



New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 463-5511
Fax: (860) 513-7190

Douglas L. Culp
Real Estate Consultant

HAND DELIVERED

June 14, 2011

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

RECEIVED
JUN 14 2011

CONNECTICUT
SITING COUNCIL

Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 275 North Street Easton , CT (owner SBA).

Dear Ms. Roberts:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System (“UMTS”) and/or 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. Please accept this letter and attachments as notification, 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 and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

UMTS technology offers services to mobile computer and phone users anywhere in the world. Based on the Global System for Mobile (“GSM”) communication standard, UMTS is the planned worldwide standard for mobile users. UMTS, fully implemented, gives computer and phone users high-speed access to the Internet as they travel. They have the same capabilities even when they roam, through both terrestrial wireless and satellite transmissions.

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.

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.

The changes to the facility do not constitute modifications 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).

1. The height of the overall structure will be unaffected.
2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than some enlarged equipment pads as may be noted in the attachments.
3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.
4. Radio frequency power density may increase due to use of one or more GSM channel for UMTS transmissions. Moreover, 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).

Please feel free to call me at (860) 463-5511 with questions concerning this matter. Thank you for your consideration.

Sincerely,



Douglas L. Culp
Real Estate Consultant

Attachments

NEW CINGULAR WIRELESS PCS, LLC
Equipment Modification

275 North Street Easton, CT
 Site Number CT5050
 Exempt Mod

Tower Owner/Manager: SBA Network Services, Inc

Equipment configuration: Monopole

Current and/or approved: Six PowerWave antennas @ 155 ft
 Six PowerWave TMA's and Six PowerWave Diplexers @ 155 ft
 Twelve runs 1 5/8 inch coax to 155 ft
 Equipment on Concrete Pad

Planned Modifications: Retain existing PowerWave Antenna's, TMA's and Diplexers at 155 ft
 Retain all Coax Cabling
 Install three PowerWave P65-16 antennas or equivalent @ 155 ft
 Install six remote radio heads and surge arrestor @ 155 ft
 Install one fiber and two DC power cables to 155 ft

Power Density:

Worst-case calculations for existing wireless operations at the site, using standard parameters for other carriers, indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the Tower, of 16.3 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 17.8 % of the standard.

Existing

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users							7.79
AT&T UMTS	155	1900 Band	1	500	0.0075	1.0000	0.75
AT&T UMTS	155	800 Band	1	500	0.0075	0.5867	1.28
AT&T GSM	155	800Band	6	296	0.0266	0.5867	4.53
AT&T UMTS	155	1900 Band	3	427	0.0192	1.0000	1.92
Total							16.3%

* Data for other users are from Siting Council records.

Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users							7.79
AT&T UMTS	155	800 Band	1	500	0.0075	0.5867	1.28
AT&T UMTS	155	1900 Band	1	500	0.0075	1.0000	0.75
AT&T GSM	155	880 - 894	6	296	0.0266	0.5867	4.53
AT&T GSM	155	1900 Band	3	427	0.0192	1.0000	1.92
AT&T LTE	155	740 - 746	1	500	0.0075	0.4933	1.52
Total							17.8%

* Data for other users are from Siting Council records

Structural information:

The attached structural analysis demonstrates that the monopole and foundation have adequate structural capacity to accommodate the proposed modifications. (FDH Engineering dated 6-2-11).

NEW CINGULAR WIRELESS PCS, LLC

WIRELESS COMMUNICATIONS FACILITY CT50050

HIGH RIDGE

275 NORTH STREET EASTON, CONNECTICUT



Your world. Delivered.

NEW CINGULAR WIRELESS PCS, LLC
550 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

Sheet 1 of 2011

CHA

275 North Street, Suite 210, Rocky Hill, Connecticut

CHA PROJECT NO:
22702 - 1019 - 43000

PROJECT SUMMARY

CT50050
HIGH RIDGE
SITE NAME:
550 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
STRUCTURE OWNER:
SEA
APPLICANT:
NEW CINGULAR WIRELESS PCS, LLC
CONTACT:
MICHAEL D. FOLEY
(203) 444-1884
COORDINATES:
41° 18' 35.01" N
73° 16' 48.56" W
HORIZONTAL DATUM:
NAD 83
ENGINEER:
CHA, INC.
2138 Slaus Drive
Suite 212
Rocky Hill, CT 06067
CONTACT:
PAUL LUSTIANI
(860) 257-4537

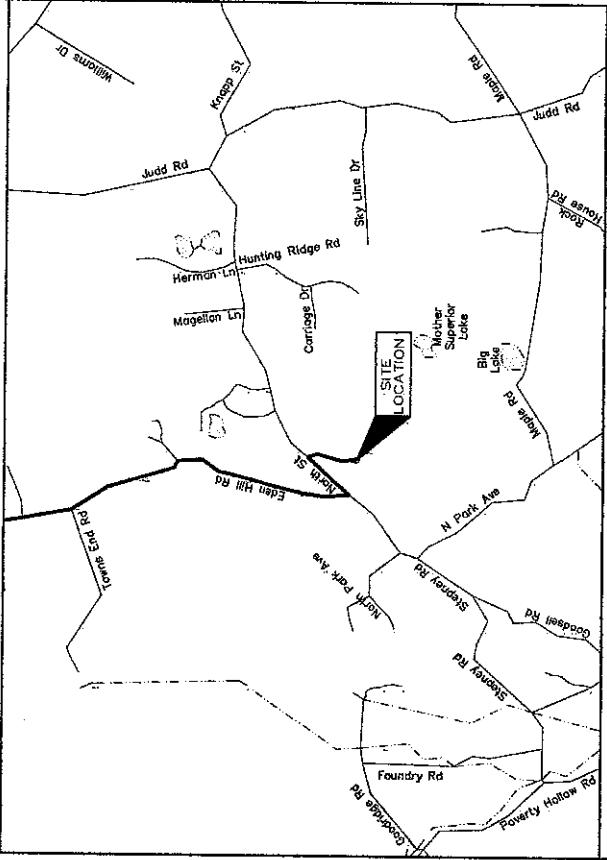
DRIVING DIRECTIONS

1. TAKE I-84 W.
2. TAKE EXIT 1 FOR US-6W/CHURCH HILL ROAD.
3. TURN RIGHT ONTO CT-34W/US-6W/CHURCH HILL ROAD.
4. TURN LEFT ONTO MAIN STREET.
5. TAKE FIRST RIGHT ONTO CT-30W/SUGAR STREET.
6. TAKE SHARP LEFT ONTO HATTERTON ROAD.
7. TURN RIGHT ONTO EDEN HILL ROAD.
8. TURN LEFT ONTO NORTH STREET.
9. TURN RIGHT ONTO ACCESS DRIVE AT 275 NORTH STREET AND FOLLOW TO TOWER.

PROJECT DESCRIPTION

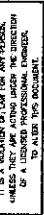
THIS PROJECT ADDS THREE ANTENNAS, SIX RRM SURGE PROTECTORS, AND A PAIR CABINET TO AN EXISTING TELECOMMUNICATIONS SITE.

VICINITY MAP



SHEET INDEX

SHEET NO:	REVISION HISTORY	
	NO:	DATE
C01	1	04 / 22 / 11
C02	1	04 / 22 / 11
C03	1	04 / 22 / 11
C04	1	04 / 22 / 11
C05	1	04 / 22 / 11
E01	1	04 / 22 / 11
G01	1	04 / 22 / 11
TOT	1	04 / 22 / 11



PROFESSIONAL ENGINEERING SOCIETY

NO. 17827

INC.

1907

It is a violation of law for any person, whether licensed or unlicensed, to practice engineering or to engage in a related profession without having first obtained a valid license issued by this society.

