



Crown Castle
12 Gill Street, Suite 5800
Woburn, MA 01801

March 8, 2017

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

RE: Notice of Exempt Modification for Sprint / Crown Site BU: 828054
Sprint Site ID: CT60XC014
Located at: 300 Governors Highway, South Windsor, CT 06903
Latitude: 41° 6' 6.35"/ Longitude: -73° 35' 41.45"

Dear Ms. Bachman,

Sprint currently maintains three (3) antennas at the 148-foot level of the existing 165-foot monopole at 300 Governors Highway, South Windsor, CT. The tower is owned by Crown Castle. The property is owned by Electron Technologies. Sprint now intends to replace three (3) antennas with three (3) RFS antennas. Sprint also intends to replace feedlines with three (3) hybrid lines and install three (3) 800MHz RRUs and three (3) 1900MHz RRUs.

This facility was approved by the Town of South Windsor Planning & Zoning Commission on July 13, 1999. This approval was given without conditions.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16-50j-72(b)(2). In accordance with R.S.C.A. § 16-50j-73, a copy of this letter is being sent to the Honorable Carolyn Mirek, Mayor, Town of South Windsor, as well as the property owner and the tower owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modification will not require the extension of the site boundary.

3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Sprint respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Amanda Goodall.

Sincerely,

Amanda Goodall

Real Estate Specialist

12 Gill Street, Suite 5800, Woburn, MA 01801

339-205-7017

Amanda.Goodall@crowncastle.com

Attachments:

Tab 1: Exhibit-1: Compound plan and elevation depicting the planned changes

Tab 2: Exhibit-2: Structural Modification Report

Tab 3: Exhibit-3: General Power Density Table report (RF Emissions Analysis Report)

cc:

The Honorable Carolyn Mirek, Mayor,
Town of South Windsor
1540 Sullivan Avenue
South Windsor, CT 06074

Planning & Zoning
Town of South Windsor
1540 Sullivan Avenue
South Windsor, CT 06074

Electron Technologies Corp.
300 Governors Highway
PO Box 316
South Windsor, CT 06074

**TOWN OF SOUTH WINDSOR
PLANNING & ZONING COMMISSION
APPLICATION FORM**



Application No: 99-51P
 Official Receipt Date: _____
 Receipt No: _____

APPLICANT: Tom Gilligan, For Omnipoint Communications, Inc
 PROJECT NAME: PROPOSED MONOPOLY WIRELESS COMMUNICATIONS
 ADDRESS: 300 GOVERNOR'S HIGHWAY
 OWNER OF RECORD ON LAND RECORDS: ELECTRON TECHNOLOGIES CORPORATION
 ADDRESS: 300 GOVERNOR'S HIGHWAY
 COMPLETE LOCATION OF PROPERTY: NORTH SIDE OF GOVERNOR'S HIGHWAY APPROX 700' WEST OF NUTMEG RD.
 ASSESSOR'S MAP # 71 PARCEL # 22 ZONE I

NAME, ADDRESS, TEL & FAX # OF PERSON TO WHOM INQUIRIES SHOULD BE DIRECTED:
Tom Gilligan % Omnipoint Communications, Inc. 100 Filley Street
Boonfield, CT 06002 TEL - 692-7132 FAX 697-7159

THIS APPLICATION IS FOR: (Check all that apply):

- Zone Change to _____ (Public Hearing required and Certified letter to abutters required)
- Subdivision/Resubdivision Open Space Subdivision (Public Hearing Required)
- Subdivision Minor Major
- Resubdivision (Public Hearing Required) Minor Major
- Conditional Approval
- Special Exception to Article XVI (Public Hearing, Certified letter to abutters required)
- Site Plan of Development
- General Plan of Development
- Earth Filling (Sec. 15) and/or Earth Removal (Sec. 14 - Public Hearing required)
- Regulation Amendment: Zoning Subdivision (Attach proposed amendment)
- Temporary and Conditional Permit for _____
- Major Home Occupation for _____
- Other (explain in detail) _____

An Application Pending sign is required to be posted on the property for all applications ten (10) days prior to being heard by the Commission.

Tom Gilligan, For Omnipoint
 Signature of Applicant

SEE ATTACHED LEASE AGREEMENT
 Signature of Property Owner

(See reverse side for additional information)



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@po.state.ct.us
Web Site: www.state.ct.us/csc/index.htm

RECEIVED

SEP 04 2003

August 27, 2003

SOUTH WINDSOR PLANNING DEPT.

Michele G. Briggs
Manager of Real Estate
Cingular Wireless
500 Enterprise Drive, 3rd Floor
Rocky Hill, CT 06067

RE: **EM-CING-132-030728** - Southwestern Bell Mobile Systems, LLC notice of intent to modify an existing telecommunications facility located at 300 Governors Street, South Windsor, Connecticut.

Dear Ms. Briggs:

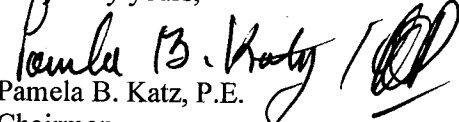
At a public meeting held on August 26, 2003, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated July 28, 2003. 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. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,


Pamela B. Katz, P.E.
Chairman

PBK/laf

c: Honorable William Aman, Mayor, Town of South Windsor
Marcia Banach, Director of Planning Town of South Windsor
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae
Christopher B. Fisher, Esq., Cuddy & Feder LP

CT-11-279A

TOWN OF SOUTH WINDSOR CHECKLIST REQUIRED INFORMATION SITE PLANS

APPLICANT OMNIPONT COMMUNICATIONS INC.

PROJECT NAME SOUTH WINDSOR

This checklist must be signed by plan preparer (P.E./L.S.) declaring that all required information is provided. Items 1-7 are required for all applications; items 8-11 required where appropriate.

Check mark for each item supplied.

- 1. On each sheet for plans or maps, title block with the following information:
 - a. Name, address and telephone of applicant.
 - b. Name, address and telephone number of Land Surveyor or Professional Engineer.
 - c. Name of Development.
 - d. Date when drawings were made.
- 2. Key Map: An overall map drawn to a scale of 1 inch equals either 100 feet or 200 feet. This map will show the overall design of the Development and surrounding property within 500 feet.
 - a. Data block which gives needed zoning information such as percentage of lot coverage, acreage of tract, number of apartment units, parking requirements, etc.
 - b. Outline of buildings.
 - c. Layout of streets.
 - d. Surrounding property boundaries-within 500 feet.
 - e. Names of abutting property owners.
 - f. Proposed open spaces and recreation areas.
 - g. Driveway cuts on abutting properties and any properties across from proposed site.
 - h. Distance to and name of nearest intersection street.

✓

N/A

N/A

N/A

W

N/A

N/A

N/A

N/A

✓

N/A

N/A

N/A

N/A

N/A

f. Existing and proposed contours shall be shown in not less than two-foot intervals, but in cases of relatively level land, the contours shall be one-foot intervals and spot elevations.

g. Regulated wetlands and 100-year floodplain or note that none are present.

h. Proposed storm drainage system, showing all catch basins, endwalls, manholes, lengths and sizes of pipes and elevations of structures. (Maximum distance between catch basins shall be 300 feet and minimum size of storm drain lines shall be 15 inches, within Town ROW.) If plan/profile sheet is provided all of this does not need to be shown. Only top of frame elevations and inverts of open discharge pipe shall be shown on this plan.

i. Connections of all springs into proposed storm drainage system as needed.

j. Location and indications of existing brook channels, and 100-year flood limits.

k. A-2 & T-2 Certification; P.E./L.S. seals and signatures.

6. Landscaping plan:

7. Drainage calculations: - Zero Runoff Increase per attached guidelines.

8. Traffic Report:

9. Plans and Profiles: A plan and profile of the proposed streets drawn on plan/profile paper of scales 1 inch to 40 feet horizontally, and 1 inch to 4 feet vertically on sheets not exceeding 24 inches by 36 inches, including ruled margins and containing the following:

a. Layout of streets in sections coordinated by stations with the profile.

b. Street plan showing roadways, drainage, sanitary sewer (including house sewer), foundation drains, lot lines, buildings including all utilities with elevations (top frame and inverts), size, type, length, slopes of pipes.

c. Sight line at driveway & street intersections.

d. Profile of roadway showing existing and finished grades. Roadway profile will show all tangent grade and all vertical curve information.

e. Profile will show all catch basins and all drainage lines between catch basins with all invert and top of frame elevations, sizes, lengths and slopes of pipes.

N/A

f. Where any storm drainage line discharges into an existing brook sufficient profile of this brook will be shown to determine conditions.

N/A

g. CGS datum shall be used on all sites accessible to these controls. The Town Engineer shall, based on standard engineering practices, determine the accessibility of these controls.

N/A


h. Profiles shall show all sanitary sewer lines and manholes, including elevations, inverts, top of frame, sizes, lengths, and slopes of pipes. Top of foundation elevations for building shall be shown.

N/A

10. Open Space Site Improvement Plans: For sites which require or include a provision for open spaces, a plan which contains data for site improvement may be required. This map shall be drawn to a scale of 1 inch equals 40 feet.

N/A

11. Sanitary Report: Where individual sanitary sewage disposal systems are proposed, the final plans shall include a Sanitary Report certified by a Professional Engineer. The report shall demonstrate the feasibility of the proposed individual systems.


PLAN PREPARER (P.E./L.S.)
ALEXANDER J. LAPOTKA
June 23, 1998 PE 18244

7-13-99
DATE

300 Governors Highway Abutting Property Owners

<u>Map</u>	<u>Lot</u>	<u>Mailing Address</u>
59	3	The May Department Store 611 Olive Street Suite 1350 ST. Louis, MO 63101 RE: 300 Governor's Highway
60	1	Gladys & Albert Schneider Co. 330 Governors Highway S. Windsor, CT 06074
71	18	Edwin Road Properties, Inc. 1013 McDermott Road Mataire, LA 70001 Re: 1043 John Fitch Boulevard
71	21	National Cigar Corporation P.O. Box 97 Frankfort, IN 46041 RE: 1049 John Fitch Boulevard
71	23	Fleet Bank National Association One Corporate Center 20 Church Street Hartford, CT 06103 RE: 1033 John Fitch Boulevard
72	11	S. Sea Company, Inc. 330 Main Street Hartford, CT 06016 RE: 519 Nutmeg RD.
72	12	Nutmeg Road North Realty, LLC 28-40 31 st Street Long Island City, NY 11102 RE: 555 Nutmeg RD.



United States of America
Federal Communications Commission

RADIO STATION AUTHORIZATION
Commercial Mobile Radio Services
Personal Communications Service - Broadband

Omnipoint Communications, Inc.
7150 Campus Spring Drive
#155
Colorado Springs, Colorado 80920

Call Sign: **KNLF202**
Market: **M1**
New York
Frequency Block: **A**
File Number: **15002-CW-L-94**

The licensee hereof is authorized, for the period indicated, to construct and operate radio transmitting facilities in accordance with the terms and conditions hereinafter described. This authorization is subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts of Congress, international treaties and agreements to which the United States is a signatory, and all pertinent rules and regulations of the Federal Communications Commission, contained in Title 47 of the U.S. Code of Federal Regulations.

Initial Grant Date December 13, 1994
Five-year Build Out Date December 13, 1999
License Expiration Date December 13, 2004

CONDITIONS:

Pursuant to Section 309(h) of the Communications Act of 1934, as amended, (47 U.S.C. § 309(h)), this license is subject to the following conditions: This license does not vest in the licensee any right to operate a station nor any right in the use of frequencies beyond the term thereof nor in any other manner than authorized herein. Neither this license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended (47 U.S.C. §§ 151, et seq.). This license is subject in terms to the right of use or control conferred by Section 706 of the Communications Act of 1934, as amended (47 U.S.C. § 606).

This authorization requires that Omnipoint Communications, Inc. shall construct a 30 Mhz broadband Personal Communications Services system on Frequency Block A (1850-1865MHz/1930-1945MHz) in the New York MTA that substantially uses the design and technology upon which the pioneer's preference award to Omnipoint Communications, Inc. was based. This condition expires upon meeting the five-year build-out requirement in 47 C.F.R. §24.203(a).

This authorization requires that Omnipoint Communications, Inc. shall retain control of the license for at least three years from the initial license grant date or until the grantee has met the five-year build-out requirement of 47 C.F.R. § 24.203(a).

STANDARD LEASE AGREEMENT

Site Number: CT11279A

This Standard Lease Agreement ("Agreement") is entered into this 23 day of March, 1999, between OMNIPOINT COMMUNICATIONS INC., a Delaware corporation, having a principal place of business at 360 Newark-Pompton Turnpike, Wayne, NJ 07470-6641 ("Lessee") and ELECTRON TECHNOLOGIES CORPORATION, a Connecticut corporation, having a principal place of business at 300 Governors Highway, South Windsor, CT 06074 ("Lessor").

Whereas, Lessor is the owner of property having a street address of 300 Governors Highway, located in the Town of South Windsor, County of Hartford, State of Connecticut, and hereafter referred to as the "Property".

Lessor agrees to lease to Lessee a 50ft. X 50ft. (2500 sq. ft.) area of land to house a radio equipment cabinet and space for a monopole tower and associated antenna, more fully described on Exhibit A and hereafter referred to as the "Premises".

1. Use of Premises

(a) Lessee agrees to use the Premises for the installation, operation and maintenance of Personal Communications Service related equipment ("PCS") and associated antenna ("Installation"). All of Lessee's equipment or other property attached to or otherwise brought onto the Premises shall at all times remain personal property and are not considered fixtures, and at Lessee's option may be removed by Lessee at any time during the term hereof or any renewal terms. Upon expiration or termination of this Agreement, Lessee agrees to repair any damage to the Premises caused by Lessee during the term of the Agreement, ordinary wear and tear and damage from the elements excepted. In connection therewith, Lessee shall, at its sole cost and expense, obtain electrical and telephone service from the servicing utility company, including the installation of a separate meter and main breaker, where required. Lessee shall be responsible for the electricity it consumes for its operations at the normal rate charged by the servicing utility company. Lessee and Lessor agree that if an easement is required to obtain electrical power, an acceptable location will be agreed to by Lessor and the servicing utility company.

(b) Lessee shall have the right to use reasonable and appropriate measures to install its equipment, including running transmission lines from the equipment area to the antenna. Installation shall be Monday through Friday from 8:00 am to 5:00 p.m. with reasonable notice to Lessor. Said installation shall be in compliance with all applicable laws and regulations, subject to other provisions of this Agreement. Lessee shall have the right to replace or modify the equipment installation, subject to Lessor's approval. Lessee agrees to perform the installation of the equipment and all improvements thereto in a good and workmanlike manner and shall not disturb any tenants peaceful use and enjoyment of the premises. Lessor agrees to cooperate with Lessee, at Lessee's expense, in making application for and obtaining any local, state and federal licenses, permits and any other approvals which may be required to allow Lessee use of the Premises. Lessee shall employ due diligence to obtain said approvals within a timely manner. If, however, Lessee is denied a required approval, or is unable to obtain approvals thus making the Premises unsuitable and renders Lessee unable to utilize the Premises, Lessee shall have the exclusive right to terminate this Agreement within its sole discretion, and no further liabilities under this Agreement shall remain in force or effect, including but not limited to the payment of rent.

(c) Lessor agrees to provide unlimited access to the external portion of the property. Lessor will grant access to the utility closet to Omnipoint employees, subcontractors or agents with proper identification Monday to Friday from 8 am to 5 p.m. with reasonable notice. Lessor acknowledges that Lessee has such access which shall remain unimpeded throughout the initial term and any renewal term of this Agreement. Lessor shall have the responsibility to inform all respective parties of Lessee's requirement for access to the Premises. Should Lessee's access to the Premises be denied, resulting in Lessee's inability to install or maintain its PCS installation, then in that instance, Lessee shall be entitled to a rent abatement until such time as Lessor can resolve the access situation. If access cannot be resolved, Lessee shall have the right to terminate without obligation including but not limited to Lessee's obligation to pay rent. Further Lessor shall be required within fifteen (15) days from the date of termination to reimburse Lessee for any rent monies previously paid to Lessor, including if applicable, any security deposit monies.

in accordance with any security documents granted in favor of Lender, provided, however, that Lender shall promptly repair, at Lender's expense, any physical damage to the Property directly caused by said removal.

13. Indemnity.

Lessee shall defend, indemnify and hold Lessor harmless from and against any and all claims, actions, losses, damages, costs and expenses, including, but not limited to, reasonable attorney's fees arising out of or in connections with (or claimed to arise out of or in connection with) any negligent acts or omissions directly relating to the installation, operation, maintenance or removal of Lessee's equipment and installations on the Premises pursuant to this agreement, except to the extent arising from Lessor's negligence or willful misconduct, provided Lessor shall have given Lessee prompt written notice of any event giving rise to an obligation to indemnify Lessor and shall have granted Lessee the right to defend and settle any such claims.

14. Notices

Unless otherwise provided herein, any notice or demand required to be given herein shall be given by certified or registered mail, return receipt requested or reliable overnight courier to the address of Lessee and Lessor as set forth below:

Lessor:

Electron Technologies Corporation
P.O. Box 316, 300 Governors Highway
South Windsor, CT 06074

Lessee:

Omnipoint Communications Inc.
360 Newark-Pompton Turnpike
Wayne, NJ 07470-6641

With copies to:

Senior Director
Legal & Regulatory Affairs
Omnipoint Communications Services, LLC
16 Wing Drive
Cedar Knolls, NJ 07927

And

General Manager
New York Region
Omnipoint Communications Services, LLC
11 High Point Drive
Wayne, NJ 07470

Lessee and Lessor may designate a change of notice address by giving written notice to the other party.

15. Lease Provisions

- (a) This Agreement shall be governed by the laws of the State of Connecticut.
- (b) All Riders and Exhibits attached hereto are made a material part of this Agreement.

(c) If any provision of this Agreement is deemed invalid or nonenforceable, the remainder of this Agreement shall remain in force and to the fullest extent as permitted by law.

(d) No amendment or modification to any provision of this Agreement shall be valid unless made in writing and agreed to and signed by the appropriate parties who have attested and executed this Agreement.

(e) Lease is contingent on Lessor's approval of construction drawings.

In Witness Whereof, the parties have executed this Agreement as of the date first above written.

LESSOR

ELECTRON TECHNOLOGIES
CORPORATION,
A Connecticut Corporation

By:



Name: Richard Plank

Title: President and CEO

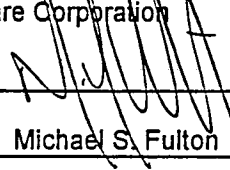
Date: 3/23/99

Tax ID No.: 06-1084062

LESSEE

OMNIPOINT COMMUNICATIONS INC.,
a Delaware Corporation

By:



Name: Michael S. Fulton

Title: Technical Director

Date: MAR 30 1999

Worst Case Power Density for installation on Omnipoint Monopole @ 300 Governor's Highway, South Windsor, CT

Region 11 - Connecticut			
Power Density Calculation - Worst Case			
Base Station TX output	20 W	43.01	
Number of channels	2		
Antenna Model	EMS: RR-65-18/ RV-65-18 ▼		
Antenna Gain	17.5 dBi		
Cable Size	1 5/8" ▼		
Cable Length	190 ft		
Jumper & Connector loss	1 dB		
Cable Loss per foot	0.0116		
Total Cable Loss	2.204 dB		
Total Attenuation	3.204 dB		
Total EIRP per channel	57.31 dB	537.81	W
Total EIRP per sector	60.32 dB	1075.62	W
Ground Reflection	1.6		
Frequency	1930 MHz		
Antenna Height	172.667 ft	5262.89016	cm
nsg	14.296		
Power Density (S) = 0.007915 mW / cm²			
% MPE = 0.7915%			

Equation Used :

$$S = \frac{(1000)(grf)^2 (Power) * 10^{(nsg/10)}}{4\pi (R)^2}$$

Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997

Technical Memo

To: Thomas Gilligan
From: Michael Walker (Radio Engineering Consultant)
cc: Mike Fulton
Subject: Power Density Report for CT11279A
Date: 7/7/99

1. Introduction:

This report is the result of an Electromagnetic Field Intensities (EMF - Power Densities) study for the proposed OMNIPOINT Communications Inc. PCS antenna installation on Omnipoint Monopole at 300 Governor's Highway, South Windsor, CT. This study incorporates the most conservative considerations for determining the practical combined worst case power density levels that would be theoretically encountered from several locations surrounding the transmitting location.

2. Discussion:

The following assumptions were used in the calculations:

- 1) The emissions from the OCI transmitters are in the 1930-1950 MHZ frequency band.
- 2) The antenna cluster consists of three sectors, with 1 antenna per sector. The model number for each antenna is EMS RR651802DP(2) and RR901702DP(1)
- 3) The antenna height is 172.667 feet Center Line.
- 4) The maximum transmit power from each sector is 1075.62 Watts Effective Isotropic Radiated Power (EiRP).
- 5) All the antennas are simultaneously transmitting and receiving, 24 hours a day.
- 6) Power levels emitting from the antennas are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 7) The average ground level of the studied area does not significantly change with respect to the transmitting location.

Equations given in "FCC OET Bulletin 65, Edition 97-01" were then used with the above information to perform the calculations.

3. Conclusion:

Based on the above worse case assumptions, the power density calculations from the proposed OMNIPOINT Communications Inc., PCS antenna installation are on the order of **1,000 to 10,000** times less than the FCC/ANSI/IEEE C95.1-1991 standard of 1000 microwatts per square centimeter ($\mu\text{w}/\text{cm}^2$). Details are shown in the attachment. Furthermore, the proposed antenna location for Omnipoint Communications at 300 Governor's Highway, South Windsor, will not interfere with existing public safety telecommunications, AM band and FM band radio broadcast, TV, Police Communication, HAM Radio communications and other signals in the area.



OMNIPOINT COMMUNICATIONS SERVICES
100 Filley Street, Bloomfield, CT 06002
Telephone: 860-692-7132 Fax: 860-692-7159

July 9, 1999

RECEIVED

JUL 9 1999

SOUTH WINDSOR PLANNING DEPT.

Planning and Zoning Commission
Town of South Windsor
1540 Sullivan Avenue
South Windsor, CT 06074

Re: CT-11-279A-Omnipoint Application for Special Exception - 300 Governor's Highway

Dear Commission Members:

This letter accompanies an application and supporting documentation for a special exception and site plan review permit to construct a 175 feet, multi-carrier, wireless telecommunications monopole at 300 Governor's Highway. Omnipoint will utilize this site for a PCS base station.

OMNIPOINT AND PCS

Omnipoint is committed to providing PCS services to the state of Connecticut. In 1995, Omnipoint was granted a license by the Federal Communications Commission to operate a PCS wireless phone system in this area, as well as numerous other markets across the United States. We currently have in excess of 200 sites under construction or on air in Connecticut.

PCS is one of the newest emerging low-power wireless technologies. PCS stands for Personal Communications Services and will truly allow businesses, individuals, and government services to communicate in an entirely new way. Although similar to traditional cellular systems, PCS will look, sound, and work better, with the added advantage of having the capability to provide fax service, paging, computer data, and video transmission in just one portable phone. PCS wireless is digital so it transmits with more clarity than the analog cellular systems. Also, PCS is secure. Omnipoint has chosen GSM technology to support their system. This technology has been in use in Europe for many years and has proven reliability. User verification systems eliminate cloning problems and encryption prevents calls from being overheard. These are just some of the features PCS can offer.

PROPOSED USE

Omnipoint is proposing to construct a 175 feet monopole to accommodate its PCS base station, as well installations of at least two additional wireless communications carriers, on the property owned by the Electron Technologies Corporation. This site is located in an industrial zone. Omnipoint will have directional antennas (approximately 56" tall x 8" wide x 2.75" deep) mounted on a platform at the top of the pole. The antennas will transmit and receive low power radio signals. One unmanned prefabricated equipment cabinet measuring approximately 63" high x 53" wide x 25" deep will be located on the ground at the base of the pole. This equipment cabinet is connected to the antennas by narrow cables. Omnipoint's

installation, and those of other carriers, will be built in a 50'x50' fenced compound. The location of the compound rests in the middle a wooded area on the site, several hundred feet from the street. It will be accessed by a ten feet wide gravel drive, which begins at the edge of the rear parking lot on the property. All cutting of vegetation will be held to a minimum in order to maintain natural screening. With the industrial zone classification of the property, the size of the property and the visual mitigation the existing vegetation will provide, this proposal ranks second (of six) in order of siting preference.

ZONING AND SPECIAL EXCEPTION REQUIREMENTS

As a condition of our FCC license, there are firm FCC mandates for technical and operational standards of a PCS system. The requirements for our license consist of a high level of voice quality and level of service that must be provided across the allotted coverage area. In order to accomplish this, antenna sites must be spaced in such a way that the signals overlap but do not interfere with each other.

For that reason, Omnipoint ensures that every site is carefully selected. The site that is chosen must provide coverage to its service area and be as compatible as possible with the community where it is placed. Specific zones and districts within each jurisdiction are assessed for their compatibility. Industrial and commercial areas are typically considered the most compatible, while residential lands are viewed as the least. Omnipoint prefers to locate on existing structures whenever possible. This may include rooftops, existing towers, or even billboards if they are of a sufficient height. However, the most important factor for siting a PCS base station is the ability to send and receive radio signals. It is essential that PCS antennas meet a "line-of-sight" transmission to the area being covered. The height required to accomplish this is determined largely by topography and other environmental obstructions, such as buildings and trees, which can block a radio signal. When there are no existing structures of a sufficient height to meet the needs of Omnipoint's system, a new tower must be constructed to support the antennas. When Omnipoint must construct a new tower, as in this application, every effort is made to locate sites within natural screening.

The proposed use will not impair the use and enjoyment of surrounding property nor impede its normal development. The use will require little maintenance (approximately four times a year) so it will not be distracting to surrounding property uses. No personnel will be stationed at the site. The equipment cabinet is not equipped with water or sewer facilities, nor is it large enough to house employees. The cabinets are intended only to enclose and protect the radios and electronics. The proposed use will have no impact on wetlands, watercourses, or other ecologically valuable lands. No signs will be posted on this facility except applicable warning or equipment information signs. The base station will not be lighted. Traffic will not increase due to the use and it will not create unsafe access on related streets. Additionally, there is no information which indicates that the construction of this site would diminish or impair property values within the area.

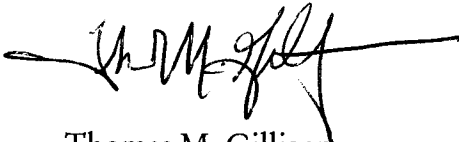
The proposed use will not be detrimental to the public health, safety, or welfare. PCS wireless uses low power to ensure that the signal stays within the designated coverage area and does not interfere with neighboring sites. An additional feature of this PCS facility is that no ionizing radiation is created by the radio transmissions. As the enclosed radio frequency

engineer report indicates, Omnipoint's installation will operate thousands of times below RF emission standards and will not interfere with other radio signals.

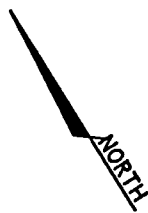
There are no activities associated with this use which would produce airborne emissions, odor, vibrations, heat, glare, radioactive materials, or loud noises. All equipment and materials needed to operate the site are located within the equipment cabinets, including heating, ventilating, and air conditioning provisions. Since this site does not have water or sanitary facilities, it will generate no waste water. Current levels of all government services are adequate to meet any needs of this use.

Omnipoint respectfully requests that the Town approve our application for this use. If you have any questions, please feel free to contact me on my direct line at (860) 692-7132.

Sincerely,

A handwritten signature in black ink, appearing to read 'Thomas M. Gilligan', with a long horizontal flourish extending to the right.

Thomas M. Gilligan
Zoning Specialist
Omnipoint Communications, Inc.



PROPOSED OCS 50' X 50'
CHAIN LINK COMPOUND

PROPOSED OCS
175'-0" MONOPOLE

PROPOSED OCS BTS
EQUIPMENT CABINET
MOUNTED TO NEW
CONCRETE SLAB

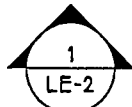
EXISTING WOODED
AREA

PROPOSED
TELCO/ELECTRIC
PANELS

EXISTING GRASSED AREA

PROPOSED OCS 10'-0"
GRAVEL ACCESS ROAD

EXISTING BUILDING



EXISTING PAVED
ASPHALT PARKING
AREA

EXISTING
RAILROAD

EXISTING PAVED
ASPHALT
DRIVEWAY

GOVERNOR'S HIGHWAY

1 SITE LAYOUT
LE-1 SCALE: NOT TO SCALE

NOTE: EXHIBITS SUBMITTED ARE A CONCEPTUAL REPRESENTATION OF THE LEASE AGREEMENT ONLY.
ACTUAL CONSTRUCTION DOCUMENTATION MAY VARY TO COMPLY WITH ALL APPLICABLE CODES.



670 North Beers Street, Building 2, Holmdel, NJ 07733
Tel: 732.739.3200 Fax: 732.739.0440

Drawing Title:
SITE LAYOUT

Client:
OCS

Project: **ELECTRON TECHNOLOGIES**
Address: **300 GOVERNOR'S HIGHWAY
SOUTH WINDSOR, CT**

Approved By:
PROJ. MGR: _____ DATE: _____
R.F. ENGR: _____ DATE: _____
SAC: _____ DATE: _____
OWNER: _____ DATE: _____

REV.#1 KK 5/18/99

Revision No. Date

Drawing No.
LE-1

Search Area: SOUTH WINDSOR/RT. 5
Site ID No: CT-11-279A

P.C.:
JDi

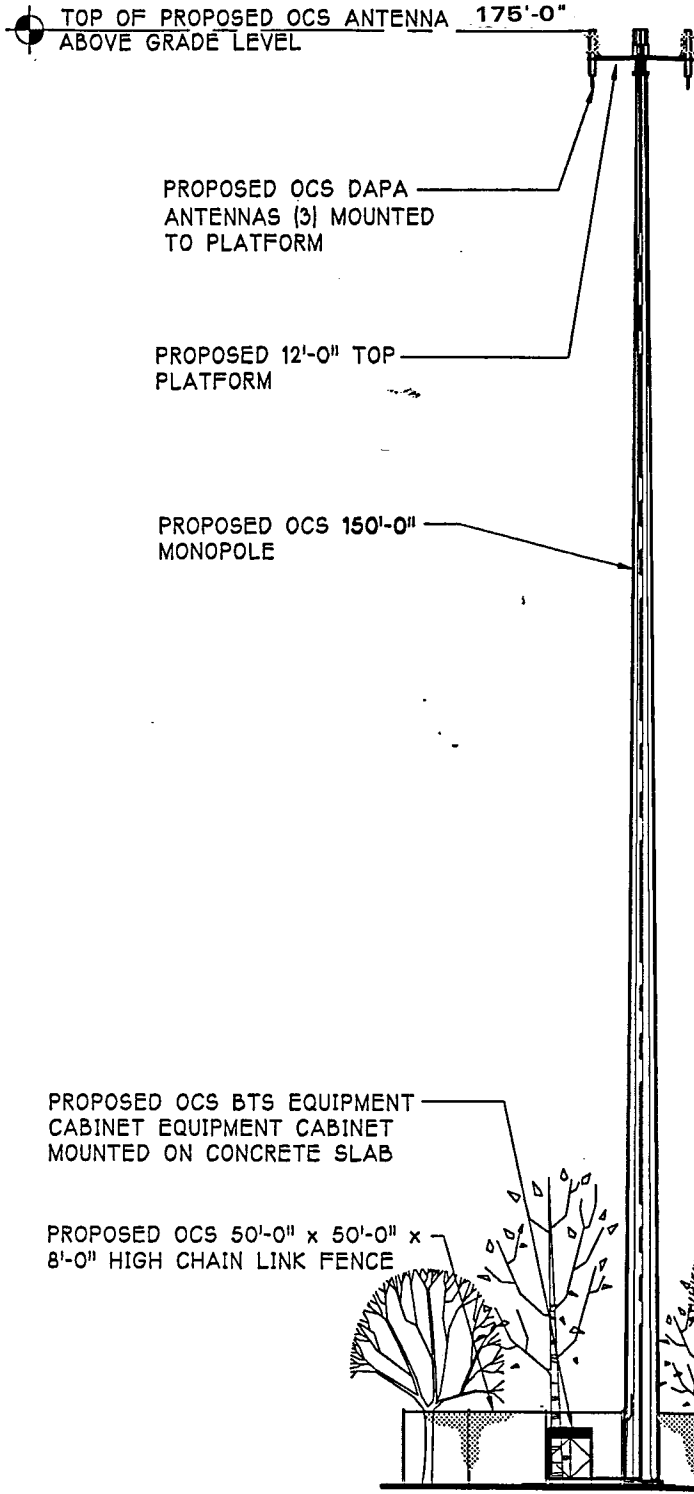
P.C. Chkd:

Chkd. by:

ARCNET Project No.
A99.506.823A

Drawn:
KK

Date:
3/17/99



1 ELEVATION
LE-2 SCALE: NOT TO SCALE

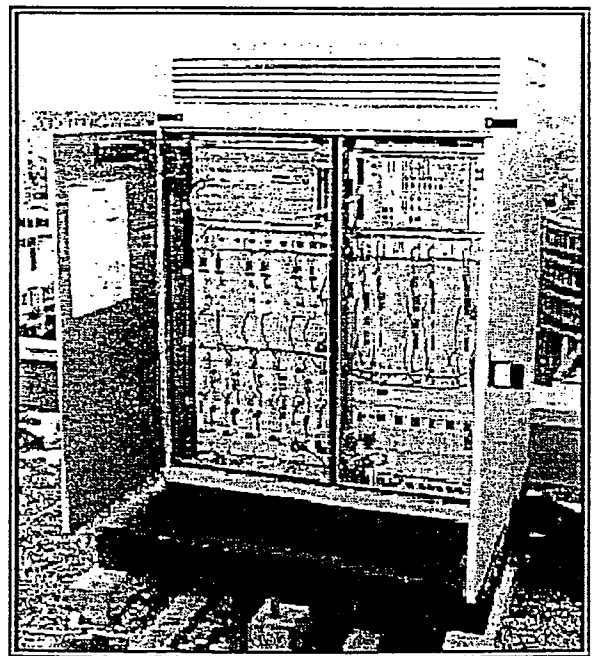
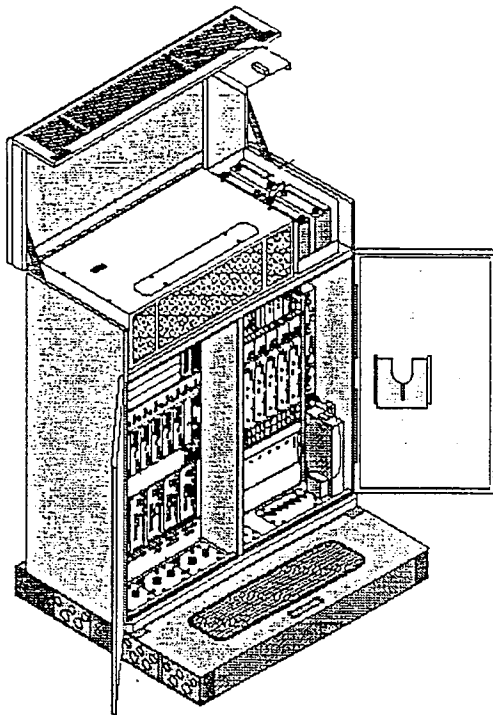
NOTE: EXHIBITS SUBMITTED ARE A CONCEPTUAL REPRESENTATION OF THE LEASE AGREEMENT ONLY. ACTUAL CONSTRUCTION DOCUMENTATION MAY VARY TO COMPLY WITH ALL APPLICABLE CODES.

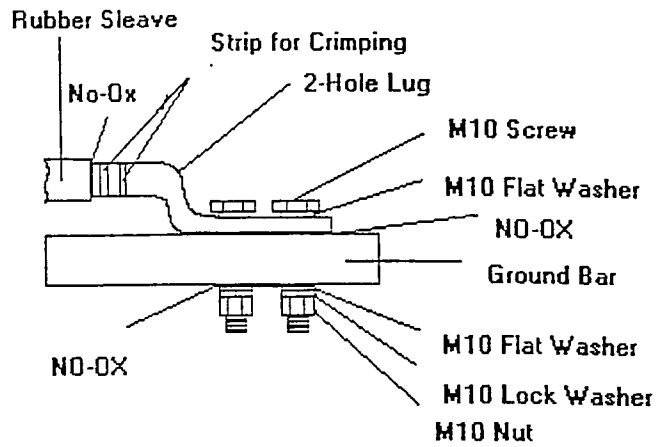
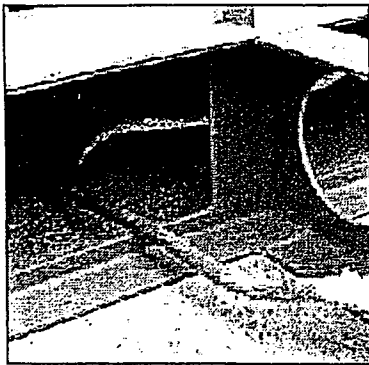
<p>670 North Beers Street, Building 2, Holmdel, NJ 07733 Tel: 732.739.3200 Fax: 732.739.0440</p>	Drawing Title: ELEVATION		Project: ELECTRON TECHNOLOGIES Address: 300 GOVERNOR'S HIGHWAY SOUTH WINDSOR, CT		REV#1 KK 5/18/99
	Client:		Approved by: PROJ. MGR: _____ DATE: _____ R.F. ENGR: _____ DATE: _____ SAC: _____ DATE: _____ OWNER: _____ DATE: _____		Revision No. Date:
Search Area: SOUTH WINDSOR/RT. 5 Site ID No.: CT-11-279A	P.C.: JDi	P.C. Chkd.: Chkd. by:	ARCNET Project No.: A99.506.823A	Drawn: KK Date: 3/17/99	Drawing No.: LE-2

NORTEL
NETWORKS™

S8000 BTS

Site Specifications





Apply a light coating of No Oxidation (NO-OX) to the ground bar area.

