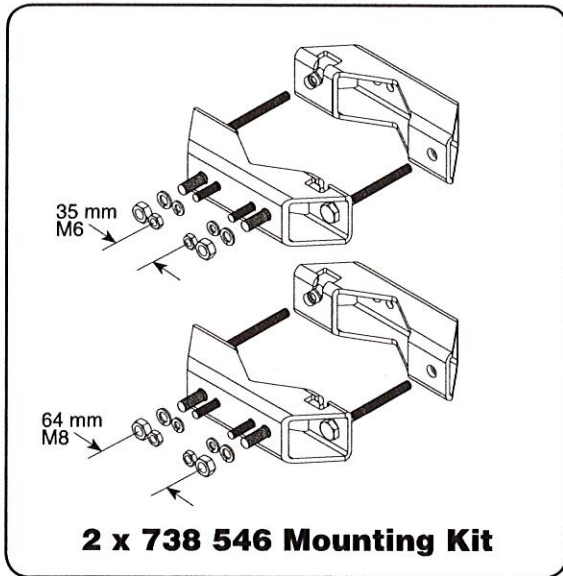


| Specifications: | 1710–1880 MHz | 1850–1990 MHz | 1920–2170 MHz |
|---|--|------------------|-------------------|
| Gain | 20.2 dBi | 20.5 dBi | 20.7 dBi |
| Horizontal beamwidth | 36° (half-power) | 35° (half-power) | 33° (half-power) |
| Vertical beamwidth | 7.4° (half-power) | 7° (half-power) | 6.7° (half-power) |
| Electrical downtilt continuously adjustable | 0°–8° (manual or optional remote control) | 0°–8° | 0°–8° |
| Sidelobe suppression for: | 0° 4° 8° T | 0° 4° 8° T | 0° 4° 8° T |
| First sidelobe above main beam | 18 17 16 dB | 18 18 17 dB | 18 17 16 dB |
| Horizontal pattern | >14 dB | >14 dB | >14 dB |
| Cross polar ratio | | | |
| Main direction | 0° | 20 dB (typical) | 20 dB (typical) |
| Sector | ±30° | >10 dB | >10 dB |

* Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.

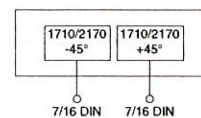
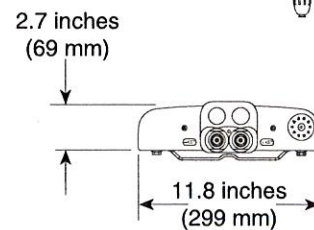
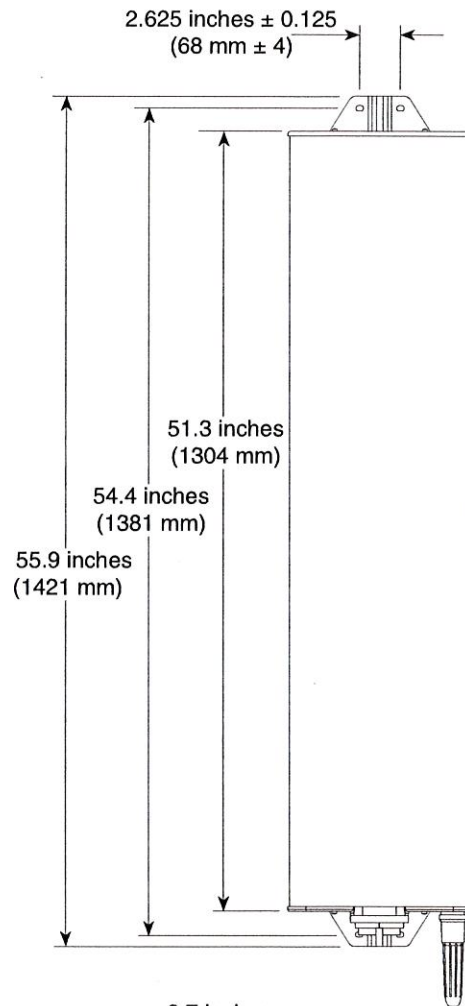


10708-E
936.2209/g



Mounting Options:

| Model | Description |
|-------------|--|
| 2 x 736 548 | Mounting Kit for 2 to 4.6 inch (50 to 115 mm) OD mast. |
| 737 978 | Tilt Mount Kit 0–16 degrees downtilt angle. |



Order Information:

| Model | Description |
|---------|---|
| 742 351 | Antenna with 7/16 DIN connectors 0°–8° adjustable electrical downtilt |

All specifications are subject to change without notice. The latest specifications are available at www.kathrein-scala.com.

Kathrein Inc., Scala Division Post Office Box 4580 Medford, OR 97501 (USA) Phone: (541) 779-6500 Fax: (541) 779-3991
Email: communications@kathrein.com Internet: www.kathrein-scala.com

Kathrein's 860 10025 Remote Control Unit allows operators to control the electrical tilt of compatible antennas without direct access to the antenna.

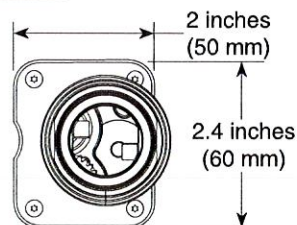
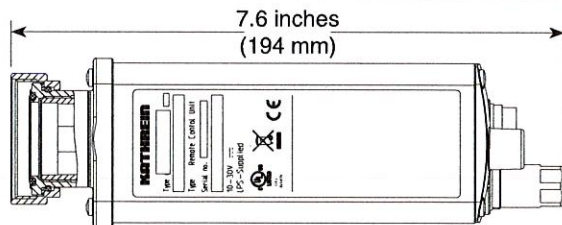
- Automatically calibrates to the antenna. There is no need to preset the antenna's electrical tilt or the 860 10025 when installing the unit.
- Allows control of the antenna either locally through a laptop computer, on site desktop computer, the optional central control unit; remotely via an ethernet network or over the internet.
- May be retrofitted to compatible antennas without dismantling or removing the antenna.
- Suitable for daisy chain and splitter solutions.
- Suitable for outdoor use.

Specifications:

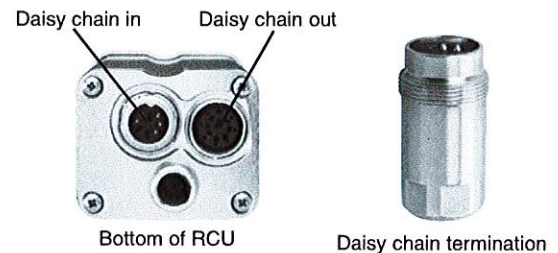
| | |
|--|--|
| Input voltage range | 10–30 V (pin 1 and pin 6) |
| Power Consumption | <1 W (standby); <8.5 W (motor activated) |
| Connectors ¹⁾ | 2 x 8 pin connector according to IEC 60130-9 conforming with AISG Daisy chain in: male; Daisy chain out: female |
| Hardware interfaces | RS485A/B (pin 5, pin 3) power supply (pin 1, pin 6); DC return (pin 7) conforming with AISG |
| Logical interface ²⁾ | Command set conforming to 3GPP/AISG 2.0 or AISG 1.1 |
| Logical interface ex factory ³⁾ | Conforming to AISG 1.1 |
| Adjustment time (full range) | 40 seconds (typical, depending on antenna type) |
| Adjustment cycles | >50,000 |
| Temperature range | -40°C to +60°C |
| Protection class | IP 24 |
| Housing material | Profile: Aluminum, coated Cover: Zinc diecast, coated varnished housing (RAL 7035, light gray) |
| Weight | 1.16 lb (525 g) (without daisy chain termination) |
| Dimensions | 7.6 x 2.4 x 2 inches (194 x 60 x 50 mm) (with daisy chain termination) |
| Shipping dimensions | 9.6 x 4 x 3.7 inches (245 x 102 x 93 mm) |
| Standards | EN 60950-1 (Safety) EN 55022 (Emission) EN 55024 (Immunity) ETS 300019-1-4 (Environmental) UL 60950-1; 1 st edition |
| Certifications | CE, UL FCC 15.107 Class B |

Order Information:

| Model | Description |
|-----------|--|
| 860-10025 | Remote control unit with daisy chain termination |



860 10025
Remote Control Unit



¹⁾ The tightening torque for attaching the connector must be 0.5–1.0 Nm (hand tightened).

²⁾ The protocol of the logical interface can be switched from AISG 1.1 to 3GPP/AISG 2.0 and vice versa with a vendor specific command. Please contact Kathrein for further information.

³⁾ **Please note:** Ex factory, the communication protocol of the RCU (type-no. 860 10025) is **preset to AISG 1.1**. Therefore, start-up operation is only possible in an RET system supporting AISG 1.1. If the RET system supports 3GPP/AISG 2.0, the RCU must be set to 3GPP/AISG 2.0 before installation (i.e. with Kathrein PCA 860 10046) Please contact Kathrein for further information.



All specifications are subject to change without notice.
The latest specifications are available at www.kathrein-scala.com.