SITE ID:
CT5050
SITE NAME:
HIGH RIDGE
SITE ADDRESS:
275 NORTH STREET
EASTON, CT
06067
FAIRFIELD COUNTY

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T01



APRIL 22, 2011



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NEW CIRCULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE
ROCK HILL, CT 06877

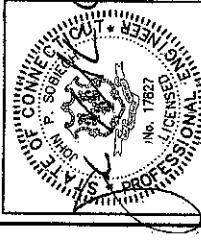


Zoning Proposals 02/2011

210 Main Street, P.O. Box 2010, Rock Hill, CT 06877 • www.chanet.com

CHA PRODUCT NO.
22702 - 109 - 43000

NO.	102424/11
1	EXISTING
2	PROPOSED
3	EXISTING
4	REMOVED
5	NOT APPLICABLE
6	NOT FOR CONSTRUCTION
7	NOT FOR USE
8	NOT FOR APPROVAL



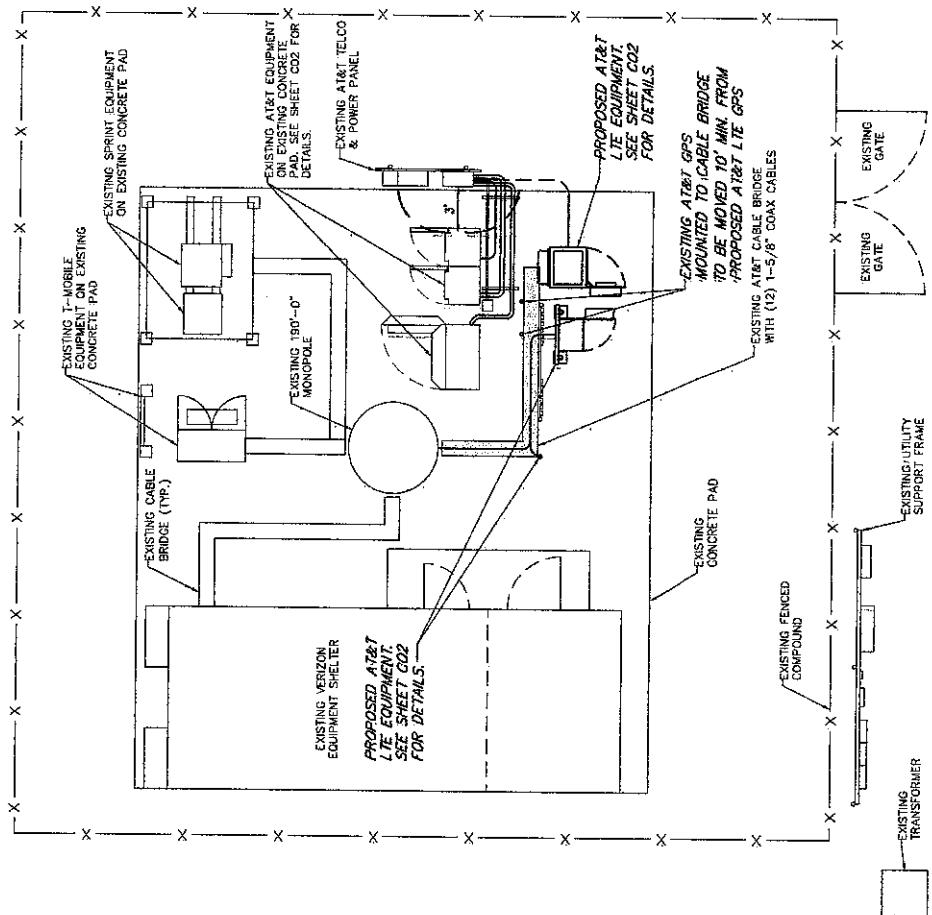
SITE ID:
CT5050
SITE NAME:
HIGH RIDGE
SITE ADDRESS:
275 NORTH STREET
EASTON, CT
06612
FAIRFIELD COUNTY

SHEET TITLE:

COMPOUND PLAN

SHEET NUMBER:

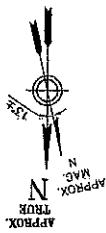
C01



SITE PLAN
C01

GRAPHIC SCALE
8 4 0 IN FEET

NOTE:
1. PLANS BASED ON A SITE VISIT BY CHA ON MARCH 08, 2011, AND
DRAWINGS PREPARED BY NATCOMM LLC, LAST DATED 02/07/04.





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NEW CLOUDLESS POS.
100 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

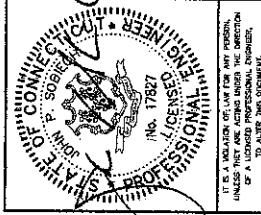


220 Main Street, New Haven, CT 06510-2200 • (203) 787-1000
www.cha.com

CHA PROJECT NO:

22002 - 510 - 40000

Submittal No.	0
Date Rec'd.	05/20/11
Spec. Ref'd.	2010 NEC
Drawn By	CHS
Checked By	WPS
Approved By	CHS
Comments	None



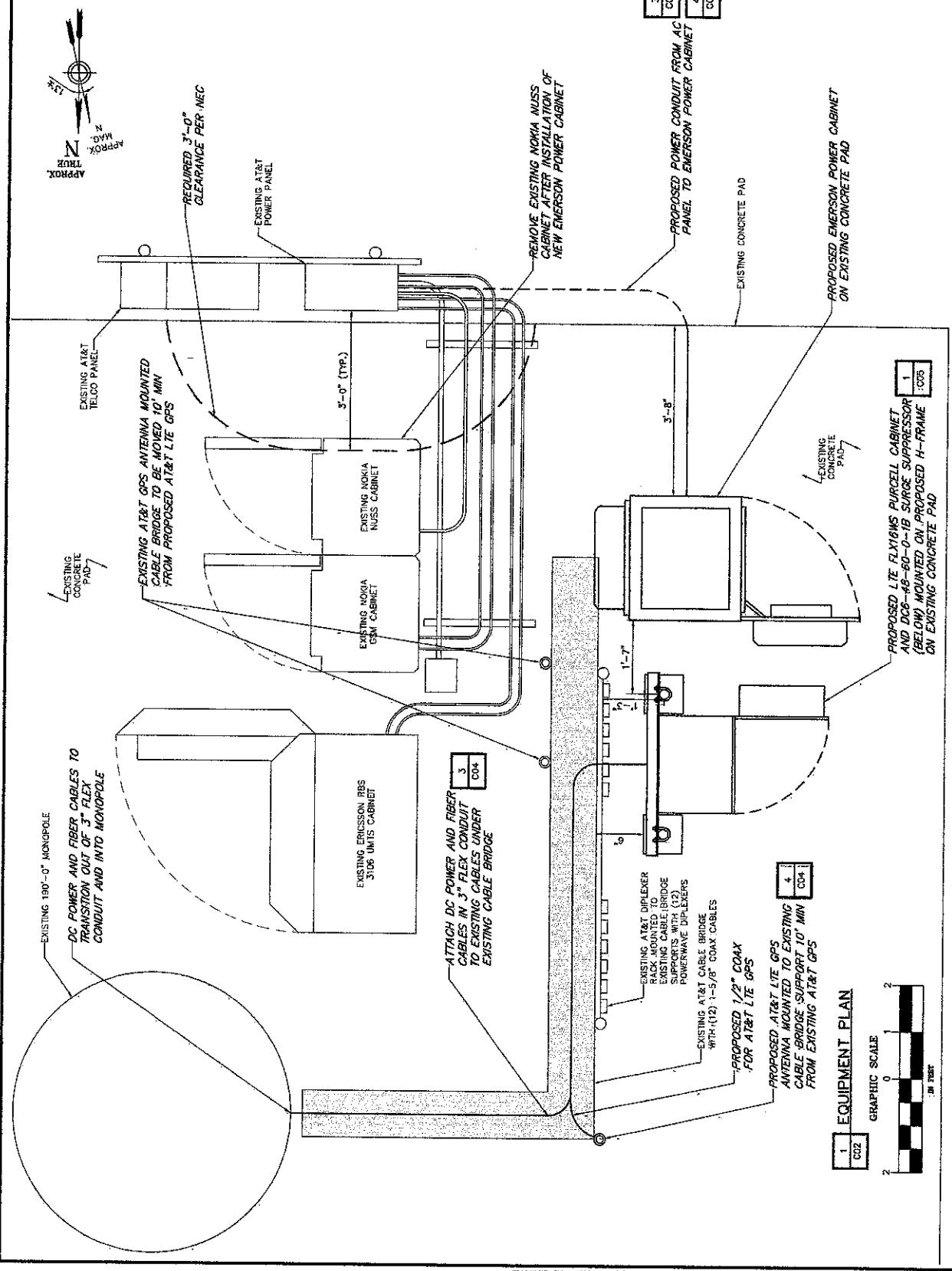
STATE OF CONNECTICUT
DEPARTMENT OF COMMUNICATIONS
PROFESSIONAL LICENSING
DIVISION OF CONSTRUCTION
LICENSE NUMBER: 17827
EXPIRATION DATE: 05/20/2012
ISSUED TO: CHA CORPORATION
ADDRESS: 220 MAIN STREET, NEW HAVEN, CT 06510-2200
APPROVED BY: CHS, P.E.