Dimensions, Weights & Clearances

BTS

Weight: 915 pounds
 Dimensions: 53.2"W x 26"D x 63"H

Clearances while transporting in building:

Door Access:

Height: 6.6 feet
 Width 3 feet

Corridor Access:

Height: 6.6 feet
 Width: 3.6 feet (straight), 6.6 feet (right angle)

Clearances when installed:

Above: 28 inches for opening of hood
 Rear: 8 inches for installation of outer skin
 Sides: 8 inches for adjustment of door hinges
 Front: 54 inches to open door and technician access

Plinth

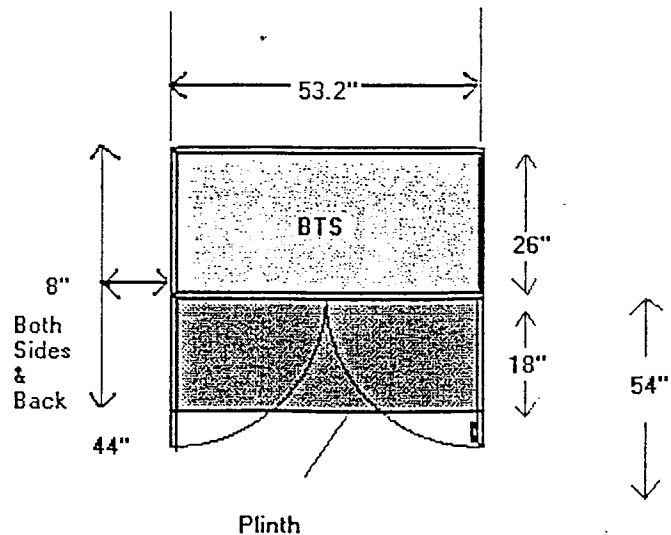
Weight:
 87 pounds

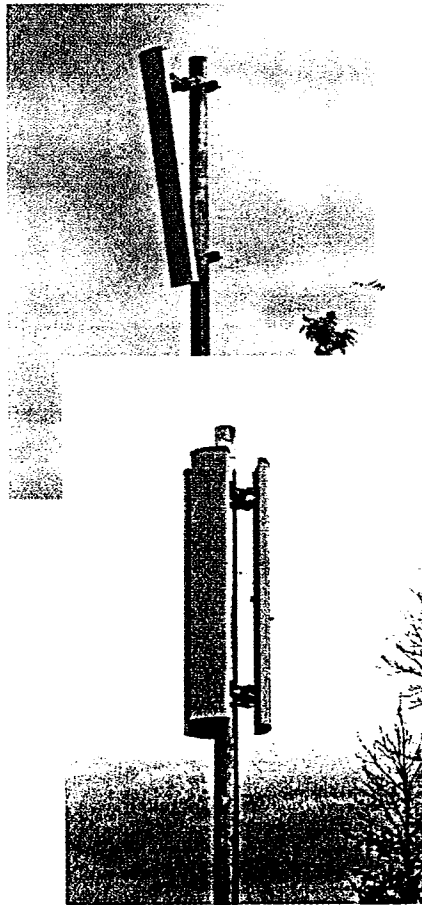
Dimensions:
 53.2"W x 44"D x 10.2"H

Floor Characteristics

Minimum Floor Resistance:
 123 pounds/foot²

Flatness:
 ¼ inch over 78 inches

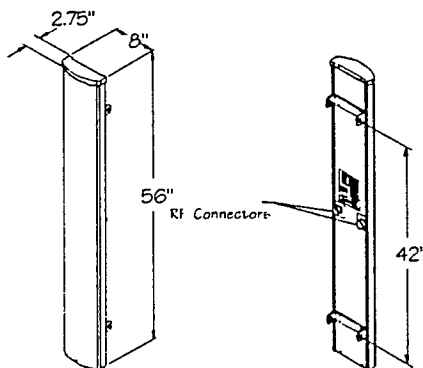




Mechanical Specification	
Parameter	Specification
Dimensions (L x W x D)	56 in x 8 in x 2.75 in (142 cm x 20.3 cm x 7.0 cm)
Rated Wind Velocity	150 mph (241 km/hr)
Equivalent Flat Plate Area	3.1 ft. ² (.29 m ²)
Front Wind Load @ 100 mph (161 kph)	90 lbs (400 N)
Side Wind Load @ 100 mph (161 kph)	31 lbs (139 N)
Weight	18 lbs (8.2 kg)

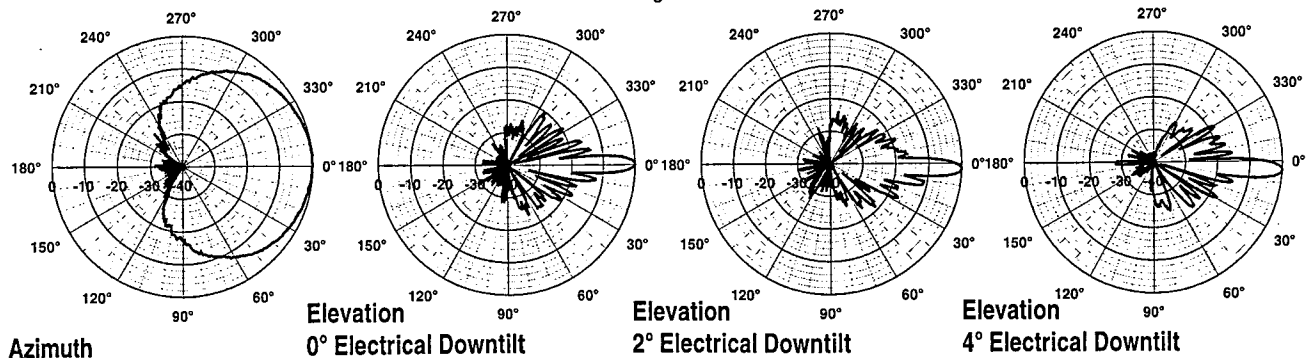
Electrical Specification	
Parameter	Specification
Azimuth Beamwidth	90°
Elevation Beamwidth	6°
Gain	16.5 dBi (14.4 dBd)
Polarization	Slant, +/-45°
Port-to-Port Isolation	≥ 30 dB
Front-to-Back Ratio	≥ 25 dB (≥ 30 dB Typical)
Electrical Downtilt Options	0°, 2°, 4°, 6°
Power Handling	250 Watts CW
VSWR	1.35:1 Max
Passive Intermodulation	<-147 dBc (2 tone @ +43 dBm {20W} ea.)
Connectors	2; 7-16 DIN (female)
Lightning Protection	Chassis Ground

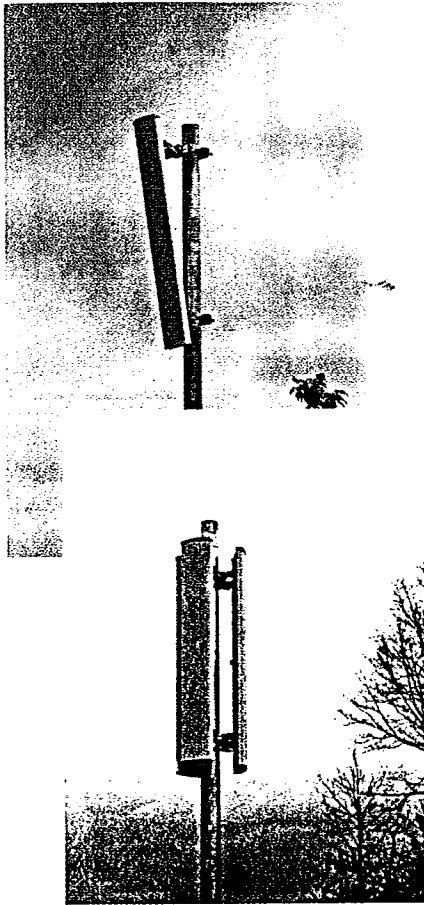
Note: Antenna patterns and electrical specifications are co-polarized data.



Mounting Options		
Model Number	Description	Comments
MTG-P00-10	Standard Mount (Supplied with Antenna)	Mounts to wall or 1.5 inch to 5.0 inch O.D. pole (3.8 cm to 12.7 cm)
MTG-S00-10	Swivel Mount Kit	Wall mounting kit providing +/-30° Azimuth Beam Adjustment
MTG-D10-20	Mechanical Downtilt Kit	0° - 10° Mechanical Downtilt
MTG-D15-20	Mechanical Downtilt Kit	0° - 15° Mechanical Downtilt
MTG-C00-10	Cluster Mount Kit	3 Antennas 120° apart or 2 Antennas 180° apart
MTG-C10-10	Cluster Mount Kit	For use with 10° Downtilt Kit
MTG-C15-10	Cluster Mount Kit	For use with 15° Downtilt Kit

Note: Patent Pending





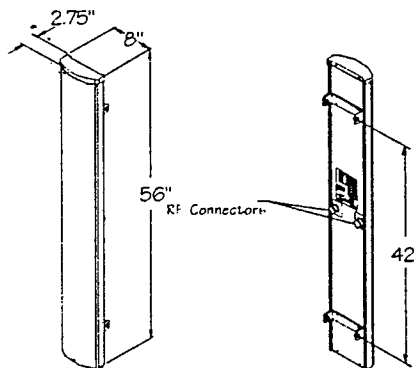
Mechanical Specification

Parameter	Specification
Dimensions (L x W x D)	56 in x 8 in x 2.75 in (142 cm x 20.3 cm x 7.0 cm)
Rated Wind Velocity	150 mph (241 km/hr)
Equivalent Flat Plate Area	3.1 ft. ² (.29 m ²)
Front Wind Load @ 100 mph (161 kph)	90 lbs (400 N)
Side Wind Load @ 100 mph (161 kph)	31 lbs (139 N)
Weight	18 lbs (8.2 kg).
--	

Electrical Specification

Parameter	Specification
Azimuth Beamwidth	65°
Elevation Beamwidth	6°
Gain	17.5 dBi (15.4 dBd)
Polarization	Slant, +/-45°
Port-to-Port Isolation	≥ 30 dB
Front-to-Back Ratio	≥ 25 dB (≥ 30 dB Typical)
Electrical Downtilt Options	0°, 2°, 4°, 6°
Power Handling	250 Watts CW
VSWR	1.35:1 Max
Passive Intermodulation	<-147 dBc (2 tone @ +43 dBm {20W} ea.)
Connectors	2; 7-16 DIN (female)
Lightning Protection	Chassis Ground

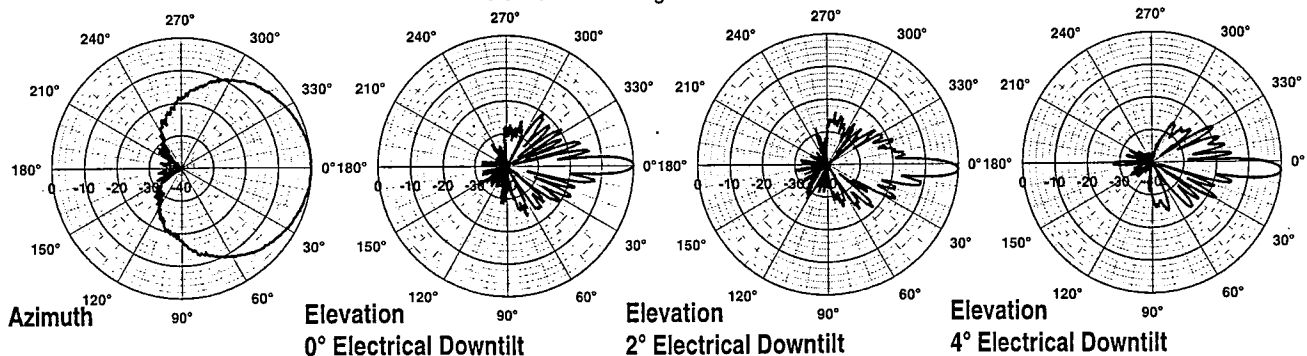
Note: Antenna patterns and electrical specifications are co-polarized data.

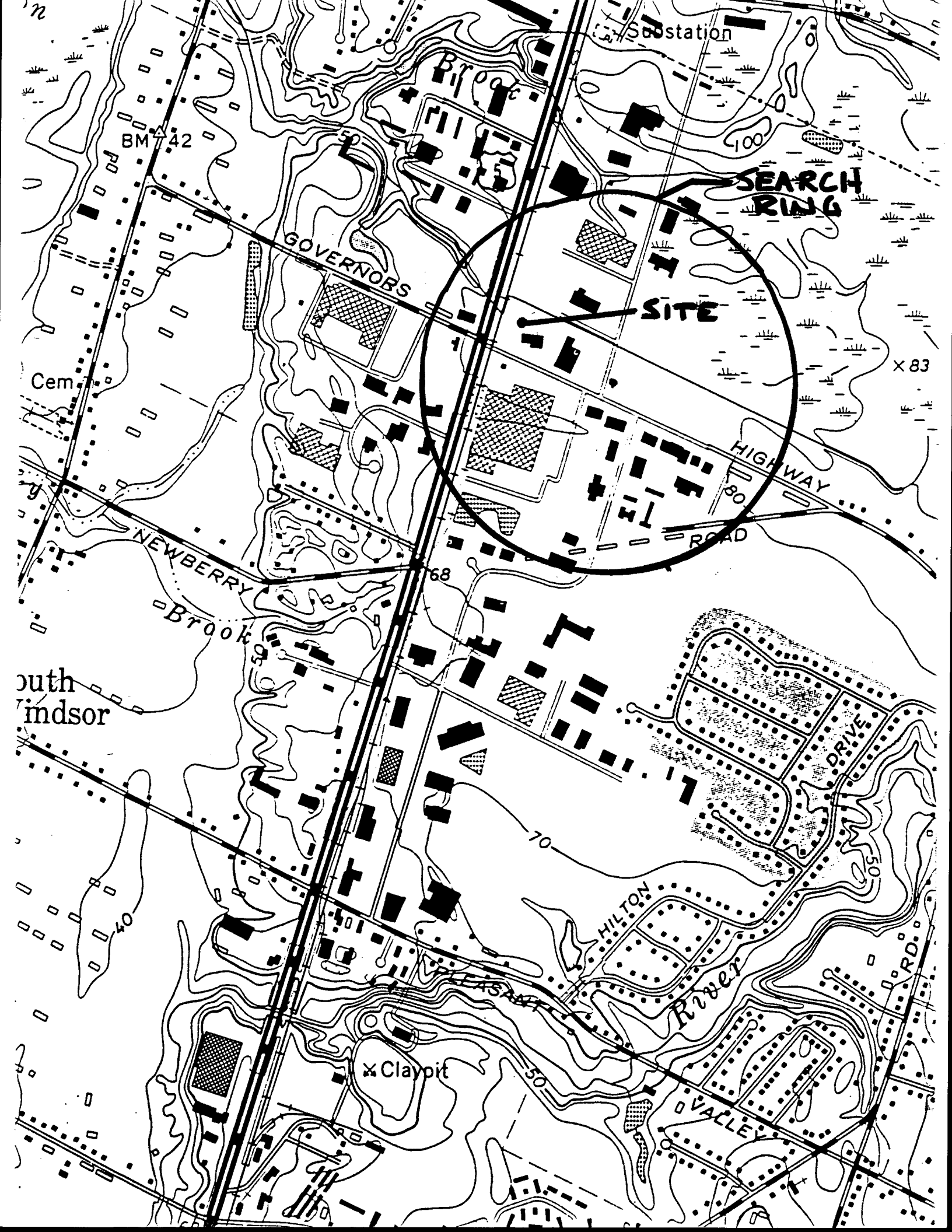


Mounting Options

Model Number	Description	Comments
MTG-P00-10	Standard Mount (Supplied with Antenna)	Mounts to wall <u>or</u> 1.5 inch to 5.0 inch O.D. pole (3.8 cm to 12.7 cm)
MTG-S00-10	Swivel Mount Kit	Wall mounting kit providing +/-30° Azimuth Beam Adjustment
MTG-D10-20	Mechanical Downtilt Kit	0° - 10° Mechanical Downtilt
MTG-D15-20	Mechanical Downtilt Kit	0° - 15° Mechanical Downtilt
MTG-C00-10	Cluster Mount Kit	3 Antennas 120° apart <u>or</u> 2 Antennas 180° apart
MTG-C10-10	Cluster Mount Kit	For use with 10° Downtilt Kit
MTG-C15-10	Cluster Mount Kit	For use with 15° Downtilt Kit

Note: Patent Pending





Substation

BM 42

SEARCH RING

SITE

X 83

GOVERNORS

HIGHWAY 80 ROAD

NEWBERRY Brook

South Windsor

DRIVE

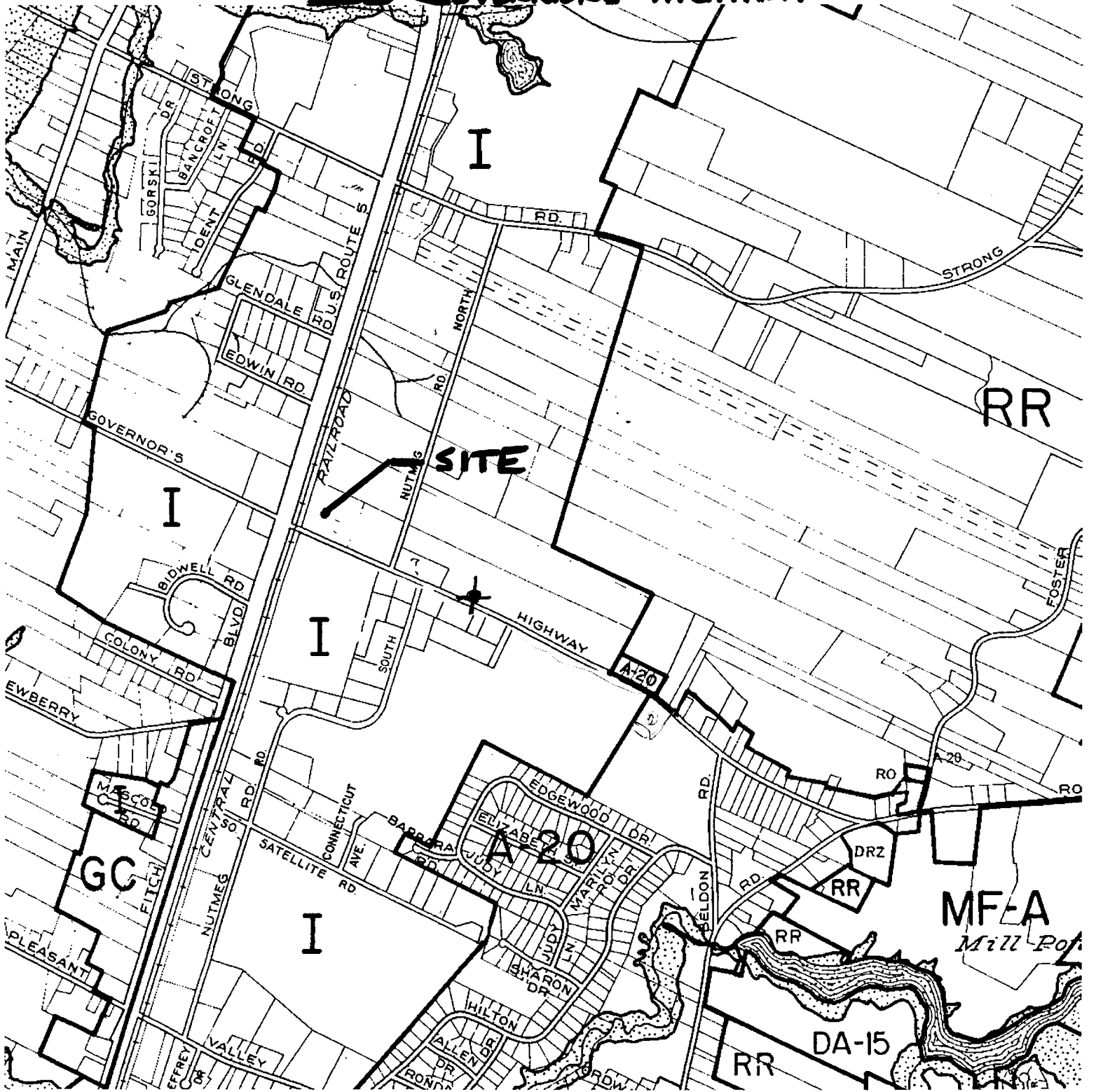
HILTON

River

x Clay pit

VALLEY RD.

300 GOVERNOR'S HIGHWAY





S

GOVERNOR'S
STATION



 OCS



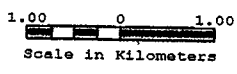
ELECTRON TECHNOLOGIES
300 GOVERNOR'S HIGHWAY
SOUTH WINDSOR, CT

 **ARCNET** SM



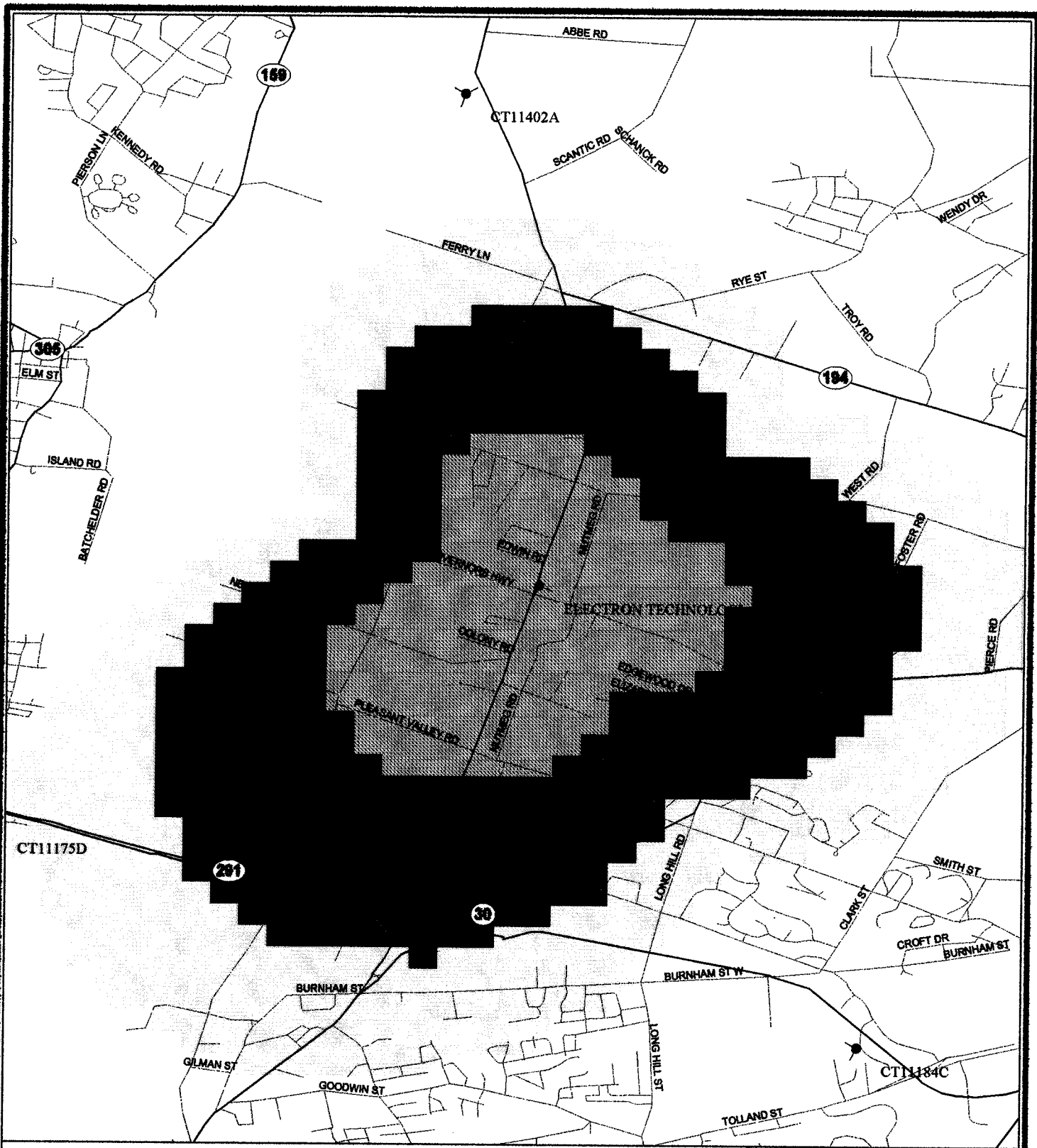
SOUTH WINDSOR COVERAGE W/O ELECTRON TECHNOLOGIES

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 Map Projection: Plate-Carree
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 WED 7 JUL 1999 15:14:28
 Kealibur - Copyright (c) 1994 - 1997 TeleworX



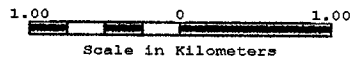
RX Level Ranges

0	<=	X	<	0
0	<=	X	<	0
0	<=	X	<	0
-89	<=	X	<	-85
-85	<=	X	<	-76
-76	<=	X	<	0

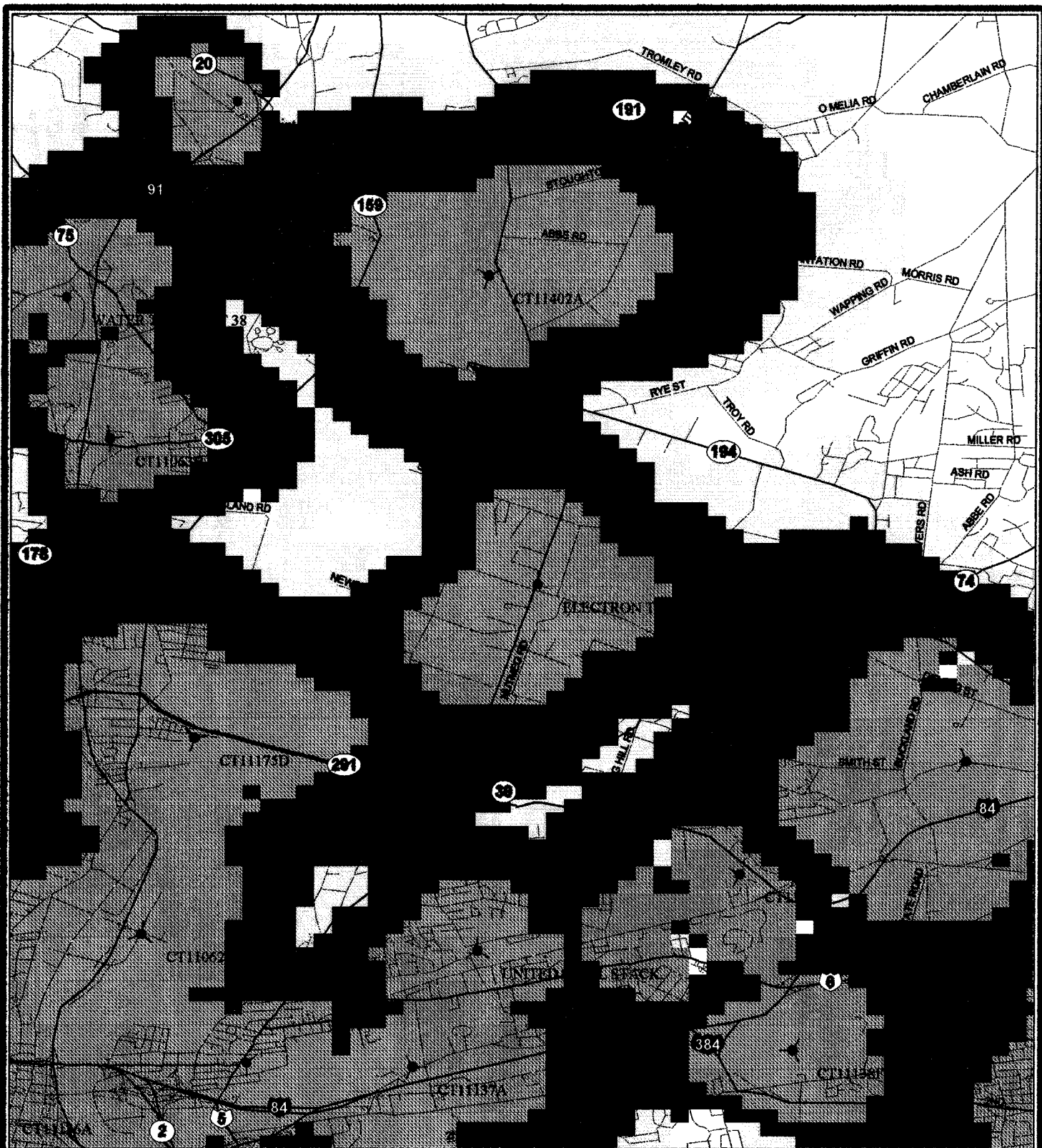


ELECTRON TECHNOLOGIES COVERAGE ALONE

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 WED 7 JUL 1999 15:17:58
 Xcalibur - Copyright (c) 1994 - 1997 TeleworX

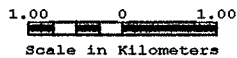


RX Level Ranges				
0	▲	X	▲	0
0	▲	X	▲	0
0	▲	X	▲	0
-89	▲	X	▲	-85
-85	▲	X	▲	-76
-76	▲	X	▲	0



SOUTH WINDSOR COVERAGE W/ ELECTRON TECHNOLOGIES

Network File Name: D:\Ctreg11\Design\1999p.net
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 WED 7 JUL 1999 15:12:50
 Xcalibur - Copyright (c) 1994 - 1997 TeleworX



RX Level Ranges		
0	<=	X < 0
0	<=	X < 0
0	<=	X < 0
-89	<=	X < -85
-85	<=	X < -76
-76	<=	X < 0



OMNIPOINT COMMUNICATIONS SERVICES
100 Filley Street, Bloomfield, CT 06002
Telephone: 860-692-7132 Fax: 860-692-7159

July 16, 1999

Re: CT-11-279A-Omnipoint Application for Special Exception - 300 Governor's Highway, South Windsor

To Whom It May Concern:

Omnipoint Communications has filed an application for a special exception and site plan review permit to construct a 175 feet, multi-carrier, wireless telecommunications monopole at 300 Governor's Highway. Omnipoint will utilize this site for a PCS base station.

PROPOSED USE

Omnipoint is proposing to construct a 175 feet monopole to accommodate its PCS base station, as well installations of at least two additional wireless communications carriers, on the property owned by the Electron Technologies Corporation. This site is located in an industrial zone. Omnipoint will have directional antennas (approximately 56" tall x 8" wide x 2.75" deep) mounted on a platform at the top of the pole. The antennas will transmit and receive low power radio signals. One unmanned prefabricated equipment cabinet measuring approximately 63" high x 53" wide x 25" deep will be located on the ground at the base of the pole. This equipment cabinet is connected to the antennas by narrow cables. Omnipoint's installation, and those of other carriers, will be built in a 50'x50' fenced compound. The location of the compound rests in the middle a wooded area on the site, several hundred feet from the street. It will be accessed by a ten feet wide gravel drive, which begins at the edge of the rear parking lot on the property. All cutting of vegetation will be held to a minimum in order to maintain natural screening. (See back side of page for basic plan information.) With the industrial zone classification of the property, the size of the property and the visual mitigation the existing vegetation will provide, this proposal ranks second (of six) in order of siting preference.

The anticipated public hearing date for our application is August 17, 1999. If you have any questions, please feel free to contact me on my direct line at (860) 692-7132.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Gilligan", written over a horizontal line.

Thomas M. Gilligan
Zoning Specialist
Omnipoint Communications, Inc.

300 Governors Highway Abutting Property Owners

<u>Map</u>	<u>Lot</u>	<u>Mailing Address</u>
59	3	The May Department Store 611 Olive Street Suite 1350 ST. Louis, MO 63101 RE: 300 Governor's Highway
60	1	Gladys & Albert Schneider Co. 330 Governors Highway S. Windsor, CT 06074
71	18	Edwin Road Properties, Inc. 1013 McDermott Road Mataire, LA 70001 Re: 1043 John Fitch Boulevard
71	21	National Cigar Corporation P.O. Box 97 Frankfort, IN 46041 RE: 1049 John Fitch Boulevard
71	23	Fleet Bank National Association One Corporate Center 20 Church Street Hartford, CT 06103 RE: 1033 John Fitch Boulevard
72	11	S. Sea Company, Inc. 330 Main Street Hartford, CT 06016 RE: 519 Nutmeg RD.
72	12	Nutmeg Road North Realty, LLC 28-40 31 st Street Long Island City, NY 11102 RE: 555 Nutmeg RD.

300 Governors Highway Abutting Property Owners

Map

Lot

Mailing Address

CT Central Railroad
8 Rapallo Avenue
Middletown, CT 06457

PLANNING DEPARTMENT TRANSMITTAL

DATE: 7/14/99

TO: Jerry Lazella
Town Engineer

WE ARE SENDING YOU:

- | | |
|-------------------------------------------------------|----------------------------------------------------|
| <input checked="" type="checkbox"/> PZC initial plans | <input type="checkbox"/> Drainage computations |
| <input type="checkbox"/> PZC revised plans | <input type="checkbox"/> Bond estimate request |
| <input type="checkbox"/> PZC Final plans for review | <input type="checkbox"/> Bond reduction request |
| <input type="checkbox"/> PZC Final plans for filing | <input checked="" type="checkbox"/> Correspondence |
| <input type="checkbox"/> IWA/CC plans | |
| <input type="checkbox"/> Other _____ | |

NO. OF COPIES	APPLICATION NUMBER	PROJECT/APPLICANT
1	99-51 P	Omond Point Commercial Dev

THESE ITEMS ARE TRANSMITTED:

- | | |
|------------------------------------------------------------|-----------------------------------------|
| <input checked="" type="checkbox"/> For review and comment | <input type="checkbox"/> For your files |
| <input type="checkbox"/> For your use | <input type="checkbox"/> As requested |
| <input type="checkbox"/> Other _____ | |

PLEASE RETURN/COMMENT BY: _____

COMMENTS:

Michelle - No Comments June 7/14/99

Copy to: _____

From: Michelle Ann Lyle
Asst Dir of Planning

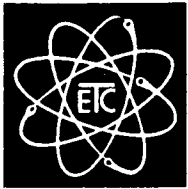
Memo

To: Planning and Zoning Commission
cc: Architecture and Design Review Committee
From: Michele R. Lipe, Assistant Director of Planning
Date: 07/20/99
Re: Balloon simulation for Appl. 999-51P, OmniPoint Communications

The applicant has advised us that OmniPoint will be conducting a simulation of the proposed wireless telecommunication site on Tuesday, July 27, 1999 from 3 PM to 7:30 PM. They will be placing a crane on site with a 4-6 foot red balloon 175 feet in the air. (In case of inclement weather, they will put the balloon up on Wednesday, July 28 at the same time.)

The site is located on the northerly side of Governor's Highway, easterly of the railroad tracks (see attached map). This application has been scheduled for a public hearing on Tuesday, August 17, 1999.

If you have any questions, call the Planning Department at 644-2511, ext. 253.



Electron Technologies Corp.

Radiation Processing • Product Development

300 Governor's Highway • P. O. Box 316 • South Windsor, Connecticut 06074 • 860-289-7451 • Fax 860-289-0767

July 20, 1999

Mrs. Michele Lipe
Town of South Windsor
Planning and Zoning
1540 Sullivan Avenue
South Windsor, CT 06074

Dear Mrs. Lipe:

This is to advise you that the proposed monopole site presented to the town by Omnipoint would be located on our property in an area which Electron Technologies would have no plans for expansion. The site was selected because of its concealment in the wooded area.

I have spoken to Tom Gilligan of Omnipoint who informed me that the town would like to see a buffer zone of twenty five feet around the Omnipoint compound where the existing trees and vegetation would remain. Please be assured that this thought is acceptable to us and will be taken into account with any future plans we may have.

Please contact me if you have any questions regarding this matter.

Very truly yours.

Richard H. Plank
President

cc: Tom Gilligan

ASA Case No: 98-P-7532.01c.08**STUDY RESULTS AT PROPOSED HEIGHT: 175' AGL****• FAA Filing:** Not required Required if structure would exceed _____ feet AGL.

ALERT: After July 1, 1996 all proposed new or altered antenna structures subject to FAA filing requirements under FAR Part 77 must be registered with the FCC antenna structure registry prior to erecting the antenna, unless specifically exempted. ★See attached form ★

• Obstruction Standards of FAR Part 77: Not exceeded Exceeded if structure would exceed _____ feet AGL.

IMPORTANT: (The FAA will require Marking/Lighting if Obstruction Standards are exceeded & /or structure exceeds 200' AGL. However, the FAA, for safety reasons, may require marking &/or lighting on non exceeding structures. Exceeding Obstruction Standards will also require FAA extended study.)

• Operational Procedures: Not affected (*FAA will issue a Determination of No Hazard*). Affected if structure would exceed _____ feet AGL.

IMPORTANT: (FAA will issue a Determination of Hazard unless proposed structure is reduced by _____ feet.)

Note:

Due to proximity to operational procedures FAA MAY require a certified survey

Comments:**Actions:**ASA will file with _____ FAA Region and State Yes NoASA Operations Manager: L. Gene Garrett

Sent via:

MAIL FAX FED EX

JET ENGINE PARTS MANUFACTURER

electro-methods, inc.



TEL (860) 289-8661 - FAX (860) 289-1868
P.O. BOX 54, 330 GOVERNORS HIGHWAY, SOUTH WINDSOR, CT 06074

8-17-99

Planning & Zoning Commission
Town of South Windsor
1540 Sullivan Avenue
South Windsor, CT 06074

Attn: Ms. Susan Larsen, Chairperson

RE: Omnipoint Communications installation of 175 foot tall telecommunications
monopole at 300 Governors Highway

Dear Ms. Larsen,

Electro-Methods, Inc. has a heliport located on Electro-Methods' private property at 330 Governors Highway. This heliport is within 800 feet of the proposed 175 foot monopole installation directly in line with the East to West approach to the helipad. The height of this proposed installation will create a hazard to helicopter operations at night unless the structure is properly lighted.

There are other aircraft operations in the local South Windsor area which could be adversely affected by an unlighted 175 foot tower. Our building, located within 600 feet of the proposed tower, could be involved in the event of a collision between an aircraft and the proposed tower.

We therefore request that the Planning and Zoning Commission require Omnipoint Communications to install approved aircraft warning lights on the monopole tower.

