



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

December 29, 2015

Daniel M. Laub, Esq.
Cuddy & Feder LLP
445 Hamilton Avenue, 14th Floor
White Plains, NY 10601

RE: **EM-CING-069-130123; EM-AT&T-060-130321; EM-CING-069-130130**
EM-CING-088-130109; TS-AT&T-004-131223; TS-AT&T-069-131216
EM-CING-128-130828; EM-CING-135-130910; EM-CING-156-130531
EM-CING-086-130712; TS-AT&T-101-131108; EM-CING-158-130703
EM-CING-073-130207; TS-AT&T-143-131227; EM-CING-103-130703
EM-CING-143-130122; EM-CING-104-130819; EM-CING-158-130326
TS-AT&T-164-131114; EM-CING-074-130322; EM-CING-003-130214
EM-CING-015-130531; EM-AT&T-089-131230; EM-AT&T-051-130408
EM-AT&T-118-131030

Dear Attorney Laub:

The Connecticut Siting Council (Council) is in receipt of your letter dated December 24, 2015, submitted on behalf of New Cingular Wireless PCS, LLC (AT&T), requesting an extension of time to submit notices of completion of construction and associated post modification inspection reports for the above-referenced exempt modifications.

The Council previously granted six extension of time to submit notices of completion of construction and associated post modification inspection reports for the above-referenced exempt modifications on June 30, 2014; September 2, 2014; November 4, 2014; November 20, 2014; December 29, 2014; and February 24, 2015.

Therefore, the Council hereby denies an extension of time to submit notices of completion of construction and associated post modification inspection reports for the above-referenced exempt modifications that were approved in 2013.

Any modifications to these facilities will require explicit notice to the Council pursuant to Regulations of Connecticut State Agencies Section 16-50j-73 and a filing fee.

Thank you for your attention to this matter.

Sincerely,

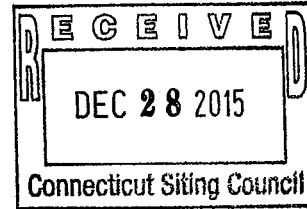
Melanie A. Bachman
Acting Executive Director

MAB/cm

December 24, 2015

VIA EMAIL & FEDEX

Melanie Bachman, Esq.
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



Re: New Cingular Wireless PCS, LLC (AT&T)
Exempt Modification/Tower Share Conditions
Notifications of Completion & Extension Requests

ORIGINAL

Dear Executive Director Bachman:

We are writing on behalf of our client, New Cingular Wireless PCS, LLC ("AT&T") with respect to the above referenced matter and the Siting Council's requests for written notification of completion of construction and/or written notice of compliance with site-specific conditions for various modification filings made by AT&T and its vendors. Specifically, this letter addresses those sites related to the year 2013, listed in the attached correspondence. It is our understanding that these are the only sites remaining from 2013 that need an extension.

Accordingly, on behalf of AT&T and their vendors, we respectfully request an additional extension of time to June 30, 2016 for completion of all remaining 2013 non-tower sites.

Thank you once again for your continued consideration in this matter. Should you have any questions regarding the foregoing please do not hesitate to contact me.

Very truly yours,

A handwritten signature in black ink, appearing to read "Daniel M. Laub". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Daniel M. Laub

Enclosures

cc: Michele Briggs, AT&T

EM/TS #	Address	Town	Council Additional Conditions	Compliance with Council Additional Conditions Received	Notice of Completion Received	Decision Date	CSC Extension Granted
EM-CING-069-130123	1375 North Road	Dayville	Yes	No	No	3/8/2013	12/31/15
EM-AT&T-060-130321	370 Rockland Road	Guilford	Yes	No	No	4/5/2013	12/31/15
EM-CING-069-130130	246 East Franklin Street	Danielson	Yes	No	No	4/15/2013	12/31/15
EM-CING-088-130109	103 Eastside Boulevard	Naugatuck	N/A	N/A	No	4/15/2013	12/31/15
TS-AT&T-004-131223	376 Deercliff Road	Avon	N/A	N/A	No	6/28/2013	12/31/15
TS-AT&T-069-131216	1249 Hartford Pike	East Killingly	N/A	N/A	No	6/28/2013	12/31/15
EM-CING-128-130828	530 Brushy Hill Road	Simsbury	N/A	N/A	No	6/28/2013	12/31/15
EM-CING-135-130910	366 Old Long Ridge Road	Stamford	Yes	No	No	6/28/2013	12/31/15
EM-CING-156-130531	1 Burwell Road	West Haven	N/A	N/A	No	6/28/2013	12/31/15
EM-CING-086-130712	334 Route 85	Montville	Yes	No	No	7/12/2013	12/31/15
TS-AT&T-101-131108	50 Devine Street	North Haven	N/A	N/A	No	7/22/2013	12/31/15
EM-CING-158-130703	515 Post Road East	Westport	N/A	N/A	No	7/22/2013	12/31/15
EM-CING-073-130207	20 Mell Road	Lisbon	Yes	No	No	7/26/2013	12/31/15
TS-AT&T-143-131227	137 Wright Road	Torrington	Yes	No	No	7/26/2013	12/31/15
EM-CING-103-130703	177 West Rocks Road	Norwalk	N/A	N/A	No	8/8/2013	12/31/15
EM-CING-143-130122	1210 Highland Avenue	Torrington	Yes	No	No	8/16/2013	12/31/15
EM-CING-104-130819	39 Maennerchor Avenue	Norwich	Yes	No	No	8/23/2013	12/31/15
EM-CING-158-130326	880 Post Road East	Westport	Yes	No	No	9/13/2013	
TS-AT&T-164-131114	599 Matianuck Avenue	Windsor	N/A	N/A	No	9/27/2013	12/31/15
EM-CING-074-130322	438 BANTAM ROAD	LITCHFIELD	Yes	No	No	11/29/2013	
EM-CING-003-130214	353 Pumpkin Hill Road	Ashford	Yes	No	No	12/13/2013	
EM-CING-015-130531	1320 Chopsey Hill Road	Bridgeport	N/A	N/A	No	12/13/2013	
EM-AT&T-089-131230	One Hartford Square	New Britain	N/A	N/A	No	12/20/2013	
EM-AT&T-051-130408	280 Morehouse Drive	Fairfield	Yes	No	No	12/27/2013	
EM-AT&T-118-131030	845 Ethan Allen Highway	RIDGEFIELD	N/A	N/A	No	12/27/2013	



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February 24, 2015

Daniel M. Laub, Esq.
Cuddy & Feder LLP
445 Hamilton Avenue, 14th Floor
White Plains, NY 10601

RE: **EM-CING-069-130123** 1375 North Rd., Dayville
EM-CING-074-130220 1291 Bantam Rd., Litchfield
EM-CING-069-130130 246 East Franklin St., Danielson
EM-CING-143-130122 1210 Highland Ave., Torrington
EM-CING-104-130819 39 Maennerchor Ave., Norwich
EM-AT&T-060-130321 370 Rockland Rd., Guilford
EM-CING-088-130109 103 Eastside Blvd., Naugatuck
EM-CING-156-130531 1 Burwell Road, West Haven
EM-CING-169-130913 40 Sherman Road, Woodstock
EM-CING-186-130712 1334 Route 85, Montville (Oakdale)
EM-CING-158-130703 515 Post Road East, Westport
EM-CING-073-130207 20 Mell Road, Lisbon
EM-CING-103-130703 177 West Rock Road, Norwalk
EM-CING-158-130703 515 Post Rd. East, Westport
EM-CING-135-130910 366 Old Long Ridge Rd., Stamford

Dear Attorney Laub:

The Connecticut Siting Council (Council) is in receipt of your letter dated February 24, 2015, submitted on behalf of AT&T/New Cingular Wireless PCS, LLC, requesting an extension of time to submit a notice of completion of construction and associated post modification inspection reports for the above-referenced exempt modifications.

The Council hereby grants an extension of time until December 31, 2015, to submit a notice of completion of construction and associated post modification inspection reports for the above-referenced exempt modifications.

This extension is granted with the understanding that the Council will be notified should AT&T/New Cingular Wireless PCS, LLC need additional time beyond 60 days to submit a notice of completion of construction and associated post modification inspection reports or decide not to proceed with construction.

Thank you for your attention to these matters.

Sincerely,

Melanie A. Bachman
Acting Executive Director

MAB/cm

February 24, 2015

VIA EMAIL & FEDEX

Melanie Bachman, Esq.
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: New Cingular Wireless PCS, LLC (AT&T)
Exempt Modification/Tower Share Conditions
Notifications of Completion & Extension Requests

Dear Executive Director Bachman:

We are writing on behalf of our client, New Cingular Wireless PCS, LLC ("AT&T") with respect to the above referenced matter and the Siting Council's requests for written notification of completion of construction and/or written notice of compliance with site specific conditions for various modification filings made by AT&T and its vendors. Specifically, this letter addresses those sites related to the year 2013, which the Council previously indicated no receipt of completion/closeout letters. This letter addresses the latest status of all remaining sites (Quarters 1-3 of 2013) on the attachment to your email dated February 3, 2015 ("February List").

Since the date of our December 24, 2014 letter, we are advised that AT&T and its vendors have filed directly with the Council the attached close out letters for the following additional sites (copies enclosed for reference):

EM-CING-097-130322	24 Dinglebrook Rd	Newtown
EM-CING-150-130625	6 Mountain Rd	Washington
EM-CING-085-130531	500 Moosehill Rd	Monroe

We are further advised by AT&T that five (5) sites are complete but due to recent weather conditions additional time is needed for site visits to finalize PE certifications to accompany the completion letters on the following sites:

EM-CING-069-130123	1375 North Rd	Dayville
EM-CING-074-130220	1291 Bantam Rd	Litchfield
EM-CING-069-130130	246 East Franklin St	Danielson
EM-CING-143-130122	1210 Highland Ave	Torrington
EM-CING-104-130819	39 Maennerchor Ave	Norwich

On AT&T and their vendors' behalf, we respectfully request an additional extension of time to December 31, 2015 for these sites to be completed. However, please note that AT&T anticipates having these certifications completed very soon, field conditions permitting.

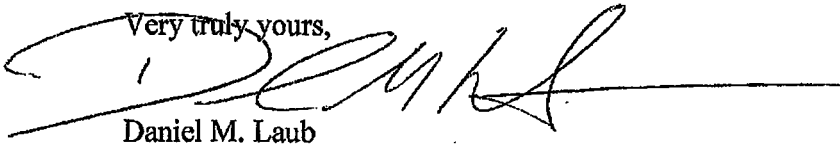
C&P: 2686635.1

Additionally, the following sites which are set to expire on March 1, 2015 continue to be addressed by AT&T but require more time for completion. We respectfully request that these also be extended to December 31, 2015:

EM-AT&T-060-130321	370 Rockland	Guilford
EM-CING-088-130109	103 Eastside Blvd	Naugatuck
EM-CING-156-130531	1 Burwell Road	West Haven
EM-CING-169-130913	40 Sherman Road	Woodstock
EM-CING-186-130712	1334 Route 85	Montville (Oakdale)
EM-CING-158-130703	515 Post Road East	Westport
EM-CING-073-130207	20 Mell Road	Lisbon
EM-CING-103-130703	177 West Rock Road	Norwalk
EM-CING-158-130703	515 Post Rd	East Westport
EM-CING-135-130910	366 Old Long Ridge Rd.	Stamford

Thank you once again for your continued consideration in this matter. Should you have any questions regarding the foregoing please do not hesitate to contact me.

Very truly yours,



Daniel M. Laub

Enclosures

cc: Michele Briggs, AT&T
Christopher B. Fisher, Esq.
AT&T Consultant Team



Melanie Bachman
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: EM-CING-097-130322 Notice of Completion of Construction for New Cingular Wireless/
AT&T facility at 24 DINGLEBROOK LANE, NEWTOWN, CT (ATT NO. CT1271)

Dear Ms. Bachman:

The purpose of this letter is to notify you that construction activity associated with the above-referenced decision has been completed.

As part of the decision conditions, the coax was installed in accordance with the recommendation of the Structural Analysis by GPD Group dated March 11, 2013.

If you have any questions or need any additional information regarding this facility, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Campbell", is written over the typed name.

Eric Campbell
SAI Communications
Agent for New Cingular Wireless/AT&T Mobility, Inc.
27 Northwestern Drive
Salem, New Hampshire 03079

Cc: Christine Vergati, Cuddy Feder (via US Mail and email)
SAI Construction (via email only)
Tim Burks, (via email only)

27 Northwestern Drive
Salem, NH 03079
603-421-0470

260 Cedar Hill Street
Marlborough, MA 01752
603-421-0470

2400 Ownby Lane
Richmond, VA 23220
804-273-9220

February 17, 2015

Mr. Eric Campbell
SAI Communications
260 Cedar Hill Street
Marlborough, Massachusetts 01752

Re: Tower Modification Certification

Project: AT&T CT1271
24 Dinglebrook Lane, Newtown, CT

Tower Owner: AT&T Towers
575 Morosgo Drive, Atlanta, GA

Engineer: GPD Group
1117 Perimeter Center West, Suite W303, Atlanta, GA

Centek Project No.: 14042.017

CSC Exempt Mod Reference No.: EM-CING-097-130322

Dear Mr. Campbell,


We are providing this "Tower Modification Certification" with regard to the structural components at the above referenced project.

The following are the basis for substantiating compliance with the tower modification documents prepared by GPD Group (GPD Project Number: 2013723.99800.01):

- Review of the GPD Group Structural Analysis dated 03/11/2013.
- Review of the GPD Group Modification Drawings T-01,N-01 ,S-01 thru S-04 and MI-01 dated 03/11/2013.
- Review of the Centek Engineering Post Modification Report dated 11/02/2013.
- Field observations by Centek Engineering personnel on 10/03/2013 of the completed modifications which determined all modifications were installed in general compliance with the recommendations of the structural analysis report prepared by GPD Group on 03/11/2013.

The modification design prepared by GPD Group demonstrates the tower will not exceed 100 percent of the post construction structural rating. The work under this Contract has been reviewed and found, to the Engineer's best knowledge, information and belief, to be completed in general compliance with the documents referenced above. This certification is not a review of the adequacy or effectiveness of the modification/reinforcement solution.

Sincerely,


Carlo F. Centore, PE
Senior Project Manager





Melanie Bachman
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: EM-CING-150-130625 Notice of Completion of Construction for New Cingular Wireless/
AT&T facility at 6 MOUNTAIN RD, WASHINGTON, CT (ATT NO. CT2550)

Dear Ms. Bachman:

The purpose of this letter is to notify you that construction activity associated with the above-referenced decision has been completed.

As part of the decision conditions, the coax was installed in accordance with the recommendation of the Structural Analysis by Centek Eng. dated May 7 and August 19, 2013.

If you have any questions or need any additional information regarding this facility, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Campbell", is written over the typed name.

Eric Campbell
SAI Communications
Agent for New Cingular Wireless/AT&T Mobility, Inc.
27 Northwestern Drive
Salem, New Hampshire 03079

Cc: Christine Vergati, Cuddy Feder (via US Mail and email)
SAI Construction (via email only)
Tim Burks, (via email only)

27 Northwestern Drive
Salem, NH 03079
603-421-0470

260 Cedar Hill Street
Marlborough, MA 01752
603-421-0470

2400 Ownby Lane
Richmond, VA 23220
804-273-9220

CEN TEK engineering

Centered on Solutions™

February 3, 2015

Mr. Eric Campbell
SAI Communications
27 Northwestern Drive
Salem, NH 03079

Re: Tower Modification Certification

Project: AT&T CT2550
6 Mountain Road, Washington, CT

Tower Owner: Verizon Wireless
99 East River Drive, East Hartford, CT

Engineer: Centek Engineering
63-2 North Branford Road, Branford, CT

Centek Project No.: 14042.011

CSC Exempt Mod Reference No.: EM-CING-150-130625

Dear Mr. Campbell,

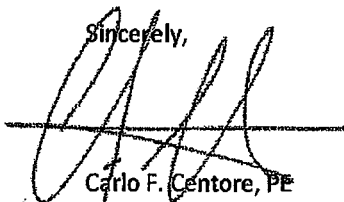
We are providing this "Tower Modification Certification" with regard to the structural components at the above referenced project.

The following are the basis for substantiating compliance with the tower modification documents prepared by Centek Engineering (Centek Project Number: 13046.000):

- Review of the Centek Engineering Structural Analysis dated 05/07/2013 Rev-1.
- Review of the Centek Engineering Structural Analysis dated 08/19/2013 Rev-3.
- Review of the Centek Engineering Reinforcement Drawings T-1, N-1, N-2, MI-1 and thru S-1 thru S-3 dated 05/07/2013.
- Review of the Centek Engineering Post Modification Inspection Report dated 01/28/2014.
- Field observations by Centek Engineering personnel on 01/27/2014 of the completed modifications which determined all modifications were installed in general compliance with the recommendations of the structural analysis report prepared by Centek Engineering on 08/19/2013 Rev-3.

The modification design prepared by this office demonstrates the tower will not exceed 100 percent of the post construction structural rating. The work under this Contract has been reviewed and found, to the Engineer's best knowledge, information and belief, to be completed in general compliance with the documents referenced above.

Sincerely,


Carlo F. Centore, PE
Senior Project Manager





Melanie Bachman
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: EM-CING-085-130531 Notice of Completion of Construction & Commencement of
Site Operations
New Cingular Wireless PCS, LLC / AT&T facility (AT&T No. CT2203) at
500 Moose Hill Road, Monroe, Connecticut

Dear Ms. Bachman:

On behalf of New Cingular Wireless PCS, LLC (AT&T), please accept this letter as our
notification of the completion of site construction and the commencement of site operations.

If you have any questions or need any additional information regarding this facility,
please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Campbell", with a long horizontal flourish extending to the right.

Eric Campbell
SAI Communications
Agent for New Cingular Wireless/AT&T Mobility, Inc.
27 Northwestern Drive
Salem, New Hampshire 03079

Cc: Melanie Bachman (via email and USPS)
Christine Vergati, Cuddy Feder (via email only)
Tim Burks, SAI (via email only)

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December 29, 2014

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

RE: EM-CING-069-130123 - 1375 North Road, Dayville
EM-AT&T-060-130321 - 370 Rockland Road, Guilford
EM-CING-074-130220 - 1291 Bantam Road, Litchfield
EM-CING-069-130130 - 246 East Franklin Street, Danielson
EM-CING-088-130109 - 103 Eastside Boulevard, Naugatuck
EM-CING-135-130910 - 366 Old Long Ridge Road, Stamford
EM-CING-156-130531 - 1 Burwell Road, West Haven
EM-CING-169-130913 - 40 Sherman Road, Woodstock
EM-CING-086-130712 - 334 Route 85, Montville
EM-CING-085-130531 - 500 Moosehill Road, Monroe
EM-CING-097-130322 - 24 Dinglebrook, Newtown
EM-CING-150-130625 - 6 Mountain Road, Washington
EM-CING-158-130703 - 515 Post Road East, Westport
EM-CING-073-130207 - 20 Mell Road, Lisbon
EM-CING-143-130122 - 1210 Highland Avenue, Torrington
EM-CING-103-130703 - 177 West Rocks Road, Norwalk
EM-CING-104-130819 - 39 Maennerchor Avenue, Norwich

Willingly

Dear Attorney Fisher:

The Connecticut Siting Council (Council) is in receipt of your letter dated December 24, 2014, submitted on behalf of AT&T/New Cingular Wireless PCS, LLC, requesting an extension of time to submit a notice of completion of construction and associated post modification inspection reports for the above-referenced exempt modifications.