Exhibit B

Power Density Calculations

MetroPCS Site NLD0059A

154 Sayle Ave.

Putnam, Connecticut

Site Name: SBA SAYLE AVE PUTNAM
 Antenna Height: MetroPCS @ 124 Ft.

| Control Number | Site | Carrier | # Channels | ERP/Ch | Ant Ht | Power Density (mW/cm2 MHz) | S | % MPE | Site Total |
|-----------------------|---------------------------|------------|------------|--------|--------|----------------------------|------|--------|------------|
| EM-CING-116-081202 | Putnam - 154 Sayle Avenue | Cingular U | 1 | 500 | 134 | 0.0100 | 880 | 0.5867 | 1.71% |
| EM-CING-116-081202 | Putnam - 154 Sayle Avenue | Cingular G | 4 | 296 | 134 | 0.0237 | 880 | 0.5867 | 4.04% |
| EM-CING-116-081202 | Putnam - 154 Sayle Avenue | Cingular G | 2 | 427 | 134 | 0.0171 | 1900 | 1.0000 | 1.71% |
| EM-BAM-116-990701 | Putnam - 154 Sayle Avenue | Sprint | 11 | 122 | 175 | 0.0158 | 1962 | 1.0000 | 1.58% |
| EM-BAM-116-990701 | Putnam - 154 Sayle Avenue | Nextel | 9 | 100 | 159 | 0.0128 | 858 | 0.5720 | 2.24% |
| EM-VER-006-116-070131 | Putnam - 154 Sayle Avenue | Verizon | 3 | 485 | 146 | 0.0245 | 1970 | 1.0000 | 2.45% |
| EM-VER-006-116-070131 | Putnam - 154 Sayle Avenue | Verizon | 9 | 200 | 146 | 0.0304 | 875 | 0.5833 | 5.21% |
| EM-CING-116-010418 | Putnam - 154 Sayle Avenue | SNET | 19 | 100 | 135 | 0.0375 | 880 | 0.5867 | 6.39% |
| TS-VStream-116-010530 | Putnam - 154 Sayle Avenue | VoiceStre | 4 | 277 | 187 | 0.0114 | 1930 | 1.0000 | 1.14% |
| | Putnam - 154 Sayle Avenue | MetroPCS | 3 | 443.61 | 124 | 0.0311 | 2140 | 1.0000 | 3.11% |
| | | | | | | | | | 29.57% |

* Source: Siting Council

Exhibit C

Structural Analysis

MetroPCS Site NLD0059A

154 Sayle Ave.

Putnam, Connecticut

June 11, 2009

Mr. Shawn Nottage
SBA Network Services
18 Ballou Street, #7
Putnam, CT 06260
(860) 816-6608

Subject: Structural Analysis Report
Metro PCS Co-Locate
SBA Site Name: Putnam, CT
SBA Site Number: CT00680-S
175' Nudd M-200 Monopole Tower
Vertical Structures Job Number: 2009-007-017

Dear Mr. Nottage,

Vertical Structures is pleased to provide you with the results of the structural analysis performed on the 175' tall monopole tower at the Putnam site in Connecticut. The purpose of the analysis was to determine the suitability of the tower upon adding six (6) proposed Kathrein 742 351 panel antennas mounted on three (3) proposed T-arms at 124' for Metro PCS when combined with the existing and reserved equipment on the structure. This analysis has been performed in accordance with the TIA/EIA-222-F standard and local code requirements based upon an 85 MPH basic "fastest mile" wind speed, equivalent to a 100 MPH basic "3-second gust" wind speed per 2006 IBC Equation 16-34.

Based on our analysis we have determined the tower superstructure and foundation are sufficient for the proposed loading.

Vertical Structures appreciates the opportunity to provide this report and our continuing professional services. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "K. Meehan", is written over the typed name.

Kyle Meehan, P.E.
Project Engineer



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| Table 2 – Original Design Loads | 4 |
| ANALYSIS PROCEDURE | 4 |
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| APPENDIX B Cable Routing Drawing | |

INTRODUCTION

The subject tower is located in Putnam, Connecticut. The 175' Nudd M-200 monopole tower was designed and manufactured in 1998 for SBA. The tower consists of five (5) 12-sided tapered polygonal sections joined via slip joint connections. The tower is founded on a 34' square by 4' thick mat foundation bearing approximately 2.5' below grade. The tower was reworked in 2002 and 2007 to accommodate additional loading.

ANALYSIS CRITERIA

The Putnam monopole tower was analyzed in accordance with the current EIA-222-F publication, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures." The proposed, existing, and reserved antennas, lines, and mounts considered in this analysis are listed in Table 1. The applied forces for this analysis were derived from an 85 MPH basic wind speed with no ice accumulation and a reduced 74 MPH basic wind speed with a 1/2" of radial ice accumulation. The tower was originally designed for an 85 MPH basic wind speed with no ice accumulation and a reduced 74 MPH basic wind speed with a 1/2" of radial ice accumulation. The original design loads are listed in Table 2. All cables are assumed to be routed in accordance with the drawing in Appendix B.

Table 1 – Proposed, Existing, and Reserved Loads

| Mount Elevation | Carrier Name | Status | Antennas | Mounts | Feedlines |
|-----------------|------------------|----------|----------------------------------|-----------------------|-----------------------------------|
| 187' | T-Mobile | Existing | (3) EMS DR65-18-02DP Panels | (3) 10' x 4" Pipes | (12) 1 5/8" Coax |
| 175' | Sprint | Existing | (6) Decibel DB980H90 Panels | (1) 14' L.P. Platform | (6) 1 5/8" Coax |
| 159' | Nextel | Existing | (9) Decibel DB844H90E-XY Panels | (1) 14' L.P. Platform | (9) 1 1/4" Coax |
| 146' | Verizon Wireless | Existing | (6) Decibel DB844H80-XY Panels | (1) 14' L.P. Platform | (12) 1 5/8" Coax |
| | | Reserved | (6) Antel LPA-185080/12CF Panels | | |
| | | Existing | (1) GPS Antenna | | (1) 1/2" Coax |
| 134' | AT&T Mobility | Existing | (6) Powerwave 7770 Panels | (1) 14' L.P. Platform | (12) 1 5/8" Coax |
| | | | (6) Powerwave LGP21401 TMAs | | |
| | | | (6) Powerwave LGP21901 Diplexers | | |
| 124' | Metro PCS | Proposed | (6) Kathrein 742 351 Panels | (3) 12'-6" T-Arms | (12) 1 5/8" Coax (1) 3/8" Coax |
| 54' | | Existing | (1) GPS Antenna | (1) 4' Sidearm | (1) 1/2" Coax |

Table 2 – Original Design Loads

| Mount Elevation | Carrier Name | Status | Antennas | Mounts | Feedlines |
|-----------------|--------------|--------|--------------------------|-----------------------|-----------------|
| 175' | Co-Lo | Design | (9) Decibel DB896 Panels | (1) 14' L.P. Platform | (9) 1 5/8" Coax |
| 165' | Co-Lo | Design | (9) Decibel DB896 Panels | (1) 14' L.P. Platform | (9) 1 5/8" Coax |
| 155' | Co-Lo | Design | (9) Decibel DB896 Panels | (1) 14' L.P. Platform | (9) 1 5/8" Coax |
| 145' | Co-Lo | Design | (9) Decibel DB896 Panels | (1) 14' L.P. Platform | (9) 1 5/8" Coax |

ANALYSIS PROCEDURE

Table 3 – Resources Utilized

| Resource | Remarks |
|--------------------------|---|
| Proposed Loads | SBA E-mail Communication Dated June 1, 2009 |
| Existing Loads | Vertical Structures Site Visit and SBA E-mails Dated October 30, 2006 and November 29, 2006 |
| Tower Drawing | Nudd Drawing No. 98-6220-1 |
| Foundation Drawing | Nudd Drawing No. 98-6220-2 |
| Geotechnical Information | Jaworski Geotech Project No. C98291G |
| Rework Drawings | o2wireless Job No. 2230-019 |
| Rework Drawings | Vertical Structures Job No. 2007-007-001 |

Analysis Methods

RISA Tower (Version 5.3), a commercially available software program, was used to create a three-dimensional model of the tower and calculate member stresses for various dead, live, wind, and ice load cases. All loads were computed in accordance with the ANSI/TIA/EIA-222-F or the local building code requirements. Selected output from the analysis is included in Appendix A.

Assumptions

1. Tower and structures were built in accordance with the manufacturer's specifications.
2. The tower and structures have been maintained in accordance with manufacturer's specifications.
3. The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Table 1 and any referenced drawings.
4. When applicable, transmission cables are considered to be structural components for calculating wind loads, as allowed by TIA/EIA-222-F.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and Vertical Structures should be allowed to review any new information to determine its effect on the structural integrity of the tower.

ANALYSIS RESULTS

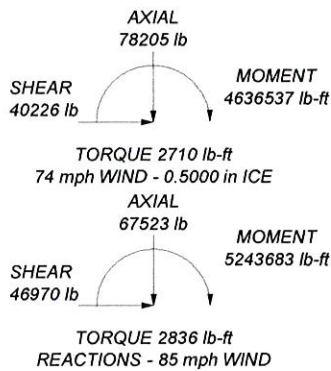
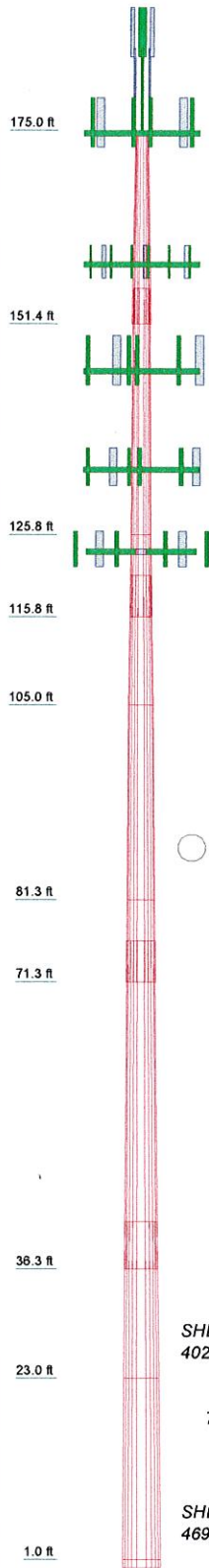
The Putnam tower superstructure is found to be adequate for the intended loading at the wind and ice conditions considered. Calculated foundation reactions are within the allowable limits based on the provided soil information. Table 4 summarizes the condition of the tower. Capacities up to 100% are considered acceptable based on the analysis procedures used.