Your time and consideration in this matter are appreciated.

Sincerely,
ELECTRO-METHODS, INC.

A handwritten signature in black ink, appearing to read 'Paul Keller', is written over the typed name.

Paul Keller
Director of Finance

PROPOSED CCS 50' X 50'
CHAIN LINK COMPOUND

PROPOSED CCS
175'-0" MONOPOLE

PROPOSED CCS BTS
EQUIPMENT CABINET
MOUNTED TO NEW
CONCRETE SLAB

PROPOSED CCS 10'-0"
GRAVEL ACCESS ROAD

EXISTING
RAILROAD

EXISTING PAVED
ASPHALT
DRIVEWAY

EXISTING BUILDING

EXISTING PAVED
ASPHALT PARKING
AREA

GOVERNOR'S HIGHWAY

NORTH

EXISTING WOODED
AREA

PROPOSED
TELECOM/ELECTRIC
PANELS

EXISTING GRASSED AREA

CONTAINS 50 ACRES

HELIPAD

Note: Pole is located 94 feet from the side and rear property lines
and 390 feet from the front property line.



Town of South Windsor

1540 SULLIVAN AVENUE • SOUTH WINDSOR, CONN. 06074
AREA CODE 860 / 644-2511

September 30, 1998

Mr. Paul Keller
Electro Methods
330 Governors Highway
South Windsor, CT 06074

Dear Mr. Keller:

Re: Installation of Heliport at 330 Governors Highway

The Planning and Zoning Commission of the Town of South Windsor has reviewed the request of Electro Methods for a heliport on Electro Methods' private property at 330 Governor's Highway. It is our understanding that this heliport is to be used for private purposes only, in connection with Electro Methods' business operations.

The Planning and Zoning Commission grants permission to Electro Methods to install the heliport. It is our observation that, while any air travel has inherent hazards (such as nearby electric power lines), the selected landing site presents minimal danger to residential areas.

The South Windsor Police Chief and Fire Marshal have also indicated that they have no concerns regarding the proposal.

Very truly yours,

Planning & Zoning Commission

Frank A. Castro, Jr.
(dlw)

Frank A. Castro, Jr., Chairperson

FAC/dlw



U.S. Department
of Transportation
**Federal Aviation
Administration**

New England Region

12 New England Executive Park
Burlington, MA 01803-5299

September 30, 1998

Mr. Paul Keller
Director of Finance
Electro-Methods, Inc.
330 Governors Highway
South Windsor, Connecticut 06074

Dear Mr. Keller:

This letter is to confirm receipt of your Notice of Landing Area Proposal, FAA Form 7480-1, for the establishment of EMI, in South Windsor, CT.

It has been assigned Case Number **98-ANE-36-NRA**. Please refer to this number if you inquire about your heliport.

Sincerely,

A handwritten signature in black ink that reads "Sharon A. Whitt".

Sharon A. Whitt
Airspace Program, Airports Division



US Department of Transportation
Federal Aviation Administration

NOTICE OF LANDING AREA PROPOSAL

Name of Proponent, Individual or Organization
ELECTRO-METHODS, INC.

Address of Proponent, Individual or Organization
(No., Street, City, State, Zip Code)
**330 GOVERNORS HIGHWAY
SOUTH WINDSOR, CT 06074**

Check if the property owner's name and address are different than above, and list property owner's name and address on the reverse.

Establishment or Activation Deactivation or Abandonment } OF Airport Ultralight Flightpark Vertiport
 Alteration Change of Status } Helicopter Seaplane Base Other (Specify) _____

A. Location of Landing Area **NAD 83**

1. Associated City/State 2. County/State (Physical Location of Airport) 3. Distance and Direction From Associated City or Town
SOUTH WINDSOR, CT **HARTFORD, CT**

4. Name of Landing Area 5. Latitude 6. Longitude 7. Elevation Miles Direction
EMI **41° 49' 942"** **72° 36' 101"** **104** **3.5** **EAST**

B. Purpose

Type Use If Change of Status or Alteration, Describe Change Establishment or change to traffic pattern (Describe on reverse) Construction Dates

Public Private Private Use of Public Land/Waters

To Begin/Began Est. Completion
10/98 **10/98**

C. Other Landing Areas	Ref. A5 Above		D. Landing Area Data				Existing (if any)			Proposed						
	Direction From Landing Area	Distance From Landing Area	1. Magnetic Bearing of Runway(s) or Sealane(s)	Length of Runway(s) or Sealane(s) in Feet	Width of Runway(s) or Sealane(s) in Feet	Type of Runway Surface (Concrete, Asphalt, Turf, Etc.)	Rwy #1	Rwy #2	Rwy #3	Rwy	Rwy	Rwy				
BRADLEY AIRPORT (BDL)	345°	7 MI					Airport, Seaplane Base, or Flightpark									
			BRAINARD (HFD)	225°	4.5 MI	Helicopter					2. Dimensions of Final Approach and Take off Area (FATO) in Feet			600 X 200		
											Dimensions of Touchdown and Lift-Off Area (TLOF) in Feet			200 X 200		
											Magnetic Direction of Ingress/Egress Routes			NORTH & SOUTH		
Type of Surface (Turf, concrete, rooftop, etc.)			TURF													

E. Obstructions

Type	Height Above Landing Area	Direction From Landing Area	Distance From Landing Area
TREES	30'	NW/E	300'
BUILDING	20'	WEST	200'

F. Operational Data

1. Estimated or Actual Number Based Aircraft

Airport Flightpark, Seaplane base	Present (If est. indicate by letter "E")	Anticipated 5 Years Hence	Helicopter	Present (If est. indicate by letter "E")	Anticipated 5 Years Hence
Multi-Engine			Under 3500 lbs. MGW	0	0
Single-engine			Over 3500 lbs. MGW		
Glider					

G. Other Considerations

Identification	Direction From Landing Area	Distance From Landing Area	2. Average Number Monthly Landings				
			Present (If est. indicate by letter "E")	Anticipated 5 Years Hence	Helicopter	Present (If est. indicate by letter "E")	Anticipated 5 Years Hence
					Helicopter	15E	20
					Ultralight		
					Glider		

3. Are IFR Procedures For The Airport Anticipated
 No Yes Within _____ Years Type Navaid:

H. Application for Airport Licensing

Has Been Made Not Required County
 Will Be Made State Municipal Authority

I. CERTIFICATION: I hereby certify that all of the above statements made by me are true and complete to the best of my knowledge.

Name, title (and address if different than above) of person filing this notice—type or print
**PAUL KELLER, DIRECTOR OF FINANCE
330 GOVERNORS HIGHWAY
SOUTH WINDSOR, CT 06074**

Signature (in ink)

Date of Signature
9/18/98

Telephone No. (Precede with area code)
(860) 289-8661

Omnipoint Communications Services

PH 8/17/99

*continued to Sept 14 only to receive
lighting info*

1. Request for Special Exception and site plan of development approval to construct a monopole telecommunications facility at 300 Governors Highway, Industrial zone Proposed tower height is 175 feet; 175 feet allowed. Zoning requirements appear to be met.
2. Special Exception criteria include:
 - ◆ There will be minimal adverse effects on uses in the area;
 - ◆ Surrounding property values will be conserved and the character of the neighborhood will not be unduly disrupted;
 - ◆ The land is physically suited for such use and minimal adverse environmental and aesthetic impacts are created, including but not limited to whether alternate sites were exhausted; what lies within the fall zone of the tower; existence of endangered species; whether other development is being proposed or considered at or near the site; effect on bird habitats; and length of access road; and,
 - ◆ Public health and safety will not be adversely affected.
3. Location preferences in the TCC regulation are (1) on existing structures such as buildings, water towers and utility poles, or existing/previously-approved towers; (2) on new towers with visual mitigation in commercial and industrial districts; and (3) on new towers located in commercial or industrial zones. There are three lower-priority categories also, including residential zones.
4. The Architectural and Design Review Committee reviewed the application on July 15. It was the consensus of the ADRC that due to the flat topography, the applicant should investigate the use of smaller poles (for example, two 80' poles) to meet the coverage needs. However, it should be noted that after the balloon test, ADRC Chair Ron Johnson did call in to indicate that he did not have as much concern as he had previously. ADRC recommends additional evergreen plantings to be interplanted around the site.
5. General site requirements include:
 - Towers must be painted non-contrasting blue, gray or black;
 - Towers shall be designed to collapse upon themselves;

*- light at top of tower per Electro Methods request - Paul Keller
to supply lighting info*

- Any pole over 150 feet must accommodate at least two additional users;
and
 - All utilities must be installed underground;
6. Submittal requirements include a report from a licensed engineer indicating that the proposed wireless site will comply with the emission standards of the FCC for non-ionizing electromagnetic emissions; this report was submitted with the application.
 7. A Special Exception for a telecommunications facility is granted for an initial five-year period. Permit renewals can be granted upon submittal of a request by the owner; renewal does not require a new application or public hearing. The regulations require that tower construction commence within one year from the date of approval. There is also an abandonment clause in the zoning regulations that requires removal of the facility within 90 days from the date of abandonment and restoration of the area to its previous appearance.
 8. The site is outside of regulated wetlands, so no IWA/CC approval is required.

If this application is approved, the Planning Dept. has no additional modifications.

JET ENGINE PARTS MANUFACTURER

A



electro-methods, inc.

TEL (860) 289-8661 - FAX (860) 289-1868
P.O. BOX 54, 330 GOVERNORS HIGHWAY, SOUTH WINDSOR, CT 06074

September 10, 1999

Planning & Zoning Commission
Town of South Windsor
1540 Sullivan Avenue
South Windsor, CT 06074

Attn: Ms. Susan Larsen, Chairperson

RE: Omnipoint Communications installation of 175 foot tall telecommunications
monopole at 300 Governors Highway

Dear Ms. Larsen,

As a follow up to the Planning and Zoning Commission meeting on August 17, 1999 regarding the potential hazard to helicopter operations resulting from the above referenced installation, I propose the following lighting be incorporated on the structure. This lighting configuration meets the Federal Aviation Administration requirements as outlined in the attached Advisory Circular.

One (1) red flashing (L-864) beacon at the top of the structure

Two (2) red, steady burning (L-810) lights installed on diagonally or diametrically opposite positions at 20 feet above the tree line.

Incorporation of the above suggested lighting should greatly reduce the potential hazard to helicopter operations in the vicinity of the proposed tower.

Your time and consideration in this matter are appreciated.

Sincerely,
ELECTRO-METHODS, INC.


Paul Keller
Director of Finance

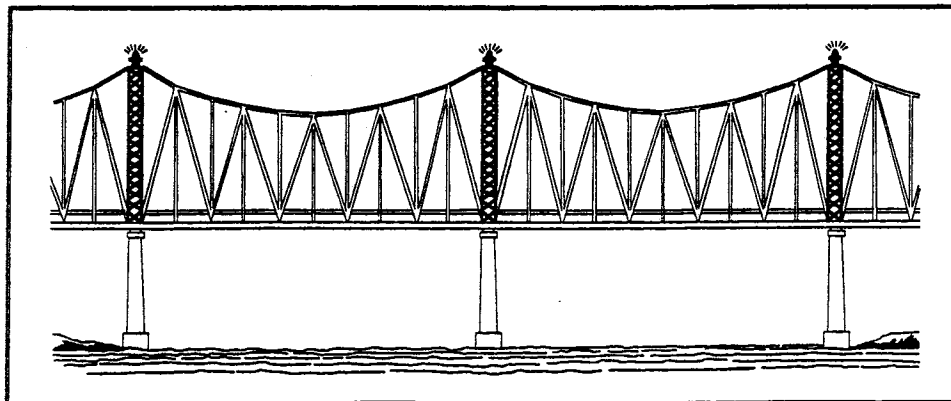
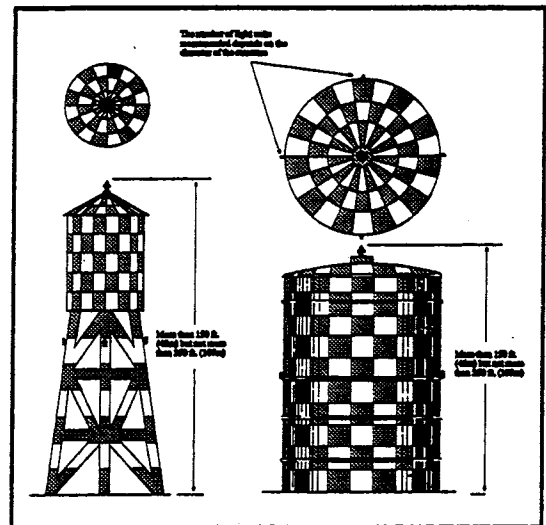
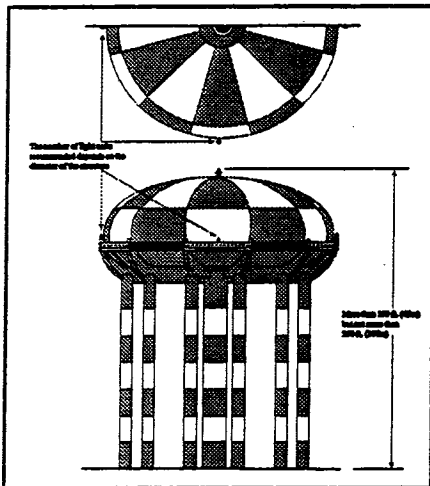
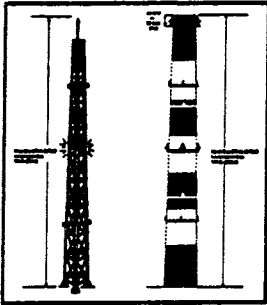


U.S. Department
of Transportation
**Federal Aviation
Administration**

ADVISORY CIRCULAR

AC 70/7460-1J

Obstruction Marking and Lighting





U.S. Department
of Transportation

**Federal Aviation
Administration**

ADVISORY CIRCULAR

Subject: Obstruction Marking and
Lighting

Date: 11/29/95

AC No: 70/7460-1J

Initiated by: ATP-240

1. PURPOSE. This Advisory Circular (AC) describes the Federal Aviation Administration's (FAA) standards for marking and lighting structures to promote aviation safety.

2. CANCELLATION. AC 70/7460-1H, Obstruction Marking and Lighting, dated August 1991 is canceled by this revision.

Note-

BACKGROUND. Since there is a typographical similarity between the alphanumeric characters "1" and "I," the "I" character has been skipped and the letter "J" has been used for this edition of the advisory circular.

3. EFFECTIVE DATE. This advisory circular becomes effective January 1, 1996.

4. RELATED DOCUMENTS.

a. Federal Aviation Regulations Part 77 describes the standards used relative to objects in the navigable airspace and specifies the requirements for notice to the Administrator of certain proposed construction or alteration.

b. Federal Communications Commission (FCC) specifications contained in Part 17 of the FCC Rules and Regulations.

5. HIGHLIGHTS. This circular contains numerous editorial changes. Major changes are indicated below.

a. Paragraph 5, Modifications and Deviations, states sponsor's responsibility to adhere to recommended chapters

of AC. Paragraph added concerning voluntary marking and/or lighting. "Paragraph added advising proponents to become familiar with various lighting systems."

b. Paragraph 6, FCC Approval, adds notification requirement to National Oceanic and Atmospheric Administration (NOAA) of modifications/deviations to marking and/or lighting.

c. Paragraph 33, Patterns, adds requirement to paint conduit and cable wires.

d. Paragraph 36, Catenary Lighting, deleted.

e. Paragraph 43, Catenary Lighting, added.

f. Paragraph 51, Standards, adds requirement for lights to flash simultaneously.

g. Paragraph 53b(2)(b), Poles, Towers, and Similar Skeletal Structures, revised.

h. Paragraph 105, Catenary Lighting, added.

i. Paragraph 115, Catenary Lighting, added.

j. Paragraph 132, Availability of Specifications, changes General Service Administration's address and telephone number.

k. Appendix 1, Figure 1 (Types of Red Obstruction Lights) and Figure 2 (Types of High and Medium Intensity White Obstruction Lights), deleted. These figures are replaced with a listing of types of obstruction lights.


L. LANE SPECK

Program Director for Air Traffic Rules and Procedures

CHAPTER 5. RED OBSTRUCTION LIGHTING STANDARDS

50. PURPOSE.

Red obstruction lights are used to increase conspicuity during nighttime. Daytime and twilight marking is required.

51. STANDARDS.

The red obstruction lighting system is composed of flashing omnidirectional beacons (L-864) and/or steady burning (L-810) lights. When one or more levels is comprised of flashing beacon lighting, the lights should flash simultaneously. (See APPENDIX 1. FIG 11.)

a. Single Obstruction Light. A single (L-810) light may be used when more than one obstruction light is required either vertically or horizontally or where maintenance can be accomplished within a reasonable time.

1. Top Level. A single light may be used to identify low structures such as airport ILS buildings and long horizontal structures such as perimeter fences and building roof outlines.

2. Intermediate Level. Single lights may be used on skeletal and solid structures when more than one level of lights is installed and there are two or more single lights per level.

b. Double Obstruction Light. A double (L-810) light should be installed when used as a top light, at each end of a row of single obstruction lights, and in areas or locations where the failure of a single unit could cause an obstruction to be totally unlighted.

1. Top Level. Structures 150 feet (46m) AGL or less should have one or more double lights installed at the highest point and operating simultaneously.

2. Intermediate Level. Double lights should be installed at intermediate levels when a malfunction of a single light could create an unsafe condition and in remote areas where maintenance cannot be performed within a reasonable time. Both units may operate simultaneously, or a transfer relay may be used to switch to a spare unit should the active system fail.

3. Lowest Level. The lowest level of light units may be installed at a higher elevation than normal on a structure if the surrounding terrain, trees, or adjacent building(s) would obscure the lights. (See APPENDIX 1.) In certain instances, as determined by an FAA aeronautical study, the lowest level of lights may be eliminated.

52. CONTROL DEVICE.

Red obstruction lights should be operated by a satisfactory control device (e.g., photo cell, timer, etc.) adjusted so the lights will be turned on when the northern sky illuminance

reaching a vertical surface falls below a level of 60 footcandles (645.8 lux) but before reaching a level of 35 footcandles (367.7 lux). The control device should turn the lights off when the northern sky illuminance rises to a level of not more than 60 footcandles (645.8 lux). The lights may also remain on continuously. The sensing device should, if practical, face the northern sky in the Northern Hemisphere. (See AC 150/5345-43.)

53. POLES, TOWERS, AND SIMILAR SKELETAL STRUCTURES.

The following standards apply to radio and television towers, supporting structures for overhead transmission lines, and similar structures.

a. Top Mounted Obstruction Light.

1. Structures 150 Feet (46m) AGL or Less. Two or more steady burning (L-810) lights should be installed in a manner to ensure an unobstructed view of one or more lights by a pilot.

2. Structures Exceeding 150 Feet (46m) AGL. At least one red flashing (L-864) beacon should be installed in a manner to ensure an unobstructed view of one or more lights by a pilot.

3. Appurtenances 40 Feet (12m) or Less. If a rod, antenna, or other appurtenance 40 feet (12m) or less in height is incapable of supporting a red flashing beacon, then it may be placed at the base of the appurtenance. If the mounting location does not allow unobstructed viewing of the beacon by a pilot, then additional beacons should be added.

4. Appurtenances Exceeding 40 Feet (12m). If a rod, antenna, or other appurtenance exceeding 40 feet (12m) in height is incapable of supporting a red flashing beacon, a supporting mast with one or more beacons should be installed adjacent to the appurtenance. Adjacent installations should not exceed the height of the appurtenance and be within 40 feet (12m) of the tip to allow the pilot an unobstructed view of at least one beacon.

b. Mounting Intermediate Levels. The number of light levels is determined by the height of the structure, including all appurtenances, and is detailed in APPENDIX 1. The number of lights on each level is determined by the shape and height of the structure. These lights should be mounted so as to ensure an unobstructed view of at least one light by a pilot.

1. Steady Burning Lights (L-810).

(a) Structures 350 Feet (107m) AGL or Less. Two or more steady burning (L-810) lights should be installed on diagonally or diametrically opposite positions.

(b) *Structures Exceeding 350 Feet (107m) AGL.* Install steady burning (L-810) lights on each outside corner of each level.

2. *Flashing Beacons (L-864).*

(a) *Structures 350 Feet (107m) AGL or Less.* These structures do not require flashing (L-864) beacons at intermediate levels.

(b) *Structure Exceeding 350 Feet (107m) AGL.* At intermediate levels, two beacons (L-864) should be mounted outside at diagonally opposite positions of intermediate levels.

54. CHIMNEYS, FLARE STACKS, AND SIMILAR SOLID STRUCTURES.

a. *Number of Light Units.*

1. The number of units recommended depends on the diameter of the structure at the top. The number of lights recommended below are the minimum.

2. When the structure diameter is:

(a) *20 Feet (6m) or Less.* Three light units per level.

(b) *Exceeding 20 Feet (6m) But Not More Than 100 Feet (31m).* Four light units per level.

(c) *Exceeding 100 Feet (31m) But Not More Than 200 Feet (61m).* Six light units per level.

(d) *Exceeding 200 Feet (61m).* Eight light units per level.

b. *Top Mounted Obstruction Lights.*

1. *Structures 150 Feet (46m) AGL or Less.* L-810 lights should be installed horizontally at regular intervals at or near the top.

2. *Structures Exceeding 150 Feet (46m) AGL.* At least three L-864 beacons should be installed.

3. *Chimneys, Cooling Towers, and Flare Stacks.* Lights may be displayed as low as 20 feet (6m) below the top to avoid the obscuring effect of deposits and heat generally emitted by this type of structure. It is important that these lights be readily accessible for cleaning and lamp replacement. (See APPENDIX 1.)

c. *Mounting Intermediate Levels.* The number of light levels is determined by the height of the structure including all appurtenances. For cooling towers 600 feet or less, intermediate light levels are not necessary.

d. *Structures Exceeding 600 Feet (183m) AGL.* Structures exceeding 600 feet (183m) AGL should have a second level of light units installed approximately at the midpoint of the structure and in a vertical line with the top level of lights.

1. *Steady Burning (L-810) Lights.* The recommended number of light levels may be obtained from APPENDIX 1. At least three lights should be installed on each level.

2. *Flashing (L-864) Beacons.* The recommended number of beacon levels may be obtained from APPENDIX 1. At least three lights should be installed on each level.

(a) *Structures 350 Feet (107m) AGL or Less.* These structures do not need intermediate levels of flashing beacons.

(b) *Structures Exceeding 350 Feet (107m) AGL.* At least three flashing (L-864) beacons should be installed on each level in a manner to allow an unobstructed view of at least one beacon.

55. WIND TURBINE STRUCTURES.

These structures should be lighted by mounting one flashing red beacon on the highest practical point. The recommended number of intermediate light levels may be obtained from APPENDIX 1. At least three steady burning red lights should be installed. An FAA aeronautical study may recommend fewer lights at locations where several structures are closely grouped.

56. GROUP OF OBSTRUCTIONS.

When individual objects within a group of obstructions are not the same height and are spaced a maximum of 150 feet (46m) apart, the prominent objects within the group should be lighted in accordance with the standards for individual obstructions of a corresponding height. In addition, at least one flashing beacon should be installed at the top of a prominent center obstruction or on a special tower located near the center of the group.

57. ALTERNATE METHOD OF DISPLAYING OBSTRUCTION LIGHTS.

When recommended in an FAA aeronautical study, lights may be placed on poles equal to the height of the obstruction and installed on or adjacent to the structure instead of installing lights on the obstruction.

58. PROMINENT BUILDINGS AND SIMILAR EXTENSIVE OBSTRUCTIONS.

When objects within a group of obstructions are approximately the same overall height above the surface and are located a maximum of 150 feet (46m) apart, the group of obstructions may be considered an extensive obstruction. Install light units on the same horizontal plane at the highest portion or edge of prominent obstructions. Light units should be placed to ensure that the light is visible to a pilot approaching from any direction. Steady burning lights

RED OBSTRUCTION LIGHT STANDARDS

APPENDIX I

CHAPTER 5
AVIATION RED OBSTRUCTION LIGHTS
STANDARDS FOR
LIGHTING OBSTRUCTIONS

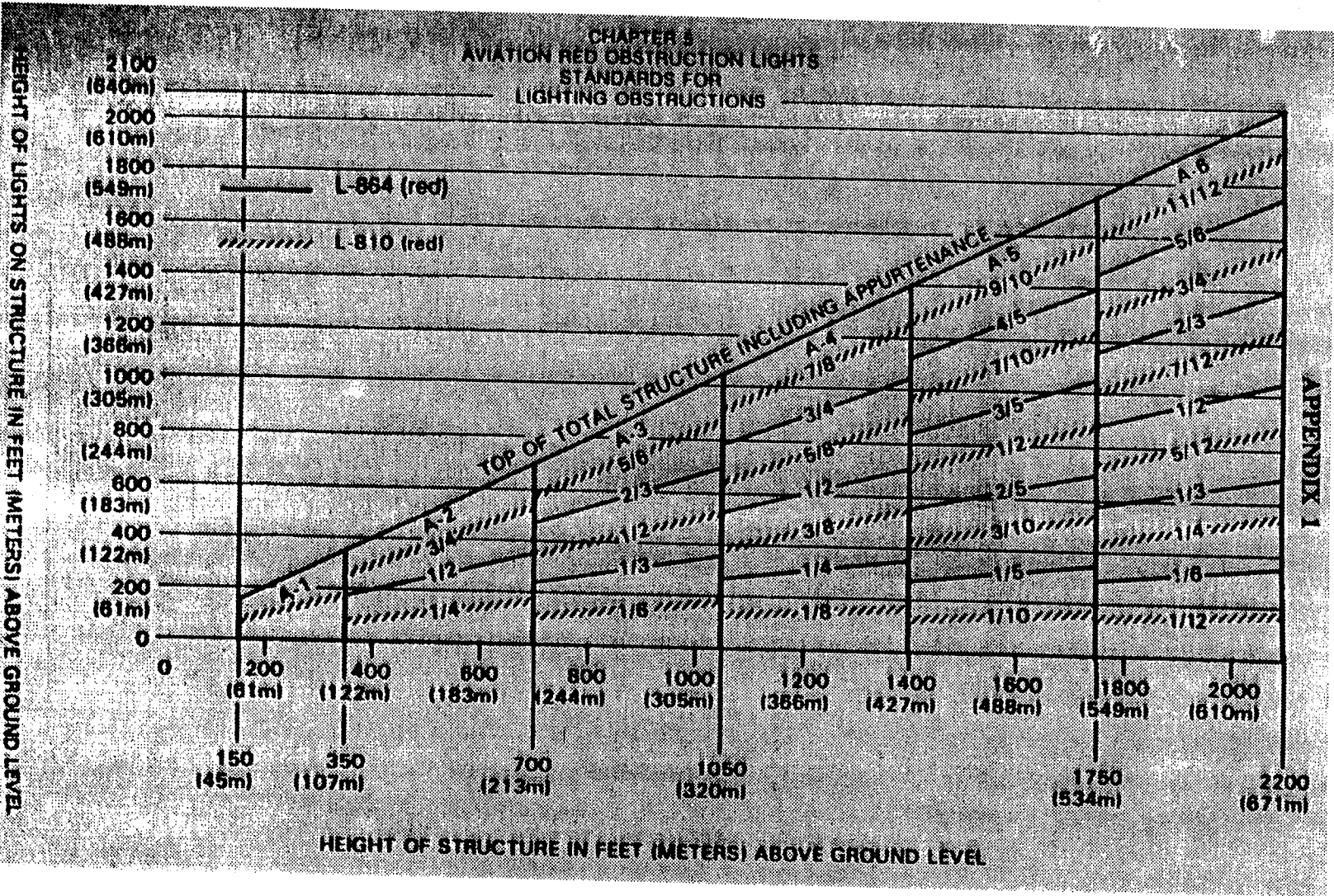


FIG II



Town of South Windsor

1540 SULLIVAN AVENUE • SOUTH WINDSOR, CT 06074-2786

AREA CODE 860/644-2511

FAX 860/644-3781

CERTIFIED MAIL

September 21, 1999

Mr. Thomas M. Gilligan
Omnipoint Communications, Inc.
100 Filley Street
Bloomfield, CT 06002

Dear Mr. Gilligan:

Re: Appl 99-51P, Omnipoint Communications Services

We are pleased to advise you that the Planning & Zoning Commission voted on September 14, 1999 to approve with modifications the above referenced application for a request for a Special Exception to Section XVI for the construction of a 175 ft. multi-carrier telecommunications monopole on property located at 300 Governor's Highway, I zone as shown on plans prepared by Arcnet, Job No. A 99506823A, dated 5/9/99, as revised. This approval is subject to the following modifications:

1. Prior to commencement of any site work, a meeting must be held with Town Staff.
2. No building permit will be issued until the final mylars have been filed in the Town Clerk's office.
3. An as-built plan is required prior to issuance of a Certificate of Occupancy per Section 8.1.10 of the Zoning Regulations.
4. All plans used in the field by the developer must bear the stamp and authorized signature of the Town of South Windsor.
5. Special Exception approval is granted for five years and must be renewed prior to September 14, 2004. The attached Special Exception form must be completed and filed in the Town Clerk's office. The special exception will take effect upon filing.

Black and white transparent mylars of Sheet S-1 with the above modifications, together with three blueprint copies of the entire set of plans must be submitted to this Commission within 30 days to be stamped and signed.

After the mylars have been signed by the Commission, they will be returned to you for filing in the Office of the Town Clerk. After filing these plans, a copy of the receipt must be submitted to the Planning Department.

Sincerely,

Sue W. Larsen Idw

Sue W. Larsen, Chairperson
Planning and Zoning Commission

SL/dlw

Attachment

cc: Town Engineer
Chief Building Official
Assessor
Superintendent of Pollution Control
Fire Marshal

I, Sue W. Larsen, Chairperson of the South Windsor Planning & Zoning Commission, hereby certify that on September 14, 1999, the Planning and Zoning Commission granted to Omnipoint Communications Services a Special Exception to Article XVI of the Zoning Regulations and Resubdivision for the construction of a 175 ft. multi-carrier telecommunications tower on property located at 300 Governor's Highway as shown on plans prepared by Arcnet, Project No. A99506823A.

Assessor's Map and Parcel Number: Map # 71 Parcel #22
More particularly bounded and described as follows:

a certain piece or parcel of land, together with the buildings thereon situated in the Town of South Windsor, County of Hartford and State of Connecticut located on the northerly side of Governor's Highway and shown on a map entitled, "Property Mapped for Raycon, Inc. Governor's Highway, South Windsor, Conn. Scale 1"=100' June 20, 1967 Hayden L. Griswold C.E.", which map is on file in the Town Clerk's Office in said Town of South Windsor to which reference may be had. Said premises are more particularly bounded and described as follows to wit:

Beginning at a point in the northerly line of Governor's Highway at its intersection with the easterly line of land now or formerly of the New York, New Haven & Hartford Railroad Company; thence northerly along the easterly line of land of said New York, New Haven & Hartford Railroad as shown on said map, a distance of 489.23 feet to a point, which point is marked by a merestone; thence easterly along the southerly line of land now or formerly of Harry Goldberg and Edith Goldberg as shown on said map, a distance of 476.62 feet to a point, which point is the northwesterly corner of Parcel "B" as shown on said map, thence southerly along the westerly line of said Parcel "B" as shown on said map, a distance of 480.60 feet to a point, which point is located in the northerly line of Governor's Highway; thence westerly along the northerly line of Governor's Highway, a distance of 511.47 feet to a merestone, the point and place of beginning.

Being the same premises conveyed to John J. Woodcock, Jr. by deed of Surgicot, Inc. dated May 31, 1983 and recorded June 1, 1983 in Volume 337 at Page 302 of the South Windsor Land Records.

Said premises are subject to any and all provisions of any ordinance, municipal regulation or public or private law and building, building line, and zoning restrictions as of record may appear. Said premises are further subject to the taxes on the List of October 1, 1987 which taxes the Grantee herein assumes and agrees to pay as part consideration for this deed. Said premises are further subject to a possible caveat in favor of The Metropolitan District Commission dated October 14, 1963 and recorded October 18, 1963 in Volume 98 at Page 669 of the South Windsor Land Records and also a possible caveat in favor of The Metropolitan District Commission dated July 9, 1963 and recorded July 11, 1963 in Volume 97 at Page 201 of the South Windsor Land Records.

OWNER OF RECORD: Electron Technologies Corporation

Dated at South Windsor, Connecticut this September 27, 1999.

In accordance with CGS Section 8-3d

Sue W. Larsen, Chairperson
Planning & Zoning Commission

Received for record this _____ day of _____, 19____, at

South Windsor, Connecticut

ATTEST:



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

August 8, 2002

Christopher B. Fisher, Esq.
Cuddy & Feder & Worby LLP
90 Maple Avenue
White Plains, NY 10601-5196

RE: **EM-AT&T-132-020701** - AT&T Wireless PCS, LLC d/b/a AT&T Wireless notice of intent to modify an existing telecommunications facility located at 300 Governor's Highway, South Windsor, Connecticut.

Dear Attorney Fisher:


At a public meeting held on August 1, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice received in our office on July 1, 2002. 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. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

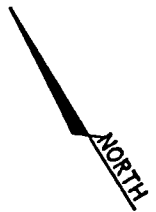
Thank you for your attention and cooperation.

Very truly yours,


Mortimer A. Gelston
Chairman

MAG/laf

c: Honorable William Aman, Mayor, Town of South Windsor
Marcia Banach, Director of Planning, Town of South Windsor
Matthew B. Galligan, Town Manager, Town of South Windsor
Stephen Humes, Esq., LeBoeuf, Lamb, Greene & MacRae



PROPOSED OCS 50' X 50'
CHAIN LINK COMPOUND

PROPOSED OCS
175'-0" MONOPOLE

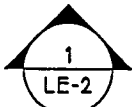
PROPOSED OCS BTS
EQUIPMENT CABINET
MOUNTED TO NEW
CONCRETE SLAB

EXISTING WOODED
AREA

PROPOSED OCS 10'-0"
GRAVEL ACCESS ROAD

PROPOSED
TELCO/ELECTRIC
PANELS

EXISTING GRASSED AREA



EXISTING
RAILROAD

EXISTING PAVED
ASPHALT
DRIVEWAY

EXISTING BUILDING

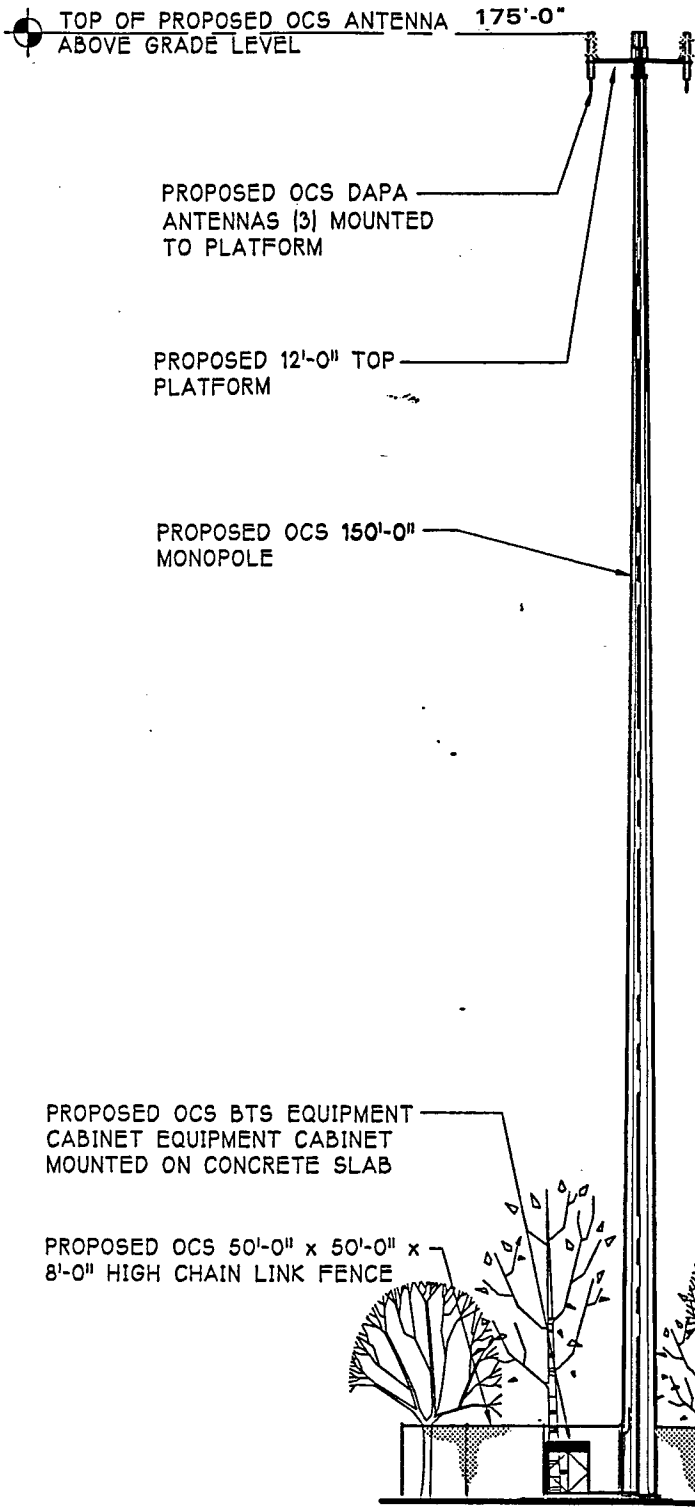
EXISTING PAVED
ASPHALT PARKING
AREA

GOVERNOR'S HIGHWAY

1 SITE LAYOUT
LE-1 SCALE: NOT TO SCALE

NOTE: EXHIBITS SUBMITTED ARE A CONCEPTUAL REPRESENTATION OF THE LEASE AGREEMENT ONLY.
ACTUAL CONSTRUCTION DOCUMENTATION MAY VARY TO COMPLY WITH ALL APPLICABLE CODES.