The Council hereby grants a 60-day extension of time until March 1, 2015, to submit a notice of completion of construction and associated post modification inspection reports for the above-referenced exempt modifications.

This extension is granted with the understanding that the Council will be notified should AT&T/New Cingular Wireless PCS, LLC need additional time beyond 60 days to submit a notice of completion of construction and associated post modification inspection reports or decide not to proceed with construction.

Thank you for your attention to these matters.

Sincerely,

Melanie A. Bachman
Acting Executive Director

MAB/cm

December 24, 2014

VIA EMAIL & FIRST CLASS MAIL

Melanie Bachman, Esq.
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RECEIVED
DEC 26 2014

CONNECTICUT
SITING COUNCIL

Re: New Cingular Wireless PCS, LLC (AT&T)
Exempt Modification/Tower Share Conditions
Notifications of Completion & Extension Requests

ORIGINAL

Dear Executive Director Bachman:

We are writing once again behalf of our client, New Cingular Wireless PCS, LLC ("AT&T") with respect to the above referenced matter and the Siting Council's requests for written notification of completion of construction and/or written notice of compliance with site specific conditions for various exempt modification filings made by AT&T and its vendors. Specifically, this letter addresses those items related to the year 2013 which the Council has received prior correspondence individually addressing various sites approved in different quarters of calendar year 2013. For purposes of efficiency this letter addresses the latest status of all sites (Quarters 1-3) as the attachment to your letter dated November 3, 2014 ("November List") included a listing of sites from Quarters 1-3.

Quarter 1, 2013

Since the date of our October 31st letter, we are advised that AT&T and its vendors have filed directly with the council close out letters for the following additional sites:

EM-AT&T-067-131230	107 Buck Road	Hebron
EM-CING-045-130103	2 Scott Road	East Lyme
EM-CING-057-130802	Old Greenwich Sta.	Old Greenwich
EM-CING-058-121031	131 Bishop Crossing	Griswold
EM-CING-137-121031	86 Voluntown Road	Pawcatuck
EM-CING-114-121114	5 Hinckley Hill Rd.	Preston

Quarter 2, 2013

Since the date of our October 31st letter, our information reflects that AT&T and its vendors have filed directly with the council a close out letter for the following additional site:

EM-CING-106-131114 1363 Boston Post Road Old Saybrook

Additionally, we are advised by AT&T that construction has been deferred on (3) Q2 sites:

TS-AT&T-004-131223 376 Deercliff Road Avon
TS-AT&T-069-131216 1249 Hartford Pike East Killingly
EM-CING-128-130828 530 Brushy Hill Road Simsbury.

On AT&T and their vendor's behalf, we respectfully request a one-year extension of time to December 31, 2015 for these three sites to be completed in accordance with the prior Exempt Modification Acknowledgement letters.

Quarter 3, 2013

As for the Quarter 3 sites listed we are writing to confirm your receipt of correspondence from AT&T's vendors for six (6) of the Q3 sites on the list you provided, as follows:

- | | | | |
|----|--------------------|-----------------------|--------------|
| 1. | EM-CING-135-130703 | 652 Glenbrook Rd | Stamford |
| 2. | EM-CING-152-130201 | 126 Old Colchester Rd | Waterford |
| 3. | EM-CING-166-130711 | 347 East Street | Wolcott |
| 4. | EM-CING-100-130322 | 38 Lower Rd | North Canaan |
| 5. | EM-CING-084-130305 | 111 Schoolhouse Rd | Milford |
| 6. | EM-CING-031-130116 | Mowhawk Mtn. Rd | Cornwall |

Additionally, we are advised by AT&T that construction has been deferred on (3) Q3 sites:

TS-AT&T-101-131108 50 Devine Street North Haven
TS-AT&T-143-131227 137 Wright Rd Torrington
TS-AT&T-164-131114 599 Matianuck Avenue Windsor.

On AT&T and their vendor's behalf, we respectfully request a one-year extension of time to December 31, 2015 for these sites to be completed in accordance with the prior Exempt Modification Acknowledgement letters.

Process Moving Forward – Confirmation of Extensions

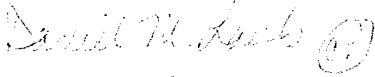
We are advised that other than the above noted deferrals AT&T's vendors are coordinating receipt of documentation from tower companies to certify compliance with conditions (i.e. P.E. certifications, etc.) for Q1, Q2 and Q3 sites. As per our recent telephone discussion, however, it appears that the Council's records do not reflect receipt of completion correspondence for sites which AT&T's vendors have a record of submitting. AT&T will revisit its records and coordinate submission of any outstanding completion correspondence with the Council.

CUDDY &
FEDER LLP

Other than the deferred sites noted above, and to the extent an extension is required for any outstanding sites as per the Council's records, we respectfully request an extension to March 1, 2015 for all sites on the November list (2013 Q1, Q2, Q3) to submit notices of completion.

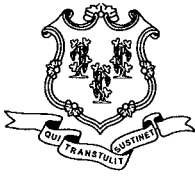
Thank you for your continued consideration in this matter.

Very truly yours,



Daniel M. Laub

cc: Michele Briggs, AT&T
Christopher B. Fisher, Esq.



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

February 20, 2013

John Lawrence
New Cingular Wireless PCS, LLC
95 Ryan Drive, Suite #1
Raynham, MA 02767

RE: **EM-CING-069-130130** – New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 246 East Franklin Street, Danielson, Connecticut.

Dear Mr. Lawrence:

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 with the following conditions:

- Prior to antenna installation, the modifications identified in the Structural Analysis Report prepared by FDH Engineering dated October 16, 2012, and stamped by Christopher Murphy and in the Modification Drawings for a 155' Monopole, also prepared by FDH Engineering, shall be implemented;
- Within 45 days following completion of the antenna installation, a signed letter from a Professional Engineer duly licensed in the State of Connecticut shall be submitted to the Council to certify that the recommended modifications have been completed and the structure and foundation do not exceed 100 percent of the post-construction structural rating.
- Any deviation from the proposed modification as specified in this 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;
- Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- 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;

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated January 25, 2013. 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. Thank you for your attention and cooperation.

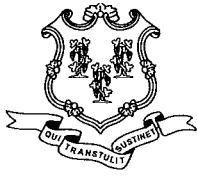
Very truly yours,



Linda Roberts
Executive Director

LR/CDM/cm

c: The Honorable Dennis Alemian, Chairman Town Council, Town of Killingly
Roger Gandolf, Zoning Officer, Town of Killingly
SBA Communications



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

January 31, 2013

The Honorable Dennis Alemian
Chairman Town Council
Town of Killingly
P. O. Box 6000
Danielson, CT 06239-6000

RE: **EM-CING-069-130130** – New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 246 East Franklin Street, Danielson, Connecticut.

Dear Chairman Town Council Alemian:

The Connecticut Siting Council (Council) received a request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72, a copy of which has already been provided to you.

If you have any questions or comments regarding the proposal, please call me or inform the Council by February 14, 2013.

Thank you for your cooperation and consideration.

Very truly yours,

Linda Roberts
Executive Director

LR/cm

c: Roger Gandolf, Zoning Officer, Town of Killingly



**New Cingular Wireless
PCS, LLC**
500 Enterprise Drive
Rocky Hill, Connecticut 06067

EM-CING-069-150150

John Lawrence
Real Estate Consultant
95 Ryan Drive, Suite #1
Raynham, MA 02767
Phone: (781) 715-5532
jlawrence@clinellc.com

January 25, 2013

Honorable Robert Stein, Chairman,
and Members of the Connecticut Siting Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

RECEIVED
JAN 30 2013

**CONNECTICUT
SITING COUNCIL**

**Re: Notice of Exempt Modification – Existing Telecommunications Facility at 246 East
Franklin Street, Danielson CT 06239**

Dear Chairman Stein and Members of the Council:

New Cingular Wireless PCS, LLC (“AT&T”) intends to modify the existing telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower at 246 East Franklin Street, Danielson. AT&T operates under licenses issued by the Federal Communications Commission (“FCC”) to provide cellular and PCS mobile telephone service in Windham County, which includes the area to be served by AT&T’s proposed installation.

In order to accommodate technological changes, implement Long Term Evolution (“LTE”) capabilities, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC (“AT&T”) plans to modify the equipment configurations at many of its existing cell sites. LTE is a new high-performance air interface for cellular mobile communications. It is designed to increase the capacity and speed of mobile telephone networks.

Please accept this letter as notification to the Council, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to Bruce E. Benway, Town Manager

Attached is a summary of the planned modifications, including power density calculations reflecting the change in AT&T’s operations at the site. Also included is documentation of the

structural sufficiency of the tower to accommodate the revised antenna configuration.

Existing Facility

The Danielson facility is located at 246 East Franklin Street, Danielson, CT 06239

The facility is owned by SBA Communications.

The existing facility consists of a 155 foot monopole with an existing chain link fence around the tower compound fenced in compound. AT&T currently operates wireless communications equipment at the facility and has six (6) antennas mounted at the tower centerline height of 127'.

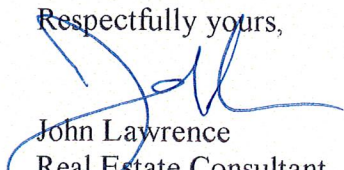
Statutory Considerations

The changes to the Danielson tower facility do not constitute a modification as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2) because they will not result in any substantial adverse environmental effect.

1. The height of the overall structure will be unaffected.
2. The proposed changes will not affect the property boundaries. All new construction will take place inside the existing fenced compound.
3. The proposed additions will not increase the noise level at the existing facility by six decibels or more.
4. LTE will utilize additional radio frequencies newly licensed by the FCC for cellular mobile communications. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, New Cingular Wireless respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A Section §16-50j-72(b)(2).

Respectfully yours,


John Lawrence
Real Estate Consultant

Enclosures:

Bruce E. Benway, Town Manager, Town of Killingly



**New Cingular Wireless
PCS, LLC**
500 Enterprise Drive
Rocky Hill, Connecticut 06067

John Lawrence
Real Estate Consultant
95 Ryan Drive, Suite #1
Raynham, MA 02767
Phone: (781) 715-5532
jlawrence@clinellc.com

January 25, 2013

Bruce E. Benway, Town Manager
Town of Killingly
172 Main Street
Danielson, CT 06239

Re: Notice of Exempt Modification – Existing Telecommunications Facility at 246 East Franklin Street, Danielson CT 06239

Dear Mr. Benway,

New Cingular Wireless PCS, LLC (“AT&T”) intends to replace telecommunications antennas and associated equipment at an existing telecommunications tower, owned and operated by SBA Communications Corp.

A Notice of Exempt Modification has been filed with the Connecticut Siting Council as required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73. Please accept this letter as notification to the Town of Killingly under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The attached letter fully sets forth the AT&T proposal. However, if you have any questions or require any further information on the plans for the site or the Siting Council’s procedures, please contact John Lawrence at (781) 715-5532 or Linda Roberts, Executive Director of the Connecticut Siting Council, at (860) 827-2935.

Sincerely,

John Lawrence
Real Estate Consultant

Enclosure

CC: Honorable Robert Stein, Chairmen of the Connecticut Siting Council



C Squared Systems, LLC
65 Dartmouth Drive, Unit A3
Auburn, NH 03032
(603) 644-2800
support@csquaredsystems.com

Calculated Radio Frequency Emissions



CT5483

(Killingly-Danielson)

246 East Franklin Street, Danielson, CT 06239

January 25, 2013

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1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed modifications to the existing AT&T antenna arrays mounted on the monopole tower located at 246 East Franklin Street in Danielson, CT. The coordinates of the tower are 41° 47' 45.00" N, 71° 52' 13.30" W.

AT&T is proposing the following modifications:

- 1) Install three multi-band (700/850/1900/2100 MHz) antennas for their LTE network (one per sector).

2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include Maximum Permissible Exposure (MPE) limits for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based upon those recommended by the National Council on Radiation Protection and Measurements (NCRP), developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

The FCC general population/uncontrolled limits set the maximum exposure to which most people may be subjected. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm^2). The general population exposure limits for the various frequency ranges are defined in the attached "FCC Limits for Maximum Permissible Exposure (MPE)" in Attachment B of this report.

Higher exposure limits are permitted under the occupational/controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure, and they must be able to exercise control over their exposure. General population/uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals. Attachment B contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit.

Finally, it should be noted that the MPE limits adopted by the FCC for both general population/uncontrolled exposure and for occupational/controlled exposure incorporate a substantial margin of safety and have been established to be well below levels generally accepted as having the potential to cause adverse health effects.

3. RF Exposure Prediction Methods

The emission field calculation results displayed in the following figures were generated using the following formula as outlined in FCC bulletin OET 65:

$$\text{Power Density} = \left(\frac{1.6^2 \times EIRP}{4\pi \times R^2} \right) \times \text{Off Beam Loss}$$

Where:

EIRP = Effective Isotropic Radiated Power

R = Radial Distance = $\sqrt{H^2 + V^2}$

H = Horizontal Distance from antenna in meters

V = Vertical Distance from radiation center of antenna in meters

Ground reflection factor of 1.6

Off Beam Loss is determined by the selected antenna pattern

These calculations assume that the antennas are operating at 100 percent capacity and power, and that all channels are transmitting simultaneously. Obstructions (trees, buildings, etc.) that would normally attenuate the signal are not taken into account. The calculations assume even terrain in the area of study and do not take into account actual terrain elevations which could attenuate the signal. As a result, the predicted signal levels reported below are much higher than the actual signal levels will be from the finished modifications.

4. Calculation Results

Table 1 below outlines the power density information for the site. Because the proposed AT&T antennas are directional in nature, the majority of the RF power is focused out towards the horizon. As a result, there will be less RF power directed below the antennas relative to the horizon, and consequently lower power density levels around the base of the tower. Please refer to Attachment C for the vertical patterns of the proposed AT&T antennas. The calculated results for AT&T in Table 1 include a nominal 10 dB off-beam pattern loss to account for the lower relative gain below the antennas.

Carrier	Antenna Height (Feet)	Operating Frequency (MHz)	Number of Trans.	ERP Per Transmitter (Watts)	Power Density (mw/cm ²)	Limit	%MPE
<i>Cingular GSM</i>	127	1900	2	427	0.0190	1.0000	1.90%
<i>Cingular GSM</i>	127	880	2	296	0.0132	0.5867	2.25%
<i>Cingular UMTS</i>	127	880	1	500	0.0111	0.5867	1.90%
MetroPCS	117	2140	3	443.61	0.0350	1.0000	3.50%
Verizon cellular	155	869	9	251	0.0338	0.5793	5.84%
Verizon PCS	155	1970	11	241	0.0397	1.0000	3.97%
Verizon AWS	155	2145	1	665	0.0100	1.0000	1.00%
Verizon LTE	155	698	1	825	0.0123	0.4653	2.65%
Sprint	147	1962	11	122	0.0223	1.0000	2.23%
V'Stream	137	1930	2	449	0.0172	1.0000	1.72%
AT&T UMTS	127	880	2	565	0.0025	0.5867	0.43%
AT&T UMTS	127	1900	2	875	0.0039	1.0000	0.39%
AT&T LTE	127	734	1	1771	0.0039	0.4893	0.81%
AT&T GSM	127	880	1	283	0.0006	0.5867	0.11%
AT&T GSM	127	1900	4	525	0.0047	1.0000	0.47%
Total							23.10%

Table 1: Carrier Information^{1 2 3}

¹ The existing CSC filing for Cingular should be removed and replaced with the updated AT&T technologies and values provided in Table 1. The power density information for carriers other than AT&T was taken directly from the CSC database dated 1/14/2013. Please note that %MPE values listed are rounded to two decimal points. The total %MPE listed is a summation of each unrounded contribution. Therefore, summing each rounded value may not reflect the total value listed in the table.

² In the case where antenna models are not uniform across all 3 sectors for the same frequency band, the antenna model with the highest gain was used for the calculations to present a worse-case scenario.

³ Antenna height listed for AT&T is in reference to the FDH Engineering Structural Analysis dated October 16, 2012.

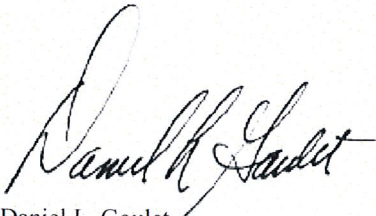
5. Conclusion

The above analysis verifies that emissions from the existing site will be below the maximum power density levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Even when using conservative methods, the cumulative power density from the proposed transmit antennas at the existing facility is well below the limits for the general public. The highest expected percent of Maximum Permissible Exposure at ground level is **23.10% of the FCC limit**.

As noted previously, obstructions (trees, buildings, etc.) that would normally attenuate the signal are not taken into account. As a result, the predicted signal levels are more conservative (higher) than the actual signal levels will be from the finished modifications.

6. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The calculations follow guidelines set forth in ANSI/IEEE Std. C95.3, ANSI/IEEE Std. C95.1 and FCC OET Bulletin 65 Edition 97-01.