SHEET ID: CT5050
SITE NAME: HIGH RIDGE
SITE ADDRESS: 275 NORTH STREET
CITY: EASTON, CT
ZIP: 06612
COUNTY: FAIRFIELD COUNTY

C02

EQUIPMENT PLAN

C02





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NEW CIRCULAR WIRELESS, PCS,
SATELLITE, ENTERPRISE, DATA
ROCK HILL, SC 29730-3507



Engineering Services

CHA PROJECT NO.
22702 - 1018 ~ A3000



1

CHASER

NO. 17827

ISSUED TO

CHASER

NO. 17822

ISSUED TO

CHASER

NO. 17821

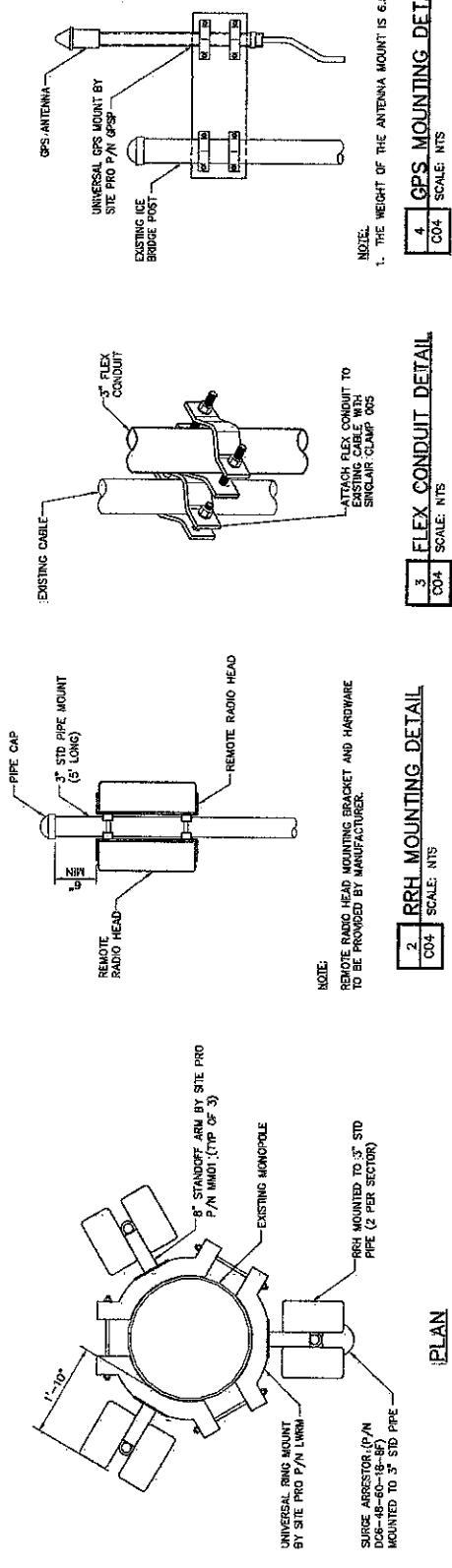
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CHASER

NO. 17820

ISSUED TO

CHASER



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INEN CIRULAR WIRELESS, PLLC
255 BROADWAY, SUITE 1000, NEW YORK, NY 10007

CHA

212 Blueberry Avenue, Suite 200, Hudson, MA 01749-2009
Tel: 800-222-3201 Fax: 508-863-3209 Web: www.cha.com

CHL PROJECT NO.:
22702 - 1018 - 43000

NO.	BUREAU NO.
0	FOILED FOR REVIEW
0	ISSUED FOR APPROVAL
1	REVISERED FOR APPROVAL
1	REVISERED FOR APPROVAL



STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
REGISTRATION
No. 17822

IT IS A VIOLATION OF LAW FOR ANY PERSON,
WITNESS, ATTORNEY, OR AGENT, TO PUBLISH
OR LEAK THE INFORMATION CONTAINED
IN THIS DOCUMENT.
TO ALTER THIS DOCUMENT.

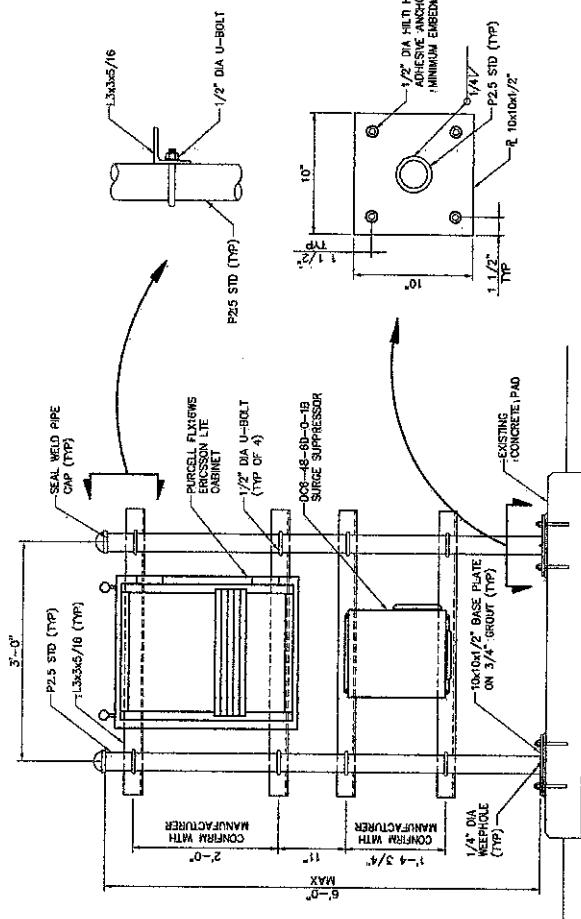
SITE ID:
CT15050
SITE NAME:
HIGH RIDGE
SITE ADDRESS:
275 NORTH STREET
EASTON, CT
06112
FAIRFIELD COUNTY

SHEET FILE:

STRUCTURAL DETAILS

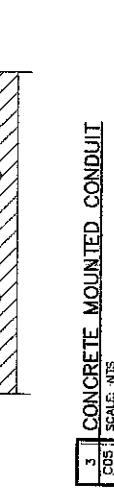
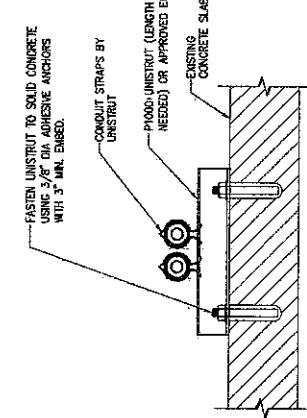
SHEET NUMBER:

C05



1 PURCELL AND SURGE ARRESTOR MOUNTING DETAIL

C05 SCALE: NT



NOTES:

1. REPLACE EXISTING SURFACE CONDUITS IN AND TO INCLUDE, BUT NOT LIMITED TO, CONCRETE, Poured STONE, SELECT GRAVEL, ASPHALT, TOPSOIL, AND GRASS.
2. 36" MIN. COVER.

4 UNDERGROUND CONDUITS

C05 SCALE: NT

3 CONCRETE MOUNTED CONDUIT

C05 SCALE: NT



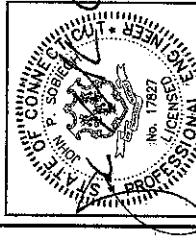
You world. Delivered.
NEW CIRCULAR WIRELESS, INC.
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067



2010-09-06 00:01
New Circular Wireless, Inc., 500 Enterprise Drive, Rocky Hill, CT 06067 - www.circularwireless.com

CHA PROJECT NO:
22702 - 1019 ~ 43000

Schematic	
No.	10/29/01
0	SOLID TORQUE TUBE
1	CNC PNL
2	PCB FOR CONDUCTOR
3	PCB PNL
4	PCB FOR CONDUCTOR
5	PCB PNL



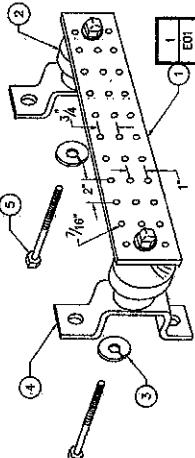
IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A CERTIFIED PROFESSIONAL, TO ALTER, MOVE,
OR DESTROY THIS SEAL.