Table 4 –Tower Component Capacities

| Section Number | Elevation | Percent Capacity Used | | |
|------------------------|-----------------|-----------------------|--------------|--------------|
| | | Pole | Flange Plate | Splice Bolts |
| 1 | 175' – 151.4' | 28.9 | - | - |
| 2 – 3 | 151.4' – 115.8' | 98.9 | - | - |
| 4 – 6 | 115.8' – 71.3' | 84.4 | - | - |
| 7 | 71.3' – 36.3' | 97.8 | - | - |
| 8-10 | 36.3' – 0' | 98.5 | - | - |
| Anchor Bolts – Tension | | 93.8 | | |
| Base Plate and Gussets | | 94.2 | | |
| Foundation – Moment | | 64.0 | | |

APPENDIX A

| Section | Length (ft) | Number of Sides | Thickness (in) | Lap Splice (ft) | Top Dia (in) | Bot Dia (in) | Grade | Weight (lb) |
|---------|-------------|-----------------|----------------|-----------------|--------------|--------------|---------|-------------|
| 1 | 23.58 | 12 | 0.2500 | 4.33 | 18.0000 | 27.0795 | A572-65 | 1439.9 |
| 2 | 30.00 | 12 | 0.2500 | | 24.9113 | 28.5996 | A572-65 | 2178.1 |
| 3 | 10.00 | 12 | 0.3125 | 5.00 | 28.5996 | 32.2617 | A572-65 | 1031.3 |
| 4 | 15.75 | 12 | 0.5000 | | 29.8056 | 35.9242 | A572-65 | 2792.6 |
| 5 | 23.75 | 12 | 0.5131 | | 35.9242 | 39.8928 | A572-65 | 4993.2 |
| 6 | 10.00 | 12 | 0.5055 | 5.00 | 39.8928 | 41.1691 | A572-60 | 2216.9 |
| 7 | 40.00 | 12 | 0.5375 | | 39.5200 | 47.3198 | A572-60 | 10102.0 |
| 8 | 19.00 | 12 | 0.7156 | 5.75 | 45.1236 | 49.3195 | A572-55 | 6928.3 |
| 9 | 22.00 | 12 | 0.6590 | | 49.3195 | 53.7965 | A572-55 | 8085.5 |
| 10 | 1.00 | 12 | 1.4180 | | 53.7965 | 54.0000 | A572-55 | 405639.5 |



DESIGNED APPURTENANCE LOADING

| TYPE | ELEVATION | TYPE | ELEVATION |
|-------------------------------------|-----------|---------------------------------------|-----------|
| DR65-18-02DP | 175 | (2) LPA-185080/12CF w/ mount pipe | 146 |
| DR65-18-02DP | 175 | (2) LPA-185080/12CF w/ mount pipe | 146 |
| DR65-18-02DP | 175 | (2) LGP 21901 Diplexer (VSI) | 134 |
| 10'x4" Pipe Mount | 175 | (2) LGP 21901 Diplexer (VSI) | 134 |
| 10'x4" Pipe Mount | 175 | (2) LGP 21901 Diplexer (VSI) | 134 |
| 10'x4" Pipe Mount | 175 | Nudd 14' Low Profile Platform (VSI) | 134 |
| (2) DB980H90 w/Pipe Mount | 175 | (2) 7770.00 w/ mount pipe | 134 |
| (2) DB980H90 w/Pipe Mount | 175 | (2) 7770.00 w/ mount pipe | 134 |
| (2) DB980H90 w/Pipe Mount | 175 | (2) 7770.00 w/ mount pipe | 134 |
| Nudd 14' Low Profile Platform (VSI) | 175 | (2) LGP21401 TMA (VSI) | 134 |
| (2) 8'x2" Antenna Mount Pipe | 175 | (2) LGP21401 TMA (VSI) | 134 |
| (2) 8'x2" Antenna Mount Pipe | 175 | (2) LGP21401 TMA (VSI) | 134 |
| (2) 8'x2" Antenna Mount Pipe | 175 | (2) 8'x2" Antenna Mount Pipe | 134 |
| Nudd 14' Low Profile Platform (VSI) | 159 | (2) 8'x2" Antenna Mount Pipe | 134 |
| (3) DB844H90E-XY w/Mount Pipe | 159 | (2) 8'x2" Antenna Mount Pipe | 134 |
| (3) DB844H90E-XY w/Mount Pipe | 159 | 12'-6" T-Arm Mount (Metro PCS) | 124 |
| (3) DB844H90E-XY w/Mount Pipe | 159 | 12'-6" T-Arm Mount (Metro PCS) | 124 |
| 8'x2" Antenna Mount Pipe | 159 | 12'-6" T-Arm Mount (Metro PCS) | 124 |
| 8'x2" Antenna Mount Pipe | 159 | (2) 742 351 w/ Mount Pipe (Metro PCS) | 124 |
| 8'x2" Antenna Mount Pipe | 159 | (2) 742 351 w/ Mount Pipe (Metro PCS) | 124 |
| Nudd 14' Low Profile Platform (VSI) | 146 | (2) 742 351 w/ Mount Pipe (Metro PCS) | 124 |
| Generic GPS (VSI) | 146 | (2) 742 351 w/ Mount Pipe (Metro PCS) | 124 |
| (2) DB844H80-XY w/Mount Pipe | 146 | (2) 742 351 w/ Mount Pipe (Metro PCS) | 124 |
| (2) DB844H80-XY w/Mount Pipe | 146 | 4' Sidearm (2" pipe) (VSI) | 54 |
| (2) DB844H80-XY w/Mount Pipe | 146 | Generic GPS (VSI) | 54 |
| (2) LPA-185080/12CF w/ mount pipe | 146 | | |

MATERIAL STRENGTH

| GRADE | Fy | Fu | GRADE | Fy | Fu |
|---------|--------|--------|---------|--------|--------|
| A572-65 | 65 ksi | 80 ksi | A572-55 | 55 ksi | 70 ksi |
| A572-60 | 60 ksi | 75 ksi | | | |

TOWER DESIGN NOTES

1. Tower is located in Windham County, Connecticut.
2. Tower designed for a 85 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 74 mph basic wind with 0.50 in ice.
4. Deflections are based upon a 50 mph wind.
5. TOWER RATING: 98.9%

| | |
|---|---|
| Vertical Structures, Inc. 309 Spangler Drive, Suite E Richmond, KY 40475 Phone: (859) 624-8360 FAX: (859) 624-8369 | Job: Putnam, CT (CT00680-S) |
| | Project: Vertical Structures Job No. 2009-007-017 |
| | Client: SBA |
| | Code: TIA/EIA-222-F |
| | Drawn by: Kyle Meehan |
| | Date: 06/11/09 |
| | Scale: NTS |
| | Path: W:\as1\kmeehan\2009-007-017\RI\SA\Putnam, CT.eri |
| | Dwg No.: E-1 |

| | | |
|---|--|-----------------------------------|
| RISATower Vertical Structures, Inc. 309 Spangler Drive, Suite E Richmond, KY 40475 Phone: (859) 624-8360 FAX: (859) 624-8369 | Job Putnam, CT (CT00680-S) | Page 1 of 10 |
| | Project Vertical Structures Job No. 2009-007-017 | Date 16:11:22 06/11/09 |
| | Client SBA | Designed by Kyle Meehan |

Tower Input Data

There is a pole section.

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

The following design criteria apply:

Tower is located in Windham County, Connecticut.

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.

Options

| | | |
|-------------------------------------|-------------------------------------|--------------------------------------|
| Consider Moments - Legs | Distribute Leg Loads As Uniform | √ Treat Feedline Bundles As Cylinder |
| Consider Moments - Horizontals | Assume Legs Pinned | Use ASCE 10 X-Brace Ly Rules |
| Consider Moments - Diagonals | √ Assume Rigid Index Plate | √ Calculate Redundant Bracing Forces |
| Use Moment Magnification | √ Use Clear Spans For Wind Area | Ignore Redundant Members in FEA |
| √ Use Code Stress Ratios | √ Use Clear Spans For KL/r | √ SR Leg Bolts Resist Compression |
| √ Use Code Safety Factors - Guys | √ Retension Guys To Initial Tension | √ All Leg Panels Have Same Allowable |
| Escalate Ice | √ Bypass Mast Stability Checks | Offset Girt At Foundation |
| Always Use Max Kz | √ Use Azimuth Dish Coefficients | √ Consider Feedline Torque |
| Use Special Wind Profile | √ Project Wind Area of Appurt. | Include Angle Block Shear Check |
| √ Include Bolts In Member Capacity | √ Autocalc Torque Arm Areas | Poles |
| √ Leg Bolts Are At Top Of Section | √ SR Members Have Cut Ends | Include Shear-Torsion Interaction |
| √ Secondary Horizontal Braces Leg | Sort Capacity Reports By Component | Always Use Sub-Critical Flow |
| Use Diamond Inner Bracing (4 Sided) | √ Triangulate Diamond Inner Bracing | Use Top Mounted Sockets |
| Add IBC .6D+W Combination | | |