Daniel L. Goulet
C Squared Systems, LLC

January 25, 2013

Date

Attachment A: References

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

ANSI C95.1-1982, American National Standard Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 300 kHz to 100 GHz. IEEE-SA Standards Board

IEEE Std C95.3-1991 (Reaff 1997), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave. IEEE-SA Standards Board

Attachment B: FCC Limits for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure⁴

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6

(B) Limits for General Population/Uncontrolled Exposure⁵

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz * Plane-wave equivalent power density

Table 2: FCC Limits for Maximum Permissible Exposure (MPE)

⁴ Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

⁵ General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

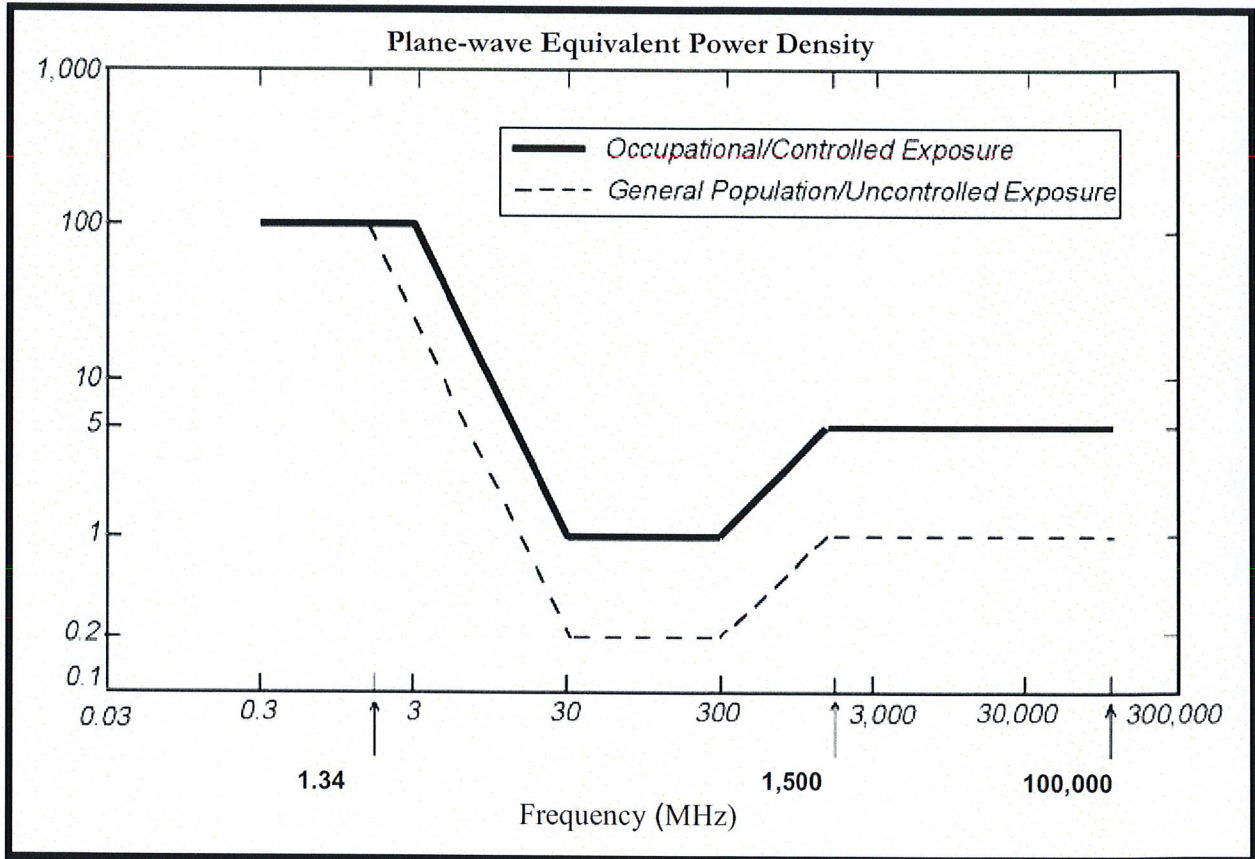
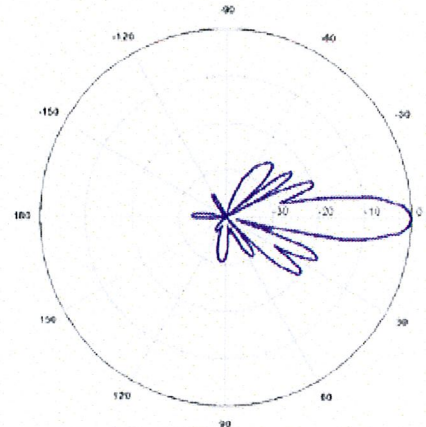


Figure 1: Graph of FCC Limits for Maximum Permissible Exposure (MPE)

Attachment C: AT&T Antenna Data Sheets and Electrical Patterns

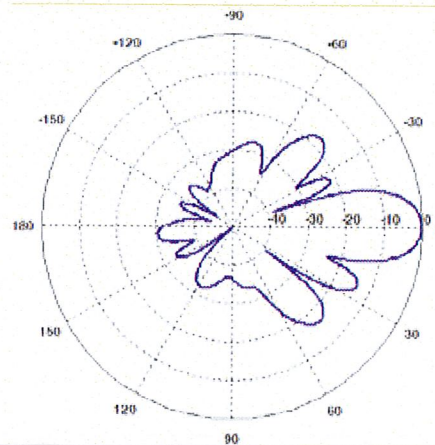
700 MHz

Manufacturer: KMW Communications
 Model #: AM-X-CD-17-65-00T-RET
 Frequency Band: 698-806 MHz
 Gain: 14.7 dBd
 Vertical Beamwidth: 10°
 Horizontal Beamwidth: 66°
 Polarization: Dual Slant ± 45°
 Size L x W x D: 96.0" x 11.8" x 6.0"



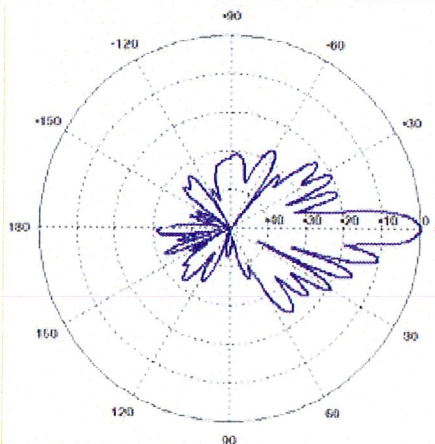
850 MHz

Manufacturer: Powerwave
 Model #: 7770.00
 Frequency Band: 824-896 MHz
 Gain: 11.5 dBd
 Vertical Beamwidth: 15°
 Horizontal Beamwidth: 82°
 Polarization: Dual Linear ± 45°
 Size L x W x D: 55.0" x 11.0" x 5.0"



1900 MHz

Manufacturer: Powerwave
 Model #: 7770.00
 Frequency Band: 1850-1990 MHz
 Gain: 13.4 dBd
 Vertical Beamwidth: 7°
 Horizontal Beamwidth: 86°
 Polarization: Dual Linear ± 45°
 Size L x W x D: 55.0" x 11.0" x 5.0"





**Structural Analysis for
SBA Network Services, Inc.**

155' Monopole Tower

**SBA Site Name: Danielson
SBA Site ID: CT00302-S
New Cingular Site Name: Danielson – E. Franklin
New Cingular Site ID: CT5483
Sprint Site ID: CT23XC407**

FDH Project Number 12-01571E S3 (R1)

Analysis Results

Tower Components	115.0 %	Insufficient
Foundation	53.4 %	Sufficient

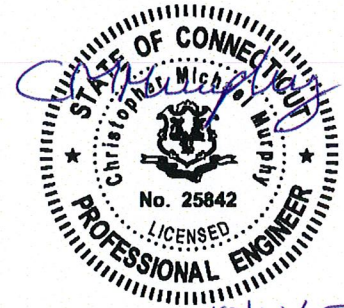
Prepared By:

Jonathan C. Holmes, EI
Project Engineer

Reviewed By:

Christopher M. Murphy, PE
President
CT PE License No. 25842

FDH Engineering, Inc.
6521 Meridien Dr.
Raleigh, NC 27616
(919) 755-1012
info@fdh-inc.com



October 16, 2012

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EXECUTIVE SUMMARY

At the request of SBA Network Services, Inc., FDH Engineering, Inc. performed a structural analysis of the monopole located in Danielson, CT to determine whether the tower is structurally adequate to support both the existing and proposed loads pursuant to the *Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, TIA/EIA-222-F* and the *2005 Connecticut Building Code*. Information pertaining to the existing/proposed antenna loading, current tower geometry, geotechnical data, foundation dimensions, and member sizes was obtained from:

- Fred A. Nudd Corporation (Project No. 6410) Design of 155' Monopole dated October 27, 1998
- Jaworksi Geotech, Inc. (Project No. C98423G) Geotechnical Evaluation dated October 14, 1998
- Vertical Structures, Inc. (Job No. TA2009-007-021) 2009 Modifications Tower Rework For A 155' Nudd M-200 Monopole dated July 16, 2009
- Vertical Structures, Inc. (Job No. TA2008-007-031) 2008 Modifications Tower Rework For A 155' Nudd M-200 Monopole dated November 10, 2008
- Vertical Structures, Inc. (Job No. 2002-007-001) 2002 Modifications Tower Rework For A 155' Monopole dated October 7, 2002
- SBA Network Services, Inc.

The *basic design wind speed* per the *TIA/EIA-222-F* standards and the *2005 Connecticut Building Code* is 85 mph without ice and 38 mph with 1" radial ice. Ice is considered to increase in thickness with height.

Conclusions

With the existing and proposed antennas from Sprint in place at 147 and for New Cingular at 127 ft, the tower does not meet the requirements of the *TIA/EIA-222-F* standards and the *2005 Connecticut Building Code*. However, provided the foundation was constructed per the original design drawings (see Fred A. Nudd Project No. 6410) and using the given soil parameters (see Jaworksi Geotech, Inc. Project No. C98423G), the foundation should have the necessary capacity to support both the proposed and existing loading. For a more detailed description of the analysis of the tower, see the **Results** section of this report.

Our structural analysis has been performed assuming all information provided to FDH Engineering, Inc. is accurate (i.e., the steel data, tower layout, existing antenna loading, and proposed antenna loading) and that the tower has been properly erected and maintained per the original design drawings.

Recommendations

To ensure the requirements of the *TIA/EIA-222-F* standards and the *2005 Connecticut Building Code* are met with the existing and proposed loading in place, we have the following recommendations:

1. The existing diplexers and TMAs should be installed directly behind the existing and proposed panel antennas.
2. Modifications to the tower's shaft are needed to support the proposed and existing loading. See the **Results** section of the report for overstressed locations.

We would anticipate the construction cost for a turnkey design/build modification project of this nature to range in price from approximately \$55,000 to \$65,000 (which should include the engineering design fees, inspection fees, and construction fees).

APPURTENANCE LISTING

The proposed and existing antennas with their corresponding cables/coax lines are shown in **Table 1**. *If the actual layout determined in the field deviates from the layout, FDH Engineering, Inc. should be contacted to perform a revised analysis.*

Table 1 - Appurtenance Loading

Existing Loading:

Antenna Elevation (ft)	Description	Coax and Lines ¹	Carrier	Mount Elevation (ft)	Mount Type
155	(3) Antel BXA-70063-6CF (6) Antel LPA-80080/4CF (3) Antel BXA-171085-12BF (6) RFS FD9R6004/2C-3L Diplexers	(12) 1-5/8"	Verizon	155	(1) 14' Low Profile Platform
147	(6) Decibel DB980H90E-M	(6) 1-5/8"	Sprint	147	(1) 14' Low Profile Platform
137	(6) Dapa 59212	(6) 1-5/8"	T-Mobile	137	(1) 14' Low Profile Platform
127	(6) Powerwave 7770.00 (6) Powerwave LGP21401 TMAs (6) Powerwave LGP21903 Diplexers	(12) 1-5/8"	New Cingular	127	(1) 14' Low Profile Platform
117	(6) Kathrein 742 351	(12) 1-5/8" (1) 3/8"	Metro PCS	117	(3) 12' T-Frames
35	(1) Decibel DB589 Omni	(2) 7/8"	American Messaging	31	(1) Standoff

1. Coax installed inside the monopole shaft unless otherwise noted.

Proposed Loading:

Antenna Elevation (ft)	Description	Coax and Lines	Carrier	Mount Elevation (ft)	Mount Type
147	(3) RFS APXVSP18-C-A20 (3) ALU 1900MHZ RRUs (3) ALU 800MHZ RRUs (3) ALU 800MHZ Filters (4) RFS ACU-A20-N RETs	(3) 1-1/4"	Sprint	147	(1) 14' Low Profile Platform
127	(6) Powerwave 7770.00 (3) KMW AM-X-CD-17-65-00T (6) Powerwave LGP21401 TMAs (6) Powerwave LGP21903 Diplexers	(12) 1-5/8" (2) 3/4" DC (1) 7/16" Fiber	New Cingular	127	(1) 14' Low Profile Platform
125	(6) Ericsson RRUS-11 RRUs (1) Raycap DC2-48-60-18-8F Surge Arrestor			125	(1) Universal Ring Mount (Part No. LWRM)

RESULTS

The following yield strength of steel for individual members was used for analysis:

Table 2 - Material Strength

Member Type	Yield Strength
Tower Shaft Sections	53 ksi and 50 ksi
Base Plate	36 ksi
Anchor Bolts	90 ksi & 105 ksi

Table 3 displays the summary of the ratio (as a percentage) of force in the member to their capacities. Values greater than 100% indicate locations where the maximum force in the member exceeds its capacity. *Note: Capacities up to 100% are considered acceptable.* **Table 4** displays the maximum foundation reactions.

If the assumptions outlined in this report differ from actual field conditions, FDH Engineering, Inc. should be contacted to perform a revised analysis. Furthermore, as no information pertaining to the allowable twist and sway requirements for the existing or proposed appurtenances was provided, deflection and rotation were not taken into consideration when performing this analysis.

See the **Appendix** for detailed modeling information

Table 3 - Summary of Working Percentage of Structural Components

Section No.	Elevation ft	Component Type	Size	% Capacity*	Pass Fail
L1	155 - 115	Pole	TP33.925x26.125x0.25	54.7	Pass
L2	115 - 100	Pole	TP36.474x32.45x0.25	100.0	Pass
L3	100 - 70	Pole	TP41.57x36.474x0.3125	103.3	Fail
L4	70 - 36	Pole **	TP47.358x39.9258x0.375	112.8	Fail
L5	36 - 0	Pole **	TP53.9x45.4932x0.4331	115.0	Fail
		Anchor Bolts	(20) 2" Ø on 61" Ø BC (6) 2" Ø on 69" BC	54.7	Pass
		Base Plate	67" Ø x 1.75" thk.	100.0	Pass

* Capacities include 1/3 allowable stress increase per TIA/EIA-222-F.

** Existing shaft modifications determined inadequate in this analysis, used for wind area only.

Table 4 - Maximum Base Reactions

Base Reactions	Current Analysis* (TIA/EIA-222-F)	Original Design (TIA/EIA-222-F)
Axial	43 k	29 k
Shear	38 k	38 k
Moment	3,910 k-ft	3,559 k-ft

* Foundation determined to be adequate per independent analysis.

GENERAL COMMENTS

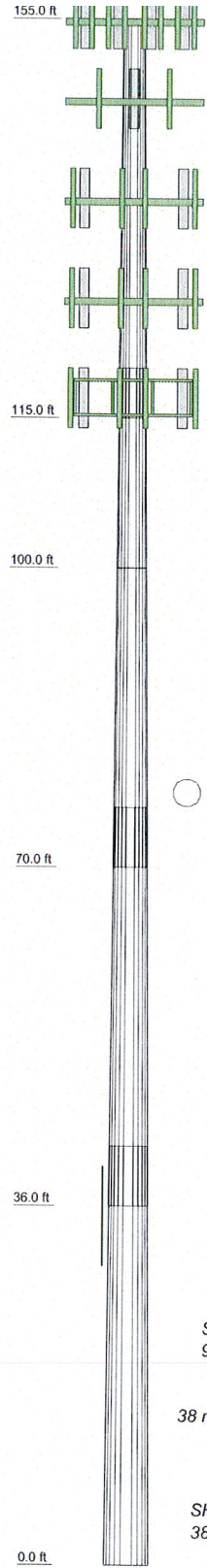
This engineering analysis is based upon the theoretical capacity of the structure. It is not a condition assessment of the tower and its foundation. It is the responsibility of SBA Network Services, Inc. to verify that the tower modeled and analyzed is the correct structure (with accurate antenna loading information) modeled. If there are substantial modifications to be made or the assumptions made in this analysis are not accurate, FDH Engineering, Inc. should be notified immediately to perform a revised analysis.

LIMITATIONS

All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of this report. All opinions and conclusions are subject to revision based upon receipt of new or additional/updated information. All services are provided exercising a level of care and diligence equivalent to the standard and care of our profession. No other warranty or guarantee, expressed or implied, is offered. Our services are confidential in nature and we will not release this report to any other party without the client's consent. The use of this engineering work is limited to the express purpose for which it was commissioned and it may not be reused, copied, or distributed for any other purpose without the written consent of FDH Engineering, Inc.

APPENDIX

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	40.00	12	0.2500	5.00	26.1250	33.9250	A36M-50	3.3
2	20.00	12	0.2500	32.4500	36.4740	36.4740	A36M-50	1.9
3	30.00	12	0.3125	6.00	36.4740	41.5700	A36M-50	4.0
4	40.00	12	0.3750	6.00	39.9258	47.3580	A36M-53	7.1
5	42.00	12	0.4331	45.4932	53.9000			9.8
								26.0



DESIGNED APPURTENANCE LOADING

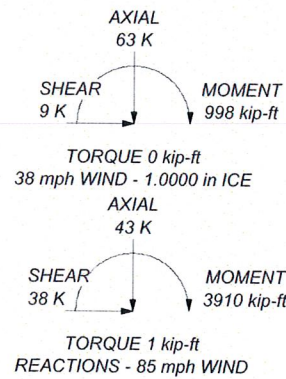
TYPE	ELEVATION	TYPE	ELEVATION
Lightning Rod	155	(2) 59212 w/Mount Pipe	137
Antel BXA-70063-6CF w/Mount Pipe	155	(2) 59212 w/Mount Pipe	137
Antel BXA-70063-6CF w/Mount Pipe	155	14' Low Profile Platform	137
Antel BXA-70063-6CF w/Mount Pipe	155	(2) 7770.00 w/Mount Pipe	127
(2) LPA-80080/4CF W/Mount Pipe	155	(2) 7770.00 w/Mount Pipe	127
(2) LPA-80080/4CF W/Mount Pipe	155	(2) 7770.00 w/Mount Pipe	127
(2) LPA-80080/4CF W/Mount Pipe	155	AM-X-CD-17-65-00T-RET w/ Mount Pipe	127
BXA-171085-12BF w/Mount Pipe	155	AM-X-CD-17-65-00T-RET w/ Mount Pipe	127
BXA-171085-12BF w/Mount Pipe	155	AM-X-CD-17-65-00T-RET w/ Mount Pipe	127
BXA-171085-12BF w/Mount Pipe	155	AM-X-CD-17-65-00T-RET w/ Mount Pipe	127
(2) FD9R6004/2C-3L Diplexer	155	(2) LGP21401 TMA	127
(2) FD9R6004/2C-3L Diplexer	155	(2) LGP21401 TMA	127
(2) FD9R6004/2C-3L Diplexer	155	(2) LGP21401 TMA	127
14' Low Profile Platform	155	(2) LGP21903 Diplexer	127
APXVSP18-C-A20 w/Mount Pipe	147	(2) LGP21903 Diplexer	127
APXVSP18-C-A20 w/Mount Pipe	147	(2) LGP21903 Diplexer	127
APXVSP18-C-A20 w/Mount Pipe	147	(2) LGP21903 Diplexer	127
RRU-ALU 1900MHZ	147	Raycap DC2-48-60-18-8F	127
RRU-ALU 1900MHZ	147	14' Low Profile Platform	127
RRU-ALU 1900MHZ	147	(2) RRUS 11	125
RRU-ALU 800MHZ	147	(2) RRUS 11	125
RRU-ALU 800MHZ	147	(2) RRUS 11	125
RRU-ALU 800MHZ	147	(1) Universal Ring Mount	125
Filter- ALU 800MHZ	147	(2) 742 351 w/Mount Pipe	117
Filter- ALU 800MHZ	147	(2) 742 351 w/Mount Pipe	117
Filter- ALU 800MHZ	147	(2) 742 351 w/Mount Pipe	117
(2) ACU-A20-N RET	147	(3) T-Frames	117
ACU-A20-N RET	147	DB589	31
ACU-A20-N RET	147	Standoff	31
14' Low Profile Platform	147		
(2) 59212 w/Mount Pipe	137		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A36M-50	50 ksi	65 ksi	A36M-53	53 ksi	60 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 38 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 50 mph wind.
5. TOWER RATING: 115%



 FDH Engineering, Inc. 6521 Meridien Drive Raleigh, NC 27616 Phone: 919-7551012 FAX: 919-7552031	Job: Danielson, CT00302-S	
	Project: 12-01571E S3	
	Client: SBA Network Services, Inc.	
	Drawn by: Logan Poe	
	App'd:	
Code: TIA/EIA-222-F	Date: 10/11/12	Scale: NTS
Path:	Dwg No. E-1	

PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
 1. INSTALL (3) NEW LTE ANTENNAS, (6) RRH'S, (1) SURGE ARRESTOR, (1) FIBER LINE (2) DC POWER LINES & (1) GPS ANTENNA
 2. INSTALL (1) DC PLANT, (1) PURCELL CABINET