<p>670 North Beers Street, Building 2, Holmdel, NJ 07733 Tel: 732.739.3200 Fax: 732.739.0440</p>	Drawing Title: SITE LAYOUT		Project: ELECTRON TECHNOLOGIES		
	Client:		Address: 300 GOVERNOR'S HIGHWAY SOUTH WINDSOR, CT		
Search Area: SOUTH WINDSOR/RT. 5 Site ID No.: CT-11-279A	P.C.: JDi	P.C. Chkd.:	Chkd. by:	Approved By: PROJ. MGR: _____ DATE: _____ R.F. ENGR: _____ DATE: _____ SAC: _____ DATE: _____ OWNER: _____ DATE: _____	REV.#1 KK 5/18/99 Revision No. Date Drawing No. LE-1
		ARCNET Project No.: A99.506.823A	Drawn: KK	Date: 3/17/99	



1 ELEVATION
LE-2 SCALE: NOT TO SCALE

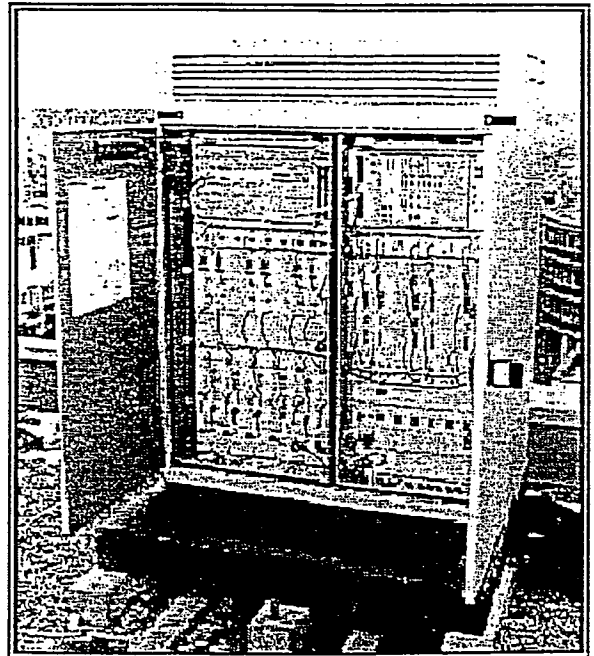
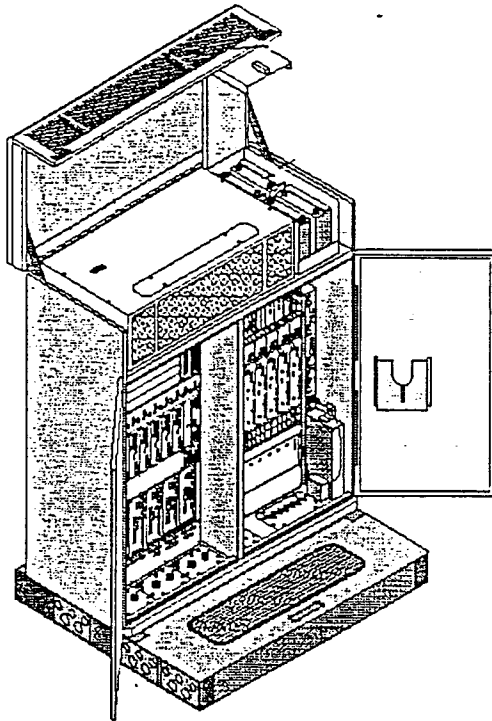
NOTE: EXHIBITS SUBMITTED ARE A CONCEPTUAL REPRESENTATION OF THE LEASE AGREEMENT ONLY. ACTUAL CONSTRUCTION DOCUMENTATION MAY VARY TO COMPLY WITH ALL APPLICABLE CODES.

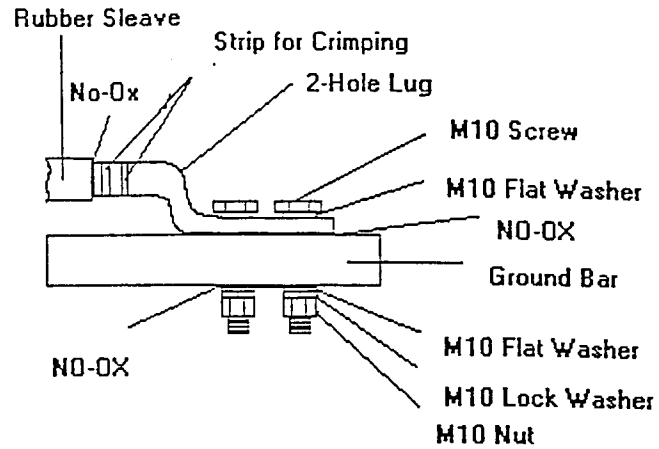
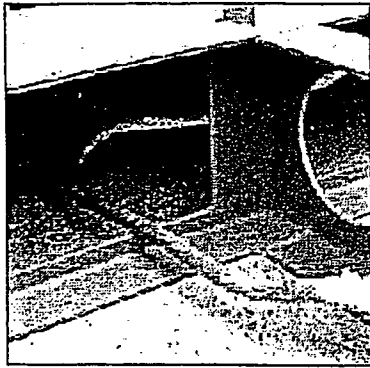
<p>670 North Beers Street, Building 2, Holmdel, NJ 07733 Tel: 732.739.3200 Fax: 732.739.0440</p>	Drawing Title: ELEVATION		Project: ELECTRON TECHNOLOGIES Address: 300 GOVERNOR'S HIGHWAY SOUTH WINDSOR, CT		
	Client:		Approved By: PROJ. MGR: _____ DATE: _____ R.F. ENGR: _____ DATE: _____ SAC: _____ DATE: _____ OWNER: _____ DATE: _____		REV#1 KK 5/18/99 Revision No. Date
Search Area: SOUTH WINDSOR/RT. 5 Site ID No.: CT-11-279A	P.C.: JDi	P.C. Chkd.: Chkd. by:	ARCNET Project No.: A99.506.823A	Drawn: KK	Date: 3/17/99
					Drawing No.: LE-2

NORTEL
NETWORKS™

S8000 BTS

Site Specifications





Apply a light coating of No Oxidation (NO-OX) to the ground bar area.

Dimensions, Weights & Clearances

BTS

Weight: 915 pounds

Dimensions: 53.2"W x 26"D x 63"H

Clearances while transporting in building:

Door Access:

Height: 6.6 feet

Width 3 feet

Corridor Access:

Height: 6.6 feet

Width: 3.6 feet (straight), 6.6 feet (right angle)

Clearances when installed:

Above: 28 inches for opening of hood

Rear: 8 inches for installation of outer skin

Sides: 8 inches for adjustment of door hinges

Front: 54 inches to open door and technician access

Plinth

Weight:

87 pounds

Dimensions:

53.2"W x 44"D x 10.2"H

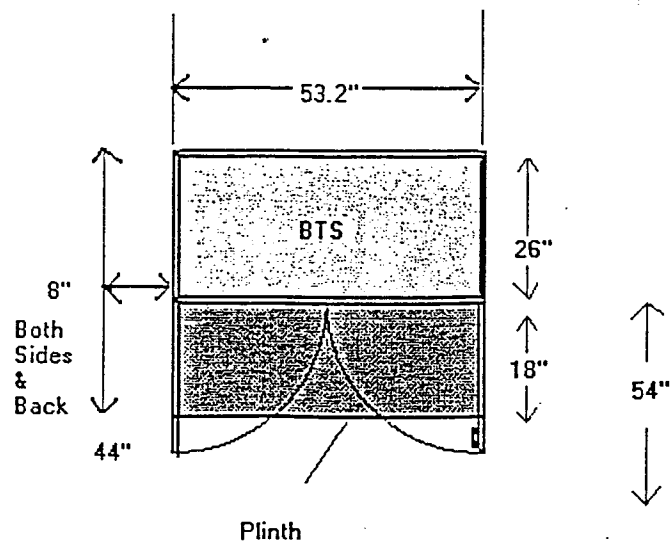
Floor Characteristics

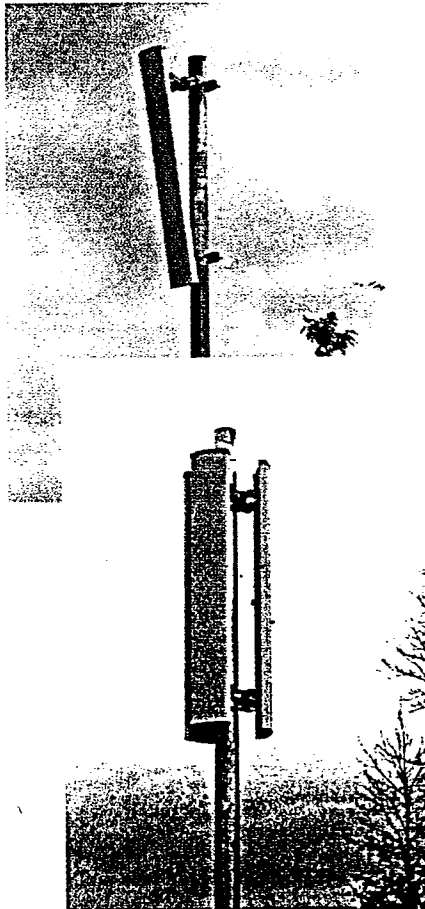
Minimum Floor Resistance:

123 pounds/foot²

Flatness:

¼ inch over 78 inches

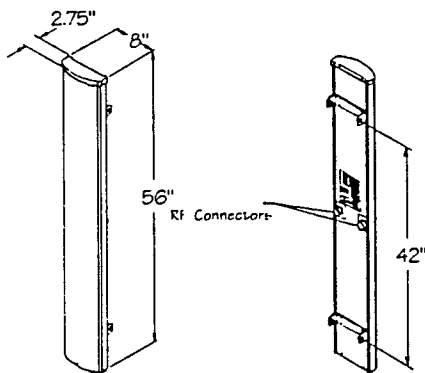




Mechanical Specification	
Parameter	Specification
Dimensions (L x W x D)	56 in x 8 in x 2.75 in (142 cm x 20.3 cm x 7.0 cm)
Rated Wind Velocity	150 mph (241 km/hr)
Equivalent Flat Plate Area	3.1 ft. ² (.29 m ²)
Front Wind Load @ 100 mph (161 kph)	90 lbs (400 N)
Side Wind Load @ 100 mph (161 kph)	31 lbs (139 N)
Weight	18 lbs (8.2 kg)

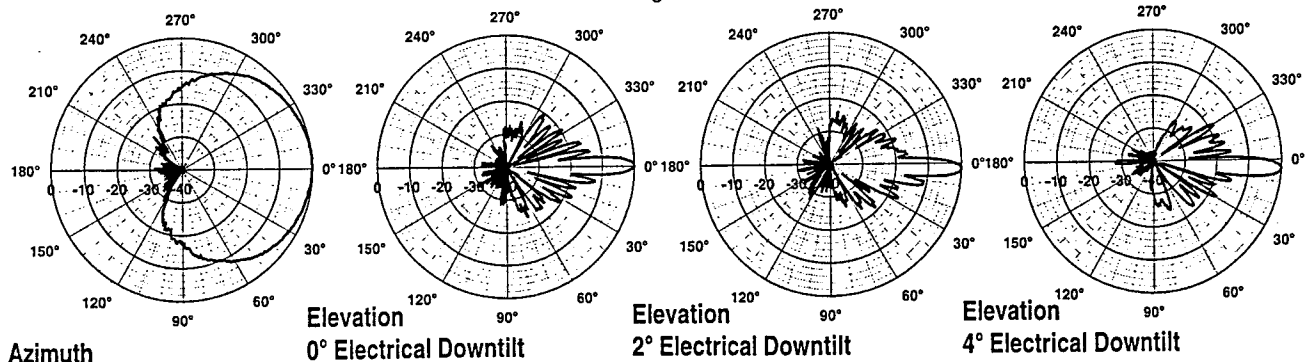
Electrical Specification	
Parameter	Specification
Azimuth Beamwidth	90°
Elevation Beamwidth	6°
Gain	16.5 dBi (14.4 dBd)
Polarization	Slant, +/-45°
Port-to-Port Isolation	≥ 30 dB
Front-to-Back Ratio	≥ 25 dB (≥ 30 dB Typical)
Electrical Downtilt Options	0°, 2°, 4°, 6°
Power Handling	250 Watts CW
VSWR	1.35:1 Max
Passive Intermodulation	<-147 dBc (2 tone @ +43 dBm {20W} ea.)
Connectors	2; 7-16 DIN (female)
Lightning Protection	Chassis Ground

Note: Antenna patterns and electrical specifications are co-polarized data.

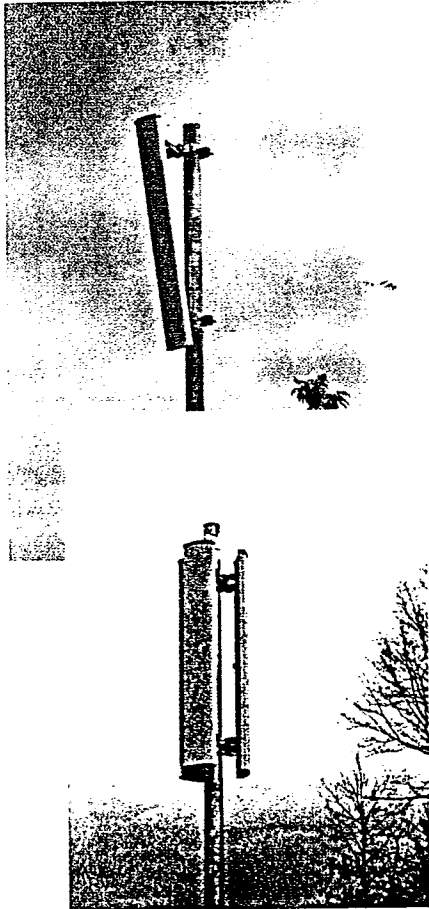


Mounting Options		
Model Number	Description	Comments
MTG-P00-10	Standard Mount (Supplied with Antenna)	Mounts to wall <u>or</u> 1.5 inch to 5.0 inch O.D. pole (3.8 cm to 12.7 cm)
MTG-S00-10	Swivel Mount Kit	Wall mounting kit providing +/-30° Azimuth Beam Adjustment
MTG-D10-20	Mechanical Downtilt Kit	0° - 10° Mechanical Downtilt
MTG-D15-20	Mechanical Downtilt Kit	0° - 15° Mechanical Downtilt
MTG-C00-10	Cluster Mount Kit	3 Antennas 120° apart <u>or</u> 2 Antennas 180° apart
MTG-C10-10	Cluster Mount Kit	For use with 10° Downtilt Kit
MTG-C15-10	Cluster Mount Kit	For use with 15° Downtilt Kit

Note: Patent Pending



RR65-18-XXDP



Mechanical Specification

Parameter	Specification
Dimensions (L x W x D)	56 in x 8 in x 2.75 in (142 cm x 20.3 cm x 7.0 cm)
Rated Wind Velocity	150 mph (241 km/hr)
Equivalent Flat Plate Area	3.1 ft. ² (.29 m ²)
Front Wind Load @ 100 mph (161 kph)	90 lbs (400 N)
Side Wind Load @ 100 mph (161 kph)	31 lbs (139 N)
Weight	18 lbs (8.2 kg)
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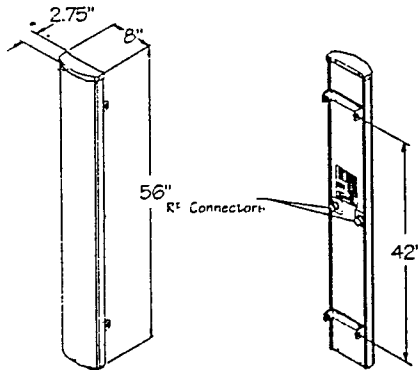
Electrical Specification

Parameter	Specification
Azimuth Beamwidth	65°
Elevation Beamwidth	6°
Gain	17.5 dBi (15.4 dBd)
Polarization	Slant, +/-45°
Port-to-Port Isolation	≥ 30 dB
Front-to-Back Ratio	≥ 25 dB (≥ 30 dB Typical)
Electrical Downtilt Options	0°, 2°, 4°, 6°
Power Handling	250 Watts CW
VSWR	1.35:1 Max
Passive Intermodulation	<-147 dBc (2 tone @ +43 dBm {20W} ea.)
Connectors	2; 7-16 DIN (female)
Lightning Protection	Chassis Ground

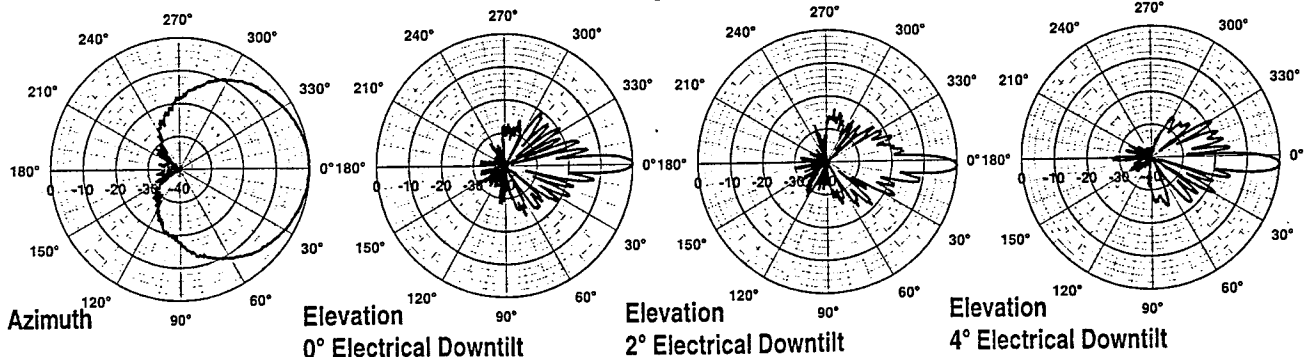
Note: Antenna patterns and electrical specifications are co-polarized data.

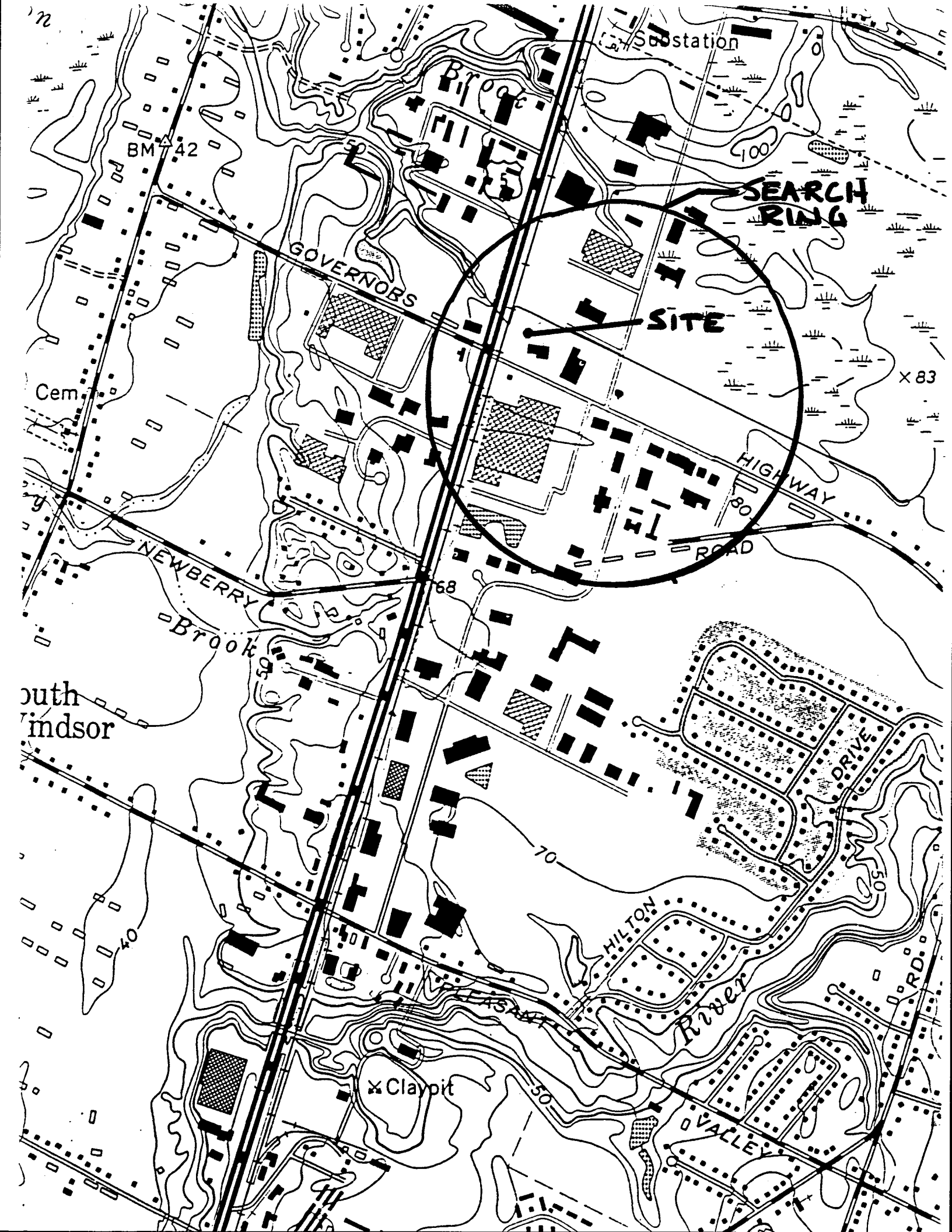
Mounting Options

Model Number	Description	Comments
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MTG-S00-10	Swivel Mount Kit	Wall mounting kit providing +/-30° Azimuth Beam Adjustment
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MTG-D15-20	Mechanical Downtilt Kit	0° - 15° Mechanical Downtilt
MTG-C00-10	Cluster Mount Kit	3 Antennas 120° apart or 2 Antennas 180° apart
MTG-C10-10	Cluster Mount Kit	For use with 10° Downtilt Kit
MTG-C15-10	Cluster Mount Kit	For use with 15° Downtilt Kit



Note: Patent Pending





Station

BM 42

SEARCH RING

GOVERNORS

SITE

Cem.

X 83

HIGHWAY

ROAD

NEWBERRY Brook

outh Windsor

DRIVE

HILTON River

x Claypit

VALLEY

RD.



WINDSOR

RIVER

Landing Strip

SPERRY ROAD

East Windsor H. Sch

Edwards Cemetery

Windsor Polytechnic Institute
(Harford Graduate Center)

Brickyard Pond

Slaypits

Station

WINDSOR

323R HK SK 6K

WAPPING

WAPPING SCH

South Windsor High Sch

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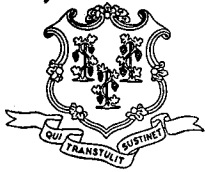
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STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: siting.council@po.state.ct.us

Web Site: www.state.ct.us/csc/index.htm

July 29, 2003

Honorable William Aman
Mayor
Town of South Windsor
Town Hall
1540 Sullivan Avenue
South Windsor, CT 06074-2786

RECEIVED

JUL 31 2003

SOUTH WINDSOR PLANNING DEPT.

RE: **EM-CING-132-030728** – Southwestern Bell Mobile Systems, LLC notice of intent to modify an existing telecommunications facility located at 300 Governors Street, South Windsor, Connecticut.

Dear Mr. Aman:

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

The Council will consider this item at the next meeting scheduled for August 26, 2003, at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/ld

Enclosure: Notice of Intent

c: Marcia Banach, Director of Planning, Town of South Windsor

Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive



EM-CING-132-030728

July 28, 2003

RECEIVED
JUL 28 2003

**CONNECTICUT
SITING COUNCIL**

Ms. Pam Katz, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Notice of Exempt Modification – Existing T-Mobile Telecommunications Tower Facility at Governors Street, South Windsor, Connecticut

Dear Chairman Katz:

Southwestern Bell Mobile Systems, LLC ("SBMS") intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower at 300 Governors Street in South Windsor, Connecticut.

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 the Town Manager of South Windsor.

The T-Mobile South Windsor facility is located on the east side of US Hwy 5, approximately 2 miles north of its intersection with I-291. Tower coordinates (NAD 83) are N 41° 49' 48" and W 72° 36' 00". The facility is owned and operated by T-Mobile USA ("T-Mobile"), with offices at 4 Sylvan Way, Parsippany, New Jersey 07054. T-Mobile leases the land from Electron Technologies Corporation of South Windsor.

SBMS, the local component of the nationwide Cingular Wireless network, is licensed by the Federal Communications Commission ("FCC") to provide cellular mobile telephone service in the Hartford, CT Metropolitan Statistical Area, which includes the area to be served by SBMS' proposed installation. The public need for cellular service has been predetermined by the FCC.

T-Mobile is in agreement with plans put forth by SBMS pursuant to mutually acceptable terms and conditions and has also authorized SBMS to obtain necessary government approvals. While the two companies have not yet concluded a final written agreement at this writing, T-Mobile has authorized SBMS to proceed with this application in expectation of

timely progress.

Attached to this Notice are a site location map, a proposed site plan, the proposed tower profile, and a structural analysis report that shows the tower is structurally capable of supporting the proposed SBMS telecommunications equipment.

The South Windsor Planning & Zoning Commission granted a Special Exception for the T-Mobile facility on September 14, 1999. The facility came under Council jurisdiction with AT&T's application to co-locate in EM-AT&T-132-020701, which was approved on August 1, 2002

The Governors Street facility consists of a 175-foot monopole within a roughly 45' x 50' notched rectangular compound surrounded by a 6-ft high chain link fence. T-Mobile operates its own antennas and telecommunications equipment at the site, and it has also leased tower and ground space to AT&T. T-Mobile has panel antennas at the top of the monopole and equipment cabinets mounted on a raised metal platform. AT&T operates antennas at the 152' level of the tower and has its equipment on a concrete pad.

As shown on the attached drawings and as further described below, SBMS proposes to install up to twelve CSS DUO4-8670 panel antennas, approximately 48 inches in height, with the center of radiation approximately 162 feet above ground level. Associated equipment to be installed on the tower are up to six ADC Co. dual-band tower top amplifiers ("TTA's"; small metal boxes approximately 26 pounds apiece) immediately behind the antennas, and up to three very small (5 pounds apiece) CSS dual-band "combiners." SBMS also proposes to install a 12' x 20' equipment building at grade beside the tower. All work will be done inside the existing fenced compound.

With the GSM-only configuration, SBMS will broadcast up to:

- 2 channels, 296 Watts ERP, 880 – 894 MHz; and
- 2 channels, 427 Watts ERP, 1930 – 1935 MHz.

Statutory Considerations

The changes to the South Windsor 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 on property leased by T-Mobile and within the existing fenced compound.

3. The proposed additions will not increase the noise level at the existing facility by six decibels or more.

4. Operation of the additional antennas will not increase the total radio frequency electromagnetic radiation power density, measured at the tower base, to or above the standard adopted by the State of Connecticut and the FCC. The "worst-case" exposure calculation in accordance with FCC OET Bulletin No. 65 (1997) for a point of interest at the base of the tower in relation to the operation of the currently proposed antenna array is as follows:

Company	Centerline Height (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density [†] (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
T-Mobile *	172	1930 - 1945	12	250	0.0365	1.0000	3.65
Cingular GSM	162	880 - 894	2	296	0.0081	0.5867	1.38
Cingular GSM	162	1930 - 1935	2	427	0.0117	1.0000	1.17
AT&T *	152	D: 1945 E: 1985	12	250	0.0467	1.0000	4.67
Total							10.9%

* Power density parameters taken from AT&T's application to the Council in EM-AT&T-132-020701.

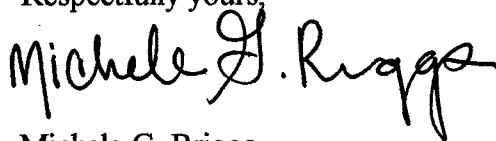
† Please note that the standard power density equation provided by the Council in its memo of January 22, 2001 incorporates a ground reflection factor of 2.56 (i.e., the square of 1.6) as described in FCC OET Bulletin No. 65.

As the table demonstrates, the cumulative "worst-case" exposure would be approximately 10.9 % of the ANSI/IEEE standard, as calculated for mixed frequency sites. Total power density levels resulting from SBMS' use of the tower facility would thus be within applicable standards.

For the foregoing reasons, SBMS respectfully submits that proposed changes to implement expanded shared use at the South Windsor site constitute an exempt modification under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7700 with questions concerning this application. Thank you for your consideration in this matter.

Respectfully yours,



Michele G. Briggs
Manager of Real Estate

Enclosures

cc: Matthew B. Galligan, Town Manager, Town of South Windsor



Rebecca Smiley
Site Marketing Coordinator

July 17, 2003

RE: Letter of Authorization – Collocation on T-Mobile tower.

Property address: 300 Governors Highway, South Windsor, CT 06074

To Whom It May Concern:

Southwestern Bell Mobile Systems, LLC, a part of the Cingular Wireless System ("Cingular") is currently in negotiations with Omnipoint Communications, Inc, a subsidiary of T-Mobile USA, Inc ("T-Mobile"), to co-locate its communications equipment on the T-Mobile tower located at 300 Governors Highway, South Windsor, CT 06074.

Cingular shall be required by the terms of the agreement to seek and obtain all necessary local permits and approvals. As a duly authorized representative of T-Mobile, permission is hereby granted to Cingular, and agents thereof, for the purpose of consummating any applications necessary to gain the required approvals from the Town of South Windsor and/or the State of Connecticut.

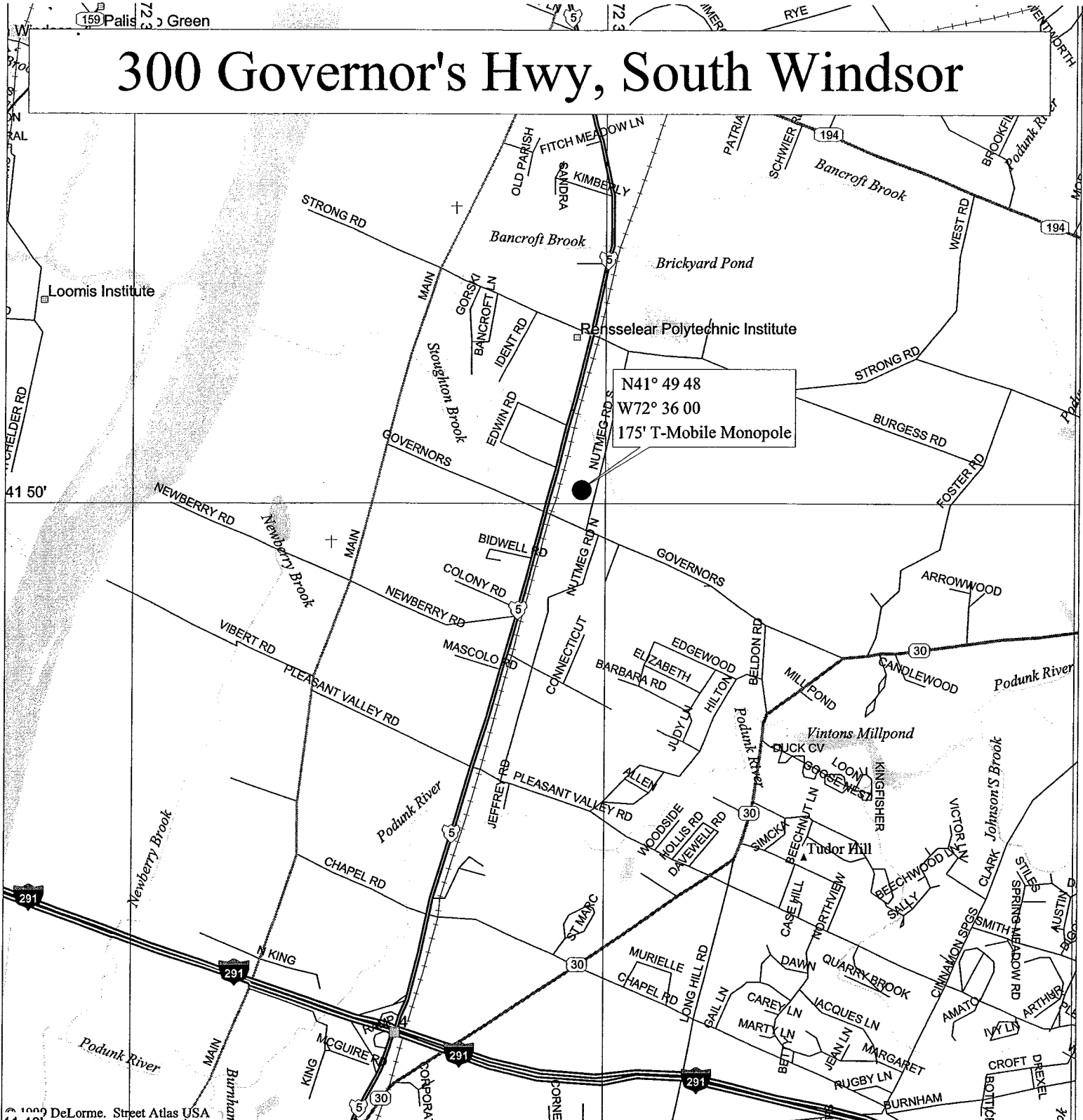
Any fees or charges associated with all applications or permits and any conditions placed on the applicant shall be the sole responsibility of Cingular.

Yours truly,

A handwritten signature in cursive script that reads "Rebecca Smiley".

Rebecca Smiley
Co-Location Specialist, Northeast
T-Mobile USA, Inc.
(973) 898-8588

300 Governor's Hwy, South Windsor



Mag 14.00
 Thu Jul 17 14:48 2003
 Scale 1:31,250 (at center)
 2000 Feet
 1000 Meters

- Local Road
- Primary State Route
- US Highway
- Interstate/Limited Access
- Major Connector
- State Route
- Exit
- Railroad
- Point of Interest
- Summit
- Cemetery
- Land
- Water
- River/Canal



1
L-2

PROPOSED SEDIMENTATION CONTROL BARRIER

PROPOSED 11'-6"x20'-0"
CINGULAR WIRELESS
EQUIPMENT BUILDING ON
CONCRETE PIERS

PROPOSED CINGULAR
WIRELESS ICE BRIDGE

EXISTING RAISED METAL PLATFORM
WITH HANDRAILS

EXISTING STEEL
MONOPOLE

EXISTING AT&T ICE
BRIDGE

EXISTING AT&T
EQUIPMENT ON
CONCRETE PAD

EXISTING STAIRS

PROPOSED
CINGULAR WIRELESS
ANTENNAS, AMPLIFIERS AND
LOW PROFILE PLATFORM

EXISTING T-MOBILE
ICE BRIDGE

EXISTING T-MOBILE
EQUIPMENT ON METAL
PLATFORM

EXISTING AT&T
UTILITY RACK

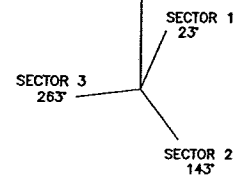
EXISTING
TRANSFORMER

EXISTING
TELEPHONE
MANHOLE

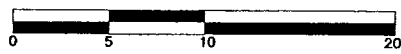
EXISTING ELECTRIC AND
TELCO BACKBOARD

EXISTING CHAIN
LINK FENCE

EXISTING DOUBLE
LEAF GATE



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



ANTENNA ORIENTATION KEY

PROJECT NO.
36917560
Designed by:
Drawn by: BAL
Checked by:
Approved by:

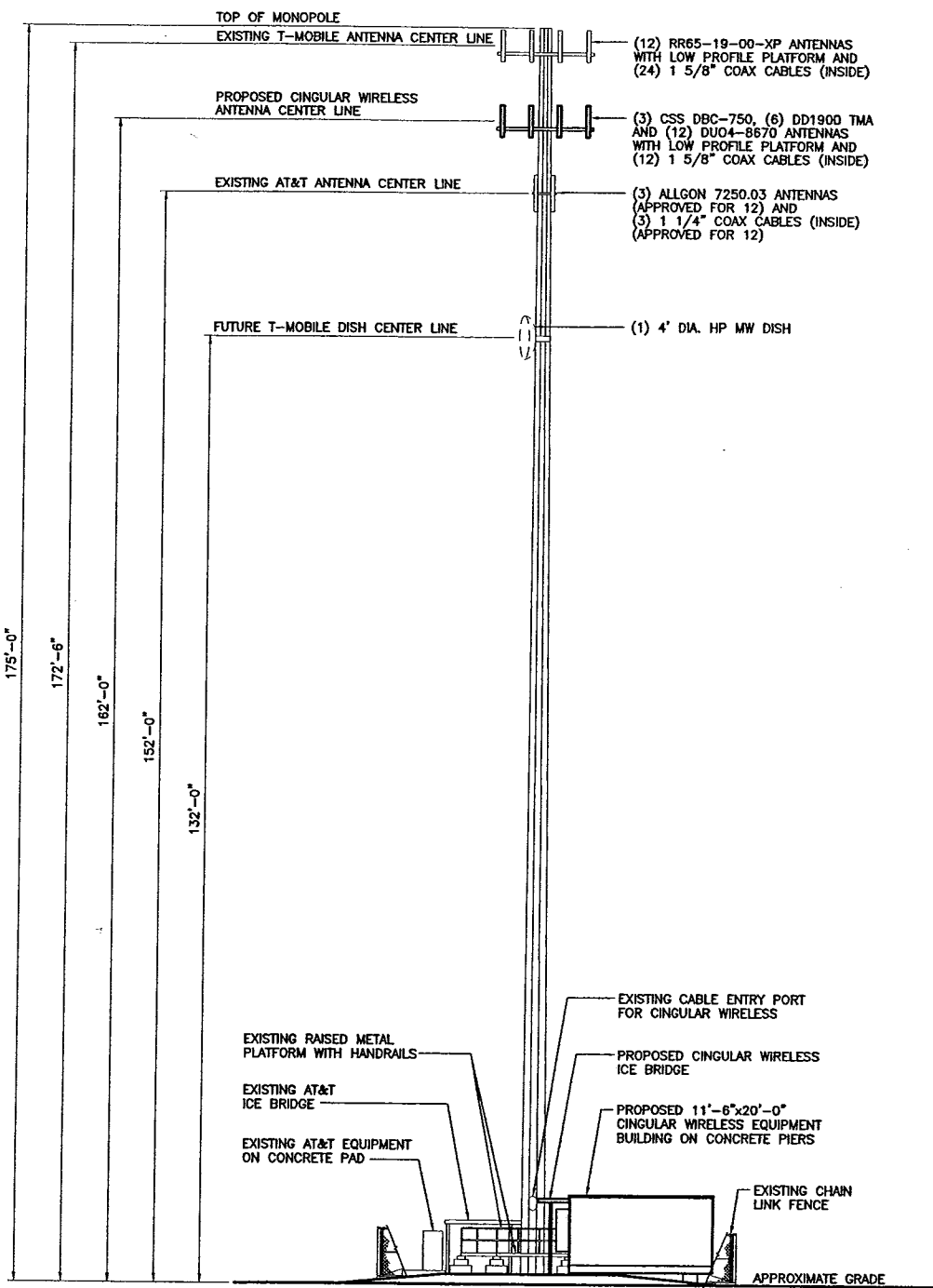
URS CORPORATION AES
795 BROOK STREET, BLDG 5
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

cingular
WIRELESS
WIRELESS COMMUNICATIONS FACILITY
300 GOVERNORS STREET
SOUTH WINDSOR, CONNECTICUT
T-MOBILE SITE NO. CT11279D

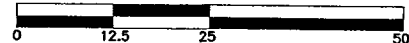
REV.	DATE	DESCRIPTION

Scale: AS NOTED Date: 07-10-03
Job No. CW1-009 File No. L-1

Dwg. No.
L-1
Dwg. 1 of 2



1 TOWER ELEVATION
L-2 SCALE: 1"=25'-0"



PROJECT NO.
36917560
Designed by:
Drawn by: BAL
Checked by:
Approved by:

URS CORPORATION AES
795 BROOK STREET, BLDG 5
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

X cingular
WIRELESS
WIRELESS COMMUNICATIONS FACILITY
300 GOVERNORS STREET
SOUTH WINDSOR, CONNECTICUT
T-MOBILE SITE NO. CT11279D

REV.	DATE	DESCRIPTION

Scale: AS NOTED Date: 07-10-03
Job No. CW1-009 File No. L-2

Dwg. No.
L-2
Dwg. 2 of 2

1047 N. 204th Avenue
Elkhorn, NE 68022
Ph: 402-289-1888
Fax: 402-289-1861

SEMAAN ENGINEERING SOLUTIONS

175 ft EEI Monopole
Structural Analysis

Prepared for:
T-Mobile USA
12920 SE 38th Street
Bellevue, WA 98006

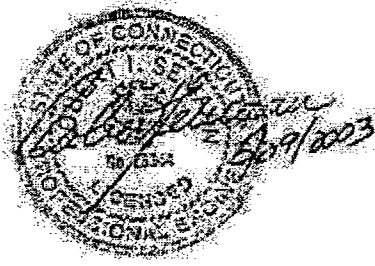


Site Marketing Department

Approved *P. Flanagan* 6/3/03

Denied _____

Site: CT11279D / South Windsor / Cingular
South Windsor, CT



May 28, 2003

Mr. Joseph Laurenzano
T-Mobile USA
12820 SE 38th Street
Bellevue, WA 98006

Re: Site Number CT11279D - South Windsor - Cingular South Windsor, CT.