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 | 175.00-151.42 | 23.58 | 4.33 | 12 | 18.0000 | 27.0795 | 0.2500 | 1.0000 | A572-65 (65 ksi) |
| L2 | 151.42-125.75 | 30.00 | 0.00 | 12 | 24.9113 | 28.5996 | 0.2500 | 1.0000 | A572-65 (65 ksi) |
| L3 | 125.75-115.75 | 10.00 | 5.00 | 12 | 28.5996 | 32.2617 | 0.3125 | 1.2500 | A572-65 (65 ksi) |
| L4 | 115.75-105.00 | 15.75 | 0.00 | 12 | 29.8056 | 35.9242 | 0.5000 | 2.0000 | A572-65 (65 ksi) |
| L5 | 105.00-81.25 | 23.75 | 0.00 | 12 | 35.9242 | 39.8928 | 0.5131 | 2.0524 | A572-60 (60 ksi) |
| L6 | 81.25-71.25 | 10.00 | 5.00 | 12 | 39.8928 | 41.1691 | 0.5055 | 2.0220 | A572-60 |

| | | |
|---|--|-----------------------------------|
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| | Client SBA | Designed by Kyle Meehan |

| 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 |
|---------|-----------------|-------------------------|------------------------|-----------------------|-----------------------|--------------------------|-------------------------|----------------------|---------------------|
| L7 | 71.25-36.25 | 40.00 | 5.75 | 12 | 39.5200 | 47.3198 | 0.5375 | 2.1500 | (60 ksi) A572-60 |
| L8 | 36.25-23.00 | 19.00 | 0.00 | 12 | 45.1236 | 49.3195 | 0.7156 | 2.8624 | (60 ksi) A572-55 |
| L9 | 23.00-1.00 | 22.00 | 0.00 | 12 | 49.3195 | 53.7965 | 0.6590 | 2.6360 | (55 ksi) A572-55 |
| L10 | 1.00-0.00 | 1.00 | | 12 | 53.7965 | 54.0000 | 1.4180 | 5.6720 | (55 ksi) A572-55 |

Tapered Pole Properties

| Section | Tip Dia. in | Area in ² | <i>I</i> in ⁴ | <i>r</i> in | <i>C</i> in | <i>I/C</i> in ³ | <i>J</i> in ⁴ | <i>I_t/Q_t</i> in ³ | <i>w</i> in | <i>w/t</i> |
|---------|----------------|-------------------------|-----------------------------|----------------|----------------|-------------------------------|-----------------------------|---|----------------|------------|
| L1 | 18.6350 | 14.2888 | 574.6149 | 6.3545 | 9.3240 | 61.6275 | 1164.3256 | 7.0325 | 4.1540 | 16.616 |
| | 28.0348 | 21.5977 | 1984.3559 | 9.6050 | 14.0272 | 141.4651 | 4020.8431 | 10.6298 | 6.5873 | 26.349 |
| L2 | 26.3416 | 19.8523 | 1541.0937 | 8.8287 | 12.9040 | 119.4272 | 3122.6736 | 9.7707 | 6.0062 | 24.025 |
| | 29.6085 | 22.8214 | 2341.1097 | 10.1492 | 14.8146 | 158.0274 | 4743.7230 | 11.2320 | 6.9947 | 27.979 |
| L3 | 29.6085 | 28.4639 | 2907.0751 | 10.1268 | 14.8146 | 196.2306 | 5890.5222 | 14.0091 | 6.8272 | 21.847 |
| | 33.3998 | 32.1489 | 4188.6282 | 11.4378 | 16.7116 | 250.6425 | 8487.2962 | 15.8227 | 7.8086 | 24.988 |
| L4 | 32.8680 | 47.1821 | 5172.0827 | 10.4914 | 15.4393 | 334.9942 | 10480.0417 | 23.2216 | 6.6479 | 13.296 |
| | 37.1915 | 57.0330 | 9135.0721 | 12.6819 | 18.6087 | 490.9024 | 18510.1327 | 28.0699 | 8.2877 | 16.575 |
| L5 | 37.1915 | 58.5056 | 9364.0148 | 12.6772 | 18.6087 | 503.2053 | 18974.0326 | 28.7947 | 8.2526 | 16.084 |
| | 41.3001 | 65.0624 | 12878.3744 | 14.0979 | 20.6645 | 623.2134 | 26095.0780 | 32.0217 | 9.3162 | 18.157 |
| L6 | 41.3001 | 64.1111 | 12694.9681 | 14.1007 | 20.6645 | 614.3379 | 25723.4472 | 31.5535 | 9.3365 | 18.47 |
| | 42.6214 | 66.1885 | 13969.4869 | 14.5576 | 21.3256 | 655.0573 | 28305.9678 | 32.5760 | 9.6786 | 19.147 |
| L7 | 41.9234 | 67.4689 | 13086.6257 | 13.9557 | 20.4713 | 639.2659 | 26517.0517 | 33.2061 | 9.1508 | 17.025 |
| | 48.9891 | 80.9685 | 22618.5624 | 16.7481 | 24.5117 | 922.7676 | 45831.3397 | 39.8502 | 11.2412 | 20.914 |
| L8 | 48.0300 | 102.3263 | 25756.9820 | 15.8981 | 23.3740 | 1101.9496 | 52190.6287 | 50.3619 | 10.1753 | 14.219 |
| | 51.0593 | 111.9947 | 33769.5684 | 17.4002 | 25.5475 | 1321.8345 | 68426.3009 | 55.1204 | 11.2998 | 15.791 |
| L9 | 51.0593 | 103.2566 | 31207.3533 | 17.4205 | 25.5475 | 1221.5423 | 63234.5585 | 50.8198 | 11.4515 | 17.377 |
| | 55.6942 | 112.7567 | 40637.8376 | 19.0232 | 27.8666 | 1458.2998 | 82343.2764 | 55.4954 | 12.6513 | 19.198 |
| L10 | 55.6942 | 239.1581 | 83748.5360 | 18.7515 | 27.8666 | 3005.3388 | 169697.239 | 117.7064 | 10.6172 | 7.487 |
| | 55.9049 | 240.0873 | 84728.4683 | 18.8244 | 27.9720 | 3029.0458 | 171682.847 | 118.1637 | 10.6718 | 7.526 |

| Tower Elevation ft | Gusset Area (per face) ft ² | Gusset Thickness in | Gusset Grade | Adjust. Factor <i>A_f</i> | Adjust. Factor <i>A_r</i> | Weight Mult. | Double Angle Stitch Bolt Spacing Diagonals in | Double Angle Stitch Bolt Spacing Horizontals in |
|--------------------------|---|---------------------------|--------------|--|--|--------------|---|---|
| L1 175.00-151.42 | | | | 1 | 1 | 1 | | |
| L2 151.42-125.75 | | | | 1 | 1 | 1 | | |
| L3 125.75-115.75 | | | | 1 | 1 | 1 | | |
| L4 115.75-105.00 | | | | 1 | 1 | 1 | | |
| L5 105.00-81.25 | | | | 1 | 1 | 1 | | |
| L6 81.25-71.25 | | | | 1 | 1 | 1 | | |
| L7 71.25-36.25 | | | | 1 | 1 | 1 | | |
| L8 36.25-23.00 | | | | 1 | 1 | 1 | | |

| | | |
|---|--|-----------------------------------|
| RISATower Vertical Structures, Inc. 309 Spangler Drive, Suite E Richmond, KY 40475 Phone: (859) 624-8360 FAX: (859) 624-8369 | Job Putnam, CT (CT00680-S) | Page 3 of 10 |
| | Project Vertical Structures Job No. 2009-007-017 | Date 16:11:22 06/11/09 |
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| Tower Elevation | Gusset Area (per face) | Gusset Thickness | Gusset Grade | Adjust. Factor A_f | Adjust. Factor A_r | Weight Mult. | Double Angle Stitch Bolt Spacing Diagonals | Double Angle Stitch Bolt Spacing Horizontals |
|-----------------|------------------------|------------------|--------------|----------------------|----------------------|--------------|--|--|
| ft | ft ² | in | | | | | in | in |
| L9 23.00-1.00 | | | | 1 | 1 | 1 | | |
| L10 1.00-0.00 | | | | 1 | 1 | 1 | | |