SITE ADDRESS: 246 EAST FRANKLIN STREET
 DANIELSON, CT 06239

LATITUDE: 41.79584 N 41° 47' 45.0" N
 LONGITUDE: 71.87036 W 71° 52' 13.3 W

CURRENT USE: TELECOMMUNICATIONS FACILITY
 PROPOSED USE: TELECOMMUNICATIONS FACILITY



SITE NUMBER: CT5483
SITE NAME: KILLINGLY-DANIELSON

DRAWING INDEX

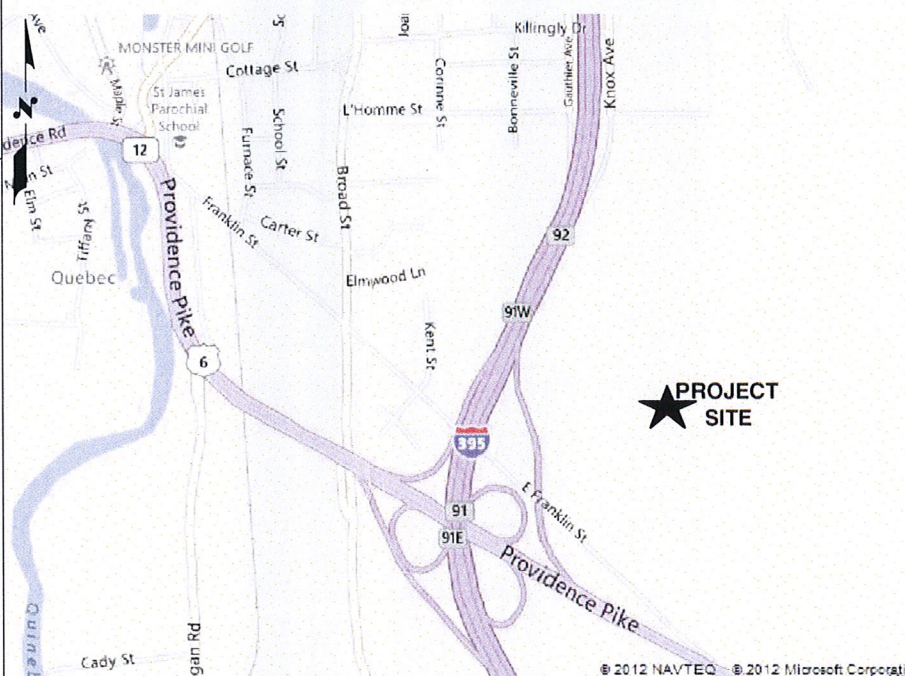
REV

T-1 TITLE SHEET
 GN-1 GENERAL NOTES
 A-1 COMPOUND PLAN & EQUIPMENT PLAN
 A-2 ANTENNA PLAN & ELEVATION
 A-3 DETAILS
 A-4 DETAILS
 G-1 PLUMBING DIAGRAM & GROUNDING DETAILS

1
 1
 1
 1
 1
 1
 1

VICINITY MAP

DIRECTIONS:
 HEAD EAST ON ENTERPRISE DR TOWARD CAPITOL BLVD. 0.4 MILES. TURN LEFT AT CAPITOL BLVD 0.3 MILES. TURN LEFT AT WEST ST 0.2 MILES. TURN LEFT TO MERGE ONTO I-91 N TOWARD HARTFORD 4.4 MILES. TAKE EXIT 25-26 TO MERGE ONTO CT-3 N TOWARD GLASTONBURY 2.4 MILES. TAKE THE CT-2 E/NORWICH EXIT 0.4 MILES. MERGE ONTO CT-2 E 32.4 MILES. TAKE EXIT 28N TO MERGE ONTO GOV JOHN DAVIS LODGE TURNPIKE/I-395 N TOWARD PROVIDENCE. CONTINUE TO FOLLOW GOV JOHN DAVIS LODGE TURNPIKE 22.7 MILES. TAKE THE ROSS RD EXIT 0.2 MILES. TURN LEFT AT ROSS RD 1.3 MILES. TURN LEFT AT S FRONTAGE RD 0.5 MILES. SLIGHT LEFT AT E FRANKLIN ST APPROX. 492 FT. TURN RIGHT ONTO ACCESS DRIVE AFTER YELLOW HOUSE. DRIVE BEYOND RESIDENCE TO END OF DIRT ROAD. SITE ENTRANCE WILL BE ON RIGHT.



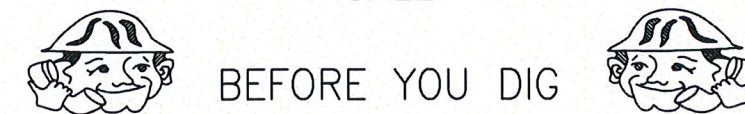
GENERAL NOTES

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

SBA SITE ID: CT00302-S

SITE NAME: DANIELSON

CALL



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 FAX: (978) 336-5586

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 800 MARSHALL PHELPS ROAD UNIT#: 2A
 WINDSOR, CT 06095

SITE NUMBER: CT5483
SITE NAME: KILLINGLY-DANIELSON
 246 EAST FRANKLIN STREET
 DANIELSON, CT 06239
 WINDHAM COUNTY

500 ENTERPRISE DRIVE, SUITE 3A
 ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	10/30/12	ISSUED FOR PERMITTING	CG	DC	DPH
0	07/19/12	ISSUED FOR REVIEW	CG	DC	DPH

SCALE: AS SHOWN DESIGNED BY: DC DRAWN BY: CG



AT&T	
TITLE SHEET (LTE)	
JOB NUMBER	DRAWING NUMBER
5483.01	T-1
REV	1

GROUNDING NOTES

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OFF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWS COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR - NEXLINK
SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
OWNER - AT&T MOBILITY
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.

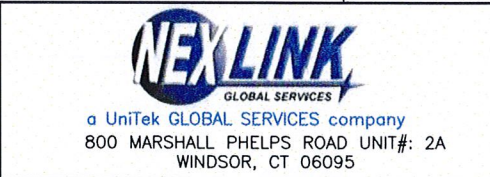
15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
 16. CONSTRUCTION SHALL COMPLY WITH UMS SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES."
 17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
 18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
 19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
 20. APPLICABLE BUILDING CODES:
SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
BUILDING CODE: 2003 IBC WITH 2005 CT SUPPLEMENT & 2009 CT AMENDMENTS
ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS
LIGHTENING CODE: REFER TO ELECTRICAL DRAWINGS
- SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
- AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION;
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL
 - ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.
- FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	G.C.	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
AWG	AMERICAN WIRE GAUGE	MGB	MASTER GROUND BUS		
BCW	BARE COPPER WIRE	MIN	MINIMUM	TBD	TO BE DETERMINED
BTS	BASE TRANSCEIVER STATION	PROPOSED	NEW	TBR	TO BE REMOVED
EXISTING	EXISTING	N.T.S.	NOT TO SCALE	TBRR	TO BE REMOVED AND REPLACED
EG	EQUIPMENT GROUND	REF	REFERENCE		
EGR	EQUIPMENT GROUND RING	REQ	REQUIRED	TYP	TYPICAL

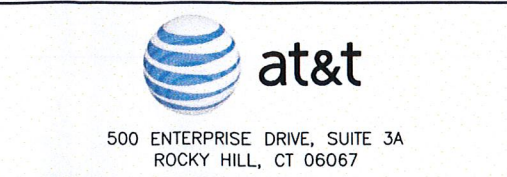


1600 OSGOOD STREET
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800 MARSHALL PHELPS ROAD UNIT#: 2A
WINDSOR, CT 06095


SITE NUMBER: CT5483
SITE NAME: KILLINGLY-DANIELSON
246 EAST FRANKLIN STREET
DANIELSON, CT 06239
WINDHAM COUNTY



500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	10/30/12	ISSUED FOR PERMITTING	CG	DC	DPH
0	07/19/12	ISSUED FOR REVIEW	CG	DC	DPH

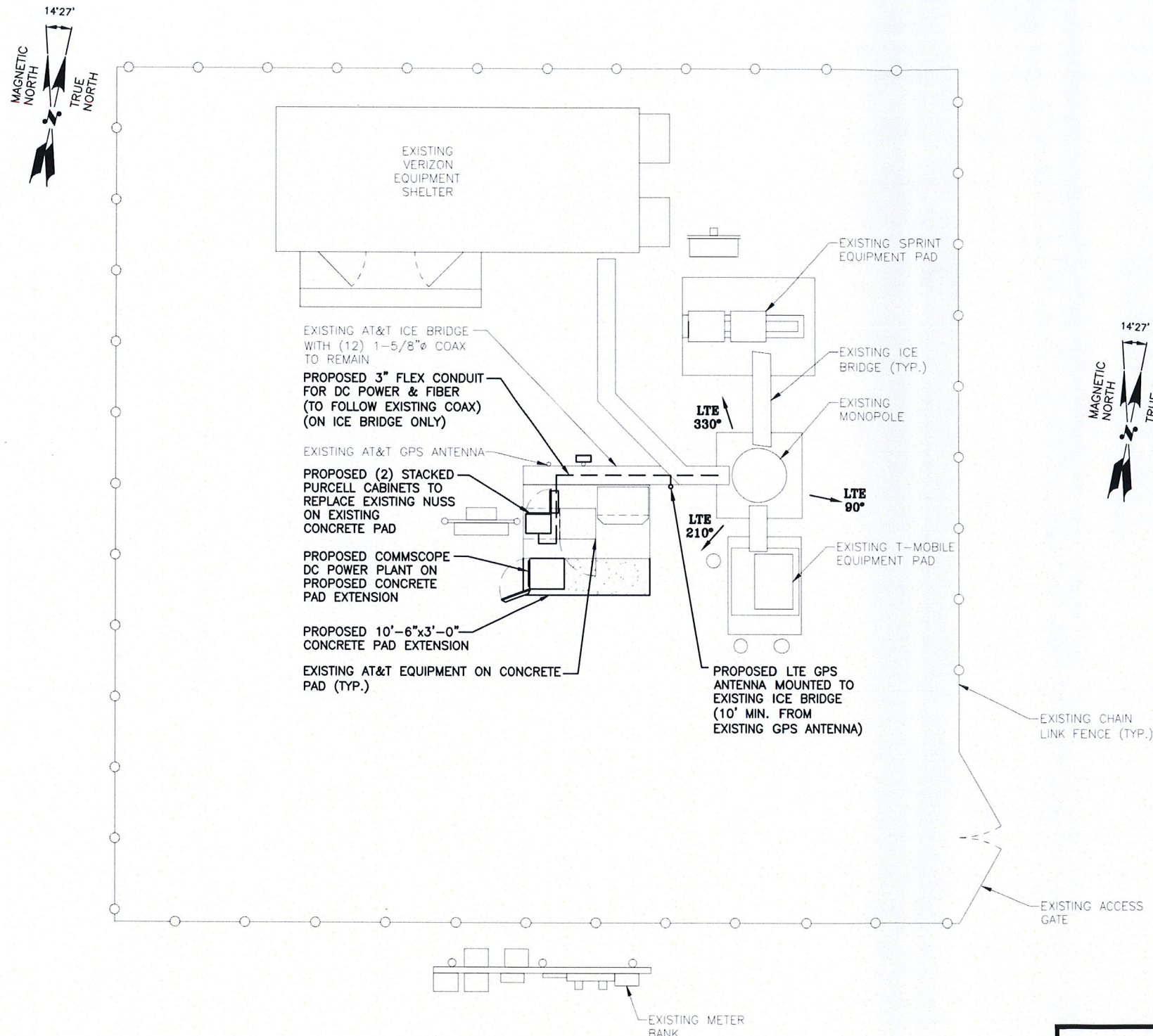
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GENERAL NOTES (LTE)
JOB NUMBER: 5483.01 DRAWING NUMBER: GN-1 REV: 1

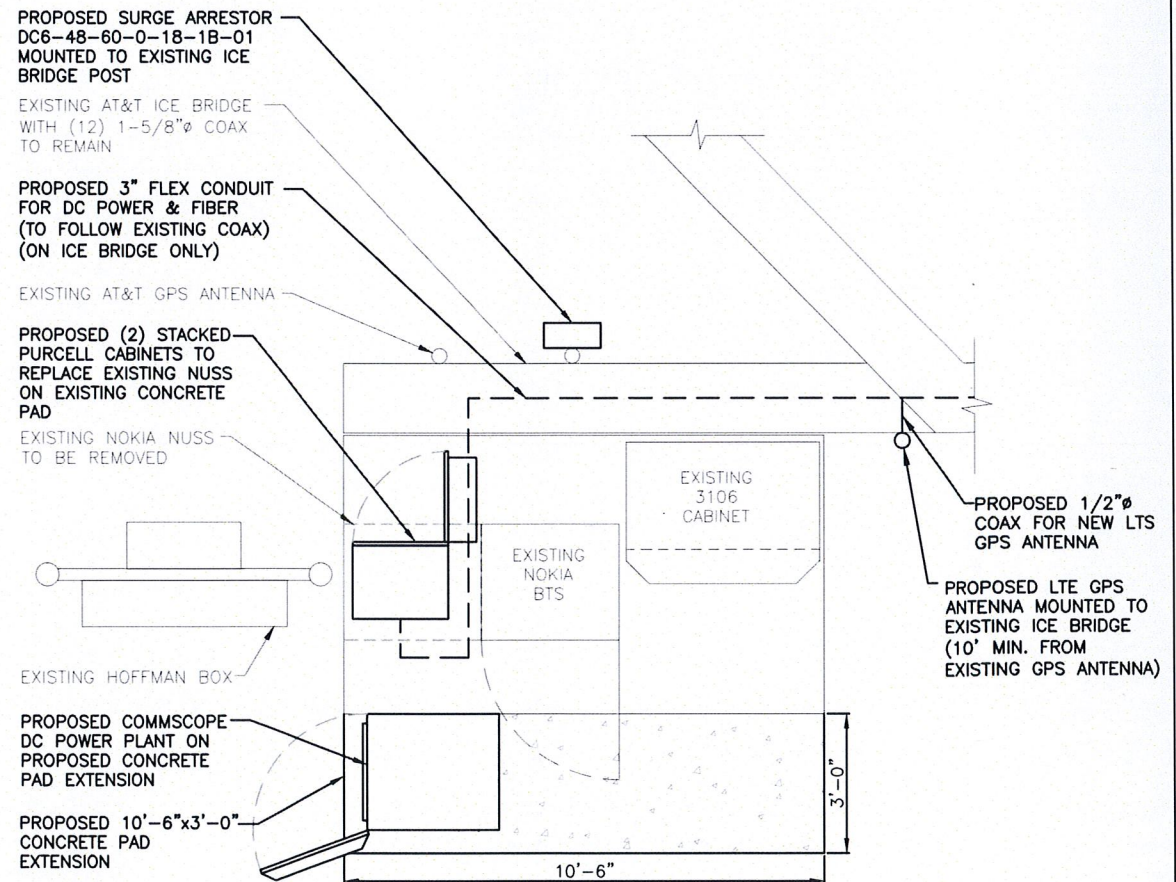
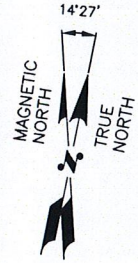
NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.



COMPOUND PLAN

SCALE: 3/16"=1'-0"



PROPOSED COMMSCOPE DC PLANT TO BE INSTALLED AND LIVE PRIOR TO NOKIA NUSS REMOVAL AND PURCELL INSTALLATION.

EQUIPMENT PLAN

SCALE: 1/2"=1'-0"



Hudson Design Group

1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 309D
N. ANDOVER, MA 01845

TEL: (978) 557-5553
FAX: (978) 336-5586

NEXLINK GLOBAL SERVICES

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WINDSOR, CT 06095

SITE NUMBER: CT5483
SITE NAME: KILLINGLY-DANIELSON

246 EAST FRANKLIN STREET
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WINDHAM COUNTY

at&t

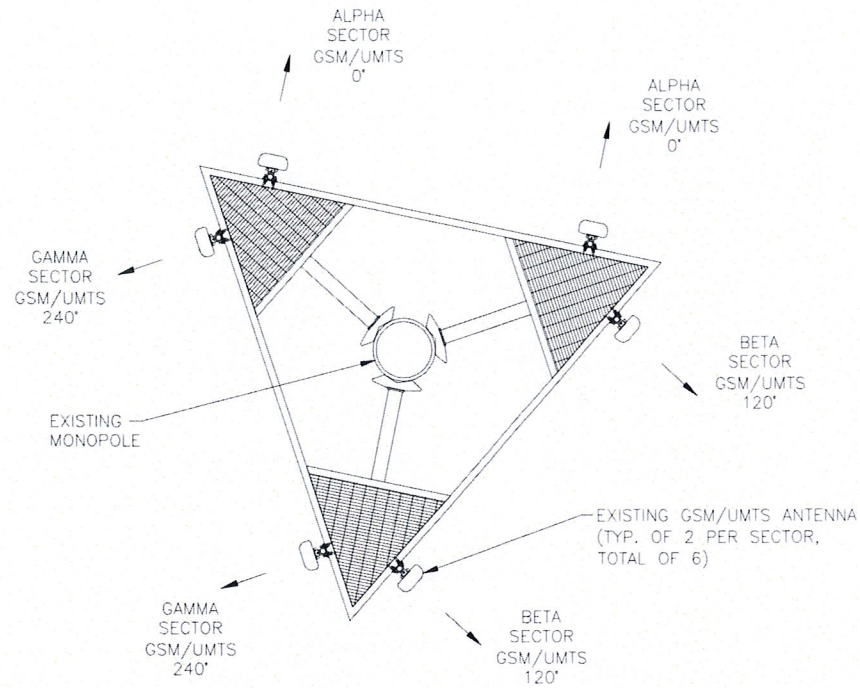
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NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: DC	DRAWN BY: CG		

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COMPOUND PLAN & EQUIPMENT PLAN (LTE)

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5483.01	A-1	1

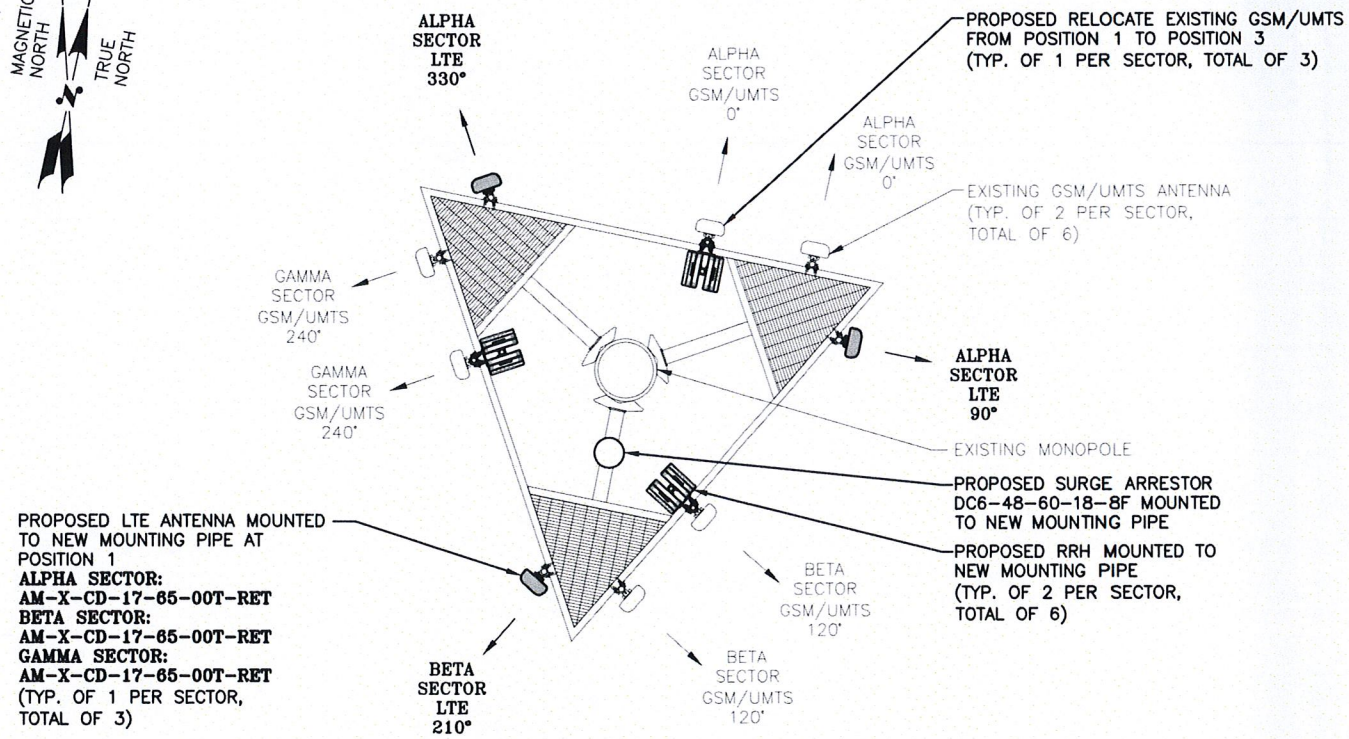
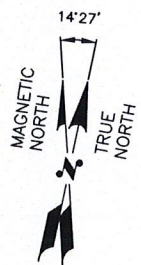


EXISTING GSM/UMTS ANTENNA PLAN

SCALE: N.T.S.