Dear Mr. Laurenzano:

We have completed the structural analysis for the existing monopole located at the above referenced site. The purpose of this analysis is to determine that the existing monopole design is in conformance with the EIA/TIA-222-F standard for the proposed antennae loads installation. Refer to the Review and Recommendations section at the end of this report for the analysis results.

Description of Structure:

The structure is a 169 ft EEI Monopole mounted on a 4 ft steel frame.

Refer to EEI drawing job #99-1371 Rev. 1 dated January 31, 2000 for a detailed description of the structure.

Method of analysis:

The tower was analyzed using Semaan Engineering Solutions' software suite for communication structures. The structural analysis is performed using the SAPS finite element engine. The method is 3D, non-linear, which accounts for the second order geometric effects due to the displacements. It also treats guys as exact cable elements and therefore is ideal for guyed towers. The analysis was performed in conformance with EIA/TIA-222-F for a basic wind speed of 80 mph and 1/2" radial ice with reduced wind speed. Wind is applied to the structure, accessories and antennas.

Structure loading:

Per the loading sheet supplied, the analysis was performed using the following loading: (Proposed loading in bold)

Elev. (ft)	Qty.	Antennas and Mounts	Coax	Owner
172.5	12	RR65-19-00XP w/Artech LNA's Mounted On a EEI Low Profile platform	(24) 1-5/8 (Inside)	T-Mobile
162.0	3	CSS DBC-750 Mounted On a Low Profile platform		Cingular
162.0	6	DD1900 TMA Mounted On Same Low Profile platform		Cingular
162.0	12	DUO4-8670 Mounted On Same Low Profile platform	(12) 1-5/8 (Inside)	Cingular
152.0	12	Algon 7250.03 Mounted On a Low Profile platform	(12) 1-3/4 (Inside)	AT&T
132.0	1	HP MW Dish, 4 Dia.	(1) 1-5/8 (Inside)	T-Mobile

All new access holes shall be reinforced with welded rims that are compatible with the pole and to be sized and supplied by pole manufacturer.

All transmission lines are assumed running inside of pole shaft.

T-Mobile
 Site Marketing Department
PB Flanagan 4/3/03

Results of Analysis:

Refer to the attached Computer Summary sheets for details.

Approved results

Structure:

Denied

The existing pole shaft is slightly overstressed at elevation 30 ft by 5.0%. This amount of overstress is considered acceptable. Therefore, the existing monopole is structurally capable of supporting the proposed antennas. The maximum structure usage is: 105.0%.

Foundation:

Pole Reactions	Original Design Reactions	Current Analysis Reactions	% Of Design
Moment (ft-lbs)	2,577.60	2,673.65	103.7
Shear (lbs)	20.00	20.93	104.7

The reactions calculated from the analysis slightly exceed the ones indicated on the original structural design. However, the excess amount is within acceptable engineering tolerances.

Review and Recommendations:

Based on the analysis results, the existing structure meets the requirements per the EIA/TIA-222-F standards for a basic wind speed of 30 mph and 1/2" radial ice with reduced wind speed.



Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7700
Fax: (860) 513-7190

Michele G. Briggs
Manager of Real Estate

July 28, 2003

Matthew B. Galligan, Town Manager
Town Hall, 1540 Sullivan Ave.
South Windsor, Connecticut 06074

**Re: Notice of Exempt Modification – Existing T-Mobile Telecommunications Tower Facility at
Governors Street, South Windsor, Connecticut**

Dear Mr. Galligan:

Southwestern Bell Mobile Systems, LLC (“SBMS”) intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower at Governors Street in South Windsor, Connecticut.

The facility is owned and operated by T-Mobile USA (“T-Mobile”), with offices at 4 Sylvan Way, Parsippany, New Jersey 07054. T-Mobile leases the land from Electron Technologies Corporation of South Windsor.

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 South Windsor 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 SBMS 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 the undersigned or Mr. Derek Phelps, Executive Director of the Connecticut Siting Council, at (860) 827-2935.

Sincerely,

Michele G. Briggs
Manager of Real Estate

Enclosure

ORIGIN ID:BEDA (339) 205-7017
AMANDA GOODALL
CROWN CASTLE
12 GILL STREET

WOBURN, MA 01801
UNITED STATES US

SHIP DATE: 08MAR17
ACTWGT: 1.00 LB
CAD: 104924191/INET3850

BILL SENDER

TO **PLANNING & ZONING**
TOWN OF SOUTH WINDSOR
1540 SULLIVAN AVENUE

SOUTH WINDSOR CT 06074

(781) 960-0067

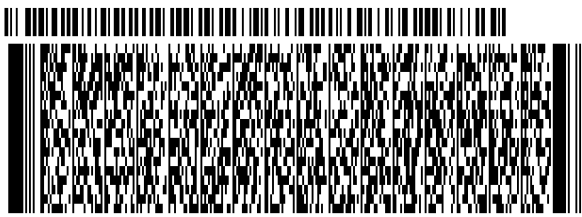
REF: 17666680

INV:

PO:

DEPT:

546J31/ADB63C1



JT1117021401ur

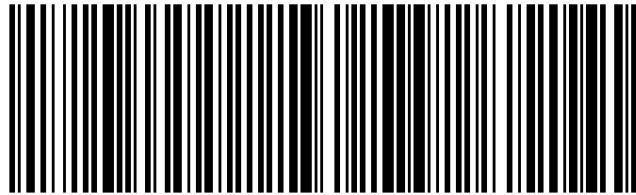
THU - 09 MAR 3:00P
STANDARD OVERNIGHT

TRK#
0201

7786 0169 2018

EB QCWA

06074
CT-US **BDL**



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

From: Cornwall, Amanda [mailto:Amanda.Cornwall@crowncastle.com]
Sent: Monday, March 06, 2017 9:52 AM
To: CSC-DL Siting Council
Subject: RE: em-sSPRINT-132-170224-IncompleteLtr_GovernorsHighway_SouthWindsor

Good morning,

After a discussion with Ms. Michelle Lipe, Director of Planning this morning, she was able to forward me a copy of the original zoning approval for the tower. I have attached a copy of the document to the email. Please advise if you would like a hard copy of the document as well. Thank you for your time.

Best regards,

AMANDA CORNWALL
Real Estate Specialist
T: (339) 205-7017 | M: (978) 790-8547 | F: (724) 416-4185
Amanda.Cornwall@crowncastle.com

CROWN CASTLE
12 Gill Street, Suite 5800, Woburn, MA 01801
CrownCastle.com

From: Cornwall, Amanda
Sent: Friday, March 03, 2017 2:37 PM
To: 'CSC-DL Siting Council' <Siting.Council@ct.gov>
Subject: em-sSPRINT-132-170224-IncompleteLtr_GovernorsHighway_SouthWindsor

Good afternoon,

Attached please find per you letter, a copy of the letter that was sent to the Director of Planning for the Town of South Windsor and a copy of the tracking information for the second attempt at notifying the Director. Please advise as to whether the Connecticut Siting Council would like a hard copy of the tracking information.

Thank you,

AMANDA CORNWALL
Real Estate Specialist
T: (339) 205-7017 | M: (978) 790-8547 | F: (724) 416-4185
Amanda.Cornwall@crowncastle.com

CROWN CASTLE
12 Gill Street, Suite 5800, Woburn, MA 01801
CrownCastle.com

This email may contain confidential or privileged material. Use or disclosure of it by anyone other than the recipient is unauthorized. If you are not an intended recipient, please delete this email.

TOWN OF SOUTH WINDSOR
PLANNING & ZONING COMMISSION
APPLICATION FORM



Application No: 99-51P
Official Receipt Date: _____
Receipt No: _____

APPLICANT: Tom Gilligan, For Omnipoint Communications, Inc
PROJECT NAME: PROPOSED MONOPOLY WIRELESS COMMUNICATIONS
ADDRESS: 300 GOVERNOR'S HIGHWAY
OWNER OF RECORD ON LAND RECORDS: ELECTRON TECHNOLOGIES CORPORATION
ADDRESS: 300 GOVERNOR'S HIGHWAY
COMPLETE LOCATION OF PROPERTY: NORTH SIDE OF GOVERNOR'S HIGHWAY APPROX 700' WEST OF NUTMEG RD.
ASSESSOR'S MAP # 71 PARCEL # 22 ZONE I

NAME, ADDRESS, TEL & FAX # OF PERSON TO WHOM INQUIRIES SHOULD BE DIRECTED:
Tom Gilligan % Omnipoint Communications, Inc. 100 Filley Street
Boonfield, CT 06002 TEL - 692-7132 FAX 697-7159

THIS APPLICATION IS FOR: (Check all that apply):

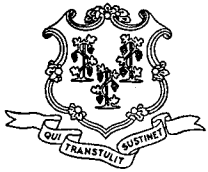
- Zone Change to _____ (Public Hearing required and Certified letter to abutters required)
- Subdivision/Resubdivision Open Space Subdivision (Public Hearing Required)
- Subdivision Minor Major
- Resubdivision (Public Hearing Required) Minor Major
- Conditional Approval
- Special Exception to Article XVI (Public Hearing, Certified letter to abutters required)
- Site Plan of Development
- General Plan of Development
- Earth Filling (Sec. 15) and/or Earth Removal (Sec. 14 - Public Hearing required)
- Regulation Amendment: Zoning Subdivision (Attach proposed amendment)
- Temporary and Conditional Permit for _____
- Major Home Occupation for _____
- Other (explain in detail) _____

An Application Pending sign is required to be posted on the property for all applications ten (10) days prior to being heard by the Commission.

Tom Gilligan, For Omnipoint
Signature of Applicant

SEE ATTACHED LEASE AGREEMENT
Signature of Property Owner

(See reverse side for additional information)



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@po.state.ct.us
Web Site: www.state.ct.us/csc/index.htm

RECEIVED

SEP 04 2003

August 27, 2003

SOUTH WINDSOR PLANNING DEPT.

Michele G. Briggs
Manager of Real Estate
Cingular Wireless
500 Enterprise Drive, 3rd Floor
Rocky Hill, CT 06067

RE: **EM-CING-132-030728** - Southwestern Bell Mobile Systems, LLC notice of intent to modify an existing telecommunications facility located at 300 Governors Street, South Windsor, Connecticut.

Dear Ms. Briggs:

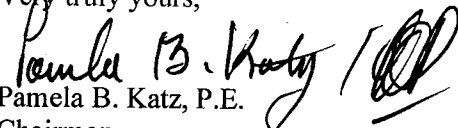
At a public meeting held on August 26, 2003, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated July 28, 2003. 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. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,


Pamela B. Katz, P.E.
Chairman

PBK/laf

c: Honorable William Aman, Mayor, Town of South Windsor
Marcia Banach, Director of Planning Town of South Windsor
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae
Christopher B. Fisher, Esq., Cuddy & Feder LP

CT-11-279A

TOWN OF SOUTH WINDSOR CHECKLIST REQUIRED INFORMATION SITE PLANS

APPLICANT OMNIPONT COMMUNICATIONS INC.

PROJECT NAME SOUTH WINDSOR

This checklist must be signed by plan preparer (P.E./L.S.) declaring that all required information is provided. Items 1-7 are required for all applications; items 8-11 required where appropriate.

Check mark for each item supplied.

- 1. On each sheet for plans or maps, title block with the following information:
 - a. Name, address and telephone of applicant.
 - b. Name, address and telephone number of Land Surveyor or Professional Engineer.
 - c. Name of Development.
 - d. Date when drawings were made.
- 2. Key Map: An overall map drawn to a scale of 1 inch equals either 100 feet or 200 feet. This map will show the overall design of the Development and surrounding property within 500 feet.
 - a. Data block which gives needed zoning information such as percentage of lot coverage, acreage of tract, number of apartment units, parking requirements, etc.
 - b. Outline of buildings.
 - c. Layout of streets.
 - d. Surrounding property boundaries-within 500 feet.
 - e. Names of abutting property owners.
 - f. Proposed open spaces and recreation areas.
 - g. Driveway cuts on abutting properties and any properties across from proposed site.
 - h. Distance to and name of nearest intersection street.

✓

N/A

N/A

N/A

W

N/A

N/A

N/A

N/A

✓

N/A

N/A

N/A

N/A

N/A

f. Existing and proposed contours shall be shown in not less than two-foot intervals, but in cases of relatively level land, the contours shall be one-foot intervals and spot elevations.

g. Regulated wetlands and 100-year floodplain or note that none are present.

h. Proposed storm drainage system, showing all catch basins, endwalls, manholes, lengths and sizes of pipes and elevations of structures. (Maximum distance between catch basins shall be 300 feet and minimum size of storm drain lines shall be 15 inches, within Town ROW.) If plan/profile sheet is provided all of this does not need to be shown. Only top of frame elevations and inverts of open discharge pipe shall be shown on this plan.

i. Connections of all springs into proposed storm drainage system as needed.

j. Location and indications of existing brook channels, and 100-year flood limits.

k. A-2 & T-2 Certification; P.E./L.S. seals and signatures.

6. Landscaping plan:

7. Drainage calculations: - Zero Runoff Increase per attached guidelines.

8. Traffic Report:

9. Plans and Profiles: A plan and profile of the proposed streets drawn on plan/profile paper of scales 1 inch to 40 feet horizontally, and 1 inch to 4 feet vertically on sheets not exceeding 24 inches by 36 inches, including ruled margins and containing the following:

a. Layout of streets in sections coordinated by stations with the profile.

b. Street plan showing roadways, drainage, sanitary sewer (including house sewer), foundation drains, lot lines, buildings including all utilities with elevations (top frame and inverts), size, type, length, slopes of pipes.

c. Sight line at driveway & street intersections.

d. Profile of roadway showing existing and finished grades. Roadway profile will show all tangent grade and all vertical curve information.

e. Profile will show all catch basins and all drainage lines between catch basins with all invert and top of frame elevations, sizes, lengths and slopes of pipes.

N/A

f. Where any storm drainage line discharges into an existing brook sufficient profile of this brook will be shown to determine conditions.

N/A

g. CGS datum shall be used on all sites accessible to these controls. The Town Engineer shall, based on standard engineering practices, determine the accessibility of these controls.

N/A

h. Profiles shall show all sanitary sewer lines and manholes, including elevations, inverts, top of frame, sizes, lengths, and slopes of pipes. Top of foundation elevations for building shall be shown.

N/A

10. Open Space Site Improvement Plans: For sites which require or include a provision for open spaces, a plan which contains data for site improvement may be required. This map shall be drawn to a scale of 1 inch equals 40 feet.

N/A

11. Sanitary Report: Where individual sanitary sewage disposal systems are proposed, the final plans shall include a Sanitary Report certified by a Professional Engineer. The report shall demonstrate the feasibility of the proposed individual systems.



PLAN PREPARER (P.E./L.S.)
ALEXANDER J. LAPOTKA
June 23, 1998 PE 18244

7-13-99

DATE

300 Governors Highway Abutting Property Owners

<u>Map</u>	<u>Lot</u>	<u>Mailing Address</u>
59	3	The May Department Store 611 Olive Street Suite 1350 ST. Louis, MO 63101 RE: 300 Governor's Highway
60	1	Gladys & Albert Schneider Co. 330 Governors Highway S. Windsor, CT 06074
71	18	Edwin Road Properties, Inc. 1013 McDermott Road Mataire, LA 70001 Re: 1043 John Fitch Boulevard
71	21	National Cigar Corporation P.O. Box 97 Frankfort, IN 46041 RE: 1049 John Fitch Boulevard
71	23	Fleet Bank National Association One Corporate Center 20 Church Street Hartford, CT 06103 RE: 1033 John Fitch Boulevard
72	11	S. Sea Company, Inc. 330 Main Street Hartford, CT 06016 RE: 519 Nutmeg RD.
72	12	Nutmeg Road North Realty, LLC 28-40 31 st Street Long Island City, NY 11102 RE: 555 Nutmeg RD.



United States of America
Federal Communications Commission

RADIO STATION AUTHORIZATION
Commercial Mobile Radio Services
Personal Communications Service - Broadband

Omnipoint Communications, Inc.
7150 Campus Spring Drive
#155
Colorado Springs, Colorado 80920

Call Sign: **KNLF202**
Market: **M1**
New York
Frequency Block: **A**
File Number: **15002-CW-L-94**

The licensee hereof is authorized, for the period indicated, to construct and operate radio transmitting facilities in accordance with the terms and conditions hereinafter described. This authorization is subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts of Congress, international treaties and agreements to which the United States is a signatory, and all pertinent rules and regulations of the Federal Communications Commission, contained in Title 47 of the U.S. Code of Federal Regulations.

Initial Grant Date December 13, 1994
Five-year Build Out Date December 13, 1999
License Expiration Date December 13, 2004

CONDITIONS:

Pursuant to Section 309(h) of the Communications Act of 1934, as amended, (47 U.S.C. § 309(h)), this license is subject to the following conditions: This license does not vest in the licensee any right to operate a station nor any right in the use of frequencies beyond the term thereof nor in any other manner than authorized herein. Neither this license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended (47 U.S.C. §§ 151, et seq.). This license is subject in terms to the right of use or control conferred by Section 706 of the Communications Act of 1934, as amended (47 U.S.C. § 606).

This authorization requires that Omnipoint Communications, Inc. shall construct a 30 Mhz broadband Personal Communications Services system on Frequency Block A (1850-1865MHz/1930-1945MHz) in the New York MTA that substantially uses the design and technology upon which the pioneer's preference award to Omnipoint Communications, Inc. was based. This condition expires upon meeting the five-year build-out requirement in 47 C.F.R. §24.203(a).

This authorization requires that Omnipoint Communications, Inc. shall retain control of the license for at least three years from the initial license grant date or until the grantee has met the five-year build-out requirement of 47 C.F.R. § 24.203(a).

STANDARD LEASE AGREEMENT

Site Number: CT11279A

This Standard Lease Agreement ("Agreement") is entered into this 23 day of March, 1999, between OMNIPOINT COMMUNICATIONS INC., a Delaware corporation, having a principal place of business at 360 Newark-Pompton Turnpike, Wayne, NJ 07470-6641 ("Lessee") and ELECTRON TECHNOLOGIES CORPORATION, a Connecticut corporation, having a principal place of business at 300 Governors Highway, South Windsor, CT 06074 ("Lessor").

Whereas, Lessor is the owner of property having a street address of 300 Governors Highway, located in the Town of South Windsor, County of Hartford, State of Connecticut, and hereafter referred to as the "Property".

Lessor agrees to lease to Lessee a 50ft. X 50ft. (2500 sq. ft.) area of land to house a radio equipment cabinet and space for a monopole tower and associated antenna, more fully described on Exhibit A and hereafter referred to as the "Premises".

1. Use of Premises

(a) Lessee agrees to use the Premises for the installation, operation and maintenance of Personal Communications Service related equipment ("PCS") and associated antenna ("Installation"). All of Lessee's equipment or other property attached to or otherwise brought onto the Premises shall at all times remain personal property and are not considered fixtures, and at Lessee's option may be removed by Lessee at any time during the term hereof or any renewal terms. Upon expiration or termination of this Agreement, Lessee agrees to repair any damage to the Premises caused by Lessee during the term of the Agreement, ordinary wear and tear and damage from the elements excepted. In connection therewith, Lessee shall, at its sole cost and expense, obtain electrical and telephone service from the servicing utility company, including the installation of a separate meter and main breaker, where required. Lessee shall be responsible for the electricity it consumes for its operations at the normal rate charged by the servicing utility company. Lessee and Lessor agree that if an easement is required to obtain electrical power, an acceptable location will be agreed to by Lessor and the servicing utility company.

(b) Lessee shall have the right to use reasonable and appropriate measures to install its equipment, including running transmission lines from the equipment area to the antenna. Installation shall be Monday through Friday from 8:00 am to 5:00 p.m. with reasonable notice to Lessor. Said installation shall be in compliance with all applicable laws and regulations, subject to other provisions of this Agreement. Lessee shall have the right to replace or modify the equipment installation, subject to Lessor's approval. Lessee agrees to perform the installation of the equipment and all improvements thereto in a good and workmanlike manner and shall not disturb any tenants peaceful use and enjoyment of the premises. Lessor agrees to cooperate with Lessee, at Lessee's expense, in making application for and obtaining any local, state and federal licenses, permits and any other approvals which may be required to allow Lessee use of the Premises. Lessee shall employ due diligence to obtain said approvals within a timely manner. If, however, Lessee is denied a required approval, or is unable to obtain approvals thus making the Premises unsuitable and renders Lessee unable to utilize the Premises, Lessee shall have the exclusive right to terminate this Agreement within its sole discretion, and no further liabilities under this Agreement shall remain in force or effect, including but not limited to the payment of rent.

(c) Lessor agrees to provide unlimited access to the external portion of the property. Lessor will grant access to the utility closet to Omnipoint employees, subcontractors or agents with proper identification Monday to Friday from 8 am to 5 p.m. with reasonable notice. Lessor acknowledges that Lessee has such access which shall remain unimpeded throughout the initial term and any renewal term of this Agreement. Lessor shall have the responsibility to inform all respective parties of Lessee's requirement for access to the Premises. Should Lessee's access to the Premises be denied, resulting in Lessee's inability to install or maintain its PCS installation, then in that instance, Lessee shall be entitled to a rent abatement until such time as Lessor can resolve the access situation. If access cannot be resolved, Lessee shall have the right to terminate without obligation including but not limited to Lessee's obligation to pay rent. Further Lessor shall be required within fifteen (15) days from the date of termination to reimburse Lessee for any rent monies previously paid to Lessor, including if applicable, any security deposit monies.

in accordance with any security documents granted in favor of Lender, provided, however, that Lender shall promptly repair, at Lender's expense, any physical damage to the Property directly caused by said removal.

13. Indemnity.

Lessee shall defend, indemnify and hold Lessor harmless from and against any and all claims, actions, losses, damages, costs and expenses, including, but not limited to, reasonable attorney's fees arising out of or in connections with (or claimed to arise out of or in connection with) any negligent acts or omissions directly relating to the installation, operation, maintenance or removal of Lessee's equipment and installations on the Premises pursuant to this agreement, except to the extent arising from Lessor's negligence or willful misconduct, provided Lessor shall have given Lessee prompt written notice of any event giving rise to an obligation to indemnify Lessor and shall have granted Lessee the right to defend and settle any such claims.

14. Notices

Unless otherwise provided herein, any notice or demand required to be given herein shall be given by certified or registered mail, return receipt requested or reliable overnight courier to the address of Lessee and Lessor as set forth below:

Lessor:

Electron Technologies Corporation
P.O. Box 316, 300 Governors Highway
South Windsor, CT 06074

Lessee:

Omnipoint Communications Inc.
360 Newark-Pompton Turnpike
Wayne, NJ 07470-6641

With copies to:

Senior Director
Legal & Regulatory Affairs
Omnipoint Communications Services, LLC
16 Wing Drive
Cedar Knolls, NJ 07927

And

General Manager
New York Region
Omnipoint Communications Services, LLC
11 High Point Drive
Wayne, NJ 07470

Lessee and Lessor may designate a change of notice address by giving written notice to the other party.

15. Lease Provisions

- (a) This Agreement shall be governed by the laws of the State of Connecticut.
- (b) All Riders and Exhibits attached hereto are made a material part of this Agreement.

(c) If any provision of this Agreement is deemed invalid or nonenforceable, the remainder of this Agreement shall remain in force and to the fullest extent as permitted by law.

(d) No amendment or modification to any provision of this Agreement shall be valid unless made in writing and agreed to and signed by the appropriate parties who have attested and executed this Agreement.

(e) Lease is contingent on Lessor's approval of construction drawings.

In Witness Whereof, the parties have executed this Agreement as of the date first above written.

LESSOR

ELECTRON TECHNOLOGIES
CORPORATION,
A Connecticut Corporation

By:



Name: Richard Plank

Title: President and CEO

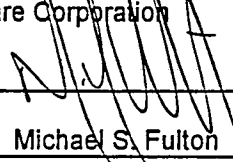
Date: 3/23/99

Tax ID No.: 06-1084062

LESSEE

OMNIPOINT COMMUNICATIONS INC.,
a Delaware Corporation

By:



Name: Michael S. Fulton

Title: Technical Director

Date: MAR 30 1999

Worst Case Power Density for installation on Omnipoint Monopole @ 300 Governor's Highway, South Windsor, CT

Region 11 - Connecticut			
Power Density Calculation - Worst Case			
Base Station TX output	20 W	43.01	
Number of channels	2		
Antenna Model	EMS: RR-65-18/ RV-65-18 ▼		
Antenna Gain	17.5 dBi		
Cable Size	1 5/8" ▼		
Cable Length	190 ft		
Jumper & Connector loss	1 dB		
Cable Loss per foot	0.0116		
Total Cable Loss	2.204 dB		
Total Attenuation	3.204 dB		
Total EIRP per channel	57.31 dB	537.81	W
Total EIRP per sector	60.32 dB	1075.62	W
Ground Reflection	1.6		
Frequency	1930 MHz		
Antenna Height	172.667 ft	5262.89016	cm
nsg	14.296		
Power Density (S) = 0.007915 mW / cm²			
% MPE = 0.7915%			

Equation Used :

$$S = \frac{(1000)(grf)^2 (Power) * 10^{(nsg/10)}}{4\pi (R)^2}$$

Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997

Technical Memo

To: Thomas Gilligan
From: Michael Walker (Radio Engineering Consultant)
cc: Mike Fulton
Subject: Power Density Report for CT11279A
Date: 7/7/99

1. Introduction:

This report is the result of an Electromagnetic Field Intensities (EMF - Power Densities) study for the proposed OMNIPOINT Communications Inc. PCS antenna installation on Omnipoint Monopole at 300 Governor's Highway, South Windsor, CT. This study incorporates the most conservative considerations for determining the practical combined worst case power density levels that would be theoretically encountered from several locations surrounding the transmitting location.

2. Discussion:

The following assumptions were used in the calculations:

- 1) The emissions from the OCI transmitters are in the 1930-1950 MHZ frequency band.
- 2) The antenna cluster consists of three sectors, with 1 antenna per sector. The model number for each antenna is EMS RR651802DP(2) and RR901702DP(1)
- 3) The antenna height is 172.667 feet Center Line.
- 4) The maximum transmit power from each sector is 1075.62 Watts Effective Isotropic Radiated Power (EiRP).
- 5) All the antennas are simultaneously transmitting and receiving, 24 hours a day.
- 6) Power levels emitting from the antennas are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 7) The average ground level of the studied area does not significantly change with respect to the transmitting location.

Equations given in "FCC OET Bulletin 65, Edition 97-01" were then used with the above information to perform the calculations.

3. Conclusion:

Based on the above worse case assumptions, the power density calculations from the proposed OMNIPOINT Communications Inc., PCS antenna installation are on the order of **1,000 to 10,000** times less than the FCC/ANSI/IEEE C95.1-1991 standard of 1000 microwatts per square centimeter ($\mu\text{w}/\text{cm}^2$). Details are shown in the attachment. Furthermore, the proposed antenna location for Omnipoint Communications at 300 Governor's Highway, South Windsor, will not interfere with existing public safety telecommunications, AM band and FM band radio broadcast, TV, Police Communication, HAM Radio communications and other signals in the area.



OMNIPOINT COMMUNICATIONS SERVICES
100 Filley Street, Bloomfield, CT 06002
Telephone: 860-692-7132 Fax: 860-692-7159

July 9, 1999

RECEIVED

JUL 9 1999

SOUTH WINDSOR PLANNING DEPT.

Planning and Zoning Commission
Town of South Windsor
1540 Sullivan Avenue
South Windsor, CT 06074

Re: CT-11-279A-Omnipoint Application for Special Exception - 300 Governor's Highway

Dear Commission Members:

This letter accompanies an application and supporting documentation for a special exception and site plan review permit to construct a 175 feet, multi-carrier, wireless telecommunications monopole at 300 Governor's Highway. Omnipoint will utilize this site for a PCS base station.

OMNIPOINT AND PCS

Omnipoint is committed to providing PCS services to the state of Connecticut. In 1995, Omnipoint was granted a license by the Federal Communications Commission to operate a PCS wireless phone system in this area, as well as numerous other markets across the United States. We currently have in excess of 200 sites under construction or on air in Connecticut.

PCS is one of the newest emerging low-power wireless technologies. PCS stands for Personal Communications Services and will truly allow businesses, individuals, and government services to communicate in an entirely new way. Although similar to traditional cellular systems, PCS will look, sound, and work better, with the added advantage of having the capability to provide fax service, paging, computer data, and video transmission in just one portable phone. PCS wireless is digital so it transmits with more clarity than the analog cellular systems. Also, PCS is secure. Omnipoint has chosen GSM technology to support their system. This technology has been in use in Europe for many years and has proven reliability. User verification systems eliminate cloning problems and encryption prevents calls from being overheard. These are just some of the features PCS can offer.

PROPOSED USE

Omnipoint is proposing to construct a 175 feet monopole to accommodate its PCS base station, as well installations of at least two additional wireless communications carriers, on the property owned by the Electron Technologies Corporation. This site is located in an industrial zone. Omnipoint will have directional antennas (approximately 56" tall x 8" wide x 2.75" deep) mounted on a platform at the top of the pole. The antennas will transmit and receive low power radio signals. One unmanned prefabricated equipment cabinet measuring approximately 63" high x 53" wide x 25" deep will be located on the ground at the base of the pole. This equipment cabinet is connected to the antennas by narrow cables. Omnipoint's

installation, and those of other carriers, will be built in a 50'x50' fenced compound. The location of the compound rests in the middle a wooded area on the site, several hundred feet from the street. It will be accessed by a ten feet wide gravel drive, which begins at the edge of the rear parking lot on the property. All cutting of vegetation will be held to a minimum in order to maintain natural screening. With the industrial zone classification of the property, the size of the property and the visual mitigation the existing vegetation will provide, this proposal ranks second (of six) in order of siting preference.

ZONING AND SPECIAL EXCEPTION REQUIREMENTS

As a condition of our FCC license, there are firm FCC mandates for technical and operational standards of a PCS system. The requirements for our license consist of a high level of voice quality and level of service that must be provided across the allotted coverage area. In order to accomplish this, antenna sites must be spaced in such a way that the signals overlap but do not interfere with each other.

For that reason, Omnipoint ensures that every site is carefully selected. The site that is chosen must provide coverage to its service area and be as compatible as possible with the community where it is placed. Specific zones and districts within each jurisdiction are assessed for their compatibility. Industrial and commercial areas are typically considered the most compatible, while residential lands are viewed as the least. Omnipoint prefers to locate on existing structures whenever possible. This may include rooftops, existing towers, or even billboards if they are of a sufficient height. However, the most important factor for siting a PCS base station is the ability to send and receive radio signals. It is essential that PCS antennas meet a "line-of-sight" transmission to the area being covered. The height required to accomplish this is determined largely by topography and other environmental obstructions, such as buildings and trees, which can block a radio signal. When there are no existing structures of a sufficient height to meet the needs of Omnipoint's system, a new tower must be constructed to support the antennas. When Omnipoint must construct a new tower, as in this application, every effort is made to locate sites within natural screening.

The proposed use will not impair the use and enjoyment of surrounding property nor impede its normal development. The use will require little maintenance (approximately four times a year) so it will not be distracting to surrounding property uses. No personnel will be stationed at the site. The equipment cabinet is not equipped with water or sewer facilities, nor is it large enough to house employees. The cabinets are intended only to enclose and protect the radios and electronics. The proposed use will have no impact on wetlands, watercourses, or other ecologically valuable lands. No signs will be posted on this facility except applicable warning or equipment information signs. The base station will not be lighted. Traffic will not increase due to the use and it will not create unsafe access on related streets. Additionally, there is no information which indicates that the construction of this site would diminish or impair property values within the area.

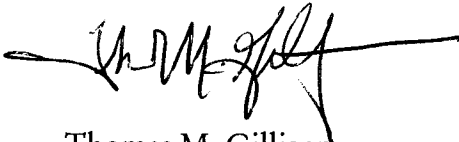
The proposed use will not be detrimental to the public health, safety, or welfare. PCS wireless uses low power to ensure that the signal stays within the designated coverage area and does not interfere with neighboring sites. An additional feature of this PCS facility is that no ionizing radiation is created by the radio transmissions. As the enclosed radio frequency

engineer report indicates, Omnipoint's installation will operate thousands of times below RF emission standards and will not interfere with other radio signals.

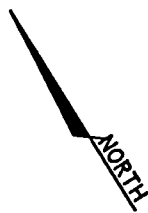
There are no activities associated with this use which would produce airborne emissions, odor, vibrations, heat, glare, radioactive materials, or loud noises. All equipment and materials needed to operate the site are located within the equipment cabinets, including heating, ventilating, and air conditioning provisions. Since this site does not have water or sanitary facilities, it will generate no waste water. Current levels of all government services are adequate to meet any needs of this use.

Omnipoint respectfully requests that the Town approve our application for this use. If you have any questions, please feel free to contact me on my direct line at (860) 692-7132.

Sincerely,

A handwritten signature in black ink, appearing to read 'Thomas M. Gilligan', with a long horizontal flourish extending to the right.

Thomas M. Gilligan
Zoning Specialist
Omnipoint Communications, Inc.



PROPOSED OCS 50' X 50'
CHAIN LINK COMPOUND

PROPOSED OCS
175'-0" MONOPOLE

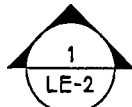
PROPOSED OCS BTS
EQUIPMENT CABINET
MOUNTED TO NEW
CONCRETE SLAB

EXISTING WOODED
AREA

PROPOSED
TELCO/ELECTRIC
PANELS

PROPOSED OCS 10'-0"
GRAVEL ACCESS ROAD

EXISTING GRASSED AREA



EXISTING BUILDING

EXISTING
RAILROAD

EXISTING PAVED
ASPHALT
DRIVEWAY

EXISTING PAVED
ASPHALT
PARKING
AREA

GOVERNOR'S HIGHWAY

1 SITE LAYOUT
LE-1 SCALE: NOT TO SCALE

NOTE: EXHIBITS SUBMITTED ARE A CONCEPTUAL REPRESENTATION OF THE LEASE AGREEMENT ONLY.
ACTUAL CONSTRUCTION DOCUMENTATION MAY VARY TO COMPLY WITH ALL APPLICABLE CODES.



670 North Beers Street, Building 2, Holmdel, NJ 07733
Tel: 732.739.3200 Fax: 732.739.0440

Drawing Title:
SITE LAYOUT

Client:
OCS

Project: **ELECTRON TECHNOLOGIES**
Address: **300 GOVERNOR'S HIGHWAY
SOUTH WINDSOR, CT**

Approved By:
PROJ. MGR: _____ DATE: _____
R.F. ENGR: _____ DATE: _____
SAC: _____ DATE: _____
OWNER: _____ DATE: _____

REV.#1 KK 5/18/99

Revision No. Date

Drawing No.