Feed Line/Linear Appurtenances - Entered As Area

| Description | Face or Leg | Allow Shield | Component Type | Placement | Total Number | | $C_A A_A$ | Weight |
|-----------------------------------|-------------|--------------|--------------------|----------------|--------------|----------|---------------------|--------|
| | | | | ft | | | ft ² /ft | plf |
| LDF7-50A (1-5/8 FOAM) | C | No | Inside Pole | 175.00 - 6.00 | 12 | No Ice | 0.00 | 0.82 |
| LDF7-50A (1-5/8 FOAM) | C | No | Inside Pole | 175.00 - 6.00 | 6 | 1/2" Ice | 0.00 | 0.82 |
| LDF6-50A (1-1/4 FOAM) | C | No | Inside Pole | 159.00 - 6.00 | 9 | No Ice | 0.00 | 0.66 |
| LDF7-50A (1-5/8 FOAM) | C | No | Inside Pole | 146.00 - 6.00 | 12 | 1/2" Ice | 0.00 | 0.82 |
| LDF7-50A (1-5/8 FOAM) | C | No | Inside Pole | 134.00 - 6.00 | 12 | No Ice | 0.00 | 0.82 |
| LDF7-50A (1-5/8 FOAM) | C | No | Inside Pole | 134.00 - 6.00 | 12 | 1/2" Ice | 0.00 | 0.82 |
| LDF4-50A (1/2 FOAM) | C | No | Inside Pole | 146.00 - 6.00 | 1 | No Ice | 0.00 | 0.15 |
| LDF4-50A (1/2 FOAM) | C | No | Inside Pole | 54.00 - 6.00 | 1 | 1/2" Ice | 0.00 | 0.15 |
| (6) C10x30 Reinforcement | C | No | CaAa (Out Of Face) | 23.00 - 0.00 | 1 | No Ice | 1.52 | 180.00 |
| (3) C10x30 Reinforcement | C | No | CaAa (Out Of Face) | 86.00 - 23.00 | 1 | 1/2" Ice | 1.77 | 187.10 |
| (3) C10x15.3 Reinforcement | C | No | CaAa (Out Of Face) | 105.00 - 86.00 | 1 | No Ice | 1.01 | 90.00 |
| (3) C10x15.3 Reinforcement | C | No | CaAa (Out Of Face) | 105.00 - 86.00 | 1 | 1/2" Ice | 1.18 | 93.50 |
| LDF7-50A (1-5/8 FOAM) (Metro PCS) | C | No | CaAa (Out Of Face) | 124.00 - 6.00 | 12 | No Ice | 0.87 | 45.90 |
| LDF7-50A (1-5/8 FOAM) (Metro PCS) | C | No | CaAa (Out Of Face) | 124.00 - 6.00 | 12 | 1/2" Ice | 1.02 | 49.40 |
| LDF7-50A (1-5/8 FOAM) (Metro PCS) | C | No | CaAa (Out Of Face) | 124.00 - 6.00 | 12 | No Ice | 0.03 | 0.82 |
| LDF7-50A (1-5/8 FOAM) (Metro PCS) | C | No | CaAa (Out Of Face) | 124.00 - 6.00 | 12 | 1/2" Ice | 0.05 | 2.33 |
| LDF2-50A (3/8 FOAM) (Metro PCS) | C | No | CaAa (Out Of Face) | 124.00 - 6.00 | 1 | No Ice | 0.00 | 0.08 |
| LDF2-50A (3/8 FOAM) (Metro PCS) | C | No | CaAa (Out Of Face) | 124.00 - 6.00 | 1 | 1/2" Ice | 0.00 | 0.65 |

Feed Line/Linear Appurtenances Section Areas

| Tower Section | Tower Elevation | Face | A_R | A_F | $C_A A_A$ | $C_A A_A$ | Weight |
|---------------|-----------------|------|-----------------|-----------------|-----------|-----------|--------|
| | ft | | ft ² | ft ² | In Face | Out Face | lb |
| L1 | 175.00-151.42 | A | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 393.13 |
| L2 | 151.42-125.75 | A | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 814.78 |
| L3 | 125.75-115.75 | A | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| L4 | 115.75-105.00 | A | 0.000 | 0.000 | 0.000 | 3.267 | 487.14 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| L5 | 105.00-81.25 | A | 0.000 | 0.000 | 0.000 | 4.257 | 542.34 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |

| | | | | |
|---|----------------|--|--------------------|-------------------|
| RISATower Vertical Structures, Inc. 309 Spangler Drive, Suite E Richmond, KY 40475 Phone: (859) 624-8360 FAX: (859) 624-8369 | Job | Putnam, CT (CT00680-S) | Page | 4 of 10 |
| | Project | Vertical Structures Job No. 2009-007-017 | Date | 16:11:22 06/11/09 |
| | Client | SBA | Designed by | Kyle Meehan |

| Tower Section | Tower Elevation ft | Face | A_R ft ² | A_F ft ² | C_{AA} In Face ft ² | C_{AA} Out Face ft ² | Weight lb |
|---------------|-----------------------|------|--------------------------|--------------------------|--|---|--------------|
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | 0.000 | 0.000 | 0.000 | 30.733 | 2497.79 |
| L6 | 81.25-71.25 | A | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | 0.000 | 0.000 | 0.000 | 14.060 | 1404.50 |
| L7 | 71.25-36.25 | A | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | 0.000 | 0.000 | 0.000 | 49.210 | 4918.41 |
| L8 | 36.25-23.00 | A | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | 0.000 | 0.000 | 0.000 | 18.630 | 1862.95 |
| L9 | 23.00-1.00 | A | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | 0.000 | 0.000 | 0.000 | 40.172 | 4820.20 |
| L10 | 1.00-0.00 | A | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | 0.000 | 0.000 | 0.000 | 1.520 | 180.00 |

Feed Line/Linear Appurtenances Section Areas - With Ice

| Tower Section | Tower Elevation ft | Face or Leg | Ice Thickness in | A_R ft ² | A_F ft ² | C_{AA} In Face ft ² | C_{AA} Out Face ft ² | Weight lb |
|---------------|-----------------------|-------------------|------------------------|--------------------------|--------------------------|--|---|--------------|
| L1 | 175.00-151.42 | A | 0.500 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | | 0.000 | 0.000 | 0.000 | 0.000 | 393.13 |
| L2 | 151.42-125.75 | A | 0.500 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | | 0.000 | 0.000 | 0.000 | 0.000 | 814.78 |
| L3 | 125.75-115.75 | A | 0.500 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | | 0.000 | 0.000 | 0.000 | 4.916 | 641.86 |
| L4 | 115.75-105.00 | A | 0.500 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | | 0.000 | 0.000 | 0.000 | 6.406 | 743.94 |
| L5 | 105.00-81.25 | A | 0.500 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | | 0.000 | 0.000 | 0.000 | 39.138 | 3026.31 |
| L6 | 81.25-71.25 | A | 0.500 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | | 0.000 | 0.000 | 0.000 | 17.759 | 1627.04 |
| L7 | 71.25-36.25 | A | 0.500 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | | 0.000 | 0.000 | 0.000 | 62.157 | 5697.29 |
| L8 | 36.25-23.00 | A | 0.500 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | | 0.000 | 0.000 | 0.000 | 23.531 | 2157.81 |
| L9 | 23.00-1.00 | A | 0.500 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | | 0.000 | 0.000 | 0.000 | 49.071 | 5295.21 |
| L10 | 1.00-0.00 | A | 0.500 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | | 0.000 | 0.000 | 0.000 | 1.770 | 187.10 |

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| | Project Vertical Structures Job No. 2009-007-017 | Date 16:11:22 06/11/09 |
| | Client SBA | Designed by Kyle Meehan |

Feed Line Center of Pressure

| Section | Elevation | CP _X | CP _Z | CP _X | CP _Z |
|---------|---------------|-----------------|-----------------|-----------------|-----------------|
| | ft | in | in | Ice in | Ice in |
| L1 | 175.00-151.42 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| L2 | 151.42-125.75 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| L3 | 125.75-115.75 | -0.3799 | 0.2193 | -0.5261 | 0.3037 |
| L4 | 115.75-105.00 | -0.4511 | 0.2604 | -0.6238 | 0.3602 |
| L5 | 105.00-81.25 | -1.1936 | 0.6891 | -1.3840 | 0.7990 |
| L6 | 81.25-71.25 | -1.2896 | 0.7446 | -1.4879 | 0.8591 |
| L7 | 71.25-36.25 | -1.3194 | 0.7618 | -1.5297 | 0.8832 |
| L8 | 36.25-23.00 | -1.3504 | 0.7796 | -1.5734 | 0.9084 |
| L9 | 23.00-1.00 | -1.6618 | 0.9595 | -1.8794 | 1.0851 |
| L10 | 1.00-0.00 | -1.4753 | 0.8518 | -1.6277 | 0.9397 |

Discrete Tower Loads

| Description | Face or Leg | Offset Type | Offsets: | | Azimuth Adjustment ° | Placement ft | C _v A _v Front ft ² | C _s A _s Side ft ² | Weight lb |
|--|-------------------|---------------------------|-----------------------|------------|----------------------------|-----------------|---|--|--------------|
| | | | Horz Lateral ft | Vert ft | | | | | |
| DR65-18-02DP | A | From Centroid- Face | 1.30 | 0.00 | 0.0000 | 175.00 | No Ice | 4.28 | 25.00 |
| | | | 12.00 | 0.00 | | | 1/2" Ice | 5.35 | 68.74 |
| DR65-18-02DP | B | From Centroid- Face | 1.30 | 0.00 | 0.0000 | 175.00 | No Ice | 4.28 | 25.00 |
| | | | 12.00 | 0.00 | | | 1/2" Ice | 5.35 | 68.74 |
| DR65-18-02DP | C | From Centroid- Face | 1.30 | 0.00 | 0.0000 | 175.00 | No Ice | 4.28 | 25.00 |
| | | | 12.00 | 0.00 | | | 1/2" Ice | 5.35 | 68.74 |
| 10'x4" Pipe Mount | A | From Centroid- Face | 1.00 | 0.00 | 0.0000 | 175.00 | No Ice | 4.50 | 109.00 |
| | | | 5.00 | 0.00 | | | 1/2" Ice | 5.24 | 140.31 |
| 10'x4" Pipe Mount | B | From Centroid- Face | 1.00 | 0.00 | 0.0000 | 175.00 | No Ice | 4.50 | 109.00 |
| | | | 5.00 | 0.00 | | | 1/2" Ice | 5.24 | 140.31 |
| 10'x4" Pipe Mount | C | From Centroid- Face | 1.00 | 0.00 | 0.0000 | 175.00 | No Ice | 4.50 | 109.00 |
| | | | 5.00 | 0.00 | | | 1/2" Ice | 5.24 | 140.31 |
| (2) DB980H90 w/Pipe Mount | A | From Centroid- Leg | 4.04 | 0.00 | 0.0000 | 175.00 | No Ice | 3.62 | 106.90 |
| | | | 1.00 | 0.00 | | | 1/2" Ice | 4.48 | 140.48 |
| (2) DB980H90 w/Pipe Mount | B | From Centroid- Leg | 4.04 | 0.00 | 0.0000 | 175.00 | No Ice | 3.62 | 106.90 |
| | | | 1.00 | 0.00 | | | 1/2" Ice | 4.48 | 140.48 |
| (2) DB980H90 w/Pipe Mount | C | From Centroid- Leg | 4.04 | 0.00 | 0.0000 | 175.00 | No Ice | 3.62 | 106.90 |
| | | | 1.00 | 0.00 | | | 1/2" Ice | 4.48 | 140.48 |
| Nudd 14' Low Profile Platform (VSI) ** | C | None | | | 0.0000 | 175.00 | No Ice | 32.00 | 1350.00 |
| | | | | | | | 1/2" Ice | 42.00 | 1750.00 |
| (3) DB844H90E-XY w/Mount Pipe | A | From Centroid- Leg | 4.04 | 0.00 | 0.0000 | 159.00 | No Ice | 5.40 | 35.55 |
| | | | 0.40 | 0.00 | | | 1/2" Ice | 6.49 | 76.59 |