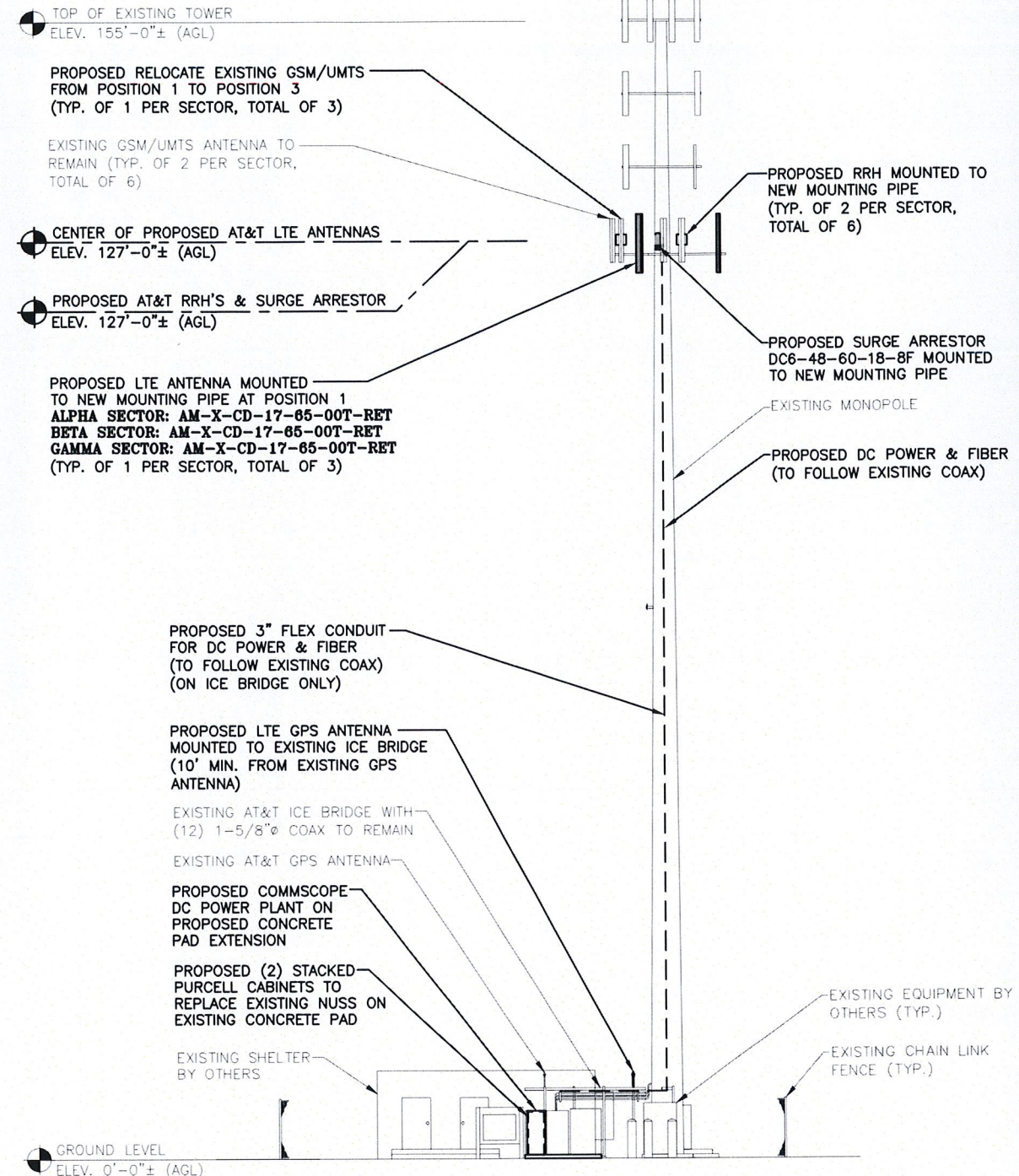
NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.



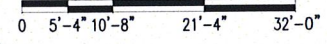
PROPOSED LTE ANTENNA PLAN

SCALE: N.T.S.



SOUTH ELEVATION

SCALE: 3/32"=1'-0"



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WINDSOR, CT 06095

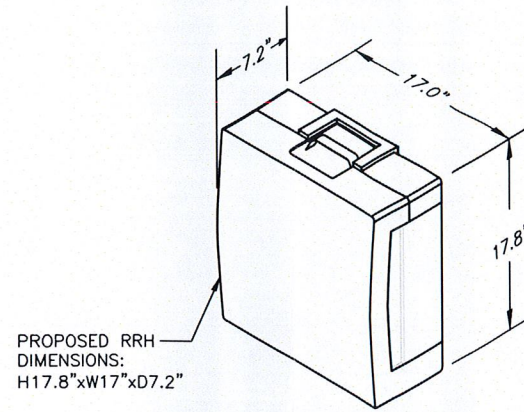
SITE NUMBER: CT5483
SITE NAME: KILLINGLY-DANIELSON
246 EAST FRANKLIN STREET
DANIELSON, CT 06239
WINDHAM COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
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1	10/30/12	ISSUED FOR PERMITTING	CG	DC
0	07/19/12	ISSUED FOR REVIEW	CG	DC



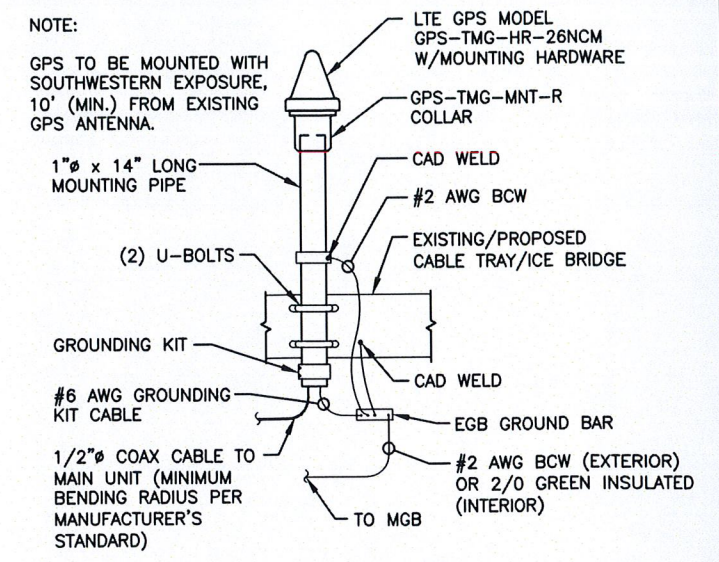
AT&T	
ANTENNA PLAN & ELEVATION (LTE)	
JOB NUMBER	DRAWING NUMBER
5483.01	A-2
REV	1



NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

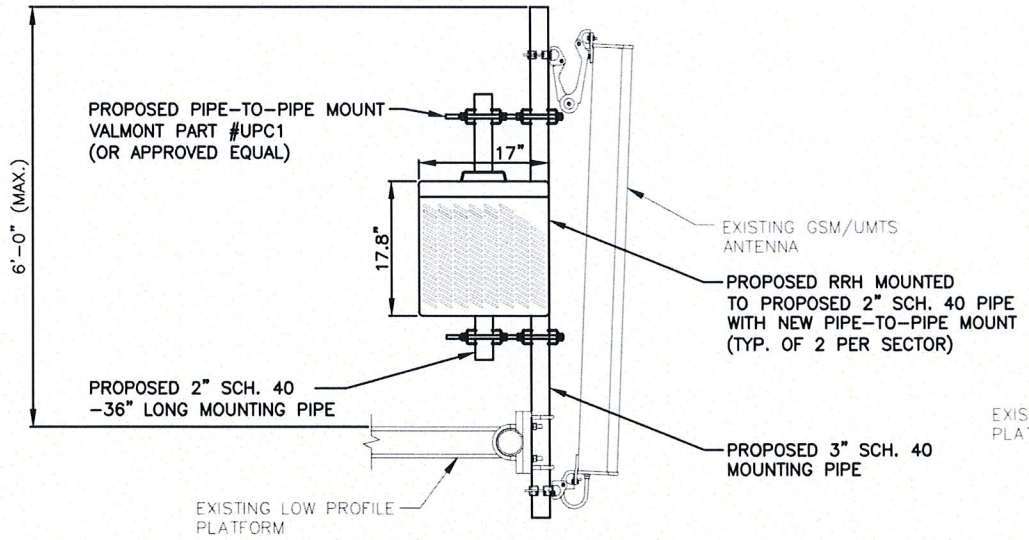
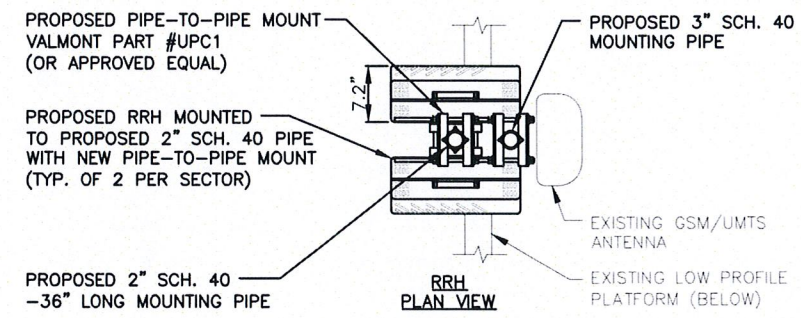
RRH DETAIL
SCALE: N.T.S.



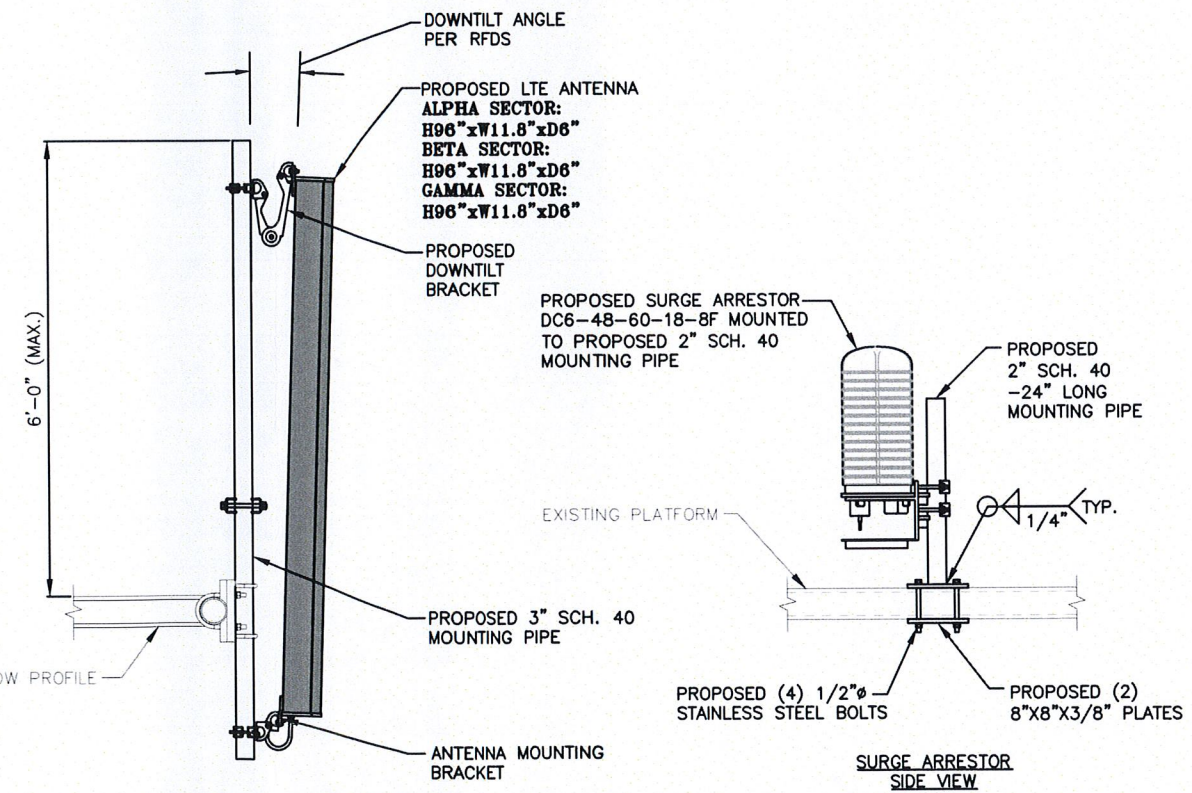
NOTE:

GPS TO BE MOUNTED WITH SOUTHWESTERN EXPOSURE, 10' (MIN.) FROM EXISTING GPS ANTENNA.

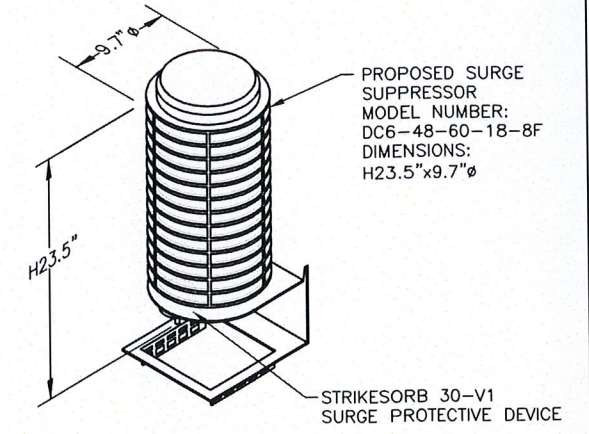
GPS MOUNTING DETAIL
SCALE: N.T.S.



PROPOSED RELOCATED GSM/UMTS ANTENNA & RRH MOUNTING DETAIL
SCALE: N.T.S.



PROPOSED LTE ANTENNA & SURGE ARRESTOR MOUNTING DETAIL
SCALE: N.T.S.



NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

DC SURGE SUPPRESSOR DETAIL
SCALE: N.T.S.

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N. ANDOVER, MA 01845
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WINDHAM COUNTY

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SCALE: AS SHOWN		DESIGNED BY: DC	DRAWN BY: CG		

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DETAILS (LTE)	
JOB NUMBER	DRAWING NUMBER
5483.01	A-3
REV	1

3'-0"x10'-6"x6" CONCRETE SLAB W/#4 BARS E.W. CENTERED IN SLAB 8" O.C.

1" CHAMFER (TYP.)

CRUSHED STONE SURFACE TREATMENT

COMPACTED CRUSHED STONE OR GRAVEL (OPTIONAL; THICKNESS AS REQUIRED)

NOTE:
- ATTACH EQUIPMENT TO CONCRETE PER MANUFACTURER'S SPECIFICATIONS.

NEW CONC. PAD NOTES:
- REINF. W/ #4's @ 8" O.C. EA. WAY (MID-DEPTH).
- DOWEL NEW CONC. TO EXIST. W/ #4's @ 8" O.C. x 8" LONG. DRILL & EPOXY GROUT 4" INTO EXIST. CONC.
- REINF. SHALL BE ASTM A615-GRADE 60. SECURE IN PLACE.
- REINFORCEMENT IN EQUIPMENT SLAB TO BE WELDED AND BONDED TO GROUND RING

EXCAVATE AS REQUIRED TO REMOVE VEGETATION & TOPSOIL, EXPOSE UNDISTURBED NATURAL SUBGRADE & PLACE CRUSHED STONE AS REQUIRED

PROPOSED CONCRETE PAD DETAIL

SCALE: N.T.S.

PROPOSED FASTEN UNISTRUT TO PIPE USING 1/2" GALV. U-BOLT (TYP.)

PROPOSED DC6-48-60-0-1B-01 SURGE SUPPRESSOR

PROPOSED 1-5/8" GALV. P1000 UNISTRUT (AS REQUIRED)

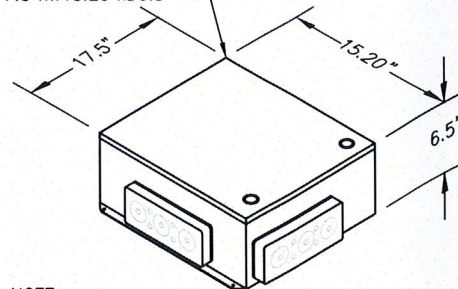
EXISTING ICE BRIDGE POST

NOTE:
MOUNT PROPOSED EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS

PROPOSED SURGE SUPPRESSOR MOUNTING DETAIL

SCALE: N.T.S.

PROPOSED SURGE SUPPRESSOR
MODEL NUMBER: DC6-48-60-0-1B-01
DIMENSIONS: H17.5"xW15.20"xD6.5"

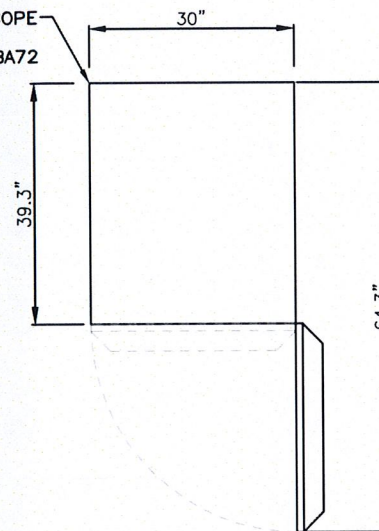


NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

SURGE SUPPRESSOR DETAIL

SCALE: N.T.S.

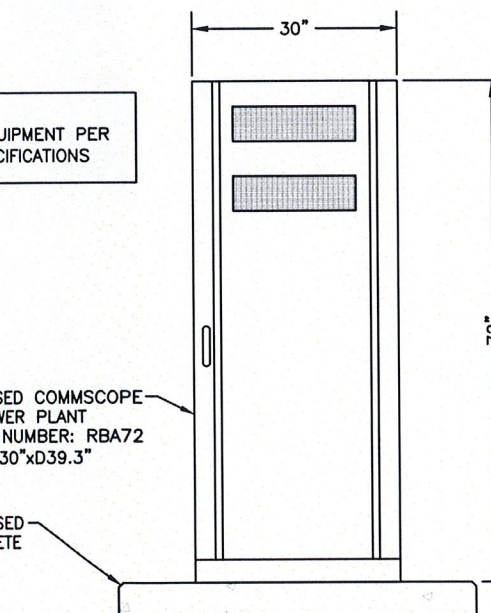
PROPOSED COMMSCOPE DC POWER PLANT
MODEL NUMBER: RBA72
H72"xW30"xD39.3"



NOTE:
MOUNT PROPOSED EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS

PROPOSED COMMSCOPE DC POWER PLANT
MODEL NUMBER: RBA72
H72"xW30"xD39.3"

PROPOSED CONCRETE PAD



PROPOSED DC POWER PLANT DETAIL

SCALE: N.T.S.