STATE NAME:
HIGH RIDGE
SITE ADDRESS:
275 NORTH STREET
EASTON, CT
06612
FAIRFIELD COUNTY

GROUNDING DETAILS & PLUMBING DIAGRAM	
E01	NO SCALE

SHEET NUMBER:

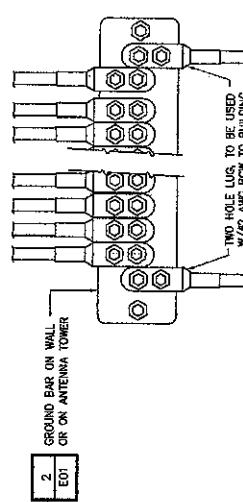
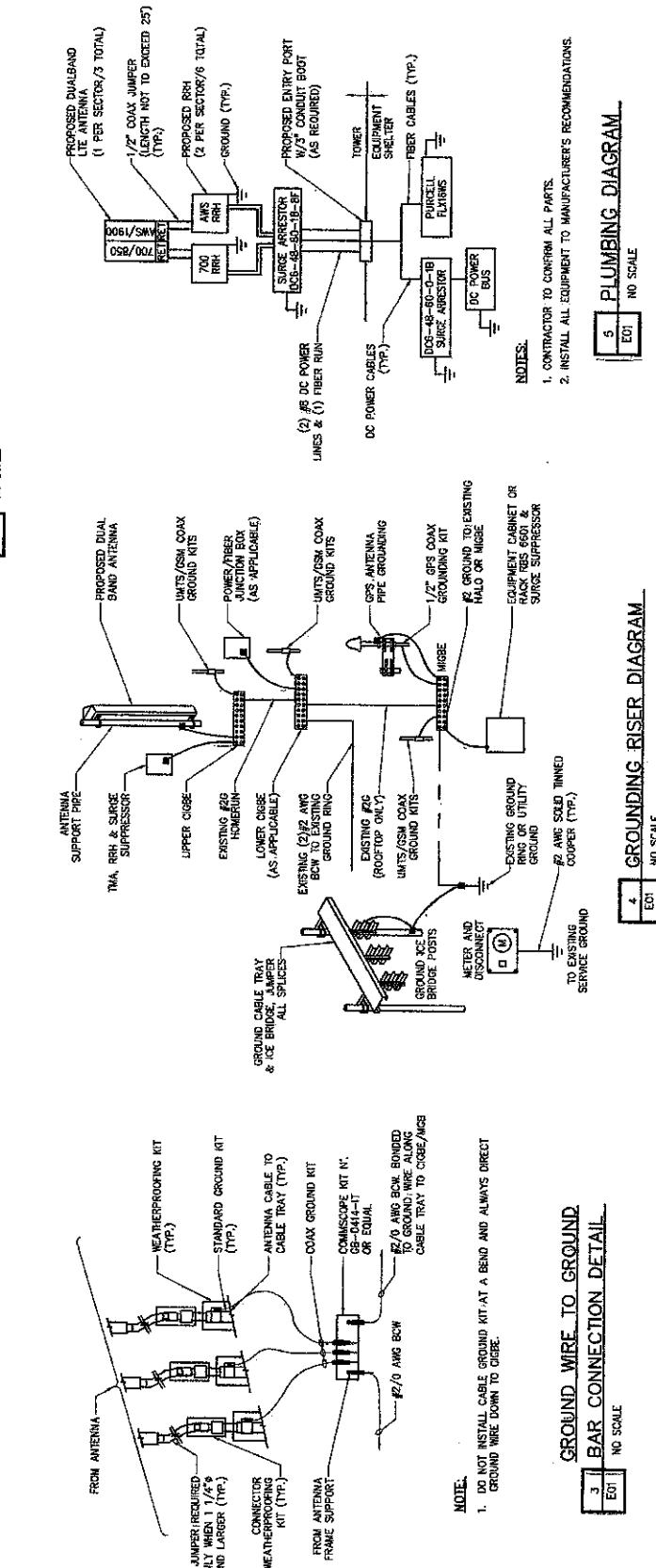
E01



LEGEND

- 1 - COPPER GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG
- 2 - INSULATORS, NEUTRON INSTRUMENT CAT. NO. 3081-4. (NOT TO BE USED ON BARS PHYSICALLY ATTACHED TO TOWER)
- 3 - 5/8" LOCKWASHERS, NEUTRON INSTRUMENT CO., CAT. NO. 3015-B
- 4 - WALL MOUNTING BRACKET, NEUTRON INSTRUMENT CO., CAT. NO. 3012-1
- 5 - 5/8" X 1" H-H.C.S.BOLTS, NEUTRON INSTRUMENT CO., CAT. NO. 3012-1

2 GROUND BAR

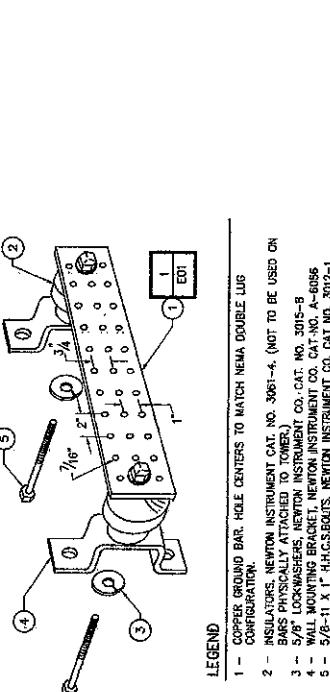


1 GROUND WIRE INSTALLATION TO GROUND BAR

NO SCALE

2 GROUND BAR

E01
NO SCALE

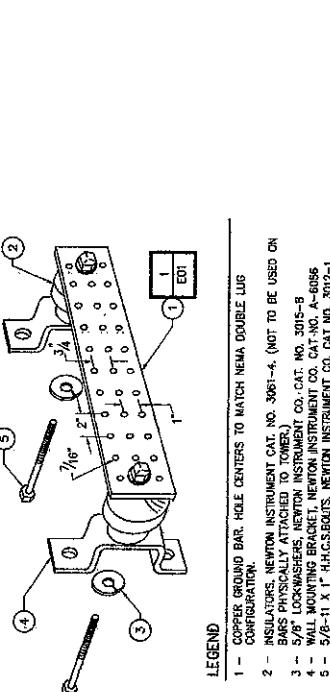


3 GROUND WIRE CONNECTION DETAIL

NO SCALE

2 GROUND BAR

E01
NO SCALE



4 PLUMBING

E01
NO SCALE

2 GROUNDING RISER DIAGRAM

E01
NO SCALE

E01
NO SCALE

GROUNDING SYSTEM NOTES:

1. CONDUCTOR USED FOR CELLULAR GROUNDING SYSTEM EGR - #2 AWG ANNEALED SOLID TINNED COPPER INTERNALS EXTENSION (FROM EGR TO EGR) - #2 AWG ANNEALED SOLID TINNED COPPER EXTERIOR EGR CONNECTIONS TO EGR - #2 AWG ANNEALED SOLID TINNED BARE TOWER BOND CONNECTION TO EGR - #2 AWG SOLID COPPER. 2. MINIMUM BENDING RADIUS EGR #2 AWG NOMINAL AND 8" MINIMUM. CELLULAR GROUNDING CONDUCTOR SHALL BE AS STRAIGHT AS POSSIBLE WITH MINIMUM 6" RADIUS.		SECTION 16120 CONDUCTORS 1.01 ALL CONDUCTORS SHALL BE THE TYPE THHN (INTERIOR) AND XHHW (EXTERIOR), 75 DEGREES C, 600 VOLT INSULATION, SOFT ANNEALED STRANDED COPPER, CONDUCTIVE COATING, AND SHEATH. SHALL BE SPLED USING SOFTLESSER PRESSURE CONNECTORS. ALL CONDUCTORS SHALL BE MARKED TO INDICATE SIZE, CONDUCTOR FOR LINE, VOLTAGE, BRANCH, CIRCUIT, AND SHALL BE MARKED TO IDENTIFY CONDUCTOR SIZES. REFER TO PANEL SCHEDULE CODED FOR CONSISTENT PHASE IDENTIFICATION.	
3. CONNECTORS (MECHANICAL) CONNECTOR LUG CONNECTOR - 15 TON COMPRESSION, 2 HOLE, LONG BARREL, ELECTRO TINNED PLATED, HIGH CONDUCTIVITY COPPER, #600 RATE, USE 1/4" DIA. BOLT, 1/4" SPACING LUGS TO BOND OBJECTS FROM EGR, OR CONNECTOR SHALL BE BURNED NYLON SERIES OR EQUAL.		1.02 MINIMUM BENDING RADIUS FOR CONDUCTORS SHALL BE 12' TIMES THE LARGEST DIAMETER OF BRANCH CIRCUIT CONDUCTOR.	
4. EXOTHERMIC WELD LUG CONNECTOR - 2 HOLE OFFSET, USE 1/4" DIA. BOLT, 1/4" SPACING LUGS TO BOND OBJECTS FROM EGR, OR EQUAL. CONNECTOR SHALL BE COLDWELD CONNECTION STYLE (CABLE TO SURFACE) TYPE "A". EXOTHERMIC WELD LUG AS REQUIRED.		1.03 120 / 240 VAC - 1 PHASE, 3 WIRE SYSTEM COLOR: A BLACK B RED C CONTINUOUS WHITE D CONTINUOUS GREEN	
5. CONNECTOR TAP COMPRESSION CONNECTOR - HIGH CONDUCTIVITY COPPER FOR HIGH CONDUCTIVITY COPPER, TOOL USE 1/4" DIA. BOLT, 1/4" SPACING LUGS. CONNECTOR SHALL BE COLDWELD CONNECTION STYLE (CABLE TO SURFACE) TYPE "A". EXOTHERMIC WELD LUG AS REQUIRED.		1.04 MINIMUM BENDING RADIUS FOR CONDUCTORS SHALL BE 12' TIMES THE LARGEST DIAMETER OF BRANCH CIRCUIT CONDUCTOR.	
6. CONNECTORS, BELLOWS (ELETROHEMULIC) PROVIDE COLDWELD CONNECTIONS - STYLE AND TYPE AS REQUIRED.		1.05 WHEN BONDING #2 TO #2 - USE EXOTHERMIC WELD CONNECTION. 6. WHEN EXOTHERMIC WELD COLDWELD TYPE VS CONNECTION TO FENCE POST STEEL SURFACE FOR POSSIBLE BURN THROUGH, PATCH WELDED AREA WITH GALVANIZED COATING AS REQUIRED FOR PROPER WELDED PERMANENT BOND. REFER TO MANUFACTURER'S REQUIREMENTS FOR DETAILS.	
7. WHEN BONDING #2 TO EGR - USE EXTERIOR OF SHELTER - USE EXOTHERMIC WELD CONNECTION.		SECTION 16050 GROUNDING 1.01 ALL NON CURRENT CARRYING PARTS OF THE ELECTRICAL SYSTEM AND CONNECTED TO GROUND SYSTEM SHALL BE MECHANICALLY AND ELECTRICALLY CONNECTED TO PROVIDE AN INDEPENDENT RETURN PATH TO THE EQUIPMENT CODE AND LOCAL INSPECTOR HAVING JURISDICTION.	
8. WHEN BONDING #2 TO EGR - USE EXTERIOR OF SHELTER - USE EXOTHERMIC WELD CONNECTION.		1.02 GROUNDING SYSTEM WILL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.	
9. WHEN BONDING #2 TO EGR - USE EXTERIOR OF SHELTER - USE EXOTHERMIC WELD CONNECTION.		1.03 ELECTRICAL AC SERVICE GROUNDED SYSTEM - GROUNDDING AT MAIN SERVICE OVERCURRENT PROTECTION DEVICE.	
10. WHEN BONDING #2 TO EGR - USE EXTERIOR OF SHELTER - USE EXOTHERMIC WELD CONNECTION.		A. THE GROUNDED CONDUCTOR (NEUTRAL) OF THE INCOMING SERVICE FEEDERS (LINE SIDE OF THE METER SOCKET) SHALL TERMINATE INTO THE MAIN OVERCURRENT CARRYING PARTS OF THE ELECTRICAL SYSTEM AND WHICH IS INSULATED FROM THE ENCLOSURE.	
11. WHEN BONDING #2 TO EGR - USE EXTERIOR OF SHELTER - USE EXOTHERMIC WELD CONNECTION.		B. THE GROUNDING ELECTRODE CONDUCTOR SHALL EXTEND CONTINUOUSLY WITHOUT SPLICES OR JOINTS FROM THE MAIN OVERCURRENT OF MICES SOLID NEUTRAL BAR TO THE MAIN SWITCHBOARD GROUND TERMINAL.	
12. WHEN BONDING #2 TO EGR - USE EXTERIOR OF SHELTER - USE EXOTHERMIC WELD CONNECTION.		C. THE MAIN SERVICE OVERCURRENT PROTECTION DEVICE ENCLOSURE'S EQUIPMENT GROUNDBAR KIT SHALL BE LOGGED TO THE ENCLOSURE, WITH THE SURFACES BETWEEN THEM BARE METAL, PROVIDED BONDING JUMPER CONDUCTOR. THE JUMPER CONDUCTOR SHALL BE THE SAME AS THE GROUNDING ELECTRODE CONDUCTOR. THE GROUNDBAR KIT IS TERMINATING INTO THE MAIN OVERCURRENT DEVICE BONDED TOGETHER WITH THE ANG BARE COPPER TINGS. THE BONDING SHALL BE TERMINATED INTO THE EQUIPMENT GROUNDBAR KIT.	
13. WHEN BONDING #2 TO EGR - USE EXTERIOR OF SHELTER - USE EXOTHERMIC WELD CONNECTION.		1004 CELLULAR GROUNDDING SYSTEM PROVIDE THE CELLULAR GROUNDDING SYSTEM AS SPECIFIED ON DRAWINGS, INCLUDING BUT NOT LIMITED TO: - GROUND BARS - EXTERIOR GROUNDDING RING - ANTENNA GROUNDDING CONNECTIONS AND PLATES	
14. WHEN BONDING #2 TO EGR - USE EXTERIOR OF SHELTER - USE EXOTHERMIC WELD CONNECTION.		1.05 CONTRACTOR, AFTER COMPLETION OF THE COMPLETE GROUNDDING SYSTEM BUT PRIOR TO CONCEALMENT, BURIAL, OR SAME, THE CONTRACTOR, CONSTRUCTION REPRESENTATIVE AND LOCAL AUTHORITY HAVING JURISDICTION WHO WILL HAVE A VISUAL INSPECTION OF THE GROUNDDING GRID, RODS AND CONNECTIONS OF THE EXTERIOR GROUNDDING SYSTEMS.	
15. WHEN BONDING #2 TO EGR - USE EXTERIOR OF SHELTER - USE EXOTHERMIC WELD CONNECTION.		APPURTENANCE SUPPORT BRACKET NOTES: 1. DESIGN RESPONSIBILITY OF APPURTENANCE MOUNTING BRACKETS AND POLES AND ALL COMPONENTS THERE OF AND ATTACHMENT THERE TO SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER. MANUFACTURER SHALL PROVIDE TO THE ENGINEER FOR APPROVAL, DRAWINGS DETAILING ALL COMPONENTS OF THE ASSEMBLY, INCLUDING CONNECTIONS, DESIGN LOADS, AND ALL OTHER PERTINENT DATA. ALL SUBMISSIONS SHALL BEAR THE STAMP AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT. 2. BRACKETS SHALL BE DESIGNED TO SUPPORT CURRENT AND FUTURE PANEL SHOTAINS, REMOTE RADIO HEADS, SURGE ARRESTORS, AND COAXIAL CABLES AS SHOTAIN.	
16. WHEN BONDING #2 TO EGR - USE EXTERIOR OF SHELTER - USE EXOTHERMIC WELD CONNECTION.		SITE NO. C15050 SITE NAME: HIGH RIDGE SITE ADDRESS: 275 NORTH STREET EASTON, CT FAIRFIELD COUNTY SHEET NO. GENERAL NOTES SHEET NUMBER GNO1	



FDH Engineering, Inc., 2730 Rowland Rd. Raleigh, NC 27615, Ph. 919.755.1012, Fax 919.755.1031

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

185' Monopole

**SBA Site Name: North Easton
SBA Site ID: CT00707-S**

FDH Project Number 11-05207E S1

Prepared By:

Brandon Compton, EI
Project Engineer

Reviewed By:

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

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June 2, 2011



Prepared pursuant to TIA/EIA-222-F June 1996 Structural Standards for Steel Antenna Towers and Antenna Supporting Structures

TABLE OF CONTENTS

EXECUTIVE SUMMARY.....	3
Conclusions	
Recommendations	
APPURTEINANCE LISTING.....	4
RESULTS.....	5
GENERAL COMMENTS.....	6
LIMITATIONS.....	6
APPENDIX.....	7

EXECUTIVE SUMMARY

At the request of SBA Network Services, Inc., FDH Engineering, Inc. performed a structural analysis of the monopole located in Easton, 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*. Information pertaining to the existing/proposed antenna loading, current tower geometry, soil parameters, foundation dimensions, and member sizes was obtained from Paul J. Ford and Company (Job No. 20099-146) original design drawings dated August 10, 1999, Jaworski Geotech, Inc. (Project No. C98404G) Geotechnical Evaluation dated July 30, 1999, and SBA Network Services, Inc.

The *basic design wind speed* per the *TIA/EIA-222-F* standards is 85 mph without ice and 38 mph with 3/4" radial ice. Ice is considered to increase in thickness with height.

Conclusions

With the current and proposed antennas from AT&T in place at 155' (see **Table 1**), the tower meets the requirements of the *TIA/EIA-222-F* standards provided the **Recommendations** listed below are satisfied. Furthermore, provided the foundation was designed and constructed to support the original design reactions (see Paul J. Ford Job No. 20099-146), the foundation should have the necessary capacity to support the existing and proposed 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 are met with the existing and proposed loading in place, we have the following recommendations:

1. Proposed coax should be installed inside the monopole's shaft.
2. Existing TMAs should be installed directly behind the proposed and existing antennas.
3. Proposed RRUs should be installed directly behind the proposed and existing antennas.

APPURTEINANCE 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 this layout, FDH Engineering, Inc. should be contacted to perform a revised analysis.