| | | | | |
|---|----------------|--|--------------------|-------------------|
| RISATower Vertical Structures, Inc. 309 Spangler Drive, Suite E Richmond, KY 40475 Phone: (859) 624-8360 FAX: (859) 624-8369 | Job | Putnam, CT (CT00680-S) | Page | 6 of 10 |
| | Project | Vertical Structures Job No. 2009-007-017 | Date | 16:11:22 06/11/09 |
| | Client | SBA | Designed by | Kyle Meehan |

| Description | Face or Leg | Offset Type | Offsets: Horz Lateral Vert ft ft ft | Azimuth Adjustment ° | Placement ft | C _A A ₁ Front ft ² | C _A A ₁ Side ft ² | Weight lb | |
|--|-------------|-------------------|--|-------------------------|-----------------|--|---|----------------|--------------------|
| (3) DB844H90E-XY w/Mount Pipe | B | From Centroid-Leg | 4.04 0.40 0.00 | 0.0000 | 159.00 | No Ice 1/2" Ice | 3.58 4.20 | 5.40 6.49 | 35.55 76.59 |
| (3) DB844H90E-XY w/Mount Pipe | C | From Centroid-Leg | 4.04 0.40 0.00 | 0.0000 | 159.00 | No Ice 1/2" Ice | 3.58 4.20 | 5.40 6.49 | 35.55 76.59 |
| Nudd 14' Low Profile Platform (VSI) ** | C | None | | 0.0000 | 159.00 | No Ice 1/2" Ice | 32.00 42.00 | 32.00 42.00 | 1350.00 1750.00 |
| (2) DB844H80-XY w/Mount Pipe | A | From Centroid-Leg | 3.43 2.02 1.00 | 30.0000 | 146.00 | No Ice 1/2" Ice | 3.58 4.20 | 5.63 6.73 | 35.55 77.48 |
| (2) DB844H80-XY w/Mount Pipe | B | From Centroid-Leg | 3.43 2.02 1.00 | 30.0000 | 146.00 | No Ice 1/2" Ice | 3.58 4.20 | 5.63 6.73 | 35.55 77.48 |
| (2) DB844H80-XY w/Mount Pipe | C | From Centroid-Leg | 3.43 2.02 1.00 | 30.0000 | 146.00 | No Ice 1/2" Ice | 3.58 4.20 | 5.63 6.73 | 35.55 77.48 |
| (2) LPA-185080/12CF w/ mount pipe | A | From Centroid-Leg | 3.43 2.02 1.00 | 30.0000 | 146.00 | No Ice 1/2" Ice | 3.55 3.99 | 5.99 6.94 | 32.40 72.35 |
| (2) LPA-185080/12CF w/ mount pipe | B | From Centroid-Leg | 3.43 2.02 1.00 | 30.0000 | 146.00 | No Ice 1/2" Ice | 3.55 3.99 | 5.99 6.94 | 32.40 72.35 |
| (2) LPA-185080/12CF w/ mount pipe | C | From Centroid-Leg | 3.43 2.02 1.00 | 30.0000 | 146.00 | No Ice 1/2" Ice | 3.55 3.99 | 5.99 6.94 | 32.40 72.35 |
| Nudd 14' Low Profile Platform (VSI) Generic GPS (VSI) | C | None | | 0.0000 | 146.00 | No Ice 1/2" Ice | 32.00 42.00 | 32.00 42.00 | 1350.00 1750.00 |
| | A | From Centroid-Leg | 3.43 2.02 1.00 | 0.0000 | 146.00 | No Ice 1/2" Ice | 1.40 1.70 | 1.40 1.70 | 25.00 30.00 |
| ** | | | | | | | | | |
| (2) 7770.00 w/ mount pipe | A | From Centroid-Leg | 3.64 1.62 0.00 | 25.0000 | 134.00 | No Ice 1/2" Ice | 6.22 6.77 | 4.35 5.20 | 56.90 102.99 |
| (2) 7770.00 w/ mount pipe | B | From Centroid-Leg | 3.64 1.62 0.00 | 25.0000 | 134.00 | No Ice 1/2" Ice | 6.22 6.77 | 4.35 5.20 | 56.90 102.99 |
| (2) 7770.00 w/ mount pipe | C | From Centroid-Leg | 3.64 1.62 0.00 | 25.0000 | 134.00 | No Ice 1/2" Ice | 6.22 6.77 | 4.35 5.20 | 56.90 102.99 |
| (2) LGP21401 TMA (VSI) | A | From Centroid-Leg | 3.64 1.62 0.00 | 25.0000 | 134.00 | No Ice 1/2" Ice | 1.29 1.45 | 0.36 0.48 | 14.10 21.26 |
| (2) LGP21401 TMA (VSI) | B | From Centroid-Leg | 3.64 1.62 0.00 | 25.0000 | 134.00 | No Ice 1/2" Ice | 1.29 1.45 | 0.36 0.48 | 14.10 21.26 |
| (2) LGP21401 TMA (VSI) | C | From Centroid-Leg | 3.64 1.62 0.00 | 25.0000 | 134.00 | No Ice 1/2" Ice | 1.29 1.45 | 0.36 0.48 | 14.10 21.26 |
| (2) LGP 21901 Diplexer (VSI) | A | From Centroid-Leg | 3.64 1.62 0.00 | 25.0000 | 134.00 | No Ice 1/2" Ice | 0.27 0.34 | 0.18 0.25 | 5.50 7.92 |
| (2) LGP 21901 Diplexer (VSI) | B | From Centroid-Leg | 3.64 1.62 0.00 | 25.0000 | 134.00 | No Ice 1/2" Ice | 0.27 0.34 | 0.18 0.25 | 5.50 7.92 |

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| <i>RISATower</i> <i>Vertical Structures, Inc.</i> 309 Spangler Drive, Suite E Richmond, KY 40475 Phone: (859) 624-8360 FAX: (859) 624-8369 | Job Putnam, CT (CT00680-S) | Page 7 of 10 |
| | Project Vertical Structures Job No. 2009-007-017 | Date 16:11:22 06/11/09 |
| | Client SBA | Designed by Kyle Meehan |