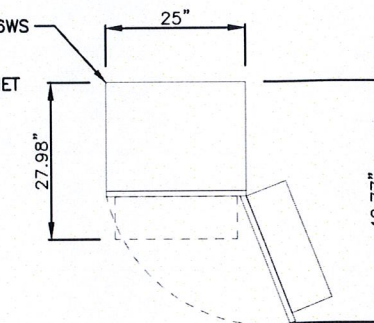
NOTE:

REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:

AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

PROPOSED PURCELL FLX16WS CABINET WITH LTE 6601 STACKED ON PROPOSED PURCELL FLX12WSW CABINET



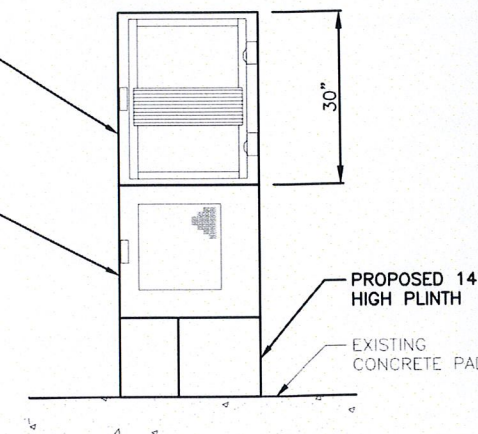
NOTE:
1. MOUNT PROPOSED EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS
2. CONTRACTOR TO PROVIDE MOUNTING HARDWARE.

PROPOSED PURCELL FLX16WS CABINET WITH LTE 6601

PROPOSED PURCELL FLX12WSW CABINET

PROPOSED 14" HIGH PLINTH

EXISTING CONCRETE PAD



PROPOSED EQUIPMENT MOUNTING DETAIL

SCALE: N.T.S.

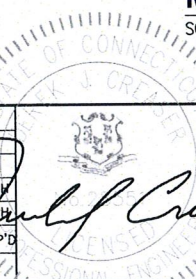
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N. ANDOVER, MA 01845
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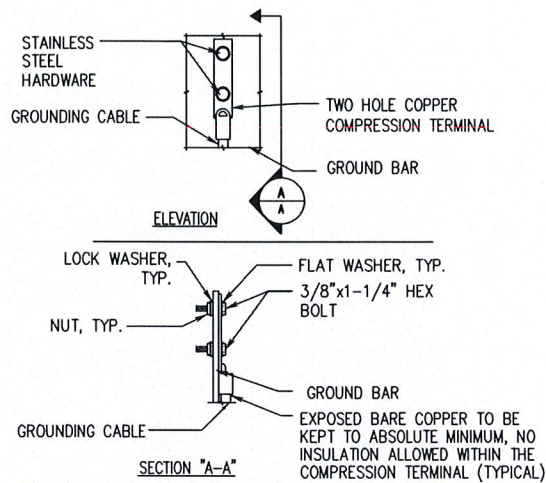
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SCALE: AS SHOWN		DESIGNED BY: DC	DRAWN BY: CG	



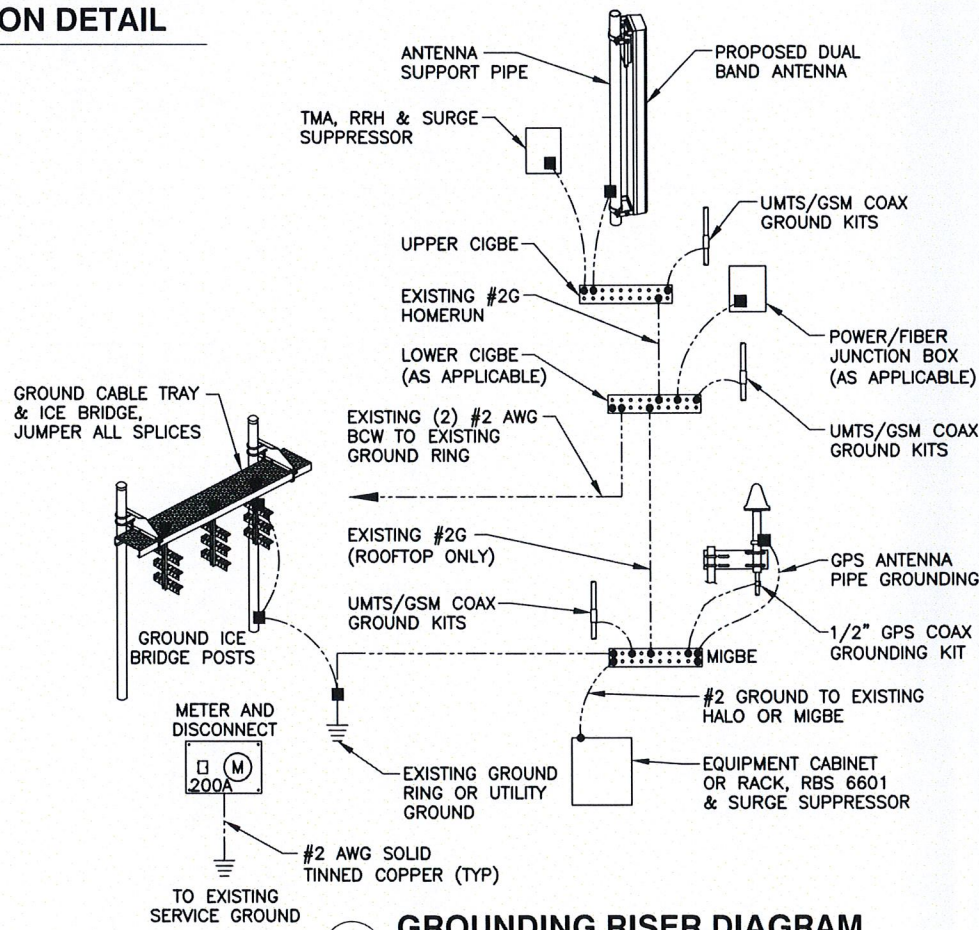
AT&T	
DETAILS (LTE)	
JOB NUMBER	DRAWING NUMBER
5483.01	A-4
REV	1



- NOTE:
- "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
 - OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
 - CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB.

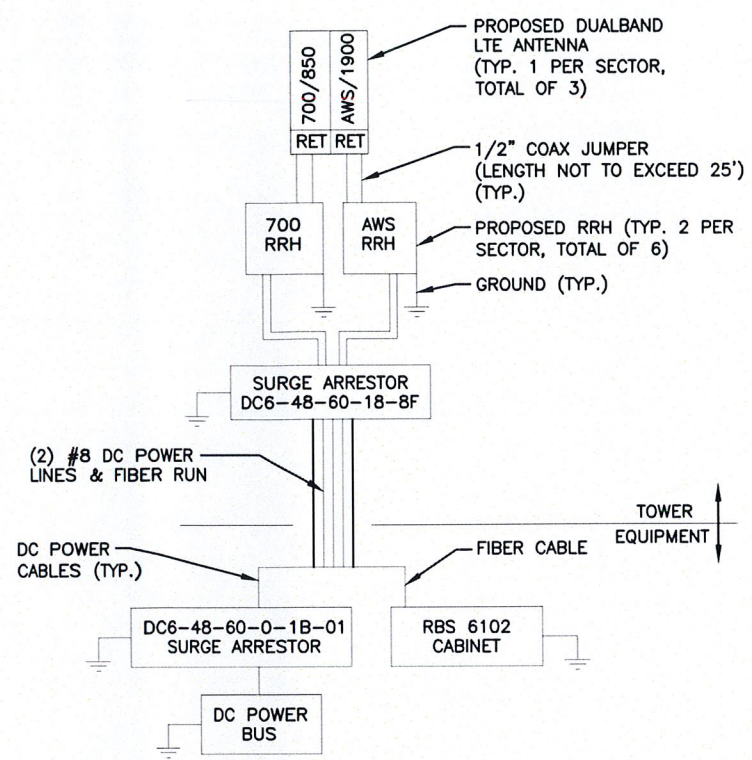
TYPICAL GROUND BAR CONNECTION DETAIL

1
—
N.T.S.



GROUNDING RISER DIAGRAM

3
—
N.T.S.

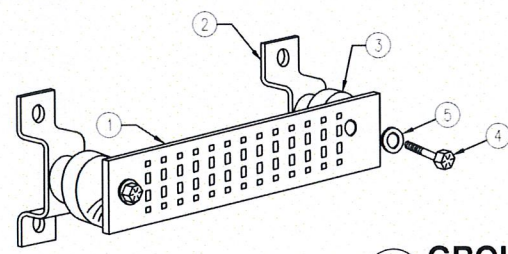


- NOTE:
- CONTRACTOR TO CONFIRM ALL PARTS & INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS.

LTE PLUMBING DIAGRAM

2
—
N.T.S.

WIRELESS SOLUTIONS INC.			
NO.	REQ.	PART NO.	DESCRIPTION
1	1	HLGB-0420-IS	SOLID GND. BAR (20"x4"x1/4")
2	2	—	WALL MTG. BRKT.
3	2	—	INSULATORS
4	4	—	5/8"-11x1" H.H.C.S.
5	4	—	5/8 LOCKWASHER



GROUND BAR DETAIL

4
—
N.T.S.

EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" - SURGE PRODUCERS

- CABLE ENTRY PORTS (HATCH PLATES) (#2)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
- TELCO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
- +24V POWER SUPPLY RETURN BAR (#2)
- 48V POWER SUPPLY RETURN BAR (#2)
- RECTIFIER FRAMES.

SECTION "A" - SURGE ABSORBERS

- INTERIOR GROUND RING (#2)
- EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
- METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
- BUILDING STEEL (IF AVAILABLE) (#2)

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 N. ANDOVER, MA 01845
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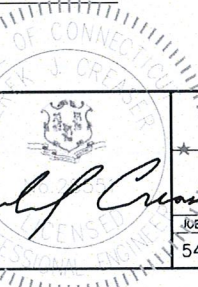
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SCALE: AS SHOWN DESIGNED BY: DC DRAWN BY: CG



AT&T	
PLUMBING DIAGRAM & GROUNDING DETAILS (LTE)	
JOB NUMBER	DRAWING NUMBER
5483.01	G-1
REV	1

POST CONSTRUCTION INSPECTION NOTES:

GENERAL

1. THE POST CONSTRUCTION INSPECTION (PCI) IS A VISUAL INSPECTION OF TOWER MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).
2. THE PCI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE PCI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.
3. ALL PCI'S SHALL BE CONDUCTED BY A PCI INSPECTOR THAT IS APPROVED TO PERFORM ELEVATED WORK FOR FDH ENGINEERING, INC.
4. TO ENSURE THAT THE REQUIREMENTS OF THE PCI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE PCI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY. IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR FDH POINT OF CONTACT (POC).
5. REFER TO CCR-01 : CONTRACTOR CLOSEOUT REQUIREMENTS FOR FURTHER DETAILS AND REQUIREMENTS.

PCI INSPECTOR

1. THE PCI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE PCI TO, AT A MINIMUM:
 - REVIEW THE REQUIREMENTS OF THE PCI CHECKLIST
 - WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
2. THE PCI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR (GC) INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE PCI REPORT TO FDH.

CORRECTION OF FAILING PCI'S

1. IF THE MODIFICATION INSTALLATION WOULD FAIL THE PCI ("FAILED PCI"), THE GC SHALL WORK WITH FDH TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:
 - CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT PCI.
 - OR, WITH FDH'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT USING THE AS-BUILT CONDITION.

REQUIRED PHOTOS

1. BETWEEN THE GC AND THE PCI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE PCI REPORT:
 - PRE-CONSTRUCTION GENERAL SITE CONDITION
 - PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - WELD PREPARATION
 - BOLT INSTALLATION AND TORQUE
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
 - POST CONSTRUCTION PHOTOGRAPHS
 - FINAL INFIELD CONDITION
2. PHOTOS OF ELEVATED MODIFICATIONS TAKEN FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED	REPORT ITEM
PRE-CONSTRUCTION	
X	PCI CHECKLIST DRAWING
N/A	EOR APPROVED SHOP DRAWINGS
N/A	FABRICATION INSPECTION
N/A	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
N/A	FABRICATOR NDE INSPECTION
N/A	NDE REPORT OF MONOPOLE BASE PLATE (AS REQUIRED)
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
CONSTRUCTION	
X	CONSTRUCTION INSPECTIONS
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH AND SLUMP TESTS
N/A	POST INSTALLED ANCHOR ROD VERIFICATION
N/A	BASE PLATE GROUT VERIFICATION
X	CONTRACTOR'S CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
X	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
POST-CONSTRUCTION	
X	PCI INSPECTOR REDLINE OR RECORD DRAWING(S)
N/A	POST INSTALLED ANCHOR ROD PULL-OUT TESTING
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTE: X DENOTES A DOCUMENT NEEDED FOR THE PCI REPORT
 N/A DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE PCI REPORT

PREPARED BY:

6521 MERIDIAN DRIVE
RALEIGH, NC 27616
PHONE: 919-755-1012
FAX: 919-755-1031

ENGINEERING INNOVATION

PREPARED FOR:

5900 BROKEN SOUND PARKWAY, NW
BOCA RATON, FL 33487
(800) 487-SITE

FOR BID ONLY

CHRISTOPHER M. MURPHY, P.E.
CONNECTICUT LIC. NO. 25842

DRAWN BY: OP
 CHECKED BY: JCH
 ENG APP'VD: CMM
 PROJECT NO: 12-01571E S4

SUBMITTALS		
DATE	DESCRIPTION	REV
01/23/13	PRELIMINARY/REVIEW	A

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SITE NAME:
DANIELSON

SITE NUMBER:
CT00302-S

SITE ADDRESS:
**246 EAST FRANKLIN STREET
DANIELSON, CT 06239**

SHEET TITLE
**POST CONSTRUCTION
INSPECTION NOTES**

SHEET NUMBER

N-1

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL PERMITS NECESSARY TO COMPLETE THE PROJECT AND ABIDE BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO FDH ENGINEERING FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
3. INCORRECTLY FABRICATED, DAMAGED, OTHERWISE MISFITTING, OR NON-CONFORMING MATERIALS AND CONDITIONS SHALL BE REPORTED TO FDH ENGINEERING PRIOR TO ANY REMEDIAL OR CORRECTIVE ACTION. ALL ACTIONS SHALL REQUIRE FDH ENGINEERING APPROVAL.
4. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AFTER THE COMPLETION OF THE PROJECT.
5. CONTRACTOR SHALL PROMPTLY REMOVE ANY & ALL DEBRIS FROM SITE AND RESTORE AS BEST AS POSSIBLE TO PRECONSTRUCTION CONDITION.

CONTRACTOR QUALIFICATION NOTES:

1. ALL REPAIRS SHALL BE PERFORMED BY A TOWER CONTRACTOR WITH A MINIMUM 5 YEARS EXPERIENCE IN TOWER ERECTION AND RETROFIT AND WITH WORKING KNOWLEDGE OF THE TIA/EIA 222-F "STRUCTURAL STANDARD FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
2. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS. SHOULD THE CONTRACTOR REQUIRE DIRECT CONSULTATION, FDH ENGINEERING, INC. IS WILLING TO OFFER SERVICES BASED UPON AN AGREED FEE FOR THE WORK REQUIRED.
3. ALL SUBMITTAL INFORMATION MUST BE SENT TO FDH ENGINEERING, INC. 6521 MERIDIEN DRIVE, RALEIGH NC, 27616, TEL. (919) 755-1012, FAX. (919) 755-1031, E-MAIL INFO@FDH-INC.COM. ANY VARIATION OF THESE SPECIFICATIONS OR DRAWINGS WITHOUT CONSENT FROM FDH ENGINEERING, INC. WILL VOID ANY RESPONSIBILITY OR LIABILITY FOR DAMAGE (MATERIAL OR PHYSICAL) TOWARDS FDH ENGINEERING, INC.

JOB SITE SAFETY & NOTES:

1. NEITHER THE PROFESSIONAL ACTIVITIES OF FDH ENGINEERING, INC. NOR THE PRESENCE OF FDH ENGINEERING, INC. OR EMPLOYEES AND SUB-CONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE GENERAL CONTRACTOR AND OR SUBCONTRACTORS AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE GENERAL CONTRACTOR AND OR SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY, AND WARRANTS THAT THIS INTENT IS EVIDENT BY ACCEPTING THIS WORK.

SUBSTITUTES AND/OR EQUALS:

1. IF CONTRACTOR WISHES TO FURNISH OR USE A SUBSTITUTE ITEM OF MATERIAL OR EQUIPMENT, CONTRACTOR SHALL FIRST MAKE WRITTEN APPLICATION TO ENGINEER OF RECORD FOR ACCEPTANCE THEREOF, CERTIFYING THAT THE PROPOSED SUBSTITUTE WILL PERFORM ADEQUATELY THE FUNCTIONS AND ACHIEVE THE RESULTS CALLED FOR BY THE GENERAL DESIGN, BE SIMILAR IN SUBSTANCE TO THAT SPECIFIED AND SUITED TO THE SAME USE AS THAT SPECIFIED. ALL VARIATIONS OF THE PROPOSED SUBSTITUTE FROM THAT SPECIFIED WILL BE IDENTIFIED IN THE APPLICATION AND AVAILABLE MAINTENANCE, REPAIR AND REPLACEMENT SERVICE WILL BE INDICATED. THE APPLICATION WILL ALSO CONTAIN AN ITEMIZED ESTIMATE OF ALL COSTS OR CREDITS THAT WILL RESULT DIRECTLY OR INDIRECTLY FROM ACCEPTANCE OF SUCH SUBSTITUTE INCLUDING COSTS OF REDESIGN AND CLAIMS OF OTHER CONTRACTORS AFFECTED BY THE RESULTING CHANGE, ALL OF WHICH WILL BE CONSIDERED BY ENGINEER OF RECORD IN EVALUATION OF THE PROPOSED SUBSTITUTE. ENGINEER OF RECORD MAY REQUIRE CONTRACTOR TO FURNISH ADDITIONAL DATA ABOUT THE PROPOSED SUBSTITUTE.

STEEL:

1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC CODE AND ASTM SPECIFICATIONS.