Table 1 – Appurtenance Loading

Existing Loading:

Antenna No.	Antenna Elevation (ft)	Description	Coax and Lines ¹	Carrier	Mount Elevation (ft)	Mount Type
1-3	185	(3) EMS-RR90-17-02DP (6) Allen Telecom FE15S01P77/75 TMAs	(6) 1-5/8"	T-Mobile	185	(3) Cobra Arms
---		6' Branches	---	---	---	---
---	179.5	6' Branches	---	---	---	---
4-9	175	(6) Decibel DB980H90E-M	(6) 1-5/8"	Sprint	175	(3) Cobra Arms
---	174.5	7' Branches	---	---	---	---
---	196.5	8' Branches	---	---	---	---
10-21	165	(6) Antel LPA-80090/4CF (6) Antel LPA-185090/8CF	(12) 1-5/8"	Verizon	165	(3) Cobra Arms
---	164.5	8' Branches	---	---	---	---
---	159.5	9' Branches	---	---	---	---
22-27	155 ²	(6) Powerwave 7770 (6) Powerwave LGP 21401 TMAs (6) Powerwave LGP 21903 Diplexers	(12) 1-5/8"	AT&T	155	(3) Cobra Arms
---	154.5	9' Branches	---	---	---	---
---	149.5	10' Branches	---	---	---	---
---	144.5	11' Branches	---	---	---	---

1. Coax installed inside the pole's shaft, unless otherwise noted.

2. AT&T's loading will be altered at 155'. See the proposed loading below.

Proposed Loading:

Antenna No.	Antenna Elevation (ft)	Description	Coax and Lines	Carrier	Mount Elevation (ft)	Mount Type
1-9	155 ¹	(6) Powerwave 7770.00 (3) Powerwave P65-16-XLH-RR (6) Powerwave LGP 21401 TMAs (6) Powerwave LGP21903 Diplexers (6) Ericsson RRUS-11 RRUs (1) Raycap DC6-48-60-18-8F Surge Suppressor	(12) 1-5/8" (1) Fiber (2) DC Power	AT&T	155	(3) Cobra Arms

1. This represents the final configuration for AT&T at 155'. According to the information provided by SBA, AT&T will install (3) Powerwave P65-16-XLH-RR antennas, (6) Ericsson RRUS-11 RRUs, (1) Raycap DC6-48-60-18-8F Surge Suppressor, (1) 0.39" fiber cable, and (2) 0.645" DC Power cables in addition to their existing antennas, TMAs, diplexers, and coax at 155'.

RESULTS

Based on information obtained from the original design drawings, the yield strength of steel for individual members was as follows:

Table 2 - Material Strength

Member Type	Yield Strength
Tower Shaft Sections	65 ksi
Base Plate	50 ksi
Anchor Bolts	75 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	185 - 143.75	Pole	TP33.22x21.375x0.1858	97.4	Pass
L2	143.75 - 94.0833	Pole	TP47.108x31.6042x0.375	93.9	Pass
L3	94.0833 - 46.1667	Pole	TP60.118x44.6114x0.4375	90.4	Pass
L4	46.1667 - 0	Pole	TP72.5x56.9936x0.4375	95.4	Pass
		Anchor Bolts	(24) 2.25" ø w/ BC = 79.875" BC	88.4	Pass
		Base Plate	79.625" sq. PL x 3.5" thk.	60.6	Pass

*Capacities include 1/3 allowable increase for wind.

Table 4 – Maximum Base Reactions

Base Reactions	Current Analysis (TIA/EIA-222-F)	Original Design (TIA/EIA-222-F)
Axial	57 k*	52 k
Shear	50 k	53 k
Moment	6,975 k-ft	7,275 k-ft

*Given our experience with foundations of a similar nature, the vertical load will not control.

GENERAL COMMENTS

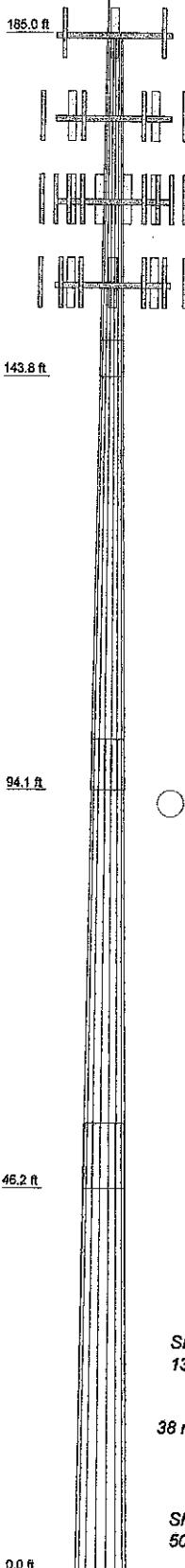
This engineering analysis is based upon the theoretical capacity of the structure. It is not a condition assessment of the tower and its foundation. It is the responsibility of SBA Network Services, Inc. to verify that the tower modeled and analyzed is the correct structure (with accurate antenna loading 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	4	Length (ft)	54.00
Number of Sides	18	18	18
Thickness (in)	0.4375	0.4375	0.3750
Socket Length (ft)	7.83	7.83	6.08
Top Dia (in)	44.6114	44.6114	31.8562
Bot Dia (in)	72.5000	60.1180	47.1030
Grade	A572-65		
Weight (K)	40.4	16.4	8.5



DESIGNED APPURTEANCE LOADING

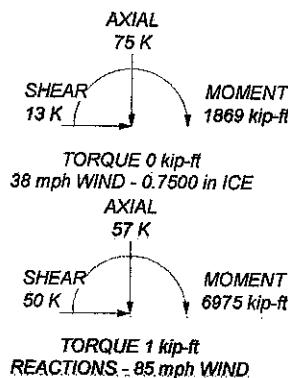
TYPE	ELEVATION	TYPE	ELEVATION
Lightning Rod	185	(2) LPA-80890/4CF w/Mount Pipe	165
RR90-17-02DP w/Mount Pipe	185	(2) LPA-80890/4CF w/Mount Pipe	165
RR90-17-02DP w/Mount Pipe	185	(2) LPA-185090/6CF w/Mount Pipe	165
RR90-17-02DP w/Mount Pipe	185	8' Branches	164.5
(3) Empty Pipe Mount	185	9' Branches	159.5
(3) Empty Pipe Mount	185	(2) LGP 21401 TMA	155
(3) Empty Pipe Mount	185	(2) LGP 21401 TMA	155
(2) FE15S01P77/75 TMA	185	(2) LGP 21401 TMA	155
(2) FE15S01P77/75 TMA	185	(2) LGP21903 Diplexer	155
(2) FE15S01P77/75 TMA	185	(2) LGP21903 Diplexer	155
(3) Cobra Mounts	185	(2) LGP21903 Diplexer	155
6' Branches	185	(2) RRUS 11 RRU	155
6' Branches	179.5	(2) RRUS 11 RRU	155
(2) DB980H90E-M w/Mount Pipe	175	(2) RRUS 11 RRU	155
(2) Empty Pipe Mount	175	Raycap DC6-48-60-18-8F Surge Suppressor	155
(2) Empty Pipe Mount	175	(3) Cobra Mounts	155
(2) Empty Pipe Mount	175	(2) 7770.00 W/Mount Pipe	155
(3) Cobra Mounts	175	(2) 7770.00 W/Mount Pipe	155
(2) DB980H90E-M w/Mount Pipe	175	(2) 7770.00 W/Mount Pipe	155
(2) DB980H90E-M w/Mount Pipe	175	(2) P65-16-XLH-RR w/Mount Pipe	155
7' Branches	174.5	P65-16-XLH-RR w/Mount Pipe	155
8' Branches	169.5	P65-16-XLH-RR w/Mount Pipe	155
(2) LPA-185090/8CF w/Mount Pipe	165	P65-16-XLH-RR w/Mount Pipe	155
(2) LPA-185090/8CF w/Mount Pipe	165	9' Branches	154.5
(3) Cobra Mounts	165	10' Branches	149.5
(2) LPA-80890/4CF w/Mount Pipe	165	11' Branches	144.5

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Fairfield 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 0.75 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 50 mph wind.
5. TOWER RATING: 97.4%



FDH Engineering, Inc.
2730 Rowland Road
Raleigh, North Carolina
Phone: (919) 755-1012
FAX: (919) 755-1031

Job: NORTH EASTON, CT - CT00707-S

Project: 11-05207E S1

Client: SBA Network Services, Inc. Drawn by: Brandon Compton App'd:

Code: TIA/EIA-222-F Date: 06/02/11 Scale: NTS

Path: \FDH\Jobs\11-05207E\Drawings\CT00707-S1.dwg Dwg No: E-1

P65-16-XLH-RR**Dual Broadband Antennas**

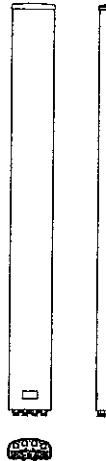
POLARIZATION: Dual linear ±45°
 FREQUENCY (MHz): 698-894, 1710-2170
 HORIZONTAL BEAM WIDTH (°): 65, 65
 GAIN (dBi/dBd): 15.5/13.4 17.5/15.4
 TILT: 1-12, 0-8
 LENGTH: 72"