| <i>Description</i> | <i>Face or Leg</i> | <i>Offset Type</i> | <i>Offsets: Horz Lateral Vert</i> <i>ft ft ft</i> | <i>Azimuth Adjustment</i> <i>°</i> | <i>Placement</i> <i>ft</i> | <i>C_AA_A Front</i> <i>ft²</i> | <i>C_AA_A Side</i> <i>ft²</i> | <i>Weight</i> <i>lb</i> | |
|---|--------------------|--------------------|--|---------------------------------------|-------------------------------|--|---|----------------------------|--------------------|
| (2) LGP 21901 Diplexer (VSI) | C | From Centroid-Leg | 3.64 1.62 0.00 | 25.0000 | 134.00 | No Ice 1/2" Ice | 0.27 0.34 | 0.18 0.25 | 5.50 7.92 |
| Nudd 14' Low Profile Platform (VSI) ** | C | None | | 0.0000 | 134.00 | No Ice 1/2" Ice | 32.00 42.00 | 32.00 42.00 | 1350.00 1750.00 |
| Generic GPS (VSI) | C | From Centroid-Face | 6.00 0.00 0.00 | 0.0000 | 54.00 | No Ice 1/2" Ice | 1.40 1.70 | 1.40 1.70 | 25.00 30.00 |
| 4' Sidearm (2" pipe) (VSI) ** | C | From Centroid-Face | 4.00 0.00 0.00 | 0.0000 | 54.00 | No Ice 1/2" Ice | 0.80 1.12 | 3.20 4.48 | 60.00 90.00 |
| (2) 8'x2" Antenna Mount Pipe | A | From Centroid-Leg | 4.04 0.00 1.00 | 0.0000 | 175.00 | No Ice 1/2" Ice | 1.90 2.73 | 1.90 2.73 | 26.00 40.34 |
| (2) 8'x2" Antenna Mount Pipe | B | From Centroid-Leg | 4.04 0.00 1.00 | 0.0000 | 175.00 | No Ice 1/2" Ice | 1.90 2.73 | 1.90 2.73 | 26.00 40.34 |
| (2) 8'x2" Antenna Mount Pipe | C | From Centroid-Leg | 4.04 0.00 1.00 | 0.0000 | 175.00 | No Ice 1/2" Ice | 1.90 2.73 | 1.90 2.73 | 26.00 40.34 |
| 8'x2" Antenna Mount Pipe | A | From Centroid-Leg | 4.04 0.40 1.00 | 0.0000 | 159.00 | No Ice 1/2" Ice | 1.90 2.73 | 1.90 2.73 | 26.00 40.34 |
| 8'x2" Antenna Mount Pipe | B | From Centroid-Leg | 4.04 0.40 1.00 | 0.0000 | 159.00 | No Ice 1/2" Ice | 1.90 2.73 | 1.90 2.73 | 26.00 40.34 |
| 8'x2" Antenna Mount Pipe | C | From Centroid-Leg | 4.04 0.40 1.00 | 0.0000 | 159.00 | No Ice 1/2" Ice | 1.90 2.73 | 1.90 2.73 | 26.00 40.34 |
| (2) 8'x2" Antenna Mount Pipe | A | From Centroid-Leg | 3.64 1.62 1.00 | 0.0000 | 134.00 | No Ice 1/2" Ice | 1.90 2.73 | 1.90 2.73 | 26.00 40.34 |
| (2) 8'x2" Antenna Mount Pipe | B | From Centroid-Leg | 3.64 1.62 1.00 | 0.0000 | 134.00 | No Ice 1/2" Ice | 1.90 2.73 | 1.90 2.73 | 26.00 40.34 |
| (2) 8'x2" Antenna Mount Pipe | C | From Centroid-Leg | 3.64 1.62 1.00 | 0.0000 | 134.00 | No Ice 1/2" Ice | 1.90 2.73 | 1.90 2.73 | 26.00 40.34 |
| ** 12'-6" T-Arm Mount (Metro PCS) | A | From Centroid-Leg | 4.25 0.00 0.00 | 0.0000 | 124.00 | No Ice 1/2" Ice | 8.33 10.31 | 4.00 4.95 | 200.00 250.00 |
| 12'-6" T-Arm Mount (Metro PCS) | B | From Centroid-Leg | 4.25 0.00 0.00 | 0.0000 | 124.00 | No Ice 1/2" Ice | 8.33 10.31 | 4.00 4.95 | 200.00 250.00 |
| 12'-6" T-Arm Mount (Metro PCS) | C | From Centroid-Leg | 4.25 0.00 0.00 | 0.0000 | 124.00 | No Ice 1/2" Ice | 8.33 10.31 | 4.00 4.95 | 200.00 250.00 |
| (2) 742 351 w/ Mount Pipe (Metro PCS) | A | From Centroid-Leg | 6.25 0.00 0.00 | 0.0000 | 124.00 | No Ice 1/2" Ice | 6.06 6.52 | 2.92 3.54 | 48.05 86.61 |
| (2) 742 351 w/ Mount Pipe (Metro PCS) | B | From Centroid-Leg | 6.25 0.00 0.00 | 0.0000 | 124.00 | No Ice 1/2" Ice | 6.06 6.52 | 2.92 3.54 | 48.05 86.61 |
| (2) 742 351 w/ Mount Pipe | C | From | 6.25 | 0.0000 | 124.00 | No Ice | 6.06 | 2.92 | 48.05 |

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|---|--|-----------------------------------|
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| | Project Vertical Structures Job No. 2009-007-017 | Date 16:11:22 06/11/09 |
| | Client SBA | Designed by Kyle Meehan |

| Description | Face or Leg | Offset Type | Offsets: Horz Lateral Vert ft ft ft | Azimuth Adjustment ° | Placement ft | C _A A _A Front ft ² | C _A A _A Side ft ² | Weight lb |
|-------------|-------------|--------------|--|-------------------------|-----------------|--|---|--------------|
| (Metro PCS) | | Centroid-Leg | 0.00 0.00 | | 1/2" Ice | 6.52 | 3.54 | 86.61 |

Compression Checks

Pole Design Data

| Section No. | Elevation ft | Size | L ft | L _u ft | Kl/r | F _a ksi | A in ² | Actual P lb | Allow. P _a lb | Ratio P P _a |
|-------------|----------------------|--------------------------|---------|----------------------|------|-----------------------|----------------------|----------------|-----------------------------|---------------------------|
| L1 | 175 - 151.417 (1) | TP27.0795x18x0.25 | 23.58 | 0.00 | 0.0 | 39.000 | 20.2548 | -4490.84 | 789939.00 | 0.006 |
| L2 | 151.417 - 125.75 (2) | TP28.5996x24.9113x0.25 | 30.00 | 0.00 | 0.0 | 39.000 | 22.8214 | -10890.30 | 890035.00 | 0.012 |
| L3 | 125.75 - 115.75 (3) | TP32.2617x28.5996x0.3125 | 10.00 | 0.00 | 0.0 | 39.000 | 30.3064 | -12430.70 | 1181950.00 | 0.011 |
| L4 | 115.75 - 105 (4) | TP35.9242x29.8056x0.5 | 15.75 | 0.00 | 0.0 | 39.000 | 57.0330 | -16623.90 | 2224290.00 | 0.007 |
| L5 | 105 - 81.25 (5) | TP39.8928x35.9242x0.5131 | 23.75 | 0.00 | 0.0 | 36.000 | 65.0624 | -24324.20 | 2342250.00 | 0.010 |
| L6 | 81.25 - 71.25 (6) | TP41.1691x39.8928x0.5055 | 10.00 | 0.00 | 0.0 | 36.000 | 65.1498 | -26204.40 | 2345390.00 | 0.011 |
| L7 | 71.25 - 36.25 (7) | TP47.3198x39.52x0.5375 | 40.00 | 0.00 | 0.0 | 36.000 | 79.0279 | -41437.90 | 2845000.00 | 0.015 |
| L8 | 36.25 - 23 (8) | TP49.3195x45.1236x0.7156 | 19.00 | 0.00 | 0.0 | 33.000 | 111.9950 | -52980.70 | 3695820.00 | 0.014 |
| L9 | 23 - 1 (9) | TP53.7965x49.3195x0.659 | 22.00 | 0.00 | 0.0 | 33.000 | 112.7570 | -66496.70 | 3720970.00 | 0.018 |
| L10 | 1 - 0 (10) | TP54x53.7965x1.418 | 1.00 | 0.00 | 0.0 | 33.000 | 240.0870 | -67515.60 | 7922880.00 | 0.009 |

Pole Bending Design Data

| Section No. | Elevation ft | Size | Actual M _x lb-ft | Actual f _{bx} ksi | Allow. F _{bx} ksi | Ratio f _{bx} /F _{bx} | Actual M _y lb-ft | Actual f _{by} ksi | Allow. F _{by} ksi | Ratio f _{by} /F _{by} |
|-------------|----------------------|--------------------------|--------------------------------|-------------------------------|-------------------------------|--|--------------------------------|-------------------------------|-------------------------------|--|
| L1 | 175 - 151.417 (1) | TP27.0795x18x0.25 | 153296.67 | -14.794 | 39.000 | 0.379 | 0.00 | 0.000 | 39.000 | 0.000 |
| L2 | 151.417 - 125.75 (2) | TP28.5996x24.9113x0.25 | 671058.33 | -50.958 | 39.000 | 1.307 | 0.00 | 0.000 | 39.000 | 0.000 |
| L3 | 125.75 - 115.75 (3) | TP32.2617x28.5996x0.3125 | 795297.50 | -42.872 | 39.000 | 1.099 | 0.00 | 0.000 | 39.000 | 0.000 |
| L4 | 115.75 - 105 (4) | TP35.9242x29.8056x0.5 | 1222675.00 | -29.888 | 39.000 | 0.766 | 0.00 | 0.000 | 39.000 | 0.000 |
| L5 | 105 - 81.25 (5) | TP39.8928x35.9242x0.5131 | 1952991.67 | -37.605 | 36.000 | 1.045 | 0.00 | 0.000 | 36.000 | 0.000 |
| L6 | 81.25 - 71.25 (6) | TP41.1691x39.8928x0.5055 | 2121191.67 | -40.115 | 36.000 | 1.114 | 0.00 | 0.000 | 36.000 | 0.000 |
| L7 | 71.25 - 36.25 (7) | TP47.3198x39.52x0.5375 | 3400141.67 | -46.428 | 36.000 | 1.290 | 0.00 | 0.000 | 36.000 | 0.000 |
| L8 | 36.25 - 23 (8) | TP49.3195x45.1236x0.7156 | 4197475.67 | -38.106 | 33.000 | 1.155 | 0.00 | 0.000 | 33.000 | 0.000 |

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|---|----------------|--|--------------------|-------------------|
| RISATower Vertical Structures, Inc. 309 Spangler Drive, Suite E Richmond, KY 40475 Phone: (859) 624-8360 FAX: (859) 624-8369 | Job | Putnam, CT (CT00680-S) | Page | 9 of 10 |
| | Project | Vertical Structures Job No. 2009-007-017 | Date | 16:11:22 06/11/09 |
| | Client | SBA | Designed by | Kyle Meehan |

| Section No. | Elevation ft | Size | Actual M_x lb-ft | Actual f_{bx} ksi | Allow. F_{bx} ksi | Ratio $\frac{f_{bx}}{F_{bx}}$ | Actual M_y lb-ft | Actual f_{by} ksi | Allow. F_{by} ksi | Ratio $\frac{f_{by}}{F_{by}}$ |
|-------------|-----------------|-------------------------|--------------------------|---------------------------|---------------------------|----------------------------------|--------------------------|---------------------------|---------------------------|----------------------------------|
| L9 | 23 - 1 (9) | TP53.7965x49.3195x0.659 | 5196416.67 | -42.760 | 33.000 | 1.296 | 0.00 | 0.000 | 33.000 | 0.000 |
| L10 | 1 - 0 (10) | TP54x53.7965x1.418 | 5243683.33 | -20.774 | 33.000 | 0.630 | 0.00 | 0.000 | 33.000 | 0.000 |