*ALL PLATE STEEL SHALL BE ASTM A572-65 (Fy=65 KSI) UNLESS OTHERWISE SPECIFIED.
2. ALL CONNECTIONS OF STRUCTURAL STEEL MEMBERS SHALL BE MADE USING SPECIFIED WELDS WITH WELDING ELECTRODES E-BOXX OR SPECIFIED HIGH STRENGTH BOLTS TO BE ASTM A325N, THREAD INCLUDED WITH SHEAR PLANE (UNLESS OTHERWISE NOTED).
3. ALL BOLTED CONNECTIONS TO BE INSTALLED TO A SNUG-TIGHTENED CONDITION IN ACCORDANCE WITH AISC 13 PART 16.2, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", SECTION 8.1, UNLESS OTHERWISE SPECIFIED. WHEN "X" TYPE BOLTS ARE USED, CONTRACTOR MAY BE REQUIRED TO STACK ADDITIONAL WASHERS TO OBTAIN PROPER SNUG TIGHT INSTALLATION. ALL NUTS SHALL BE HEAVY HEX UNLESS OTHERWISE NOTED.
4. ALL STEEL, AFTER FABRICATION, SHALL BE HOT DIPPED GALVANIZED PER ASTM A-123. ALL DAMAGED SURFACES, WELDED AREAS AND AUTHORIZED NON-GALVANIZED MEMBERS OR PARTS (EXISTING OR NEW) SHALL BE PAINTED WITH MULTIPLE COATS OF ZRC COLD GALVANIZING COMPOUND ACHIEVING A MINIMUM OF 4 MILS DRY FILM PER ASTM A 780.
5. ALL SHOP AND FIELD WELDING SHALL BE DONE BY WELDERS QUALIFIED AS DESCRIBED IN THE "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" TO PERFORM THE TYPE OF WORK REQUIRED. CONTRACTOR IS REQUIRED TO PROVIDE FDH ENGINEERING, INC. WITH A PASSING CERTIFIED WELDING INSPECTION FOR ALL WELDS.
6. STRUCTURAL STEEL MAY NOT BE TORCH CUT FOR FABRICATION. ALL STEEL FABRICATION MUST FOLLOW AISC STANDARDS.

MISC. NOTES:

1. ALL MODIFICATIONS ARE ASSUMED TO BE MADE ON AN EMPTY TOWER. CONTRACTOR IS RESPONSIBLE TO MAKE PROVISIONS TO SUPPORT OR WORK AROUND EXISTING ANTENNAS AND TRANSMISSION LINES. MODIFICATIONS MUST BE CONTINUOUS THROUGH ALL AREAS SHOWN.
2. CONTRACTOR FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

FABRICATION NOTES:

1. ALL DIMENSIONS ARE PRELIMINARY UNTIL FIELD VERIFIED BY CONTRACTOR. ANY CHANGES MUST BE APPROVED BY ENGINEER OF RECORD IN WRITING PRIOR TO FABRICATION AND INSTALLATION.
2. NEW STEEL MEMBERS MUST HAVE SINGLE DRILLED HOLES. SLOTTED AND DOUBLE DRILLED HOLES ARE NOT ACCEPTABLE MEANS OF FABRICATION.

SURFACE PREPARATION:

1. PREPARE SURFACE TO BE WELDED BY REMOVING PAINT OR GALVANIZATION TO BARE METAL USING POWER WIRE BRUSHING IN ACCORDANCE WITH SSPC-SP11, (STEEL STRUCTURES PAINTING COUNCIL). FOLLOWING POWER WIRE BRUSHING CONTRACTOR SHALL POLISH METAL SURFACE WITH HIGH SPEED GRINDER WITH 400+ GRIT SANDPAPER.
2. AFTER NEW STEEL INSTALLATION CONTRACTOR TO BRUSH PAINT (2) COATS OF ZRC OR ZINGA COLD GALVANIZATION COMPOUND PER MANUFACTURER'S SPECIFICATIONS.

WELDING NOTES:

1. ALL WELDING TO THE EXISTING TOWER SHALL BE PERFORMED BY CERTIFIED WELDERS UTILIZING PROCEDURES QUALIFIED IN ACCORDANCE WITH AWS D1.1 AND AWS C5.4.
2. CONTRACTOR SHALL COMPLY WITH AWS D1.1 FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". CONTRACTOR SHALL SUBMIT CERTIFICATION OF WELDERS TO THE ENGINEER PRIOR TO COMMENCEMENT OF THE WORK.
3. CONTRACTOR RESPONSIBLE FOR TEMPORARY HEAT SHIELDING AS REQUIRED DURING WELDING.
4. CONTRACTOR RESPONSIBLE FOR VIEWING EXISTING TOWER FOR LOOSE AND FLAMMABLE MATERIAL PRIOR TO WELDING FLAT PLATE.
5. ALL WELDS TO BE VISUALLY INSPECTED BY A CERTIFIED WELD INSPECTOR PER AWS D1.1.

PREPARED BY:



PREPARED FOR:



FOR BID ONLY

CHRISTOPHER M. MURPHY, P.E.
CONNECTICUT LIC. NO. 25842

DRAWN BY: OP
 CHECKED BY: JCH
 ENG APPVD: CMM
 PROJECT NO: 12-01571E S4

SUBMITTALS

DATE	DESCRIPTION	REV
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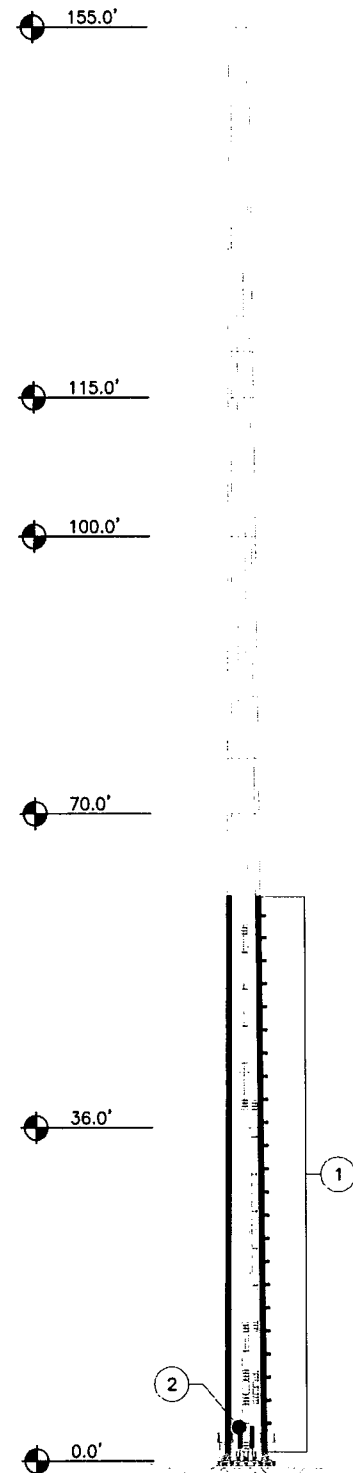
SITE NUMBER:
CT00302-S

SITE ADDRESS:
**246 EAST FRANKLIN STREET
DANIELSON, CT 06239**

SHEET TITLE
**GENERAL
NOTES**

SHEET NUMBER
N-2

LENGTH (FT)	42.00	40.00	30.00	20.00	40.00
# OF SIDES	12				
THICKNESS (IN)	0.4331	0.3750	0.3125	0.2500	0.2500
SOCKET LENGTH (FT)	N/A	6.00	6.00	N/A	5.00
TOP DIAMETER (IN)	45.4932	39.9258	36.4740	32.4500	26.1250
BOT. DIAMETER (IN)	53.9000	47.3580	41.5700	36.4740	33.9250
TOWER FINISH	GALVANIZED				



TOWER ELEVATION
SCALE: NTS

- APPURTENANCES MAY INTERFERE WITH PROPOSED MODIFICATIONS.
- ALL MODIFICATIONS TO BE INSTALLED CONTINUOUSLY THROUGH EXISTING EQUIPMENT. ALL EXISTING EQUIPMENT NOT TO BE DAMAGED OR TAKEN OFF AIR DURING INSTALLATION.
- ANTENNA GRAPHICS NOT SHOWN FOR CLARITY. SEE STRUCTURAL ANALYSIS REPORT FOR EXISTING ANTENNA LOADING.

TOWER MODIFICATION SCHEDULE			
NO.	TYPE OF MODIFICATION	BOTTOM ELEV. (FT)	TOP ELEV. (FT)
1	INSTALLATION OF NEW FLAT PLATE REINFORCEMENT. SEE S-2 THROUGH S-4 FOR DETAILS.	1.0±	61.0±
2	INSTALLATION OF NEW BASE PLATE STIFFENER EXTENSIONS. SEE S-5 FOR DETAILS.	1.5±	3.7±


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PREPARED FOR:



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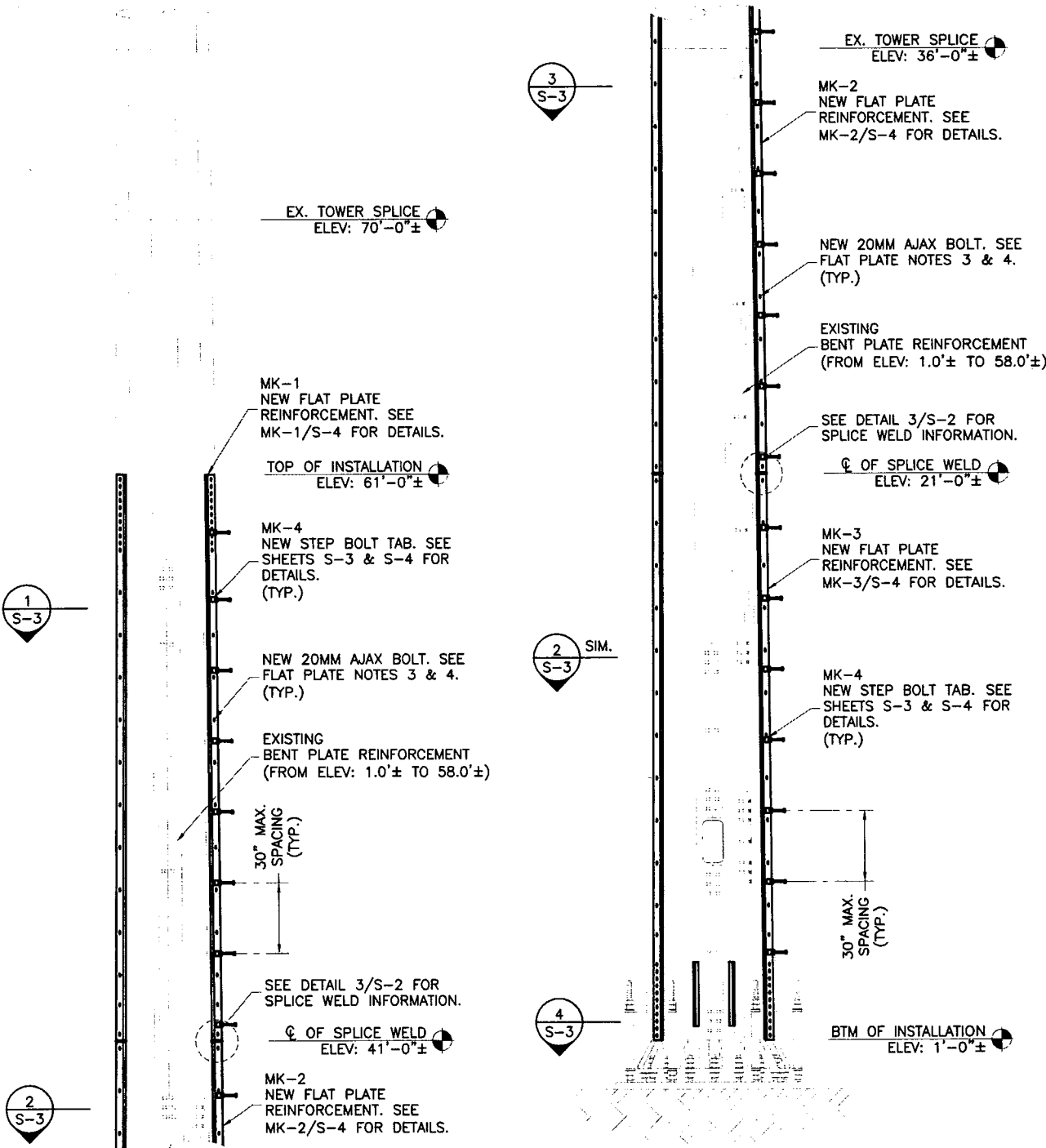
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CT00302-S

SITE ADDRESS:
**246 EAST FRANKLIN STREET
DANIELSON, CT 06239**

SHEET TITLE
**MODIFICATION
SCHEDULE**

SHEET NUMBER
S-1

- CONTRACTOR TO CUT OFF EXISTING STEP PEGS ON FLAT 11 ONLY, AND TO GRIND SMOOTH. SEE SURFACE PREPARATION NOTES ON SHEET N-2.
- CONTRACTOR TO INSTALL NEW STEP PEGS SUCH THAT THEY ALTERNATE WITH EXISTING STEP PEGS ON FLAT 2 VERY 15".

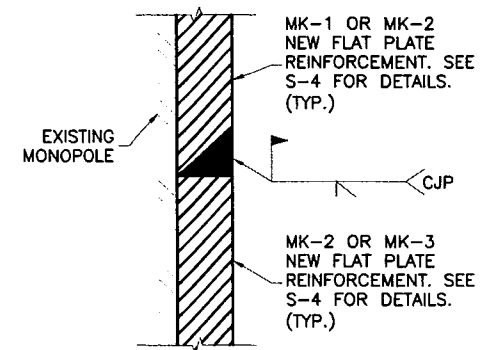


FLAT PLATE REINFORCEMENT LAYOUT ELEVATION VIEW

1
S-2
ELEVATION
SCALE: 3/16" = 1'-0"

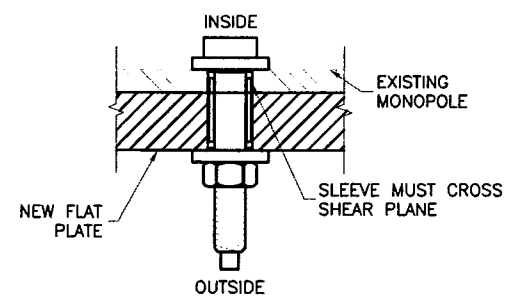
FLAT PLATE REINFORCEMENT LAYOUT ELEVATION VIEW

2
S-2
ELEVATION
SCALE: 3/16" = 1'-0"



SPLICE WELD ELEVATION VIEW

3
S-2
SECTION
NTS



AJAX BOLT ASSEMBLY PLAN VIEW

4
S-2
DETAIL
NTS

FLAT PLATE INSTALLATION SCHEDULE

PART #	QTY.	DESCRIPTION	ELEVATION
MK-1	3	FLAT PLATE REINFORCEMENT	41'-0"± TO 61'-0"±
MK-2	3	FLAT PLATE REINFORCEMENT	21'-0"± TO 41'-0"±
MK-3	3	FLAT PLATE REINFORCEMENT	1'-0"± TO 21'-0"±
MK-4	23*	STEP BOLT TAB	VARIES
-	180	20MM AJAX BOLTS	VARIES
-	23*	3/4"ØX7" STEP BOLTS W/ LOCK WASHERS	VARIES

ALL NEW FLAT PLATE STEEL TO HAVE Fy=65 KSI


*NOTE: (1) NEW FLAT PLATE INSTALLATIONS AT EACH ELEVATION WILL REQUIRE THE INSTALLATION OF STEP BOLTS & STEP BOLT TABS.

NEW FLAT PLATE REINFORCEMENT NOTES:

1. CONTRACTOR TO FIELD VERIFY PROPOSED LOCATION OF FLAT PLATE TO ENSURE THAT PROPER SPACING CAN BE MET.
2. CONTRACTOR TO REPLACE AND/OR RELOCATE ANY CLIMBING PEGS THAT INTERFERE WITH THE INSTALLATION OF FLAT PLATE.
3. ALL AJAX CONNECTIONS TO USE HIGH TENSILE SLEEVE PROVIDED BY MANUFACTURER. AJAX BOLT ASSEMBLY TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS. SEE AJAX BOLT ASSEMBLY DETAIL 4/S-2.
4. ALL SHEAR SLEEVES TO BE HOT DIPPED GALVANIZED PRIOR TO INSTALLATION.
5. NEW FLAT PLATES TO BE INSTALLED ON THE CENTER OF THE PROPOSED SIDE UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES:

1. CONTRACTOR TO FIELD VERIFY PROPOSED FLAT PLATE LAYOUT PRIOR TO CONSTRUCTION. IF ISSUES ARE PRESENT IN THE FIT OF THE FLAT PLATE, CONTRACTOR TO CONTACT ENGINEER OF RECORD OR FDH ENGINEERING PROJECT MANAGER PRIOR TO PROCEEDING WITH PROPOSED MODIFICATION OR FABRICATION.

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CHRISTOPHER M. MURPHY, P.E.
 CONNECTICUT LIC. NO. 25842

DRAWN BY: OP
 CHECKED BY: JCH
 ENG APPVD: CMM
 PROJECT NO: 12-01571E S4

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SITE ADDRESS:
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SHEET TITLE
**FLAT PLATE REINFORCEMENT
 DETAILS I**

SHEET NUMBER
S-2

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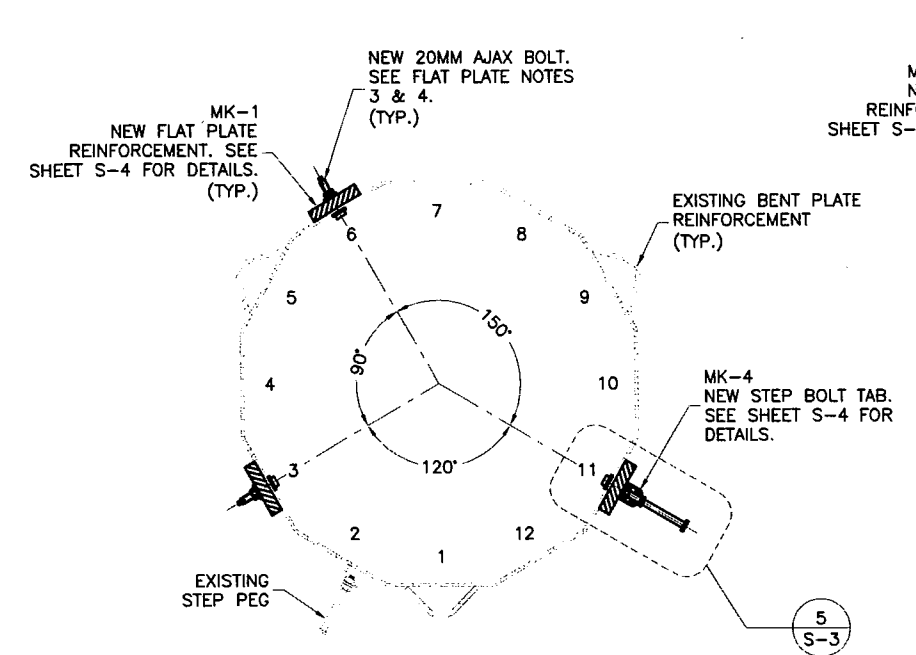
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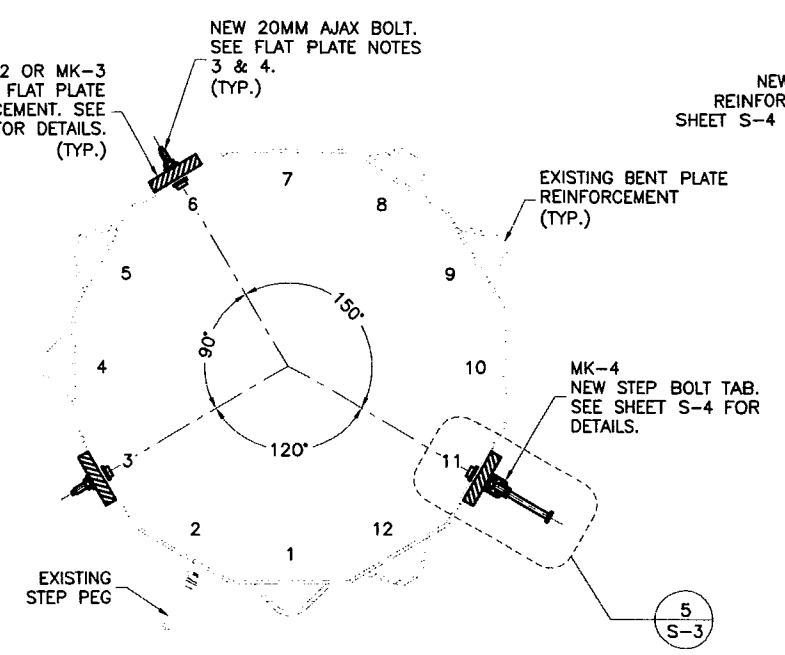
SHEET TITLE
**FLAT PLATE REINFORCEMENT
 DETAILS II**