ELECTRICAL SPECIFICATIONS*

	698-894		1710-2170		
Frequency range (MHz)	698-806	806-894	1710-1880	1850-1990	1900-2170
Frequency band (MHz)	14.8/12.7	15.5/13.4	16.9/14.8	17.2/15.1	17.5/15.4
Dual Linear +/- 45					
Nominal Impedance (Ω)	50		50		
VSWR	< 1.5:1		< 1.5:1		
Horizontal beam width, -3 dB (°)	66	65	60	63	63
Vertical beam width, -3 dB (°)	14.7	12.5	6.8	6.4	5.7
Electrical down tilt (°)	1 to 12		0 to 8		
Side lobe suppression, vertical 1st upper (dB)	> 16	> 16	> 16		
Isolation between inputs (dB)	> 30	> 30	> 30	> 30	
Inter band Isolation (dB)	> 40		> 40		
Tracking, horizontal plane ±60° (dB)	< 2		< 2	< 2	< 2
First null fill (dB)			>-20	>-20	>-20
Vertical beam squint (°)	< 0.8	< 0.8	< 0.5	< 0.5	< 0.5
Front to back ratio (dB) 180°±30° copolar	>24	>24	>30	>30	>28
Front to back ratio (dB) 180°±30° total power					
Cross polar discrimination (XPD) 0° (dB)	> 15	> 15	> 15	> 15	> 15
Cross polar discrimination (XPD) ±60° (dB)	> 10	> 10	> 10	> 10	> 10
Far field coupling					
IM3, 2xTx@43dBm (dBc)	<-153		<-153		
IM7, 2xTx@43dBm (dBc)					
Power handling, average per input (W)	500		250		
Power handling, average total (W)	1000		500		

MECHANICAL SPECIFICATIONS*

Connector	4 X 7/16 DIN Female, IP67
Connector position	Bottom
Dimensions, HxWxD, mm (ft)	72" x 12" x 6" (1829 x 305 x 152)
Mounting	Pre-mounted Tilt Brackets
Weight, with brackets, kg (lbs)	29 (64)
Weight, without brackets, kg (lbs)	24 (53)
Wind load, frontal/lateral/rear side 42 m/s Cd=1.6 (N)	1380
Maximum operational wind speed, m/s (mph)	100 (45)
Survival wind speed, m/s (mph)	150 (67)
Lightning protection	DC Ground
Operating Temperature	-40C to +60C
Radome material	PVC, IP55
Packet size, HxWxD, mm (ft)	87" x 16" x 10" (2225 x 400 x 225)
Radome colour	Light Grey
Shipping weight, kg (lbs)	34 (75)
RET	IRET AISGv1.1, MET and AISGv2.0
Brackets	7256.00, 7454.00A



*All specifications subject to change without notice. Please contact your Powerwave representative for complete performance data.

ANTENNA PATTERNS*

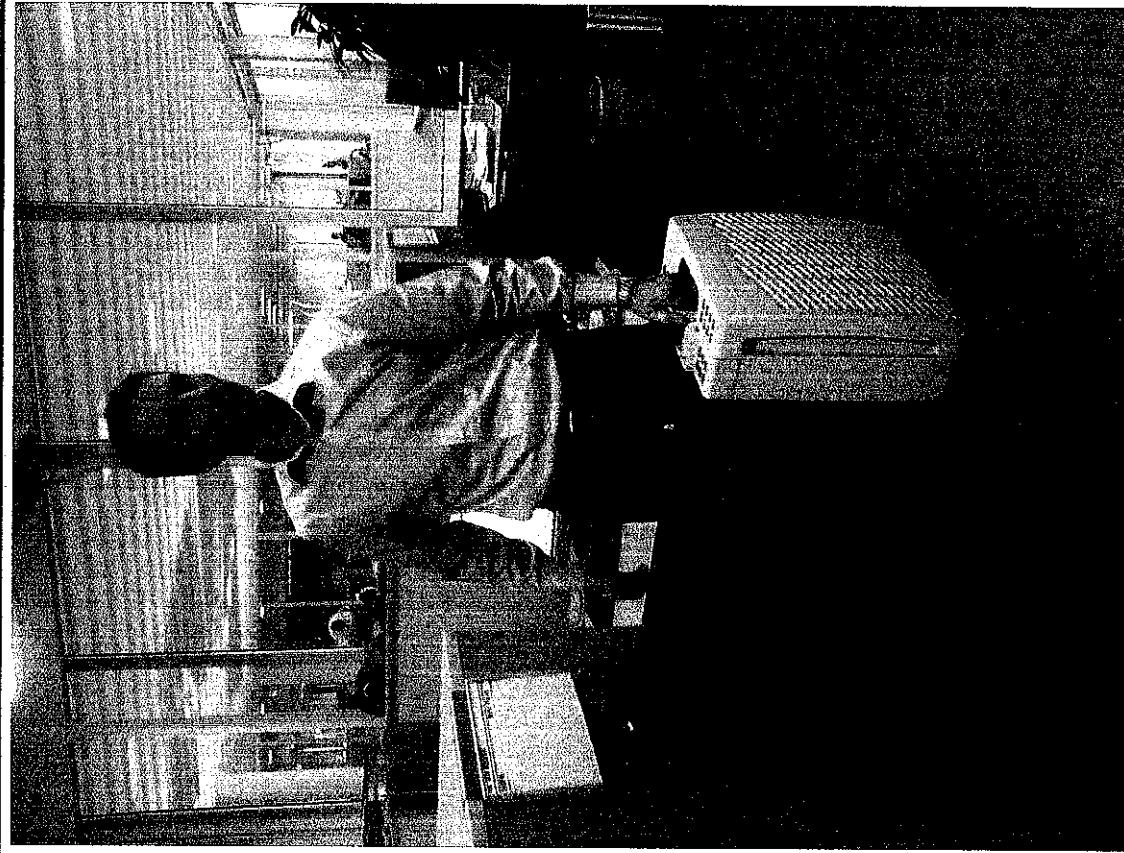
For detailed patterns visit <http://www.powerwave.com/rpa/>.

RRUS 11 – Dual PA RRU.