LE-1

Search Area: SOUTH WINDSOR/RT. 5
Site ID No: CT-11-279A

P.C.:
JDi

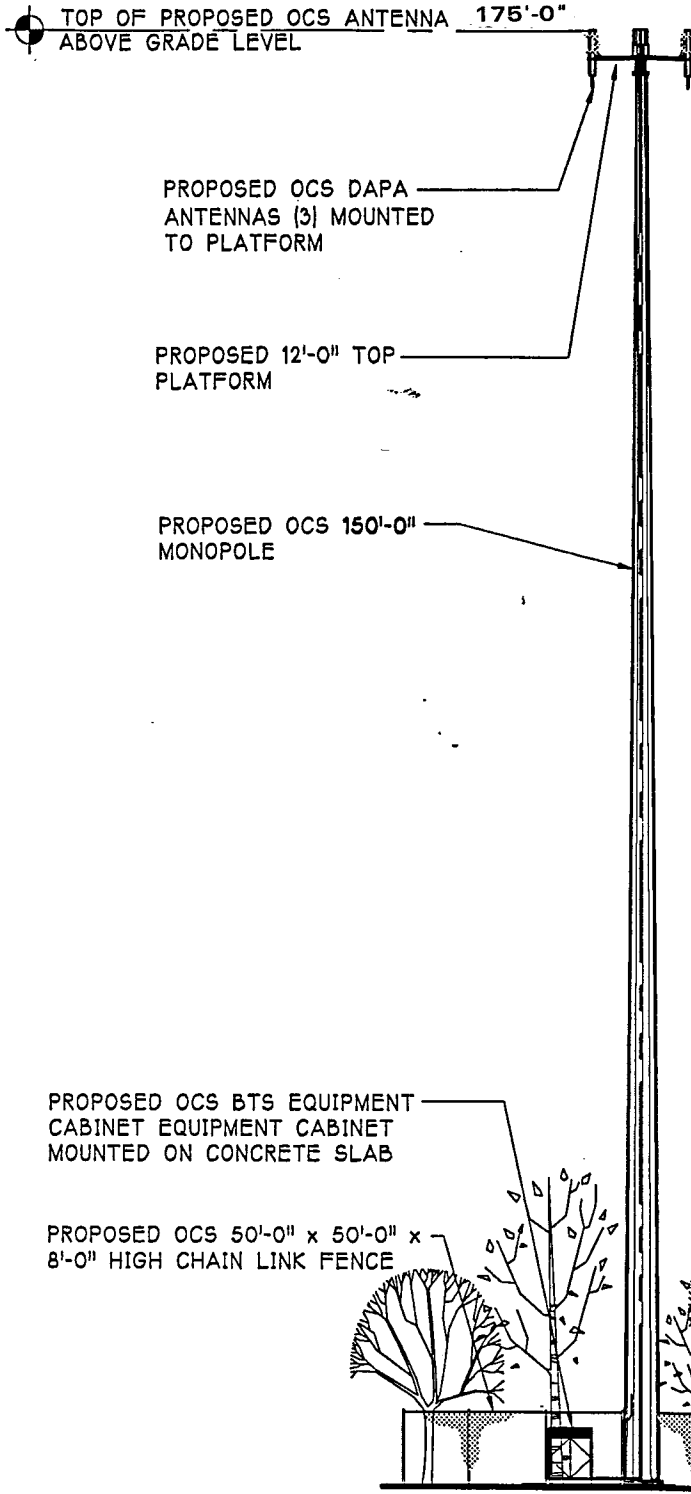
P.C. Chkd:

Chkd. by:

ARCNET Project No.
A99.506.823A

Drawn:
KK

Date:
3/17/99



TOP OF PROPOSED OCS ANTENNA 175'-0"
ABOVE GRADE LEVEL

PROPOSED OCS DAPA ANTENNAS (3) MOUNTED TO PLATFORM

PROPOSED 12'-0" TOP PLATFORM

PROPOSED OCS 150'-0" MONOPOLE

PROPOSED OCS BTS EQUIPMENT CABINET EQUIPMENT CABINET MOUNTED ON CONCRETE SLAB

PROPOSED OCS 50'-0" x 50'-0" x 8'-0" HIGH CHAIN LINK FENCE

EXISTING TREES (TYPICAL)

1 ELEVATION
LE-2 SCALE: NOT TO SCALE

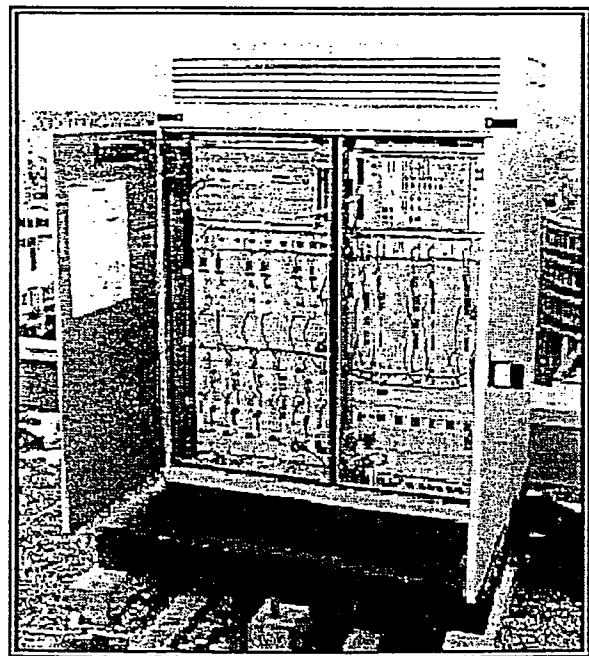
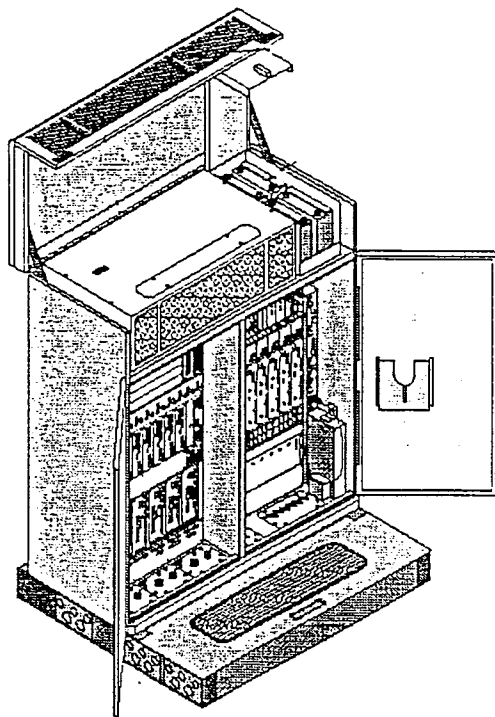
NOTE: EXHIBITS SUBMITTED ARE A CONCEPTUAL REPRESENTATION OF THE LEASE AGREEMENT ONLY. ACTUAL CONSTRUCTION DOCUMENTATION MAY VARY TO COMPLY WITH ALL APPLICABLE CODES.

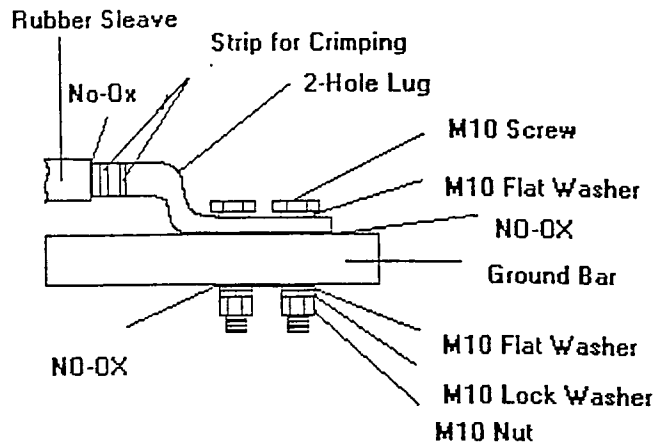
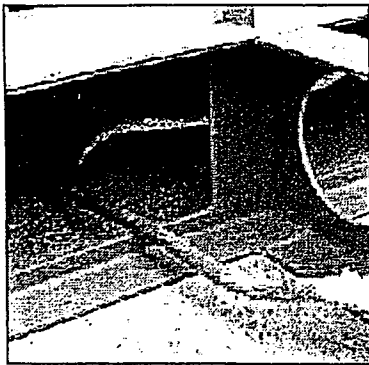
<p>670 North Beers Street, Building 2, Holmdel, NJ 07733 Tel: 732.739.3200 Fax: 732.739.0440</p>	Drawing Title: ELEVATION			Project: ELECTRON TECHNOLOGIES Address: 300 GOVERNOR'S HIGHWAY SOUTH WINDSOR, CT			
	Client:			Approved By: _____ DATE: _____ PROJ. MGR: _____ DATE: _____ R.F. ENGR: _____ DATE: _____ SAC: _____ DATE: _____ OWNER: _____ DATE: _____		REV#1	KK 5/18/99
Search Area: SOUTH WINDSOR/RT. 5 Site ID No.: CT-11-279A	P.C.: JDi	P.C. Chkd.: _____	Chkd. by: _____	ARCNET Project No.: A99.506.823A	Drawn: KK	Date: 3/17/99	Revision No. _____ Date: _____ Drawing No. LE-2

NORTEL
NETWORKS™

S8000 BTS

Site Specifications





Apply a light coating of No Oxidation (NO-OX) to the ground bar area.

Dimensions, Weights & Clearances

BTS

Weight: 915 pounds
 Dimensions: 53.2"W x 26"D x 63"H

Clearances while transporting in building:

Door Access:

Height: 6.6 feet
 Width 3 feet

Corridor Access:

Height: 6.6 feet
 Width: 3.6 feet (straight), 6.6 feet (right angle)

Clearances when installed:

Above: 28 inches for opening of hood
 Rear: 8 inches for installation of outer skin
 Sides: 8 inches for adjustment of door hinges
 Front: 54 inches to open door and technician access

Plinth

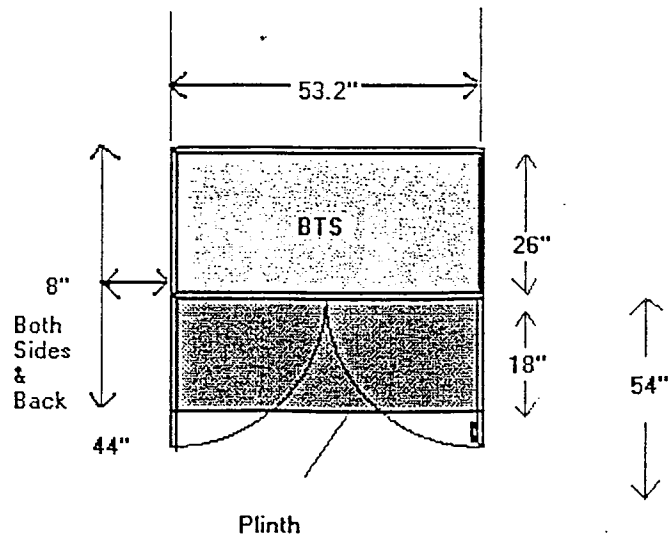
Weight:
 87 pounds

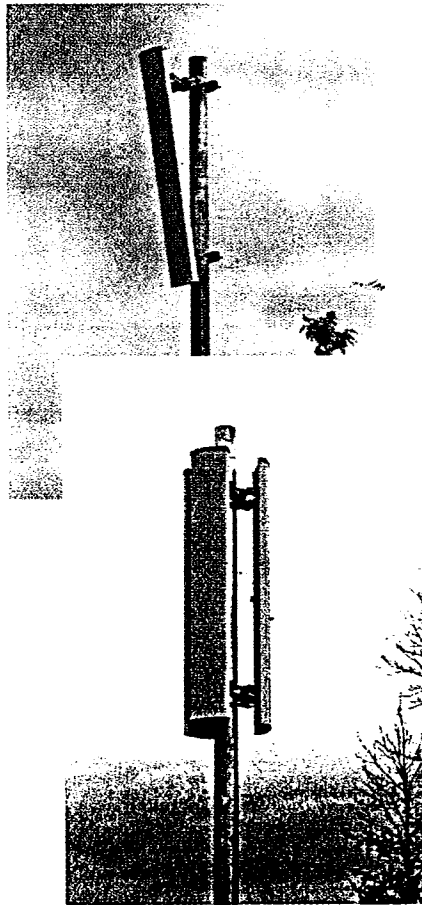
Dimensions:
 53.2"W x 44"D x 10.2"H

Floor Characteristics

Minimum Floor Resistance:
 123 pounds/foot²

Flatness:
 ¼ inch over 78 inches

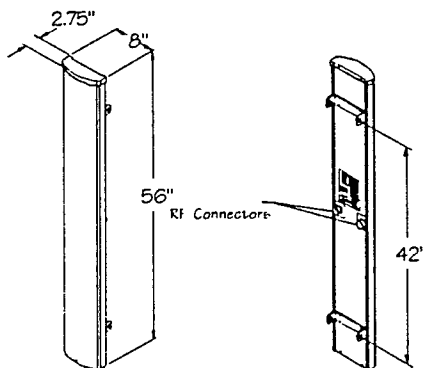




Mechanical Specification	
Parameter	Specification
Dimensions (L x W x D)	56 in x 8 in x 2.75 in (142 cm x 20.3 cm x 7.0 cm)
Rated Wind Velocity	150 mph (241 km/hr)
Equivalent Flat Plate Area	3.1 ft. ² (.29 m ²)
Front Wind Load @ 100 mph (161 kph)	90 lbs (400 N)
Side Wind Load @ 100 mph (161 kph)	31 lbs (139 N)
Weight	18 lbs (8.2 kg)

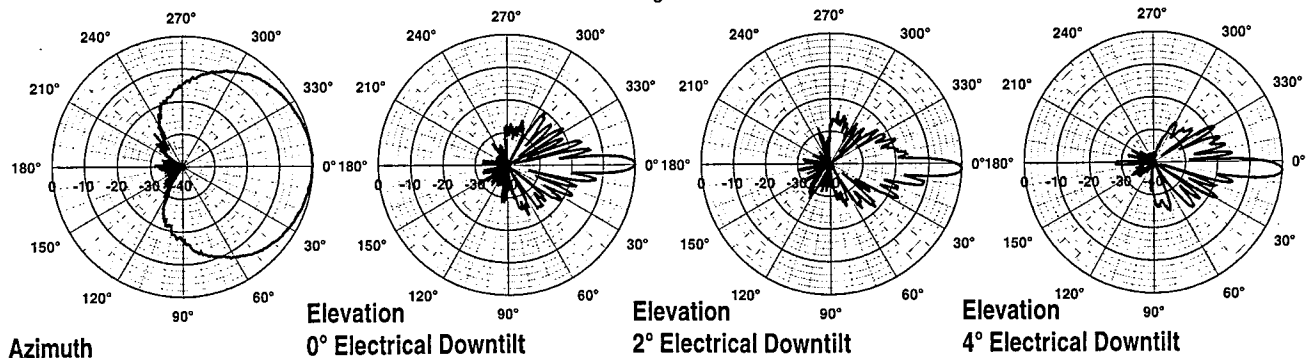
Electrical Specification	
Parameter	Specification
Azimuth Beamwidth	90°
Elevation Beamwidth	6°
Gain	16.5 dBi (14.4 dBd)
Polarization	Slant, +/-45°
Port-to-Port Isolation	≥ 30 dB
Front-to-Back Ratio	≥ 25 dB (≥ 30 dB Typical)
Electrical Downtilt Options	0°, 2°, 4°, 6°
Power Handling	250 Watts CW
VSWR	1.35:1 Max
Passive Intermodulation	<-147 dBc (2 tone @ +43 dBm {20W} ea.)
Connectors	2; 7-16 DIN (female)
Lightning Protection	Chassis Ground

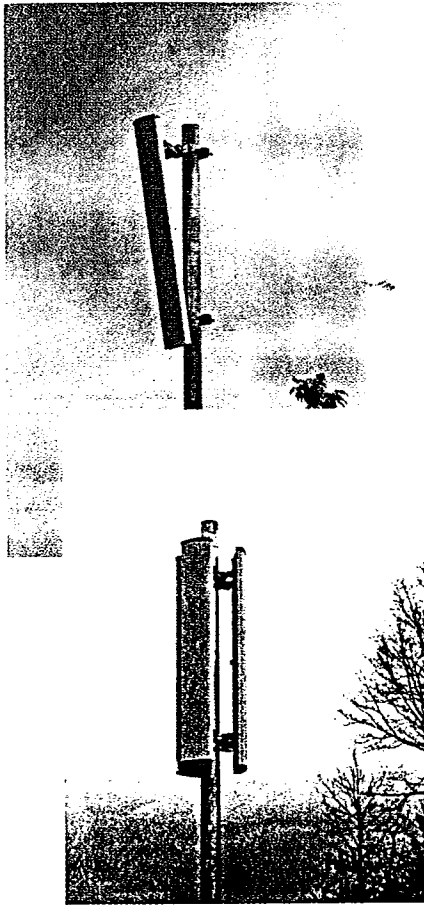
Note: Antenna patterns and electrical specifications are co-polarized data.



Mounting Options		
Model Number	Description	Comments
MTG-P00-10	Standard Mount (Supplied with Antenna)	Mounts to wall or 1.5 inch to 5.0 inch O.D. pole (3.8 cm to 12.7 cm)
MTG-S00-10	Swivel Mount Kit	Wall mounting kit providing +/-30° Azimuth Beam Adjustment
MTG-D10-20	Mechanical Downtilt Kit	0° - 10° Mechanical Downtilt
MTG-D15-20	Mechanical Downtilt Kit	0° - 15° Mechanical Downtilt
MTG-C00-10	Cluster Mount Kit	3 Antennas 120° apart or 2 Antennas 180° apart
MTG-C10-10	Cluster Mount Kit	For use with 10° Downtilt Kit
MTG-C15-10	Cluster Mount Kit	For use with 15° Downtilt Kit

Note: Patent Pending





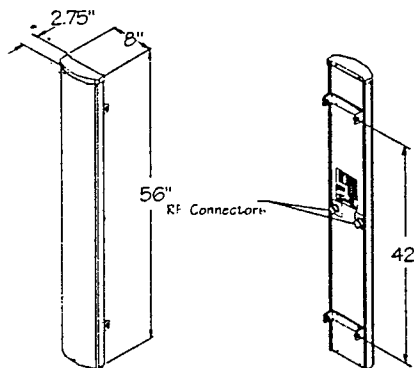
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Side Wind Load @ 100 mph (161 kph)	31 lbs (139 N)
Weight	18 lbs (8.2 kg).
--	

Electrical Specification

Parameter	Specification
Azimuth Beamwidth	65°
Elevation Beamwidth	6°
Gain	17.5 dBi (15.4 dBd)
Polarization	Slant, +/-45°
Port-to-Port Isolation	≥ 30 dB
Front-to-Back Ratio	≥ 25 dB (≥ 30 dB Typical)
Electrical Downtilt Options	0°, 2°, 4°, 6°
Power Handling	250 Watts CW
VSWR	1.35:1 Max
Passive Intermodulation	<-147 dBc (2 tone @ +43 dBm {20W} ea.)
Connectors	2; 7-16 DIN (female)
Lightning Protection	Chassis Ground

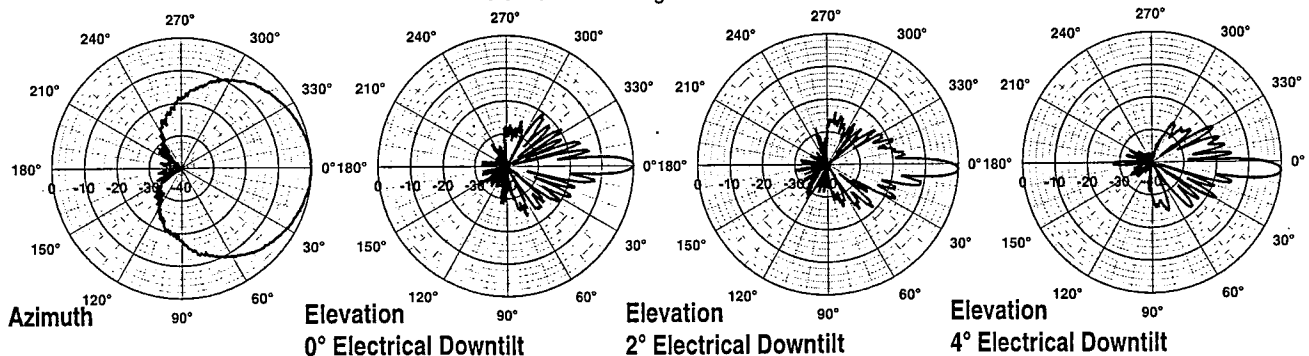
Note: Antenna patterns and electrical specifications are co-polarized data.

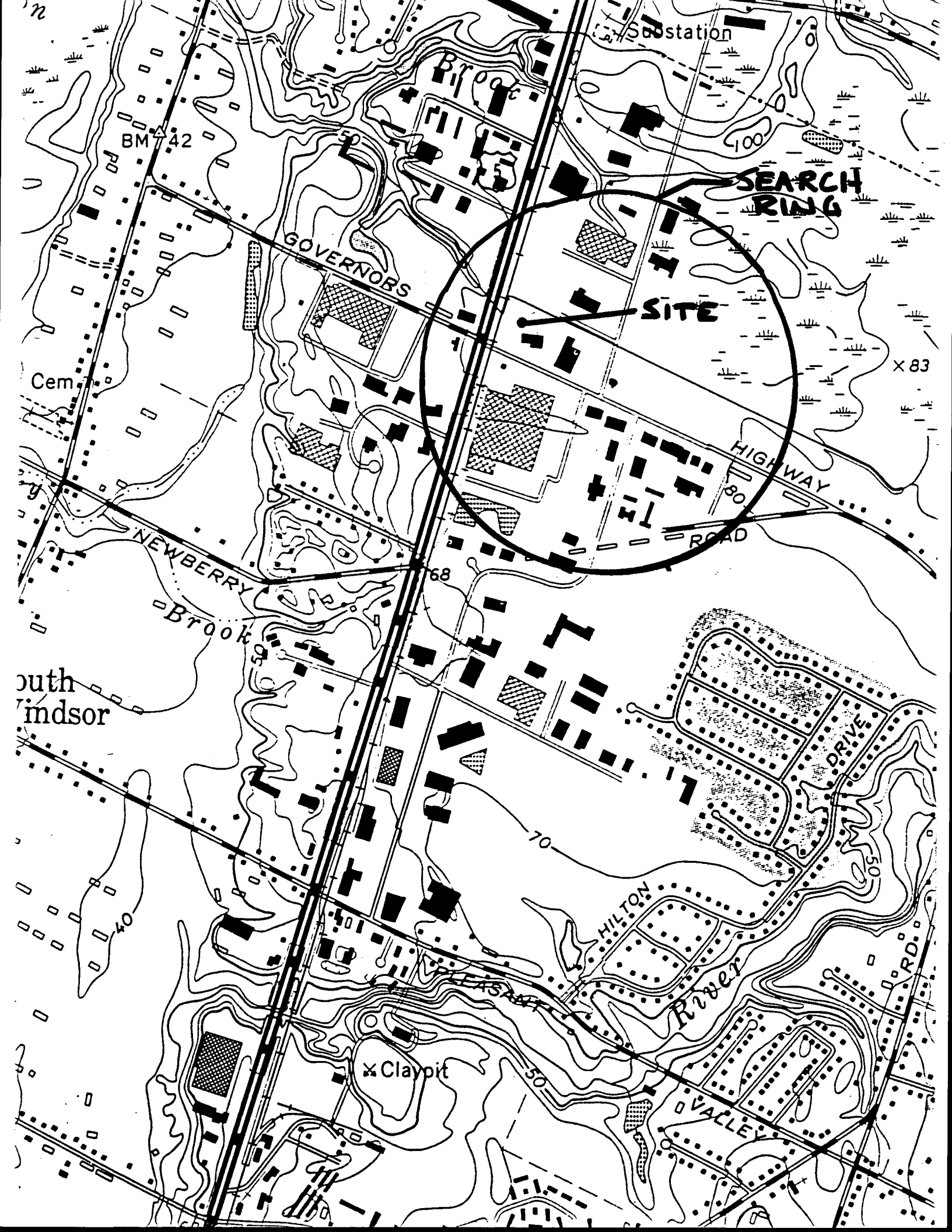


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MTG-D10-20	Mechanical Downtilt Kit	0° - 10° Mechanical Downtilt
MTG-D15-20	Mechanical Downtilt Kit	0° - 15° Mechanical Downtilt
MTG-C00-10	Cluster Mount Kit	3 Antennas 120° apart <u>or</u> 2 Antennas 180° apart
MTG-C10-10	Cluster Mount Kit	For use with 10° Downtilt Kit
MTG-C15-10	Cluster Mount Kit	For use with 15° Downtilt Kit

Note: Patent Pending





Station

BM 42

SEARCH RING

SITE

X 83

GOVERNORS

HIGHWAY 80

ROAD

NEWBERRY Brook

68

outh Windsor

DRIVE

70

HILTON River

50

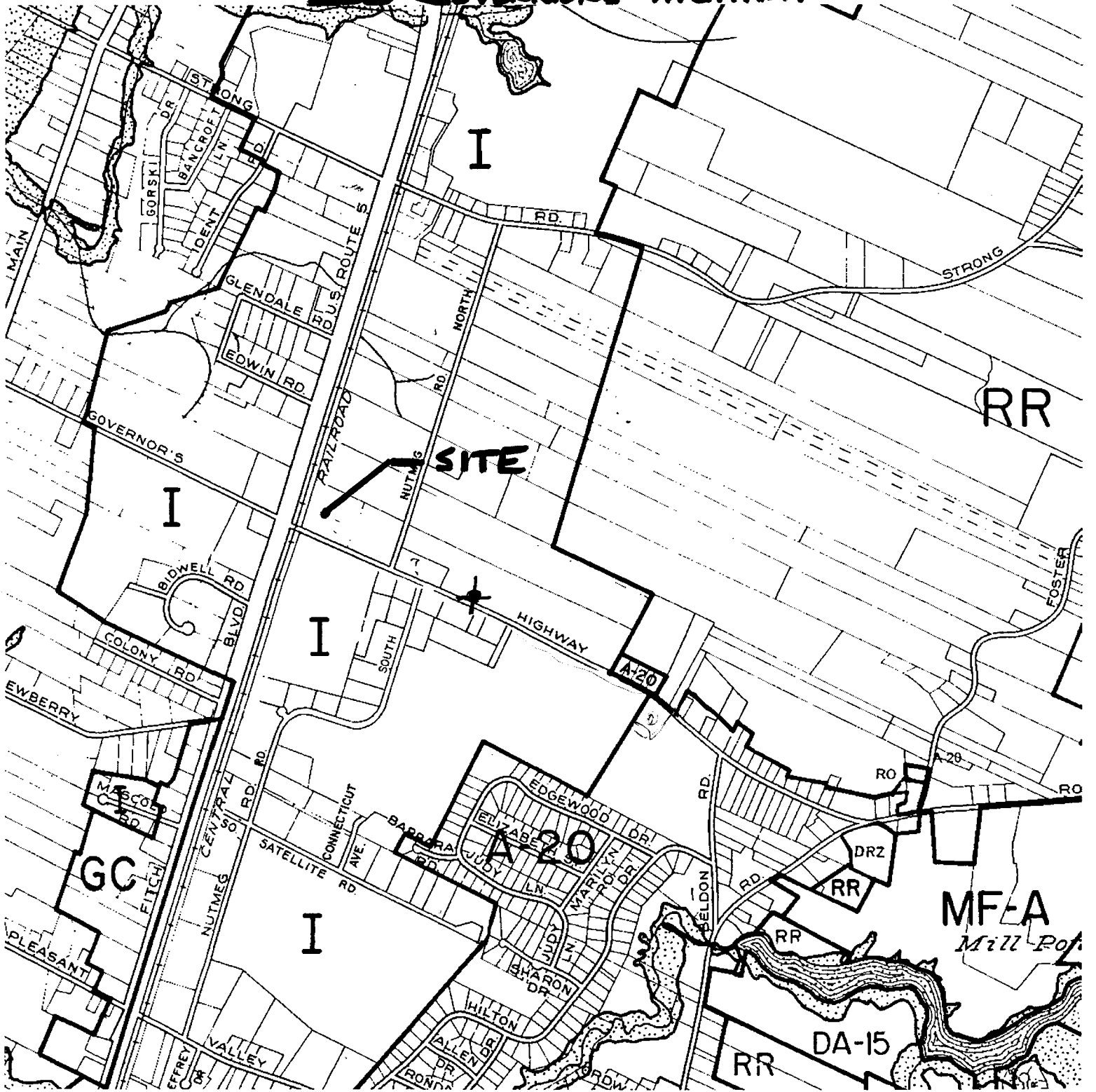
Clay pit

50

VALLEY

RD.

300 GOVERNOR'S HIGHWAY





S

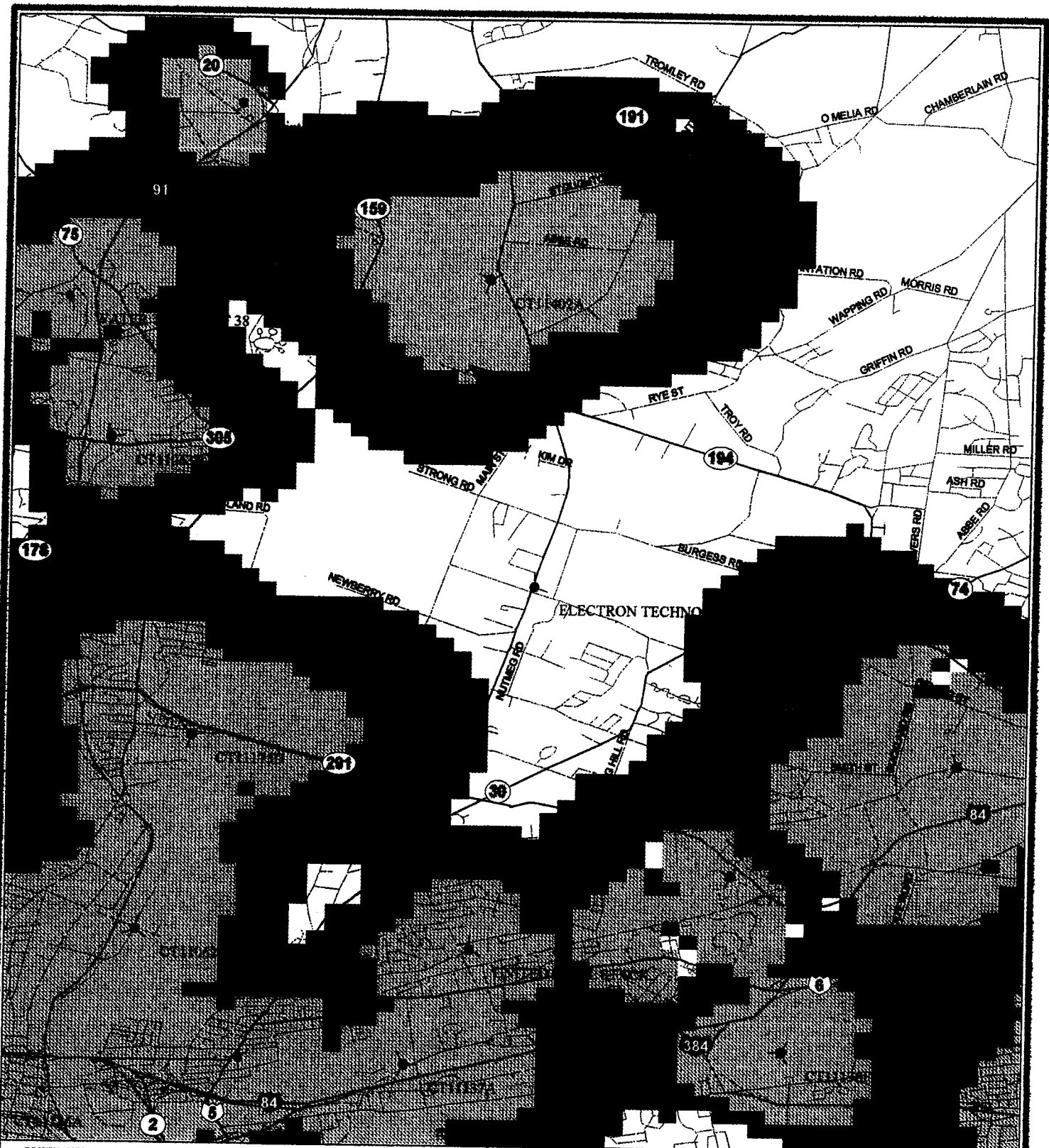


 OCS



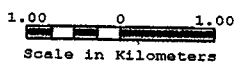
ELECTRON TECHNOLOGIES
300 GOVERNOR'S HIGHWAY
SOUTH WINDSOR, CT

 **ARCNET** SM

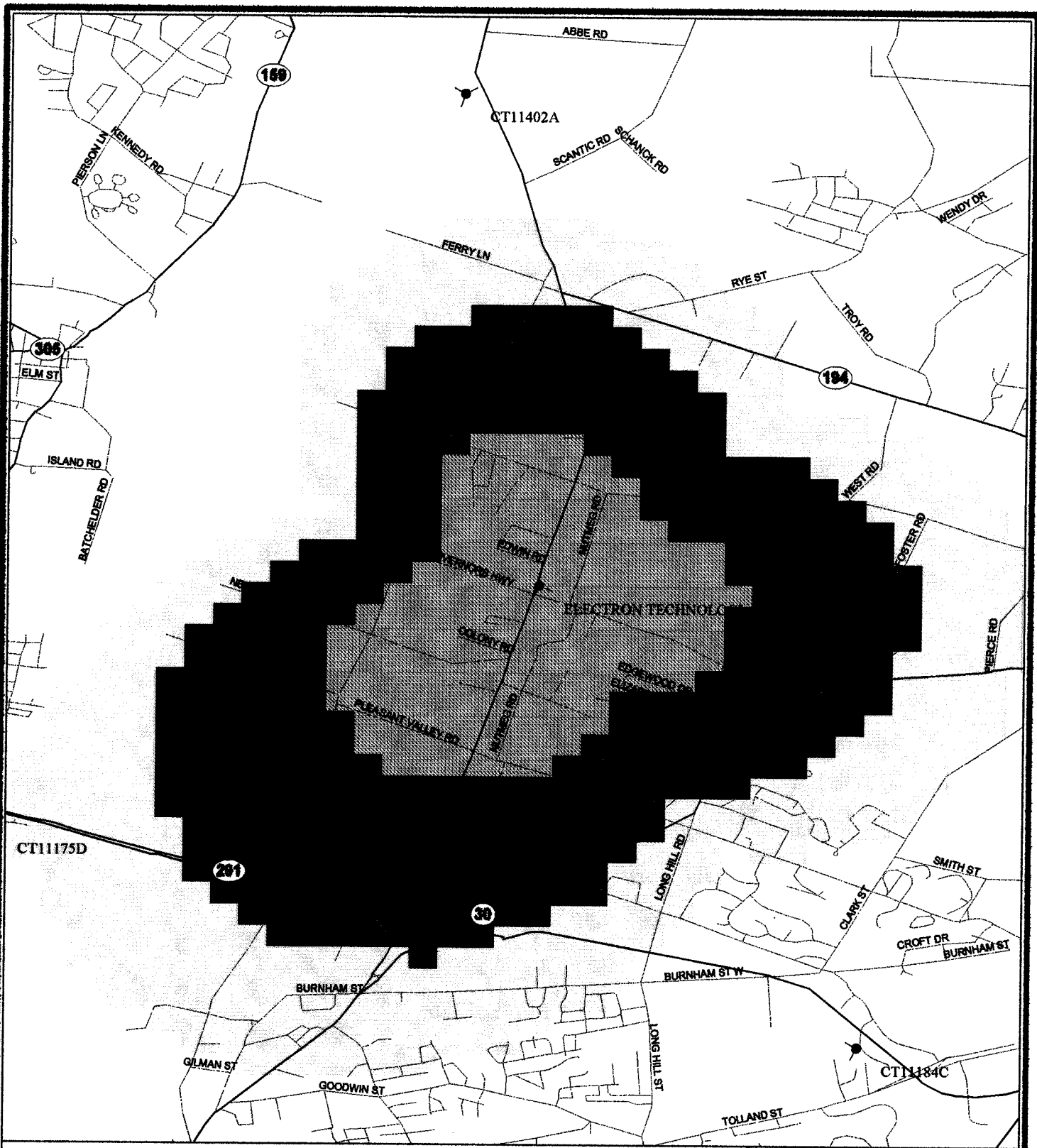


SOUTH WINDSOR COVERAGE W/O ELECTRON TECHNOLOGIES

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 Map Projection: Plate-Carree
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 WED 7 JUL 1999 15:14:28
 Koalibur - Copyright (c) 1994 - 1997 TeleworX

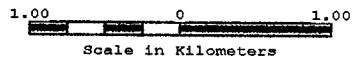


RX Level Ranges			
0	<=	X	< 0
0	<=	X	< 0
0	<=	X	< 0
-89	<=	X	< -85
-85	<=	X	< -76
-76	<=	X	< 0



ELECTRON TECHNOLOGIES COVERAGE ALONE

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 WED 7 JUL 1999 15:17:58
 Xcalibur - Copyright (c) 1994 - 1997 TeleworX



RX Level Ranges				
0	▲	X	▲	0
0	▲	X	▲	0
0	▲	X	▲	0
-89	▲	X	▲	-85
-85	▲	X	▲	-76
-76	▲	X	▲	0



SOUTH WINDSOR COVERAGE W/ ELECTRON TECHNOLOGIES

Network File Name: D:\Ctreg11\Design\1999p.net
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 Map Projection: Plate-Carree
 Center Latitude: 41-50-01.7 N Longitude: 72-36-20.7 W
 WED 7 JUL 1999 15:12:50
 Xcalibur - Copyright (c) 1994 - 1997 TeleworX

1.00 0 1.00
 Scale in Kilometers

RX Level Ranges		
0	<=	X < 0
0	<=	X < 0
0	<=	X < 0
-89	<=	X < -85
-85	<=	X < -76
-76	<=	X < 0



OMNIPOINT COMMUNICATIONS SERVICES
100 Filley Street, Bloomfield, CT 06002
Telephone: 860-692-7132 Fax: 860-692-7159

July 16, 1999

Re: CT-11-279A-Omnipoint Application for Special Exception - 300 Governor's Highway, South Windsor

To Whom It May Concern:

Omnipoint Communications has filed an application for a special exception and site plan review permit to construct a 175 feet, multi-carrier, wireless telecommunications monopole at 300 Governor's Highway. Omnipoint will utilize this site for a PCS base station.