Pole Interaction Design Data

| Section No. | Elevation ft | Size | Ratio | Ratio | Ratio | Comb. Stress Ratio | Allow. Stress Ratio | Criteria |
|-------------|----------------------|--------------------------|-------|----------|----------|--------------------------|---------------------------|----------|
| | | | P | f_{bx} | f_{by} | | | |
| | | | P_a | F_{bx} | F_{by} | | | |
| L1 | 175 - 151.417 (1) | TP27.0795x18x0.25 | 0.006 | 0.379 | 0.000 | 0.385 ✓ | 1.333 | H1-3 ✓ |
| L2 | 151.417 - 125.75 (2) | TP28.5996x24.9113x0.25 | 0.012 | 1.307 | 0.000 | 1.319 ✓ | 1.333 | H1-3 ✓ |
| L3 | 125.75 - 115.75 (3) | TP32.2617x28.5996x0.3125 | 0.011 | 1.099 | 0.000 | 1.110 ✓ | 1.333 | H1-3 ✓ |
| L4 | 115.75 - 105 (4) | TP35.9242x29.8056x0.5 | 0.007 | 0.766 | 0.000 | 0.774 ✓ | 1.333 | H1-3 ✓ |
| L5 | 105 - 81.25 (5) | TP39.8928x35.9242x0.5131 | 0.010 | 1.045 | 0.000 | 1.055 ✓ | 1.333 | H1-3 ✓ |
| L6 | 81.25 - 71.25 (6) | TP41.1691x39.8928x0.5055 | 0.011 | 1.114 | 0.000 | 1.125 ✓ | 1.333 | H1-3 ✓ |
| L7 | 71.25 - 36.25 (7) | TP47.3198x39.52x0.5375 | 0.015 | 1.290 | 0.000 | 1.304 ✓ | 1.333 | H1-3 ✓ |
| L8 | 36.25 - 23 (8) | TP49.3195x45.1236x0.7156 | 0.014 | 1.155 | 0.000 | 1.169 ✓ | 1.333 | H1-3 ✓ |
| L9 | 23 - 1 (9) | TP53.7965x49.3195x0.659 | 0.018 | 1.296 | 0.000 | 1.314 ✓ | 1.333 | H1-3 ✓ |
| L10 | 1 - 0 (10) | TP54x53.7965x1.418 | 0.009 | 0.630 | 0.000 | 0.638 ✓ | 1.333 | H1-3 ✓ |

Section Capacity Table

| Section No. | Elevation ft | Component Type | Size | Critical Element | P lb | SF* P_{allow} lb | % Capacity | Pass Fail | |
|-------------|------------------|-------------------|--------------------------|---------------------|-----------|-----------------------|-----------------|--------------|-------------|
| L1 | 175 - 151.417 | Pole | TP27.0795x18x0.25 | 1 | -4490.84 | 1052988.64 | 28.9 | Pass | |
| L2 | 151.417 - 125.75 | Pole | TP28.5996x24.9113x0.25 | 2 | -10890.30 | 1186416.61 | 98.9 | Pass | |
| L3 | 125.75 - 115.75 | Pole | TP32.2617x28.5996x0.3125 | 3 | -12430.70 | 1575539.28 | 83.3 | Pass | |
| L4 | 115.75 - 105 | Pole | TP35.9242x29.8056x0.5 | 4 | -16623.90 | 2964978.45 | 58.1 | Pass | |
| L5 | 105 - 81.25 | Pole | TP39.8928x35.9242x0.5131 | 5 | -24324.20 | 3122219.12 | 79.1 | Pass | |
| L6 | 81.25 - 71.25 | Pole | TP41.1691x39.8928x0.5055 | 6 | -26204.40 | 3126404.74 | 84.4 | Pass | |
| L7 | 71.25 - 36.25 | Pole | TP47.3198x39.52x0.5375 | 7 | -41437.90 | 3792384.84 | 97.8 | Pass | |
| L8 | 36.25 - 23 | Pole | TP49.3195x45.1236x0.7156 | 8 | -52980.70 | 4926527.86 | 87.7 | Pass | |
| L9 | 23 - 1 | Pole | TP53.7965x49.3195x0.659 | 9 | -66496.70 | 4960052.80 | 98.5 | Pass | |
| L10 | 1 - 0 | Pole | TP54x53.7965x1.418 | 10 | -67515.60 | 10561198.6 | 47.9 | Pass | |
| 0 | | | | | | | | | |
| | | | | | | | Summary | | |
| | | | | | | | Pole (L2) | 98.9 | Pass |
| | | | | | | | RATING = | 98.9 | Pass |

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|---|--|-----------------------------------|
| <i>RISATower</i> <i>Vertical Structures, Inc.</i> <i>309 Spangler Drive, Suite E</i> <i>Richmond, KY 40475</i> <i>Phone: (859) 624-8360</i> <i>FAX: (859) 624-8369</i> | Job Putnam, CT (CT00680-S) | Page 10 of 10 |
| | Project Vertical Structures Job No. 2009-007-017 | Date 16:11:22 06/11/09 |
| | Client SBA | Designed by Kyle Meehan |

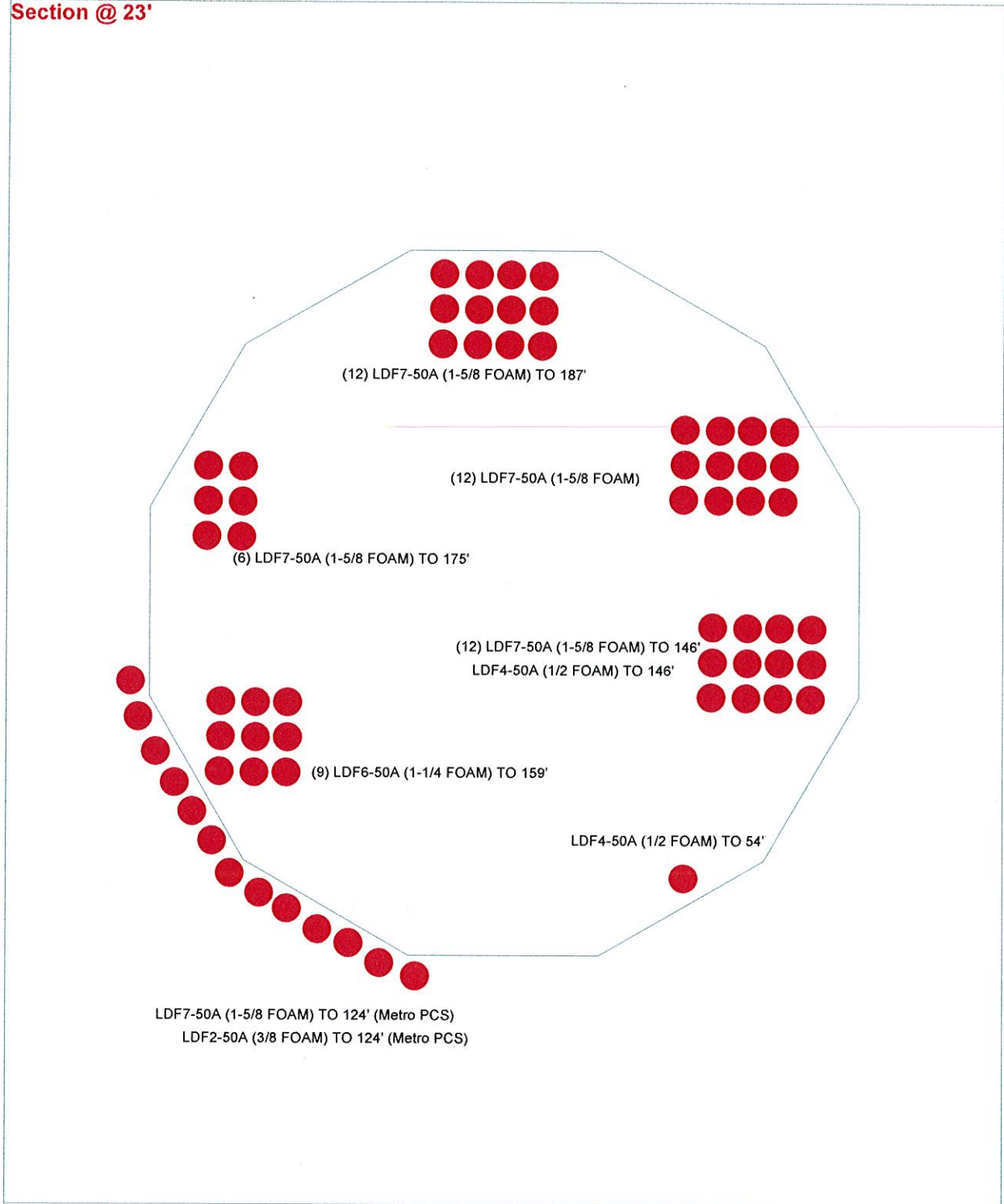
Program Version 5.3.1.0 - 10/3/2008 File://Nas1/kmeehan/2009-007-017/RISA/Putnam, CT.eri

APPENDIX B

Feedline Plan
23'

Round Flat App In Face App Out Face

Section @ 23'



| | | | |
|--|--|-----------------------|-------------|
|  <p>Vertical Structures, Inc. 309 Spangler Drive, Suite E Richmond, KY 40475 Phone: (859) 624-8360 FAX: (859) 624-8369</p> | Job: Putnam, CT (CT00680-S) | | |
| | Project: Vertical Structures Job No. 2009-007-017 | | |
| | Client: SBA | Drawn by: Kyle Meehan | App'd: |
| | Code: TIA/EIA-222-F | Date: 06/10/09 | Scale: NTS |
| | Path: \\Was1\kmeehan\2009-007-017\RISA\Putnam, CT.eri | | Dwg No. E-7 |