Technical Data



RBS6000

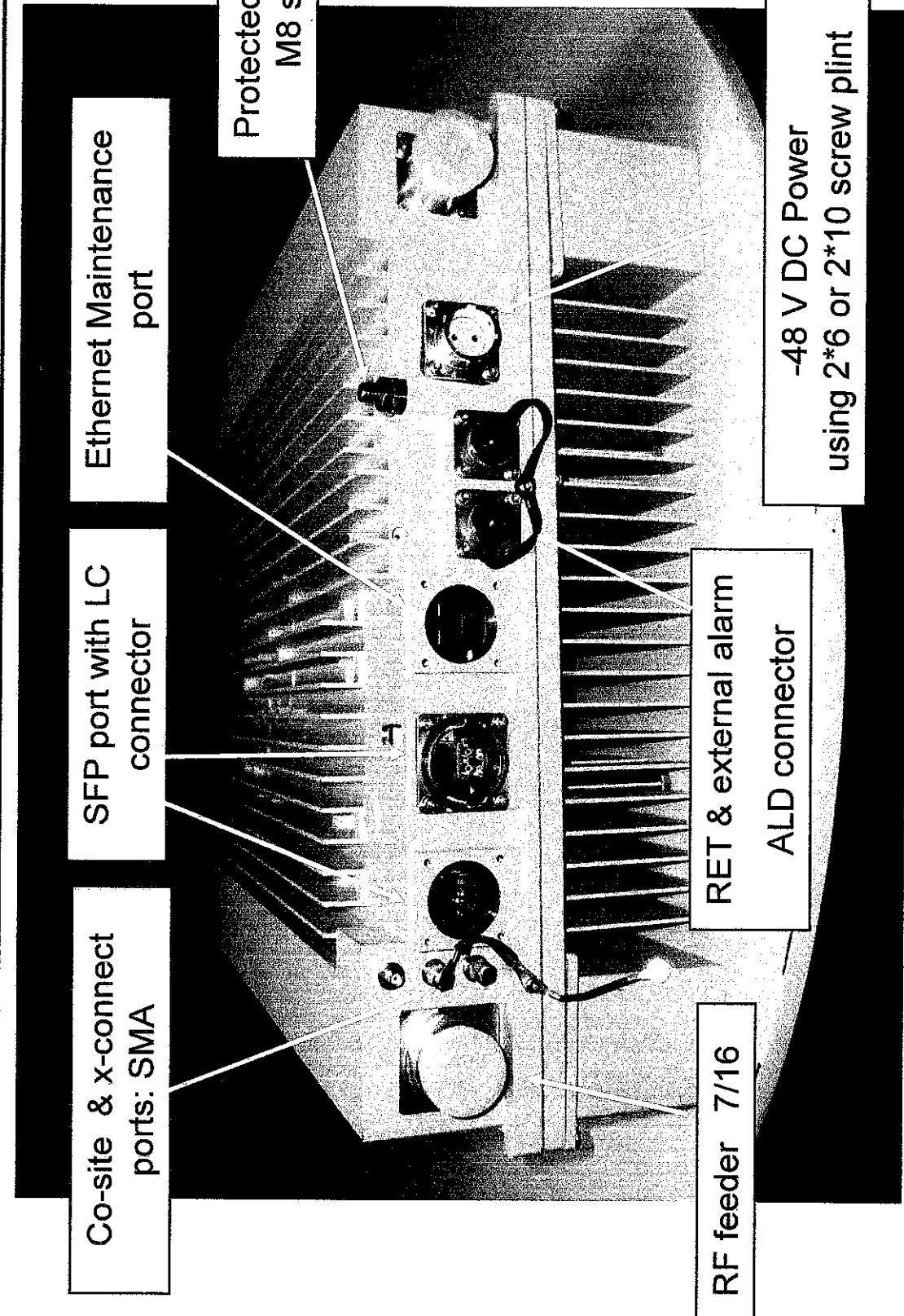


- > Multi standard
- > RF: 2x30 Watts
- > Carrier BW: 1.4 – 20 MHz
- > Alarms: 2
- > Dimensions (with sunshield):
 - Width: 17.0 in
 - Height: 17.8 in
 - Depth: 7.2 in
 - Weight: 55 lbs (Band 12)
50 lbs (Band 4)
 - Weight: -40 to +131 F
- > Temperature:
- > Cooling: Self convection
- > Power: -48 VDC
- > Rec. fuse size 20 Amp
 - Rec. DC cable:
 - > 6 mm² up to 60 meters
 - > 10 mm² over 60 meters
 - > Shielded
- > Power Cons: 200 Watts typ.

RRUS-11 I/F



RBS6000



POWER

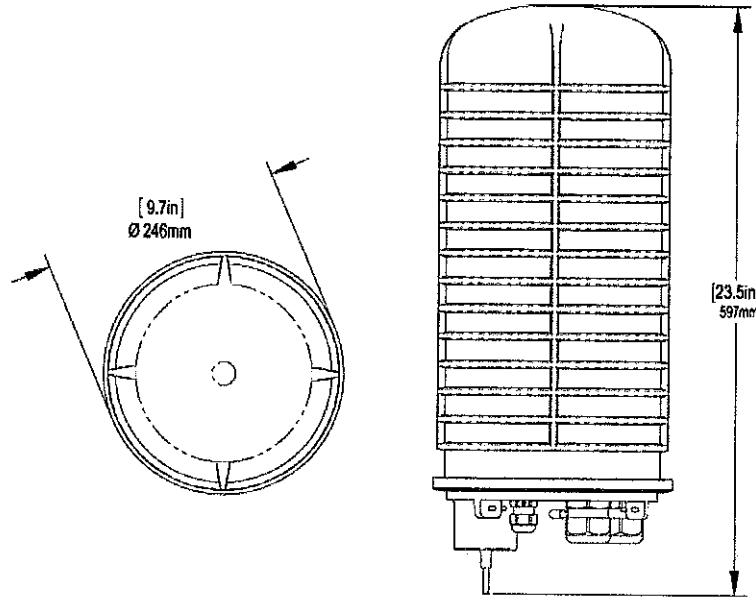
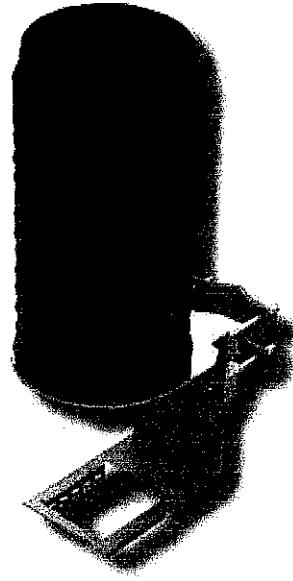
DC6-48-60-18-8F

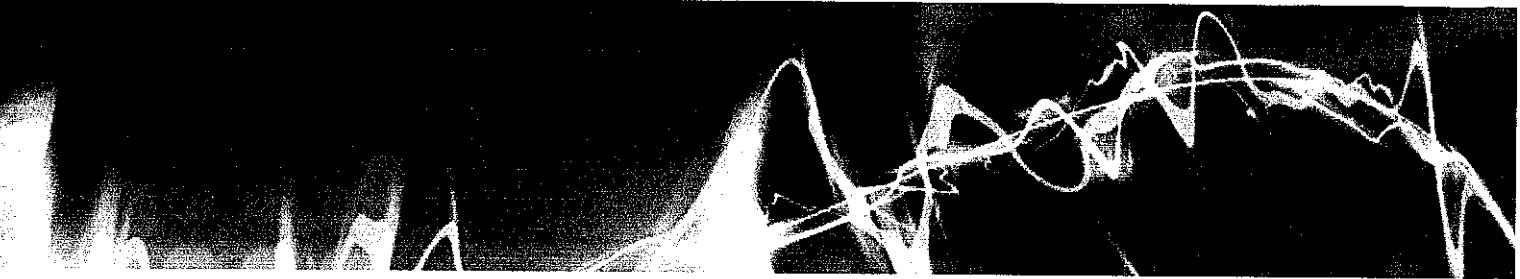
DC Surge Suppression Solution

The DC6-48-60-18 is a dual chambered, DC surge suppression system for use in multi-circuit, Distributed Antenna Systems. The system will protect up to 6 Remote Radio Heads from voltage surges and lightning, and connect up to 18 fiber pairs. The system is enclosed in a NEMA 4 rated, waterproof enclosure.

FEATURES

- Protects up to 6 Remote Radio Heads, each with its own protection circuit.
- Flexible design allows for installation at the top of a tower for Remote Radio Head protection.
- Includes fiber connections for up to 18 pairs of fiber.
- LED Indicators on individual circuits provide visual indication of suppressor status.
- Form 'C' relays allow for remote monitoring of the suppressor status.
- Patented Strikesorb technology provides over 60 kA of surge current capacity per circuit.
- Strikesorb suppression modules are fully recognized to UL 1449-3rd Edition Safety Standard, meeting all intermediate and high current fault requirements to facilitate use in OEM applications.
- Raycap recommends that DC protection system be installed within 2 meters or 6 feet of the radio.
- Dome design is lightweight and aerodynamic providing maximum flexibility for installation on top of towers.





DC6-48-60-18-8F

DC Power Surge Protection

Electrical Specifications

Model Number	DC6-48-60-18-8F
Nominal Operating Voltage	48 VDC
Nominal Discharge Current (I_n)	20 kA 8/20 μ s
Maximum Discharge Current (I_{max}) per NEMA LS-1	60 kA 8/20 μ s
Maximum Continuous Operating Voltage (U_c)	75 VDC
Voltage Protection Rating	400 V

Mechanical Specifications

Suppression Connection Method	Compression lug, #2-#14 AWG Copper, #2-#12 Aluminum
Fiber Connection Method	LC-LC Single mode duplex
Environmental Rating	IP 68, 7m 72hrs
Operating Temperature	-40° C to + 80° C
Storage Temperature	-70° C to + 80° C
Cold Temperature Cycling	IEC 61300-2-22e -30° C to + 60° C 200 hrs @ 5 psi
Resistance to Aggressive Materials	CEI IEC 61073-2 including acids and bases
UV Protection	ISO 4892-2 Method A Xenon-Arc 2160 hrs
Weight	20 lbs without Mounting Bracket

STANDARDS

Strikesorb modules are compliant to the following Surge Protection Device (SPD) Standards:

- ANSI/UL 1449 – 3rd Edition
- IEEE C62.41
- NEMA LS-1, IEC 61643-1:2005 2nd Edition:2005
- IEC 61643-12
- EN 61643-11:2002 (including A11:2007)



GS-07F-0435V

Certified to
ISO 9001:2000

Raycap

G02-00-068 REV 050610

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Rocky Hill, Connecticut 06067-3900
Phone: (860) 463-5511
Fax: (860) 513-7190

Douglas L. Culp
Real Estate Consultant

June 14, 2011

Honorable Thomas A. Herrmann
1st Selectman, Town of Easton
Easton Town Hall
225 Center Road
Easton, CT 06612

Re: Telecommunications Facility – 275 North Street Easton, CT

Dear Selectman Herrmann:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System (“UMTS”) and Long Term Evolution (“LTE”) capabilities, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC (“AT&T”) will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review AT&T’s proposal. Please accept this letter as notification 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 accompanying letter to the Siting Council fully describes Cingular’s proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council’s procedures; please call me at (860) 463-5511 or Ms. Linda Roberts, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Douglas L. Culp
Real Estate Consultant

Enclosure