PROPOSED USE

Omnipoint is proposing to construct a 175 feet monopole to accommodate its PCS base station, as well installations of at least two additional wireless communications carriers, on the property owned by the Electron Technologies Corporation. This site is located in an industrial zone. Omnipoint will have directional antennas (approximately 56" tall x 8" wide x 2.75" deep) mounted on a platform at the top of the pole. The antennas will transmit and receive low power radio signals. One unmanned prefabricated equipment cabinet measuring approximately 63" high x 53" wide x 25" deep will be located on the ground at the base of the pole. This equipment cabinet is connected to the antennas by narrow cables. Omnipoint's installation, and those of other carriers, will be built in a 50'x50' fenced compound. The location of the compound rests in the middle a wooded area on the site, several hundred feet from the street. It will be accessed by a ten feet wide gravel drive, which begins at the edge of the rear parking lot on the property. All cutting of vegetation will be held to a minimum in order to maintain natural screening. (See back side of page for basic plan information.) With the industrial zone classification of the property, the size of the property and the visual mitigation the existing vegetation will provide, this proposal ranks second (of six) in order of siting preference.

The anticipated public hearing date for our application is August 17, 1999. If you have any questions, please feel free to contact me on my direct line at (860) 692-7132.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Gilligan", written over a horizontal line.

Thomas M. Gilligan
Zoning Specialist
Omnipoint Communications, Inc.

300 Governors Highway Abutting Property Owners

<u>Map</u>	<u>Lot</u>	<u>Mailing Address</u>
59	3	The May Department Store 611 Olive Street Suite 1350 ST. Louis, MO 63101 RE: 300 Governor's Highway
60	1	Gladys & Albert Schneider Co. 330 Governors Highway S. Windsor, CT 06074
71	18	Edwin Road Properties, Inc. 1013 McDermott Road Mataire, LA 70001 Re: 1043 John Fitch Boulevard
71	21	National Cigar Corporation P.O. Box 97 Frankfort, IN 46041 RE: 1049 John Fitch Boulevard
71	23	Fleet Bank National Association One Corporate Center 20 Church Street Hartford, CT 06103 RE: 1033 John Fitch Boulevard
72	11	S. Sea Company, Inc. 330 Main Street Hartford, CT 06016 RE: 519 Nutmeg RD.
72	12	Nutmeg Road North Realty, LLC 28-40 31 st Street Long Island City, NY 11102 RE: 555 Nutmeg RD.

**300 Governors Highway
Abutting Property Owners**

Map

Lot

Mailing Address

CT Central Railroad
8 Rapallo Avenue
Middletown, CT 06457

PLANNING DEPARTMENT TRANSMITTAL

DATE: 7/14/99

TO: Jerry Lazella
Town Engineer

WE ARE SENDING YOU:

- | | |
|-------------------------------------------------------|----------------------------------------------------|
| <input checked="" type="checkbox"/> PZC initial plans | <input type="checkbox"/> Drainage computations |
| <input type="checkbox"/> PZC revised plans | <input type="checkbox"/> Bond estimate request |
| <input type="checkbox"/> PZC Final plans for review | <input type="checkbox"/> Bond reduction request |
| <input type="checkbox"/> PZC Final plans for filing | <input checked="" type="checkbox"/> Correspondence |
| <input type="checkbox"/> IWA/CC plans | |
| <input type="checkbox"/> Other _____ | |

NO. OF COPIES	APPLICATION NUMBER	PROJECT/APPLICANT
1	99-51 P	Omond Point Commercial Dev

THESE ITEMS ARE TRANSMITTED:

- | | |
|------------------------------------------------------------|-----------------------------------------|
| <input checked="" type="checkbox"/> For review and comment | <input type="checkbox"/> For your files |
| <input type="checkbox"/> For your use | <input type="checkbox"/> As requested |
| <input type="checkbox"/> Other _____ | |

PLEASE RETURN/COMMENT BY: _____

COMMENTS:

Michelle - No Comments June 7/14/99

Copy to: _____

From: Michelle Ann Lyle
Asst Dir of Planning

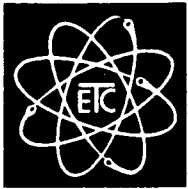
Memo

To: Planning and Zoning Commission
cc: Architecture and Design Review Committee
From: Michele R. Lipe, Assistant Director of Planning
Date: 07/20/99
Re: Balloon simulation for Appl. 999-51P, OmniPoint Communications

The applicant has advised us that OmniPoint will be conducting a simulation of the proposed wireless telecommunication site on Tuesday, July 27, 1999 from 3 PM to 7:30 PM. They will be placing a crane on site with a 4-6 foot red balloon 175 feet in the air. (In case of inclement weather, they will put the balloon up on Wednesday, July 28 at the same time.)

The site is located on the northerly side of Governor's Highway, easterly of the railroad tracks (see attached map). This application has been scheduled for a public hearing on Tuesday, August 17, 1999.

If you have any questions, call the Planning Department at 644-2511, ext. 253.



Electron Technologies Corp.

Radiation Processing • Product Development

300 Governor's Highway • P. O. Box 316 • South Windsor, Connecticut 06074 • 860-289-7451 • Fax 860-289-0767

July 20, 1999

Mrs. Michele Lipe
Town of South Windsor
Planning and Zoning
1540 Sullivan Avenue
South Windsor, CT 06074

Dear Mrs. Lipe:

This is to advise you that the proposed monopole site presented to the town by Omnipoint would be located on our property in an area which Electron Technologies would have no plans for expansion. The site was selected because of its concealment in the wooded area.

I have spoken to Tom Gilligan of Omnipoint who informed me that the town would like to see a buffer zone of twenty five feet around the Omnipoint compound where the existing trees and vegetation would remain. Please be assured that this thought is acceptable to us and will be taken into account with any future plans we may have.

Please contact me if you have any questions regarding this matter.

Very truly yours.

Richard H. Plank
President

cc: Tom Gilligan

ASA Case No: 98-P-7532.01c.08**STUDY RESULTS AT PROPOSED HEIGHT: 175' AGL****• FAA Filing:** Not required Required if structure would exceed _____ feet AGL.

ALERT: After July 1, 1996 all proposed new or altered antenna structures subject to FAA filing requirements under FAR Part 77 must be registered with the FCC antenna structure registry prior to erecting the antenna, unless specifically exempted. ★See attached form ★

• Obstruction Standards of FAR Part 77: Not exceeded Exceeded if structure would exceed _____ feet AGL.

IMPORTANT: (The FAA will require Marking/Lighting if Obstruction Standards are exceeded & /or structure exceeds 200' AGL. However, the FAA, for safety reasons, may require marking &/or lighting on non exceeding structures. Exceeding Obstruction Standards will also require FAA extended study.)

• Operational Procedures: Not affected (*FAA will issue a Determination of No Hazard*). Affected if structure would exceed _____ feet AGL.

IMPORTANT: (FAA will issue a Determination of Hazard unless proposed structure is reduced by _____ feet.)

Note:

Due to proximity to operational procedures FAA MAY require a certified survey

Comments:**Actions:**ASA will file with _____ FAA Region and State Yes NoASA Operations Manager: L. Gene Garrett

Sent via:

MAIL FAX FED EX

JET ENGINE PARTS MANUFACTURER

electro-methods, inc.



TEL (860) 289-8661 - FAX (860) 289-1868
P.O. BOX 54, 330 GOVERNORS HIGHWAY, SOUTH WINDSOR, CT 06074

8-17-99

Planning & Zoning Commission
Town of South Windsor
1540 Sullivan Avenue
South Windsor, CT 06074

Attn: Ms. Susan Larsen, Chairperson

RE: Omnipoint Communications installation of 175 foot tall telecommunications
monopole at 300 Governors Highway

Dear Ms. Larsen,

Electro-Methods, Inc. has a heliport located on Electro-Methods' private property at 330 Governors Highway. This heliport is within 800 feet of the proposed 175 foot monopole installation directly in line with the East to West approach to the helipad. The height of this proposed installation will create a hazard to helicopter operations at night unless the structure is properly lighted.

There are other aircraft operations in the local South Windsor area which could be adversely affected by an unlighted 175 foot tower. Our building, located within 600 feet of the proposed tower, could be involved in the event of a collision between an aircraft and the proposed tower.

We therefore request that the Planning and Zoning Commission require Omnipoint Communications to install approved aircraft warning lights on the monopole tower.

Your time and consideration in this matter are appreciated.

Sincerely,
ELECTRO-METHODS, INC.

A handwritten signature in cursive script, appearing to read 'Paul Keller', is written over the typed name.

Paul Keller
Director of Finance

PROPOSED CCS 50' X 50'
CHAIN LINK COMPOUND

PROPOSED CCS
175'-0" MONOPOLE

PROPOSED CCS BTS
EQUIPMENT CABINET
MOUNTED TO NEW
CONCRETE SLAB

PROPOSED CCS 10'-0"
GRAVEL ACCESS ROAD

EXISTING
RAILROAD

EXISTING PAVED
ASPHALT
DRIVEWAY

EXISTING BUILDING

EXISTING PAVED
ASPHALT PARKING
AREA

GOVERNOR'S HIGHWAY

NORTH

EXISTING WOODED
AREA

PROPOSED
TELECOM/ELECTRIC
PANELS

EXISTING GRASSED AREA

CONTAINS 50 ACRES

HELIPAD

Note: Pole is located 94 feet from the side and rear property lines
and 390 feet from the front property line.



Town of South Windsor

1540 SULLIVAN AVENUE • SOUTH WINDSOR, CONN. 06074
AREA CODE 860 / 644-2511

September 30, 1998

Mr. Paul Keller
Electro Methods
330 Governors Highway
South Windsor, CT 06074

Dear Mr. Keller:

Re: Installation of Heliport at 330 Governors Highway

The Planning and Zoning Commission of the Town of South Windsor has reviewed the request of Electro Methods for a heliport on Electro Methods' private property at 330 Governor's Highway. It is our understanding that this heliport is to be used for private purposes only, in connection with Electro Methods' business operations.

The Planning and Zoning Commission grants permission to Electro Methods to install the heliport. It is our observation that, while any air travel has inherent hazards (such as nearby electric power lines), the selected landing site presents minimal danger to residential areas.

The South Windsor Police Chief and Fire Marshal have also indicated that they have no concerns regarding the proposal.

Very truly yours,

Planning & Zoning Commission

Frank A. Castro, Jr.
(dlw)

Frank A. Castro, Jr., Chairperson

FAC/dlw



U.S. Department
of Transportation
**Federal Aviation
Administration**

New England Region

12 New England Executive Park
Burlington, MA 01803-5299

September 30, 1998

Mr. Paul Keller
Director of Finance
Electro-Methods, Inc.
330 Governors Highway
South Windsor, Connecticut 06074

Dear Mr. Keller:

This letter is to confirm receipt of your Notice of Landing Area Proposal, FAA Form 7480-1, for the establishment of EMI, in South Windsor, CT.

It has been assigned Case Number **98-ANE-36-NRA**. Please refer to this number if you inquire about your heliport.

Sincerely,

A handwritten signature in black ink that reads "Sharon A. Whitt".

Sharon A. Whitt
Airspace Program, Airports Division



US Department of Transportation
Federal Aviation Administration

NOTICE OF LANDING AREA PROPOSAL

Name of Proponent, Individual or Organization
ELECTRO-METHODS, INC.

Address of Proponent, Individual or Organization
(No., Street, City, State, Zip Code)
**330 GOVERNORS HIGHWAY
SOUTH WINDSOR, CT 06074**

Check if the property owner's name and address are different than above, and list property owner's name and address on the reverse.

Establishment or Activation Deactivation or Abandonment } OF Airport Ultralight Flightpark Vertiport
 Alteration Change of Status } Helicopter Seaplane Base Other (Specify) _____

A. Location of Landing Area **NAD 83**

1. Associated City/State 2. County/State (Physical Location of Airport) 3. Distance and Direction From Associated City or Town
SOUTH WINDSOR, CT **HARTFORD, CT**

4. Name of Landing Area 5. Latitude 6. Longitude 7. Elevation Miles Direction
EMI **41° 49' 942"** **72° 36' 101"** **104** **3.5** **EAST**

B. Purpose

Type Use If Change of Status or Alteration, Describe Change Establishment or change to traffic pattern (Describe on reverse) Construction Dates

Public Private Private Use of Public Land/Waters

To Begin/Began Est. Completion
10/98 **10/98**

C. Other Landing Areas	Ref. A5 Above		D. Landing Area Data				Existing (if any)			Proposed		
	Direction From Landing Area	Distance From Landing Area	1. Magnetic Bearing of Runway(s) or Sealane(s)	Length of Runway(s) or Sealane(s) in Feet	Width of Runway(s) or Sealane(s) in Feet	Type of Runway Surface (Concrete, Asphalt, Turf, Etc.)	Rwy #1	Rwy #2	Rwy #3	Rwy	Rwy	Rwy
BRADLEY AIRPORT (BDL)	345°	7 MI					Airport, Seaplane Base, or Flightpark	2. Dimensions of Final Approach and Take off Area (FATO) in Feet				600 X 200
			BRAINARD (HFD)	225°	4.5 MI	Helicopter			Dimensions of Touchdown and Lift-Off Area (TLOF) in Feet			200 X 200
Magnetic Direction of Ingress/Egress Routes									NORTH & SOUTH			
			Type of Surface (Turf, concrete, rooftop, etc.)			TURF						

E. Obstructions

Type	Height Above Landing Area	Direction From Landing Area	Distance From Landing Area
TREES	30'	NW/E	300'
BUILDING	20'	WEST	200'

F. Operational Data

1. Estimated or Actual Number Based Aircraft

Airport Flightpark, Seaplane base	Present (If est. indicate by letter "E")	Anticipated 5 Years Hence	Helicopter	Present (If est. indicate by letter "E")	Anticipated 5 Years Hence
Multi-Engine			Under 3500 lbs. MGW	0	0
Single-engine			Over 3500 lbs. MGW		
Glider					

G. Other Considerations

Identification	Direction From Landing Area	Distance From Landing Area	2. Average Number Monthly Landings				
			Present (If est. indicate by letter "E")	Anticipated 5 Years Hence	Helicopter	Present (If est. indicate by letter "E")	Anticipated 5 Years Hence
					Helicopter	15E	20
					Ultralight		
					Glider		

3. Are IFR Procedures For The Airport Anticipated
 No Yes Within _____ Years Type Navaid:

H. Application for Airport Licensing

Has Been Made Not Required County
 Will Be Made State Municipal Authority

I. CERTIFICATION: I hereby certify that all of the above statements made by me are true and complete to the best of my knowledge.

Name, title (and address if different than above) of person filing this notice—type or print
**PAUL KELLER, DIRECTOR OF FINANCE
330 GOVERNORS HIGHWAY
SOUTH WINDSOR, CT 06074**

Signature (in INK)

Date of Signature Telephone No. (Precede with area code)
9/18/98 **(860) 289-8661**

Omnipoint Communications Services

PH 8/17/99

*continued to Sept 14 only to receive
lighting info*

1. Request for Special Exception and site plan of development approval to construct a monopole telecommunications facility at 300 Governors Highway, Industrial zone Proposed tower height is 175 feet; 175 feet allowed. Zoning requirements appear to be met.
2. Special Exception criteria include:
 - ◆ There will be minimal adverse effects on uses in the area;
 - ◆ Surrounding property values will be conserved and the character of the neighborhood will not be unduly disrupted;
 - ◆ The land is physically suited for such use and minimal adverse environmental and aesthetic impacts are created, including but not limited to whether alternate sites were exhausted; what lies within the fall zone of the tower; existence of endangered species; whether other development is being proposed or considered at or near the site; effect on bird habitats; and length of access road; and,
 - ◆ Public health and safety will not be adversely affected.
3. Location preferences in the TCC regulation are (1) on existing structures such as buildings, water towers and utility poles, or existing/previously-approved towers; (2) on new towers with visual mitigation in commercial and industrial districts; and (3) on new towers located in commercial or industrial zones. There are three lower-priority categories also, including residential zones.
4. The Architectural and Design Review Committee reviewed the application on July 15. It was the consensus of the ADRC that due to the flat topography, the applicant should investigate the use of smaller poles (for example, two 80' poles) to meet the coverage needs. However, it should be noted that after the balloon test, ADRC Chair Ron Johnson did call in to indicate that he did not have as much concern as he had previously. ADRC recommends additional evergreen plantings to be interplanted around the site.
5. General site requirements include:
 - Towers must be painted non-contrasting blue, gray or black;
 - Towers shall be designed to collapse upon themselves;

*- light at top of tower per Electro Methods request - Paul Keller
to supply lighting info*

- Any pole over 150 feet must accommodate at least two additional users;
and
 - All utilities must be installed underground;
6. Submittal requirements include a report from a licensed engineer indicating that the proposed wireless site will comply with the emission standards of the FCC for non-ionizing electromagnetic emissions; this report was submitted with the application.
 7. A Special Exception for a telecommunications facility is granted for an initial five-year period. Permit renewals can be granted upon submittal of a request by the owner; renewal does not require a new application or public hearing. The regulations require that tower construction commence within one year from the date of approval. There is also an abandonment clause in the zoning regulations that requires removal of the facility within 90 days from the date of abandonment and restoration of the area to its previous appearance.
 8. The site is outside of regulated wetlands, so no IWA/CC approval is required.

If this application is approved, the Planning Dept. has no additional modifications.

JET ENGINE PARTS MANUFACTURER

A



electro-methods, inc.

TEL (860) 289-8661 - FAX (860) 289-1868
P.O. BOX 54, 330 GOVERNORS HIGHWAY, SOUTH WINDSOR, CT 06074

September 10, 1999

Planning & Zoning Commission
Town of South Windsor
1540 Sullivan Avenue
South Windsor, CT 06074

Attn: Ms. Susan Larsen, Chairperson

RE: Omnipoint Communications installation of 175 foot tall telecommunications
monopole at 300 Governors Highway

Dear Ms. Larsen,

As a follow up to the Planning and Zoning Commission meeting on August 17, 1999 regarding the potential hazard to helicopter operations resulting from the above referenced installation, I propose the following lighting be incorporated on the structure. This lighting configuration meets the Federal Aviation Administration requirements as outlined in the attached Advisory Circular.

One (1) red flashing (L-864) beacon at the top of the structure

Two (2) red, steady burning (L-810) lights installed on diagonally or diametrically opposite positions at 20 feet above the tree line.

Incorporation of the above suggested lighting should greatly reduce the potential hazard to helicopter operations in the vicinity of the proposed tower.

Your time and consideration in this matter are appreciated.

Sincerely,
ELECTRO-METHODS, INC.


Paul Keller
Director of Finance

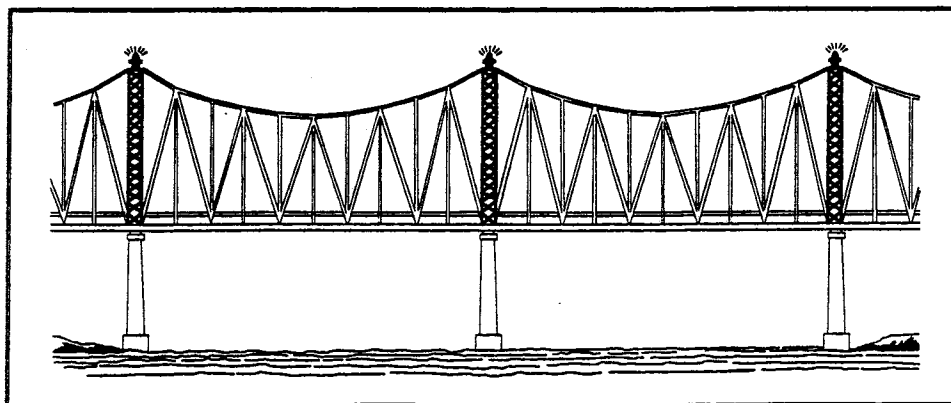
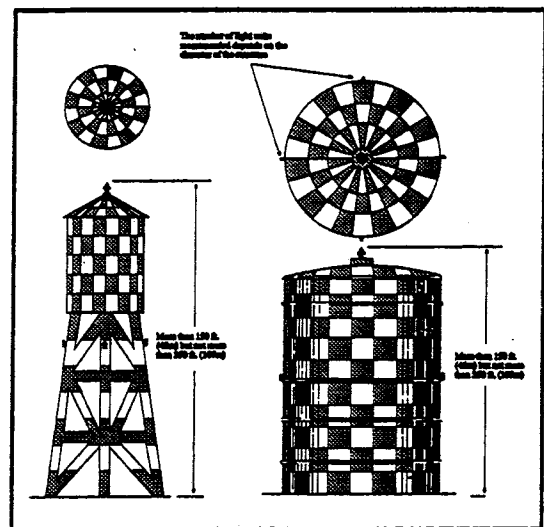
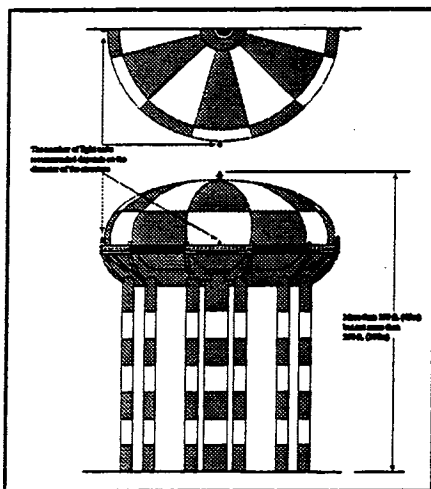
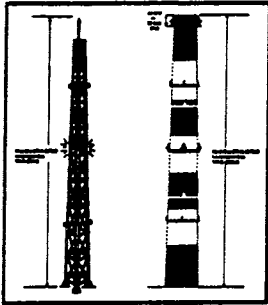


U.S. Department
of Transportation
**Federal Aviation
Administration**

ADVISORY CIRCULAR

AC 70/7460-1J

Obstruction Marking and Lighting





U.S. Department
of Transportation

**Federal Aviation
Administration**

ADVISORY CIRCULAR

Subject: Obstruction Marking and
Lighting

Date: 11/29/95

AC No: 70/7460-1J

Initiated by: ATP-240

1. PURPOSE. This Advisory Circular (AC) describes the Federal Aviation Administration's (FAA) standards for marking and lighting structures to promote aviation safety.

2. CANCELLATION. AC 70/7460-1H, Obstruction Marking and Lighting, dated August 1991 is canceled by this revision.

Note-

BACKGROUND. Since there is a typographical similarity between the alphanumeric characters "1" and "I," the "I" character has been skipped and the letter "J" has been used for this edition of the advisory circular.

3. EFFECTIVE DATE. This advisory circular becomes effective January 1, 1996.

4. RELATED DOCUMENTS.

a. Federal Aviation Regulations Part 77 describes the standards used relative to objects in the navigable airspace and specifies the requirements for notice to the Administrator of certain proposed construction or alteration.

b. Federal Communications Commission (FCC) specifications contained in Part 17 of the FCC Rules and Regulations.

5. HIGHLIGHTS. This circular contains numerous editorial changes. Major changes are indicated below.

a. Paragraph 5, Modifications and Deviations, states sponsor's responsibility to adhere to recommended chapters

of AC. Paragraph added concerning voluntary marking and/or lighting. "Paragraph added advising proponents to become familiar with various lighting systems."

b. Paragraph 6, FCC Approval, adds notification requirement to National Oceanic and Atmospheric Administration (NOAA) of modifications/deviations to marking and/or lighting.

c. Paragraph 33, Patterns, adds requirement to paint conduit and cable wires.

d. Paragraph 36, Catenary Lighting, deleted.

e. Paragraph 43, Catenary Lighting, added.

f. Paragraph 51, Standards, adds requirement for lights to flash simultaneously.

g. Paragraph 53b(2)(b), Poles, Towers, and Similar Skeletal Structures, revised.

h. Paragraph 105, Catenary Lighting, added.

i. Paragraph 115, Catenary Lighting, added.

j. Paragraph 132, Availability of Specifications, changes General Service Administration's address and telephone number.

k. Appendix 1, Figure 1 (Types of Red Obstruction Lights) and Figure 2 (Types of High and Medium Intensity White Obstruction Lights), deleted. These figures are replaced with a listing of types of obstruction lights.


L. LANE SPECK

Program Director for Air Traffic Rules and Procedures

CHAPTER 5. RED OBSTRUCTION LIGHTING STANDARDS

50. PURPOSE.

Red obstruction lights are used to increase conspicuity during nighttime. Daytime and twilight marking is required.

51. STANDARDS.

The red obstruction lighting system is composed of flashing omnidirectional beacons (L-864) and/or steady burning (L-810) lights. When one or more levels is comprised of flashing beacon lighting, the lights should flash simultaneously. (See APPENDIX 1. FIG 11.)

a. Single Obstruction Light. A single (L-810) light may be used when more than one obstruction light is required either vertically or horizontally or where maintenance can be accomplished within a reasonable time.

1. Top Level. A single light may be used to identify low structures such as airport ILS buildings and long horizontal structures such as perimeter fences and building roof outlines.

2. Intermediate Level. Single lights may be used on skeletal and solid structures when more than one level of lights is installed and there are two or more single lights per level.

b. Double Obstruction Light. A double (L-810) light should be installed when used as a top light, at each end of a row of single obstruction lights, and in areas or locations where the failure of a single unit could cause an obstruction to be totally unlighted.

1. Top Level. Structures 150 feet (46m) AGL or less should have one or more double lights installed at the highest point and operating simultaneously.

2. Intermediate Level. Double lights should be installed at intermediate levels when a malfunction of a single light could create an unsafe condition and in remote areas where maintenance cannot be performed within a reasonable time. Both units may operate simultaneously, or a transfer relay may be used to switch to a spare unit should the active system fail.

3. Lowest Level. The lowest level of light units may be installed at a higher elevation than normal on a structure if the surrounding terrain, trees, or adjacent building(s) would obscure the lights. (See APPENDIX 1.) In certain instances, as determined by an FAA aeronautical study, the lowest level of lights may be eliminated.

52. CONTROL DEVICE.

Red obstruction lights should be operated by a satisfactory control device (e.g., photo cell, timer, etc.) adjusted so the lights will be turned on when the northern sky illuminance

reaching a vertical surface falls below a level of 60 footcandles (645.8 lux) but before reaching a level of 35 footcandles (367.7 lux). The control device should turn the lights off when the northern sky illuminance rises to a level of not more than 60 footcandles (645.8 lux). The lights may also remain on continuously. The sensing device should, if practical, face the northern sky in the Northern Hemisphere. (See AC 150/5345-43.)

53. POLES, TOWERS, AND SIMILAR SKELETAL STRUCTURES.

The following standards apply to radio and television towers, supporting structures for overhead transmission lines, and similar structures.

a. Top Mounted Obstruction Light.

1. Structures 150 Feet (46m) AGL or Less. Two or more steady burning (L-810) lights should be installed in a manner to ensure an unobstructed view of one or more lights by a pilot.

2. Structures Exceeding 150 Feet (46m) AGL. At least one red flashing (L-864) beacon should be installed in a manner to ensure an unobstructed view of one or more lights by a pilot.

3. Appurtenances 40 Feet (12m) or Less. If a rod, antenna, or other appurtenance 40 feet (12m) or less in height is incapable of supporting a red flashing beacon, then it may be placed at the base of the appurtenance. If the mounting location does not allow unobstructed viewing of the beacon by a pilot, then additional beacons should be added.

4. Appurtenances Exceeding 40 Feet (12m). If a rod, antenna, or other appurtenance exceeding 40 feet (12m) in height is incapable of supporting a red flashing beacon, a supporting mast with one or more beacons should be installed adjacent to the appurtenance. Adjacent installations should not exceed the height of the appurtenance and be within 40 feet (12m) of the tip to allow the pilot an unobstructed view of at least one beacon.

b. Mounting Intermediate Levels. The number of light levels is determined by the height of the structure, including all appurtenances, and is detailed in APPENDIX 1. The number of lights on each level is determined by the shape and height of the structure. These lights should be mounted so as to ensure an unobstructed view of at least one light by a pilot.

1. Steady Burning Lights (L-810).

(a) Structures 350 Feet (107m) AGL or Less. Two or more steady burning (L-810) lights should be installed on diagonally or diametrically opposite positions.

(b) *Structures Exceeding 350 Feet (107m) AGL.* Install steady burning (L-810) lights on each outside corner of each level.

2. *Flashing Beacons (L-864).*

(a) *Structures 350 Feet (107m) AGL or Less.* These structures do not require flashing (L-864) beacons at intermediate levels.

(b) *Structure Exceeding 350 Feet (107m) AGL.* At intermediate levels, two beacons (L-864) should be mounted outside at diagonally opposite positions of intermediate levels.

54. CHIMNEYS, FLARE STACKS, AND SIMILAR SOLID STRUCTURES.

a. *Number of Light Units.*

1. The number of units recommended depends on the diameter of the structure at the top. The number of lights recommended below are the minimum.

2. When the structure diameter is:

(a) *20 Feet (6m) or Less.* Three light units per level.

(b) *Exceeding 20 Feet (6m) But Not More Than 100 Feet (31m).* Four light units per level.

(c) *Exceeding 100 Feet (31m) But Not More Than 200 Feet (61m).* Six light units per level.

(d) *Exceeding 200 Feet (61m).* Eight light units per level.

b. *Top Mounted Obstruction Lights.*

1. *Structures 150 Feet (46m) AGL or Less.* L-810 lights should be installed horizontally at regular intervals at or near the top.

2. *Structures Exceeding 150 Feet (46m) AGL.* At least three L-864 beacons should be installed.

3. *Chimneys, Cooling Towers, and Flare Stacks.* Lights may be displayed as low as 20 feet (6m) below the top to avoid the obscuring effect of deposits and heat generally emitted by this type of structure. It is important that these lights be readily accessible for cleaning and lamp replacement. (See APPENDIX 1.)

c. *Mounting Intermediate Levels.* The number of light levels is determined by the height of the structure including all appurtenances. For cooling towers 600 feet or less, intermediate light levels are not necessary.

d. *Structures Exceeding 600 Feet (183m) AGL.* Structures exceeding 600 feet (183m) AGL should have a second level of light units installed approximately at the midpoint of the structure and in a vertical line with the top level of lights.

1. *Steady Burning (L-810) Lights.* The recommended number of light levels may be obtained from APPENDIX 1. At least three lights should be installed on each level.

2. *Flashing (L-864) Beacons.* The recommended number of beacon levels may be obtained from APPENDIX 1. At least three lights should be installed on each level.

(a) *Structures 350 Feet (107m) AGL or Less.* These structures do not need intermediate levels of flashing beacons.

(b) *Structures Exceeding 350 Feet (107m) AGL.* At least three flashing (L-864) beacons should be installed on each level in a manner to allow an unobstructed view of at least one beacon.

55. WIND TURBINE STRUCTURES.

These structures should be lighted by mounting one flashing red beacon on the highest practical point. The recommended number of intermediate light levels may be obtained from APPENDIX 1. At least three steady burning red lights should be installed. An FAA aeronautical study may recommend fewer lights at locations where several structures are closely grouped.

56. GROUP OF OBSTRUCTIONS.

When individual objects within a group of obstructions are not the same height and are spaced a maximum of 150 feet (46m) apart, the prominent objects within the group should be lighted in accordance with the standards for individual obstructions of a corresponding height. In addition, at least one flashing beacon should be installed at the top of a prominent center obstruction or on a special tower located near the center of the group.

57. ALTERNATE METHOD OF DISPLAYING OBSTRUCTION LIGHTS.

When recommended in an FAA aeronautical study, lights may be placed on poles equal to the height of the obstruction and installed on or adjacent to the structure instead of installing lights on the obstruction.

58. PROMINENT BUILDINGS AND SIMILAR EXTENSIVE OBSTRUCTIONS.

When objects within a group of obstructions are approximately the same overall height above the surface and are located a maximum of 150 feet (46m) apart, the group of obstructions may be considered an extensive obstruction. Install light units on the same horizontal plane at the highest portion or edge of prominent obstructions. Light units should be placed to ensure that the light is visible to a pilot approaching from any direction. Steady burning lights

RED OBSTRUCTION LIGHT STANDARDS

APPENDIX I

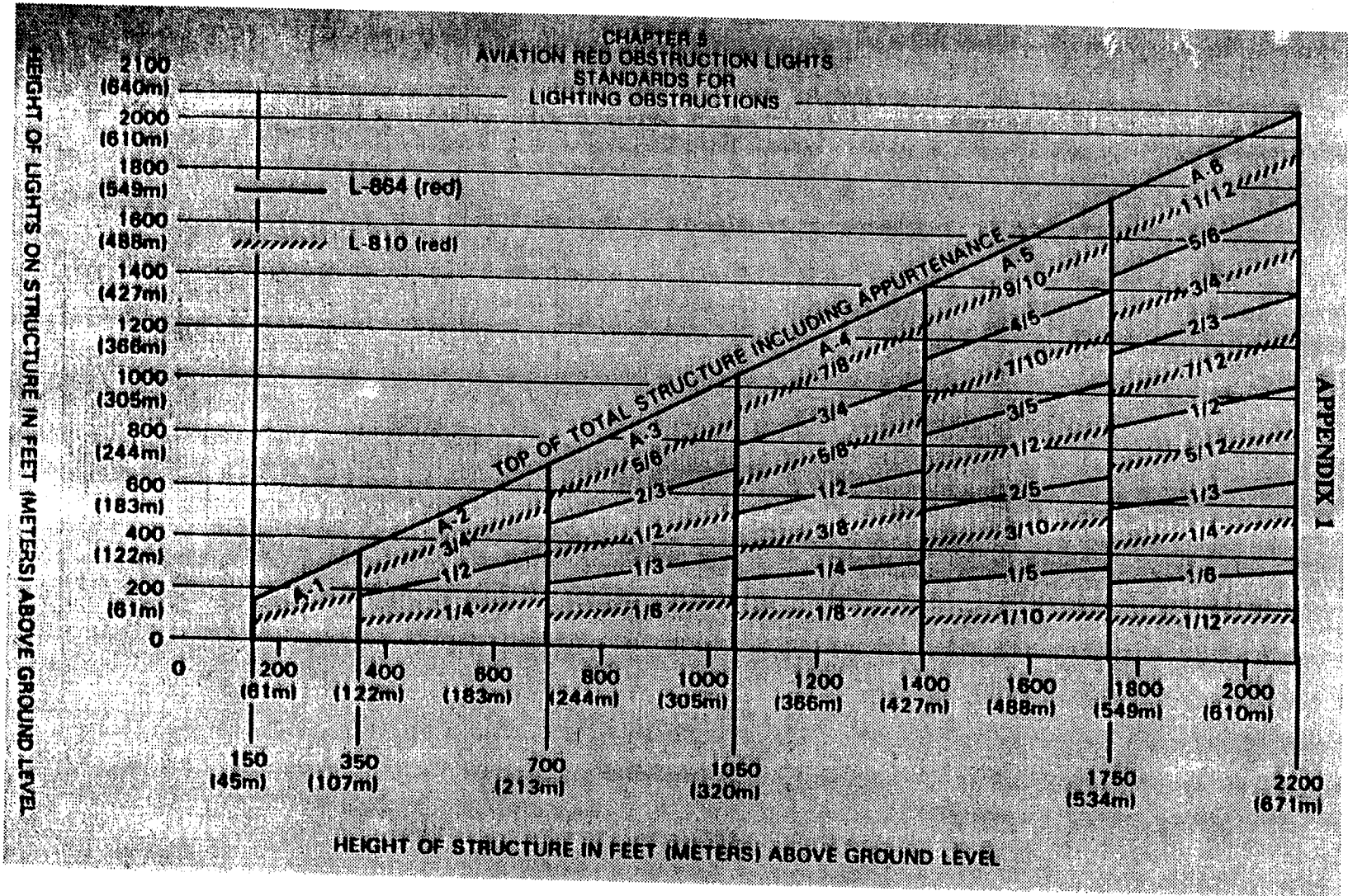


FIG II



Town of South Windsor

1540 SULLIVAN AVENUE • SOUTH WINDSOR, CT 06074-2786

AREA CODE 860/644-2511

FAX 860/644-3781

CERTIFIED MAIL

September 21, 1999

Mr. Thomas M. Gilligan
Omnipoint Communications, Inc.
100 Filley Street
Bloomfield, CT 06002

Dear Mr. Gilligan:

Re: Appl 99-51P, Omnipoint Communications Services

We are pleased to advise you that the Planning & Zoning Commission voted on September 14, 1999 to approve with modifications the above referenced application for a request for a Special Exception to Section XVI for the construction of a 175 ft. multi-carrier telecommunications monopole on property located at 300 Governor's Highway, I zone as shown on plans prepared by Arcnet, Job No. A 99506823A, dated 5/9/99, as revised. This approval is subject to the following modifications:

1. Prior to commencement of any site work, a meeting must be held with Town Staff.
2. No building permit will be issued until the final mylars have been filed in the Town Clerk's office.
3. An as-built plan is required prior to issuance of a Certificate of Occupancy per Section 8.1.10 of the Zoning Regulations.
4. All plans used in the field by the developer must bear the stamp and authorized signature of the Town of South Windsor.
5. Special Exception approval is granted for five years and must be renewed prior to September 14, 2004. The attached Special Exception form must be completed and filed in the Town Clerk's office. The special exception will take effect upon filing.

Black and white transparent mylars of Sheet S-1 with the above modifications, together with three blueprint copies of the entire set of plans must be submitted to this Commission within 30 days to be stamped and signed.

After the mylars have been signed by the Commission, they will be returned to you for filing in the Office of the Town Clerk. After filing these plans, a copy of the receipt must be submitted to the Planning Department.