SHEET NUMBER
S-3



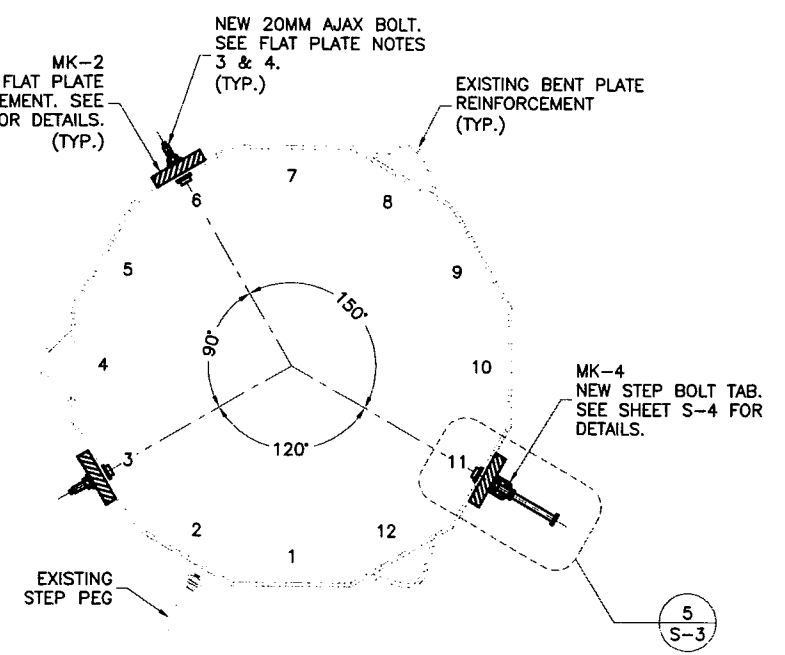
NEW FLAT PLATE REINFORCEMENT LAYOUT SECTION VIEW

1 SECTION
 S-3 NTS



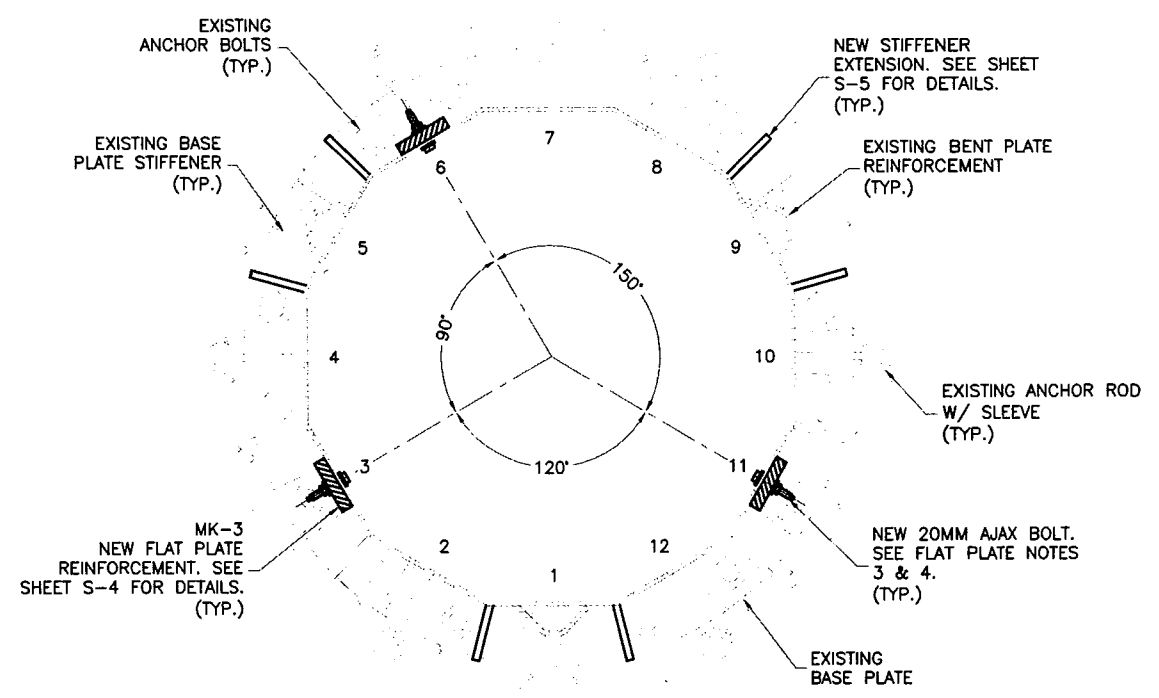
NEW FLAT PLATE REINFORCEMENT LAYOUT SECTION VIEW

2 SECTION
 S-3 NTS



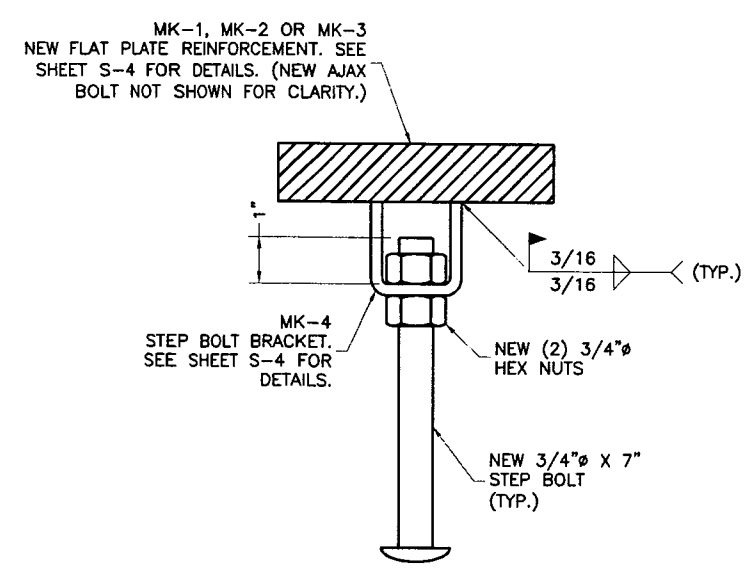
NEW FLAT PLATE REINFORCEMENT LAYOUT SECTION VIEW

3 SECTION
 S-3 NTS



NEW FLAT PLATE REINFORCEMENT LAYOUT SECTION VIEW

4 SECTION
 S-3 NTS



STEP BOLT INSTALLATION PLAN VIEW

5 DETAIL
 S-3 NTS

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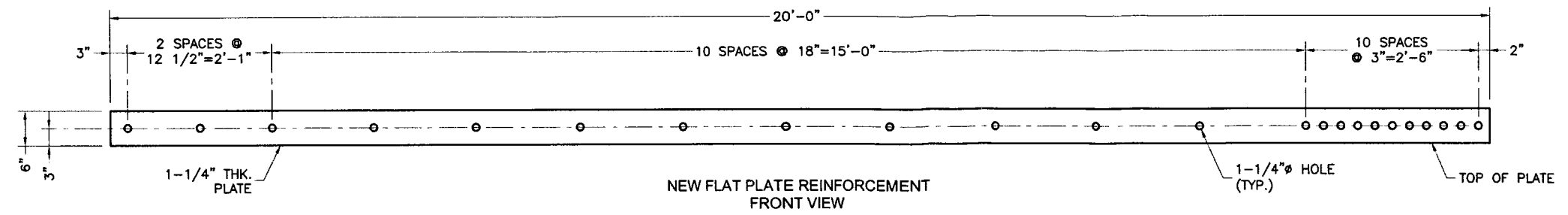
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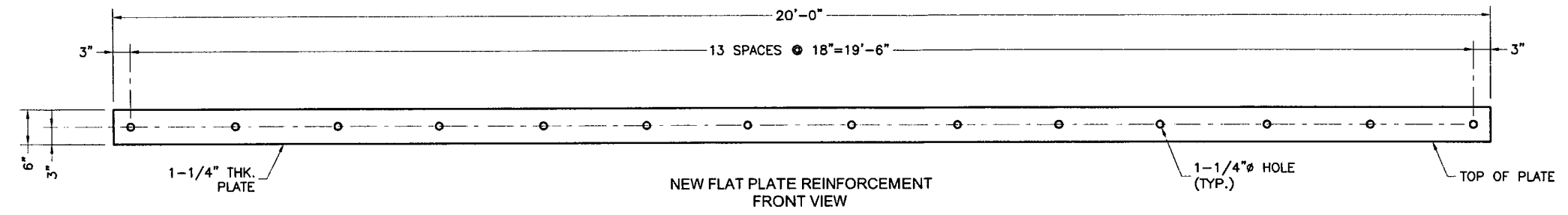
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SHEET TITLE
**FLAT PLATE REINFORCEMENT
 DETAILS III**

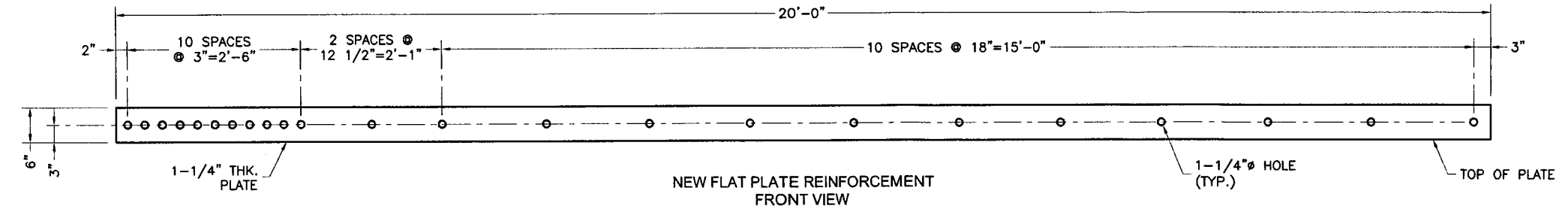
SHEET NUMBER
S-4



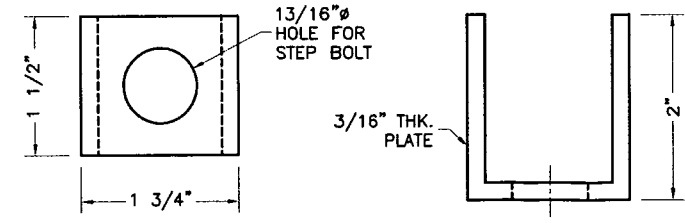
MK-1
S-4 **DETAIL**
 SCALE: 1/2" = 1'-0"



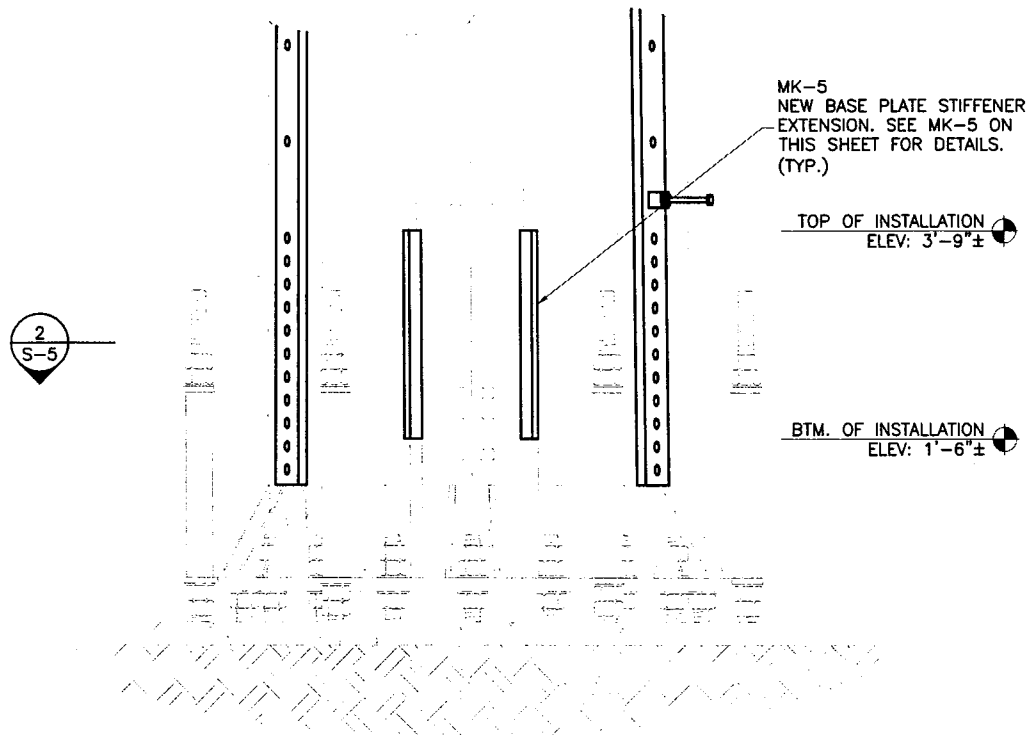
MK-2
S-4 **DETAIL**
 SCALE: 1/2" = 1'-0"



MK-3
S-4 **DETAIL**
 SCALE: 1/2" = 1'-0"

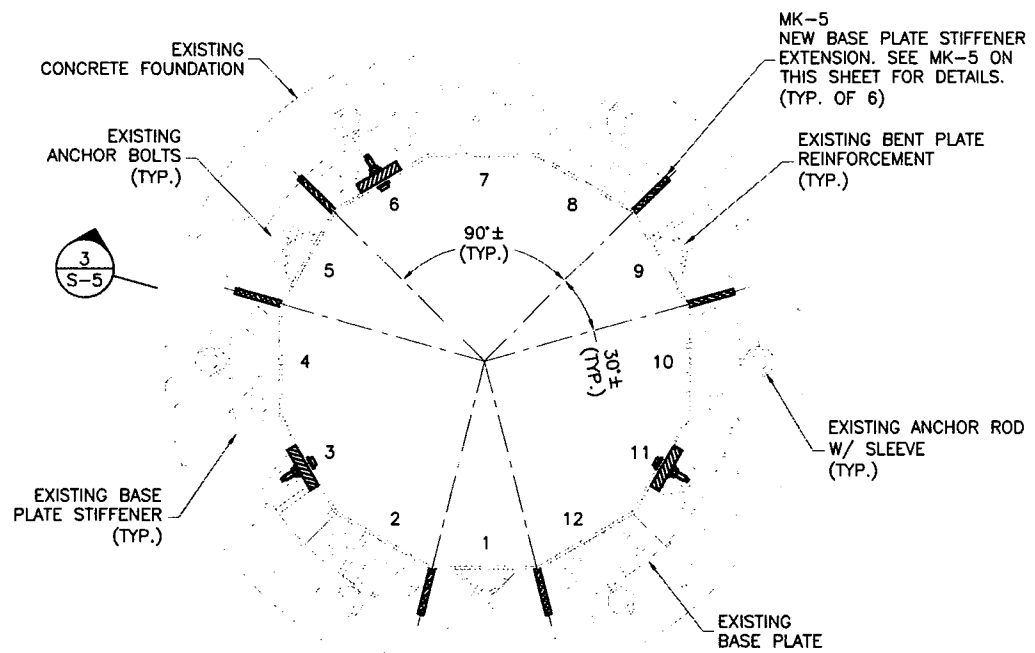


MK-4
S-4 **DETAIL**
 SCALE: 1/2" = 1'-0"



BASE PLATE STIFFENER EXTENSION LAYOUT ELEVATION VIEW

1 ELEVATION
S-5 SCALE: 1/2" = 1'-0"



BASE PLATE STIFFENER EXTENSION LAYOUT PLAN VIEW

2 SECTION
S-5 SCALE: 1/2" = 1'-0"

BASE PLATE STIFFENER EXTENSION SCHEDULE

PART. NO	QUANTITY	DESCRIPTION	ELEVATION
MK-5	6	BASE PLATE STIFFENER EXTENSION	1'-6"± TO 3'-9"±
ALL NEW BASE PLATE STIFFENER EXTENSION STEEL TO HAVE Fy=65 KSI			

NEW BASE PLATE STIFFENER EXTENSION NOTES:

1. CONTRACTOR TO FIELD VERIFY PROPOSED LOCATION OF BASE PLATE STIFFENER TO ENSURE THAT PROPER SPACING CAN BE MET.
2. CONTRACTOR TO REPLACE AND/OR RELOCATE ANY CLIMBING PEGS THAT INTERFERE WITH THE INSTALLATION OF BASE PLATE STIFFENER.

CONSTRUCTION NOTES:

1. CONTRACTOR TO FIELD VERIFY PROPOSED BASE PLATE STIFFENER LAYOUT PRIOR TO CONSTRUCTION. IF ISSUES ARE PRESENT IN THE FIT OF THE BASE PLATE STIFFENER, CONTRACTOR TO CONTACT ENGINEER OF RECORD OR FDH ENGINEERING PROJECT MANAGER PRIOR TO PROCEEDING WITH PROPOSED MODIFICATION OR FABRICATION.
2. CONTRACTOR TO ENSURE STIFFENERS EXTEND ABOVE THE LAST FLAT PLATE TERM BOLT. FIELD VERIFY DIMENSION.

MK-5 NEW BASE PLATE STIFFENER REINFORCEMENT. SEE MK-5 ON THIS SHEET FOR DETAILS. (TYP.)

EBOXX 5/16" (TYP.)

EBOXX 3/8" (TYP.)

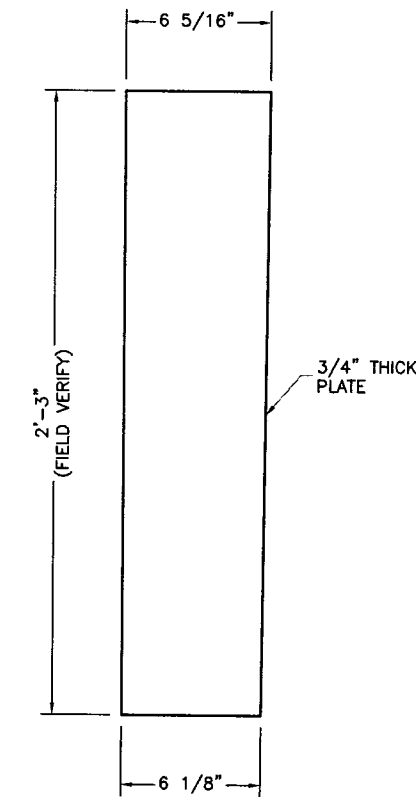
EXISTING BASE PLATE STIFFENER (TYP.)

CONTRACTOR TO GRIND EXISTING STIFFENER WELD SMOOTH AND SEE SURFACE PREPARATION NOTE 1 ON SHEET N-2.

NOTE: EXISTING ANCHOR BOLTS NOT SHOWN FOR CLARITY.

BASE PLATE STIFFENER EXTENSION WELD DETAIL FRONT VIEW

3 DETAIL
S-5 NTS



BASE PLATE STIFFENER EXTENSION FRONT VIEW

MK-5 DETAIL
S-5 SCALE: 1-1/2" = 1'-0"

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SHEET TITLE
BASE PLATE STIFFENER
EXTENSION DETAILS

SHEET NUMBER
S-5