Sincerely,

Sue W. Larsen Idw

Sue W. Larsen, Chairperson
Planning and Zoning Commission

SL/dlw

Attachment

cc: Town Engineer
Chief Building Official
Assessor
Superintendent of Pollution Control
Fire Marshal

I, Sue W. Larsen, Chairperson of the South Windsor Planning & Zoning Commission, hereby certify that on September 14, 1999, the Planning and Zoning Commission granted to Omnipoint Communications Services a Special Exception to Article XVI of the Zoning Regulations and Resubdivision for the construction of a 175 ft. multi-carrier telecommunications tower on property located at 300 Governor's Highway as shown on plans prepared by Arcnet, Project No. A99506823A.

Assessor's Map and Parcel Number: Map # 71 Parcel #22
More particularly bounded and described as follows:

a certain piece or parcel of land, together with the buildings thereon situated in the Town of South Windsor, County of Hartford and State of Connecticut located on the northerly side of Governor's Highway and shown on a map entitled, "Property Mapped for Raycon, Inc. Governor's Highway, South Windsor, Conn. Scale 1"=100' June 20, 1967 Hayden L. Griswold C.E.", which map is on file in the Town Clerk's Office in said Town of South Windsor to which reference may be had. Said premises are more particularly bounded and described as follows to wit:

Beginning at a point in the northerly line of Governor's Highway at its intersection with the easterly line of land now or formerly of the New York, New Haven & Hartford Railroad Company; thence northerly along the easterly line of land of said New York, New Haven & Hartford Railroad as shown on said map, a distance of 489.23 feet to a point, which point is marked by a merestone; thence easterly along the southerly line of land now or formerly of Harry Goldberg and Edith Goldberg as shown on said map, a distance of 476.62 feet to a point, which point is the northwesterly corner of Parcel "B" as shown on said map, thence southerly along the westerly line of said Parcel "B" as shown on said map, a distance of 480.60 feet to a point, which point is located in the northerly line of Governor's Highway; thence westerly along the northerly line of Governor's Highway, a distance of 511.47 feet to a merestone, the point and place of beginning.

Being the same premises conveyed to John J. Woodcock, Jr. by deed of Surgicot, Inc. dated May 31, 1983 and recorded June 1, 1983 in Volume 337 at Page 302 of the South Windsor Land Records.

Said premises are subject to any and all provisions of any ordinance, municipal regulation or public or private law and building, building line, and zoning restrictions as of record may appear. Said premises are further subject to the taxes on the List of October 1, 1987 which taxes the Grantee herein assumes and agrees to pay as part consideration for this deed. Said premises are further subject to a possible caveat in favor of The Metropolitan District Commission dated October 14, 1963 and recorded October 18, 1963 in Volume 98 at Page 669 of the South Windsor Land Records and also a possible caveat in favor of The Metropolitan District Commission dated July 9, 1963 and recorded July 11, 1963 in Volume 97 at Page 201 of the South Windsor Land Records.

OWNER OF RECORD: Electron Technologies Corporation

Dated at South Windsor, Connecticut this September 27, 1999.

In accordance with CGS Section 8-3d

Sue W. Larsen, Chairperson
Planning & Zoning Commission

Received for record this _____ day of _____, 19____, at

South Windsor, Connecticut

ATTEST:



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

August 8, 2002

Christopher B. Fisher, Esq.
Cuddy & Feder & Worby LLP
90 Maple Avenue
White Plains, NY 10601-5196

RE: **EM-AT&T-132-020701** - AT&T Wireless PCS, LLC d/b/a AT&T Wireless notice of intent to modify an existing telecommunications facility located at 300 Governor's Highway, South Windsor, Connecticut.

Dear Attorney Fisher:


At a public meeting held on August 1, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice received in our office on July 1, 2002. 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. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

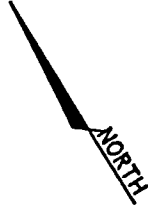
Thank you for your attention and cooperation.

Very truly yours,


Mortimer A. Gelston
Chairman

MAG/laf

c: Honorable William Aman, Mayor, Town of South Windsor
Marcia Banach, Director of Planning, Town of South Windsor
Matthew B. Galligan, Town Manager, Town of South Windsor
Stephen Humes, Esq., LeBoeuf, Lamb, Greene & MacRae



PROPOSED OCS 50' X 50'
CHAIN LINK COMPOUND

PROPOSED OCS
175'-0" MONOPOLE

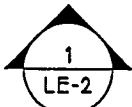
PROPOSED OCS BTS
EQUIPMENT CABINET
MOUNTED TO NEW
CONCRETE SLAB

EXISTING WOODED
AREA

PROPOSED OCS 10'-0"
GRAVEL ACCESS ROAD

PROPOSED
TELCO/ELECTRIC
PANELS

EXISTING GRASSED AREA



EXISTING BUILDING

EXISTING
RAILROAD

EXISTING PAVED
ASPHALT
DRIVEWAY

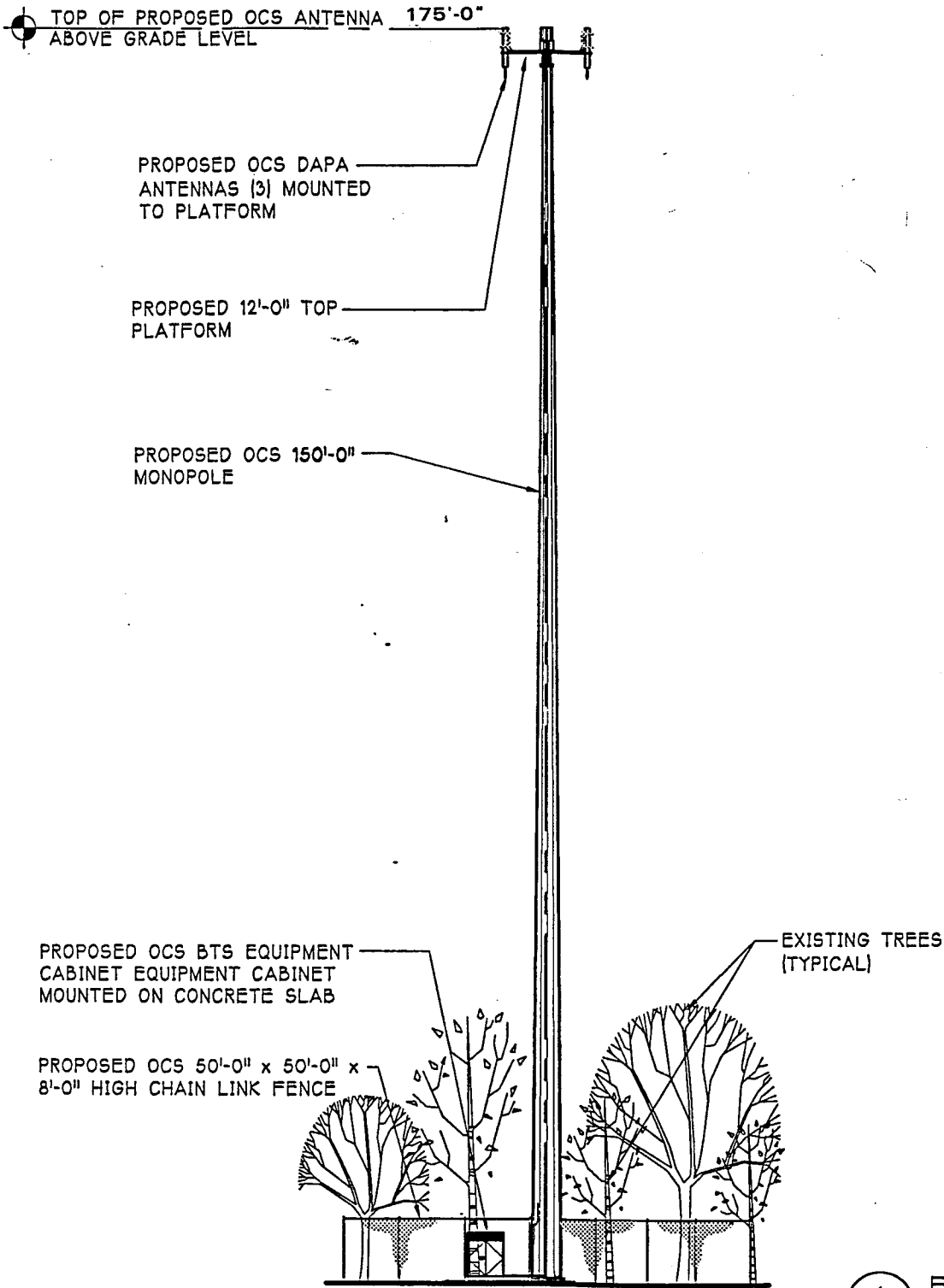
EXISTING PAVED
ASPHALT PARKING
AREA

GOVERNOR'S HIGHWAY

1 SITE LAYOUT
LE-1 SCALE: NOT TO SCALE

NOTE: EXHIBITS SUBMITTED ARE A CONCEPTUAL REPRESENTATION OF THE LEASE AGREEMENT ONLY.
ACTUAL CONSTRUCTION DOCUMENTATION MAY VARY TO COMPLY WITH ALL APPLICABLE CODES.

<p>670 North Beers Street, Building 2, Holmdel, NJ 07733 Tel: 732.739.3200 Fax: 732.739.0440</p>	Drawing Title: SITE LAYOUT		Project: ELECTRON TECHNOLOGIES		
	Client:		Address: 300 GOVERNOR'S HIGHWAY SOUTH WINDSOR, CT		
Search Area: SOUTH WINDSOR/RT. 5 Site ID No.: CT-11-279A	P.C.: JDi	P.C. Chkd.:	Chkd. by:	Approved By: PROJ. MGR: _____ DATE: _____ R.F. ENGR: _____ DATE: _____ SAC: _____ DATE: _____ OWNER: _____ DATE: _____	REV.#1 KK 5/18/99 Revision No. Date Drawing No. LE-1
		ARCNET Project No.: A99.506.823A	Drawn: KK	Date: 3/17/99	



1 ELEVATION
LE-2 SCALE: NOT TO SCALE

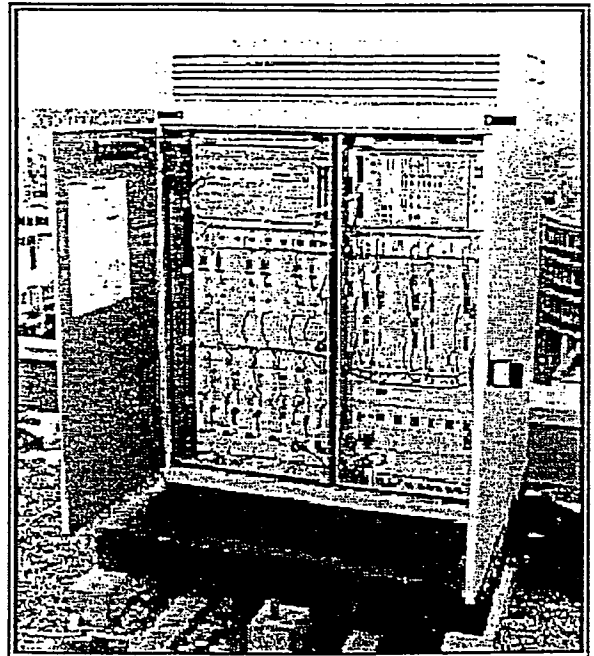
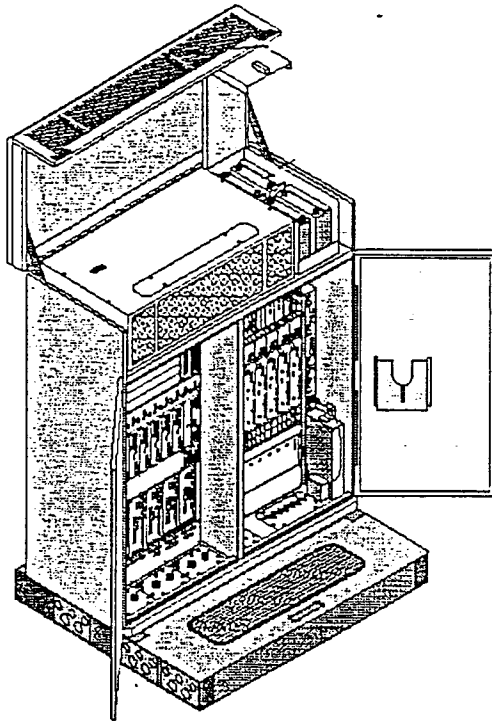
NOTE: EXHIBITS SUBMITTED ARE A CONCEPTUAL REPRESENTATION OF THE LEASE AGREEMENT ONLY. ACTUAL CONSTRUCTION DOCUMENTATION MAY VARY TO COMPLY WITH ALL APPLICABLE CODES.

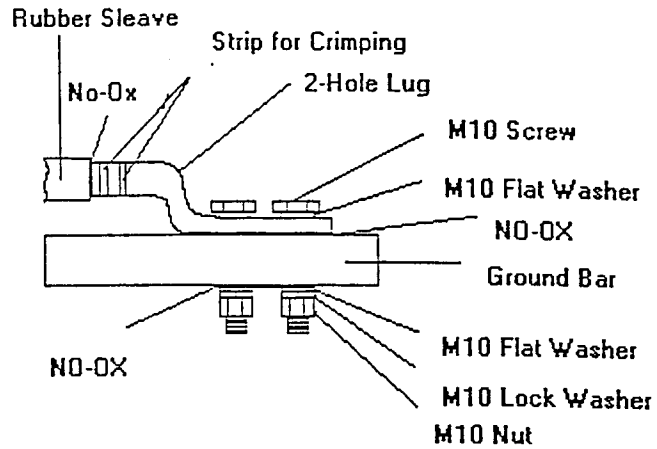
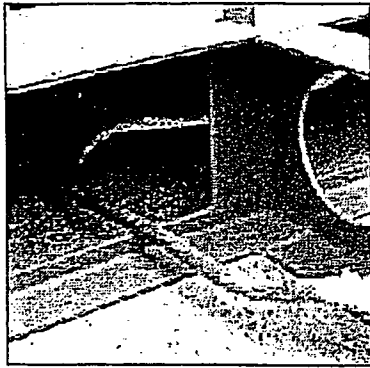
<p>670 North Beers Street, Building 2, Holmdel, NJ 07733 Tel: 732.739.3200 Fax: 732.739.0440</p>	Drawing Title: ELEVATION			Project: ELECTRON TECHNOLOGIES Address: 300 GOVERNOR'S HIGHWAY SOUTH WINDSOR, CT			
	Client:			Approved By: PROJ. MGR: _____ DATE: _____ R.F. ENGR: _____ DATE: _____ SAC: _____ DATE: _____ OWNER: _____ DATE: _____		REV#1	KK 5/18/99
Search Area: SOUTH WINDSOR/RT. 5 Site ID No.: CT-11-279A	P.C.: JDi	P.C. Chkd.:	Chkd. by:	ARCNET Project No.: A99.506.823A	Drawn: KK	Date: 3/17/99	Drawing No.: LE-2

NORTEL
NETWORKS™

S8000 BTS

Site Specifications





Apply a light coating of No Oxidation (NO-OX) to the ground bar area.

Dimensions, Weights & Clearances

BTS

Weight: 915 pounds
 Dimensions: 53.2"W x 26"D x 63"H

Clearances while transporting in building:

Door Access:

Height: 6.6 feet
 Width 3 feet

Corridor Access:

Height: 6.6 feet
 Width: 3.6 feet (straight), 6.6 feet (right angle)

Clearances when installed:

Above: 28 inches for opening of hood
 Rear: 8 inches for installation of outer skin
 Sides: 8 inches for adjustment of door hinges
 Front: 54 inches to open door and technician access

Plinth

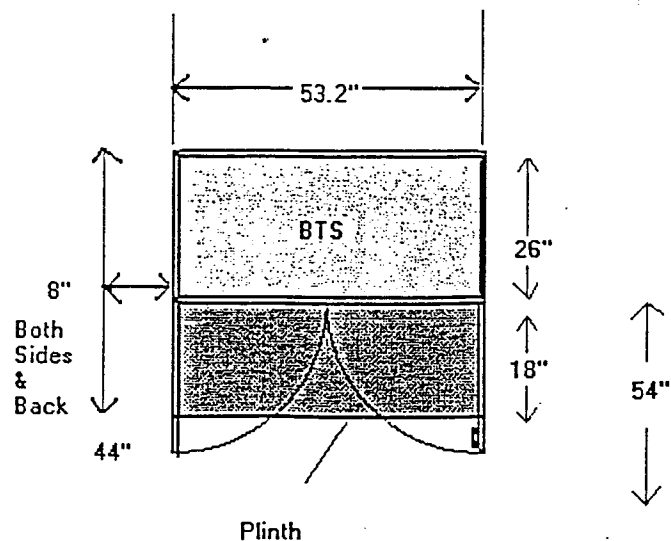
Weight:
 87 pounds

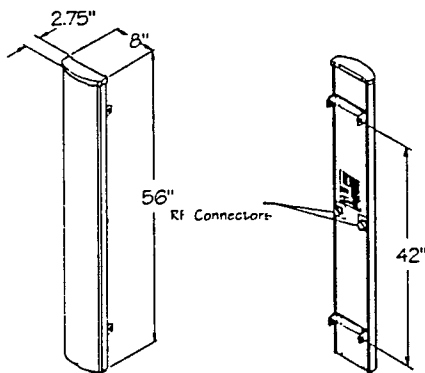
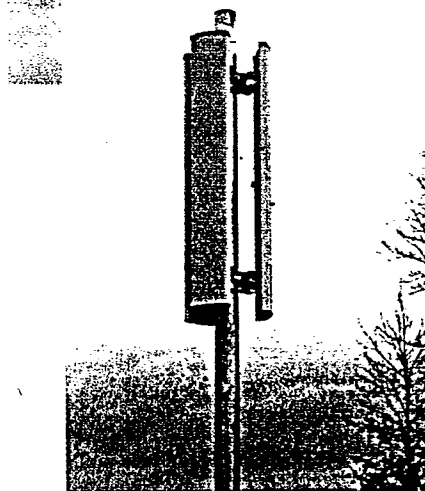
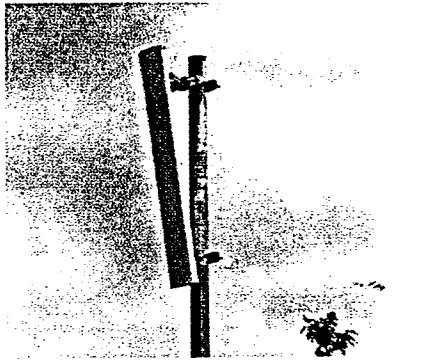
Dimensions:
 53.2"W x 44"D x 10.2"H

Floor Characteristics

Minimum Floor Resistance:
 123 pounds/foot²

Flatness:
 ¼ inch over 78 inches





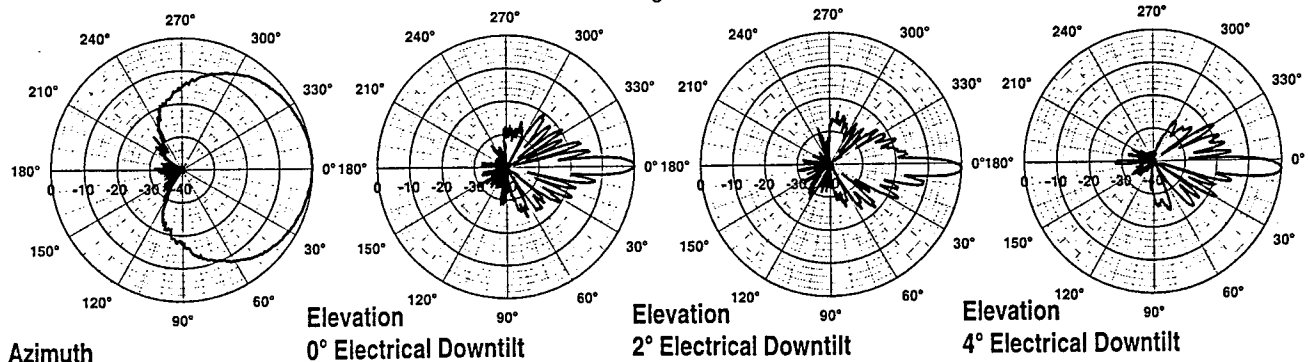
Mechanical Specification	
Parameter	Specification
Dimensions (L x W x D)	56 in x 8 in x 2.75 in (142 cm x 20.3 cm x 7.0 cm)
Rated Wind Velocity	150 mph (241 km/hr)
Equivalent Flat Plate Area	3.1 ft. ² (.29 m ²)
Front Wind Load @ 100 mph (161 kph)	90 lbs (400 N)
Side Wind Load @ 100 mph (161 kph)	31 lbs (139 N)
Weight	18 lbs (8.2 kg)

Electrical Specification	
Parameter	Specification
Azimuth Beamwidth	90°
Elevation Beamwidth	6°
Gain	16.5 dBi (14.4 dBd)
Polarization	Slant, +/-45°
Port-to-Port Isolation	≥ 30 dB
Front-to-Back Ratio	≥ 25 dB (≥ 30 dB Typical)
Electrical Downtilt Options	0°, 2°, 4°, 6°
Power Handling	250 Watts CW
VSWR	1.35:1 Max
Passive Intermodulation	<-147 dBc (2 tone @ +43 dBm {20W} ea.)
Connectors	2; 7-16 DIN (female)
Lightning Protection	Chassis Ground

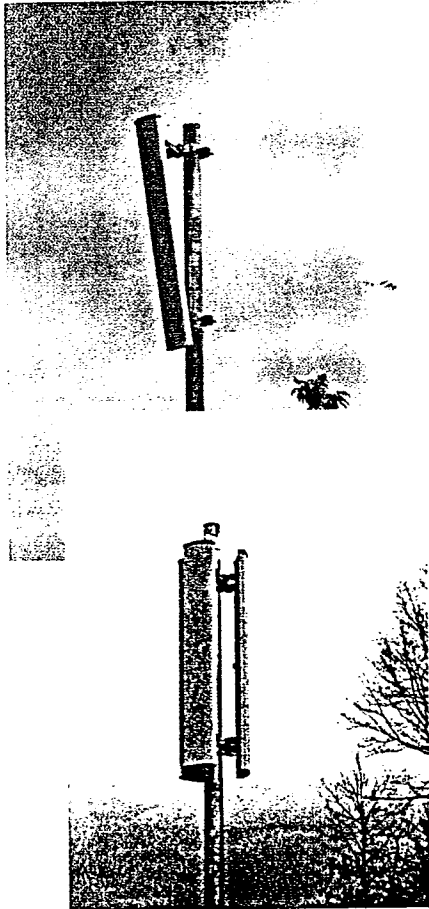
Note: Antenna patterns and electrical specifications are co-polarized data.

Mounting Options		
Model Number	Description	Comments
MTG-P00-10	Standard Mount (Supplied with Antenna)	Mounts to wall <u>or</u> 1.5 inch to 5.0 inch O.D. pole (3.8 cm to 12.7 cm)
MTG-S00-10	Swivel Mount Kit	Wall mounting kit providing +/-30° Azimuth Beam Adjustment
MTG-D10-20	Mechanical Downtilt Kit	0° - 10° Mechanical Downtilt
MTG-D15-20	Mechanical Downtilt Kit	0° - 15° Mechanical Downtilt
MTG-C00-10	Cluster Mount Kit	3 Antennas 120° apart <u>or</u> 2 Antennas 180° apart
MTG-C10-10	Cluster Mount Kit	For use with 10° Downtilt Kit
MTG-C15-10	Cluster Mount Kit	For use with 15° Downtilt Kit

Note: Patent Pending



RR65-18-XXDP



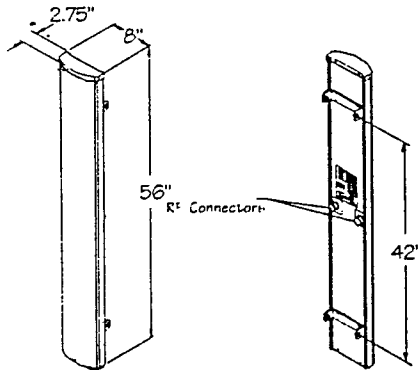
Mechanical Specification

Parameter	Specification
Dimensions (L x W x D)	56 in x 8 in x 2.75 in (142 cm x 20.3 cm x 7.0 cm)
Rated Wind Velocity	150 mph (241 km/hr)
Equivalent Flat Plate Area	3.1 ft. ² (.29 m ²)
Front Wind Load @ 100 mph (161 kph)	90 lbs (400 N)
Side Wind Load @ 100 mph (161 kph)	31 lbs (139 N)
Weight	18 lbs (8.2 kg)
--	--

Electrical Specification

Parameter	Specification
Azimuth Beamwidth	65°
Elevation Beamwidth	6°
Gain	17.5 dBi (15.4 dBd)
Polarization	Slant, +/-45°
Port-to-Port Isolation	≥ 30 dB
Front-to-Back Ratio	≥ 25 dB (≥ 30 dB Typical)
Electrical Downtilt Options	0°, 2°, 4°, 6°
Power Handling	250 Watts CW
VSWR	1.35:1 Max
Passive Intermodulation	<-147 dBc (2 tone @ +43 dBm {20W} ea.)
Connectors	2; 7-16 DIN (female)
Lightning Protection	Chassis Ground

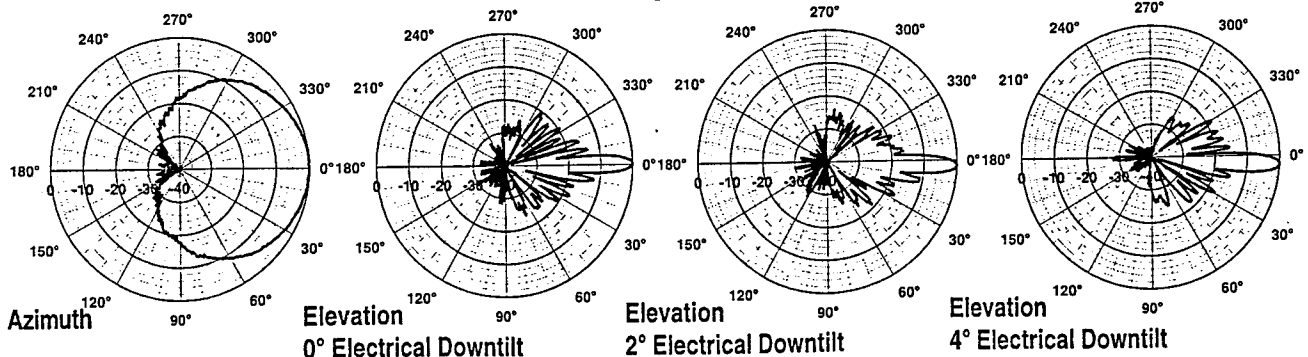
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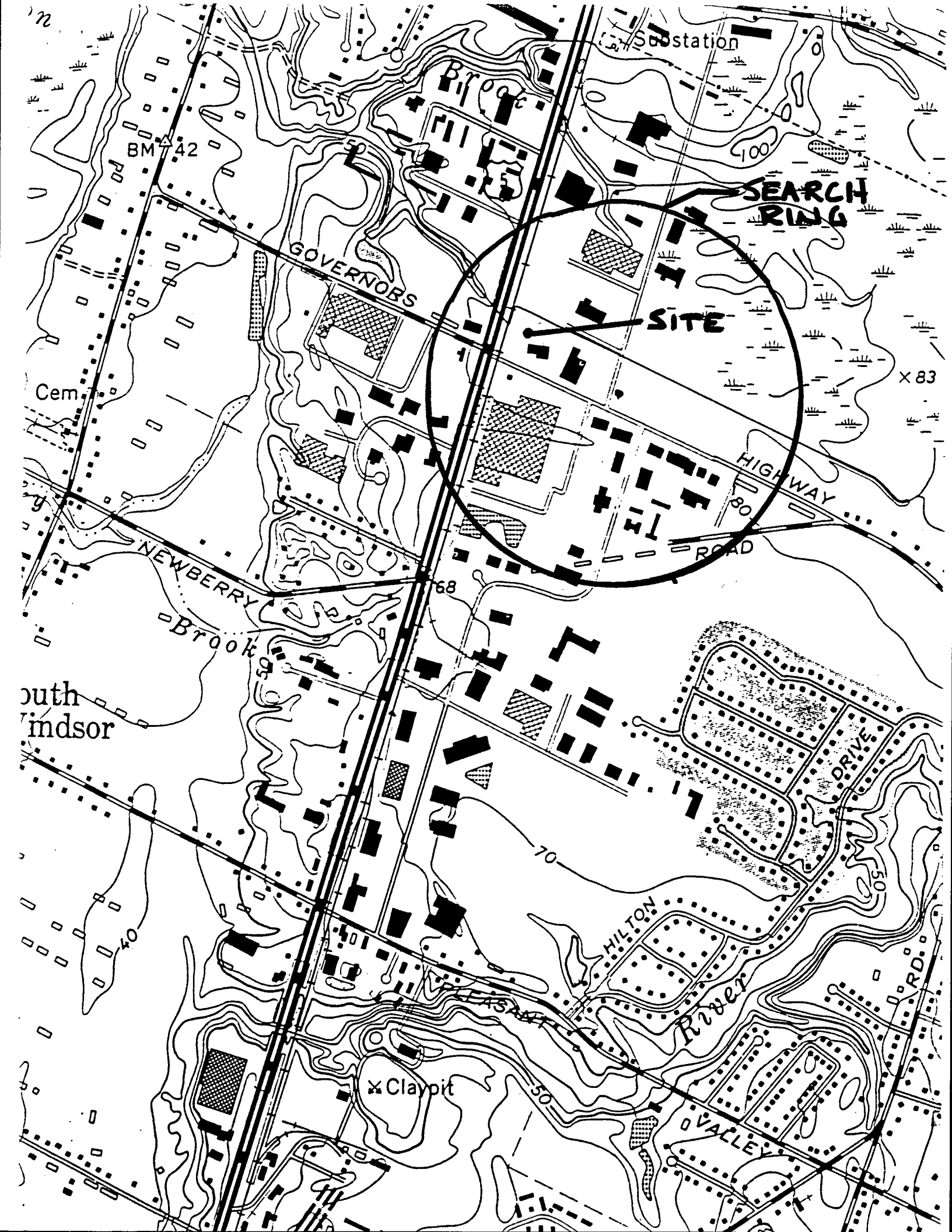


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MTG-D10-20	Mechanical Downtilt Kit	0° - 10° Mechanical Downtilt
MTG-D15-20	Mechanical Downtilt Kit	0° - 15° Mechanical Downtilt
MTG-C00-10	Cluster Mount Kit	3 Antennas 120° apart or 2 Antennas 180° apart
MTG-C10-10	Cluster Mount Kit	For use with 10° Downtilt Kit
MTG-C15-10	Cluster Mount Kit	For use with 15° Downtilt Kit

Note: Patent Pending





Station

BM 42

SEARCH RING

SITE

X 83

GOVERNORS

Cem.

HIGHWAY

ROAD

NEWBERRY Brook

outh Windsor

DRIVE

HILTON River

x Claypit

VALLEY

RD.



WINDSOR

STOUGHTON

SOUTH WINDSOR

WAPPING

BURHAM

EAST HARTFORD

FARMHAMS

WAPPING

NEW WAPPING

BUCKLAND

HARTFORD

WINDSOR

SOUTH WINDSOR

WAPPING

BURHAM

EAST HARTFORD

WINDSOR

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WINDSOR

SOUTH WINDSOR

WAPPING

BURHAM

EAST HARTFORD

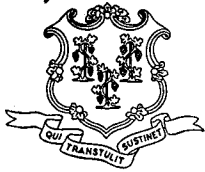
WINDSOR

SOUTH WINDSOR

WAPPING

BURHAM

EAST HARTFORD



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@po.state.ct.us

Web Site: www.state.ct.us/csc/index.htm

July 29, 2003

Honorable William Aman
Mayor
Town of South Windsor
Town Hall
1540 Sullivan Avenue
South Windsor, CT 06074-2786

RECEIVED

JUL 31 2003

SOUTH WINDSOR PLANNING DEPT.

RE: **EM-CING-132-030728** – Southwestern Bell Mobile Systems, LLC notice of intent to modify an existing telecommunications facility located at 300 Governors Street, South Windsor, Connecticut.

Dear Mr. Aman:

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

The Council will consider this item at the next meeting scheduled for August 26, 2003, at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/ld

Enclosure: Notice of Intent

c: Marcia Banach, Director of Planning, Town of South Windsor

Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive



EM-CING-132-030728

July 28, 2003

RECEIVED
JUL 28 2003

CONNECTICUT
SITING COUNCIL

Ms. Pam Katz, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Notice of Exempt Modification – Existing T-Mobile Telecommunications Tower Facility at Governors Street, South Windsor, Connecticut

Dear Chairman Katz:

Southwestern Bell Mobile Systems, LLC ("SBMS") intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower at 300 Governors Street in South Windsor, Connecticut.

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 the Town Manager of South Windsor.

The T-Mobile South Windsor facility is located on the east side of US Hwy 5, approximately 2 miles north of its intersection with I-291. Tower coordinates (NAD 83) are N 41° 49' 48" and W 72° 36' 00". The facility is owned and operated by T-Mobile USA ("T-Mobile"), with offices at 4 Sylvan Way, Parsippany, New Jersey 07054. T-Mobile leases the land from Electron Technologies Corporation of South Windsor.

SBMS, the local component of the nationwide Cingular Wireless network, is licensed by the Federal Communications Commission ("FCC") to provide cellular mobile telephone service in the Hartford, CT Metropolitan Statistical Area, which includes the area to be served by SBMS' proposed installation. The public need for cellular service has been predetermined by the FCC.

T-Mobile is in agreement with plans put forth by SBMS pursuant to mutually acceptable terms and conditions and has also authorized SBMS to obtain necessary government approvals. While the two companies have not yet concluded a final written agreement at this writing, T-Mobile has authorized SBMS to proceed with this application in expectation of

timely progress.

Attached to this Notice are a site location map, a proposed site plan, the proposed tower profile, and a structural analysis report that shows the tower is structurally capable of supporting the proposed SBMS telecommunications equipment.

The South Windsor Planning & Zoning Commission granted a Special Exception for the T-Mobile facility on September 14, 1999. The facility came under Council jurisdiction with AT&T's application to co-locate in EM-AT&T-132-020701, which was approved on August 1, 2002

The Governors Street facility consists of a 175-foot monopole within a roughly 45' x 50' notched rectangular compound surrounded by a 6-ft high chain link fence. T-Mobile operates its own antennas and telecommunications equipment at the site, and it has also leased tower and ground space to AT&T. T-Mobile has panel antennas at the top of the monopole and equipment cabinets mounted on a raised metal platform. AT&T operates antennas at the 152' level of the tower and has its equipment on a concrete pad.

As shown on the attached drawings and as further described below, SBMS proposes to install up to twelve CSS DUO4-8670 panel antennas, approximately 48 inches in height, with the center of radiation approximately 162 feet above ground level. Associated equipment to be installed on the tower are up to six ADC Co. dual-band tower top amplifiers ("TTA's"; small metal boxes approximately 26 pounds apiece) immediately behind the antennas, and up to three very small (5 pounds apiece) CSS dual-band "combiners." SBMS also proposes to install a 12' x 20' equipment building at grade beside the tower. All work will be done inside the existing fenced compound.

With the GSM-only configuration, SBMS will broadcast up to:

- 2 channels, 296 Watts ERP, 880 – 894 MHz; and
- 2 channels, 427 Watts ERP, 1930 – 1935 MHz.

Statutory Considerations

The changes to the South Windsor 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 on property leased by T-Mobile and within the existing fenced compound.

3. The proposed additions will not increase the noise level at the existing facility by six decibels or more.

4. Operation of the additional antennas will not increase the total radio frequency electromagnetic radiation power density, measured at the tower base, to or above the standard adopted by the State of Connecticut and the FCC. The "worst-case" exposure calculation in accordance with FCC OET Bulletin No. 65 (1997) for a point of interest at the base of the tower in relation to the operation of the currently proposed antenna array is as follows:

Company	Centerline Height (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density [†] (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
T-Mobile *	172	1930 - 1945	12	250	0.0365	1.0000	3.65
Cingular GSM	162	880 - 894	2	296	0.0081	0.5867	1.38
Cingular GSM	162	1930 - 1935	2	427	0.0117	1.0000	1.17
AT&T *	152	D: 1945 E: 1985	12	250	0.0467	1.0000	4.67
Total							10.9%

* Power density parameters taken from AT&T's application to the Council in EM-AT&T-132-020701.

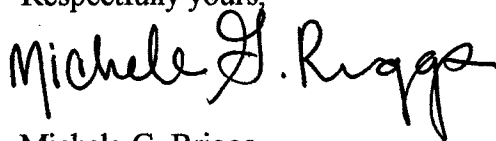
† Please note that the standard power density equation provided by the Council in its memo of January 22, 2001 incorporates a ground reflection factor of 2.56 (i.e., the square of 1.6) as described in FCC OET Bulletin No. 65.

As the table demonstrates, the cumulative "worst-case" exposure would be approximately 10.9 % of the ANSI/IEEE standard, as calculated for mixed frequency sites. Total power density levels resulting from SBMS' use of the tower facility would thus be within applicable standards.

For the foregoing reasons, SBMS respectfully submits that proposed changes to implement expanded shared use at the South Windsor site constitute an exempt modification under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7700 with questions concerning this application. Thank you for your consideration in this matter.

Respectfully yours,



Michele G. Briggs
Manager of Real Estate

Enclosures

cc: Matthew B. Galligan, Town Manager, Town of South Windsor



Rebecca Smiley
Site Marketing Coordinator

July 17, 2003

RE: Letter of Authorization – Collocation on T-Mobile tower.

Property address: 300 Governors Highway, South Windsor, CT 06074

To Whom It May Concern:

Southwestern Bell Mobile Systems, LLC, a part of the Cingular Wireless System ("Cingular") is currently in negotiations with Omnipoint Communications, Inc, a subsidiary of T-Mobile USA, Inc ("T-Mobile"), to co-locate its communications equipment on the T-Mobile tower located at 300 Governors Highway, South Windsor, CT 06074.

Cingular shall be required by the terms of the agreement to seek and obtain all necessary local permits and approvals. As a duly authorized representative of T-Mobile, permission is hereby granted to Cingular, and agents thereof, for the purpose of consummating any applications necessary to gain the required approvals from the Town of South Windsor and/or the State of Connecticut.

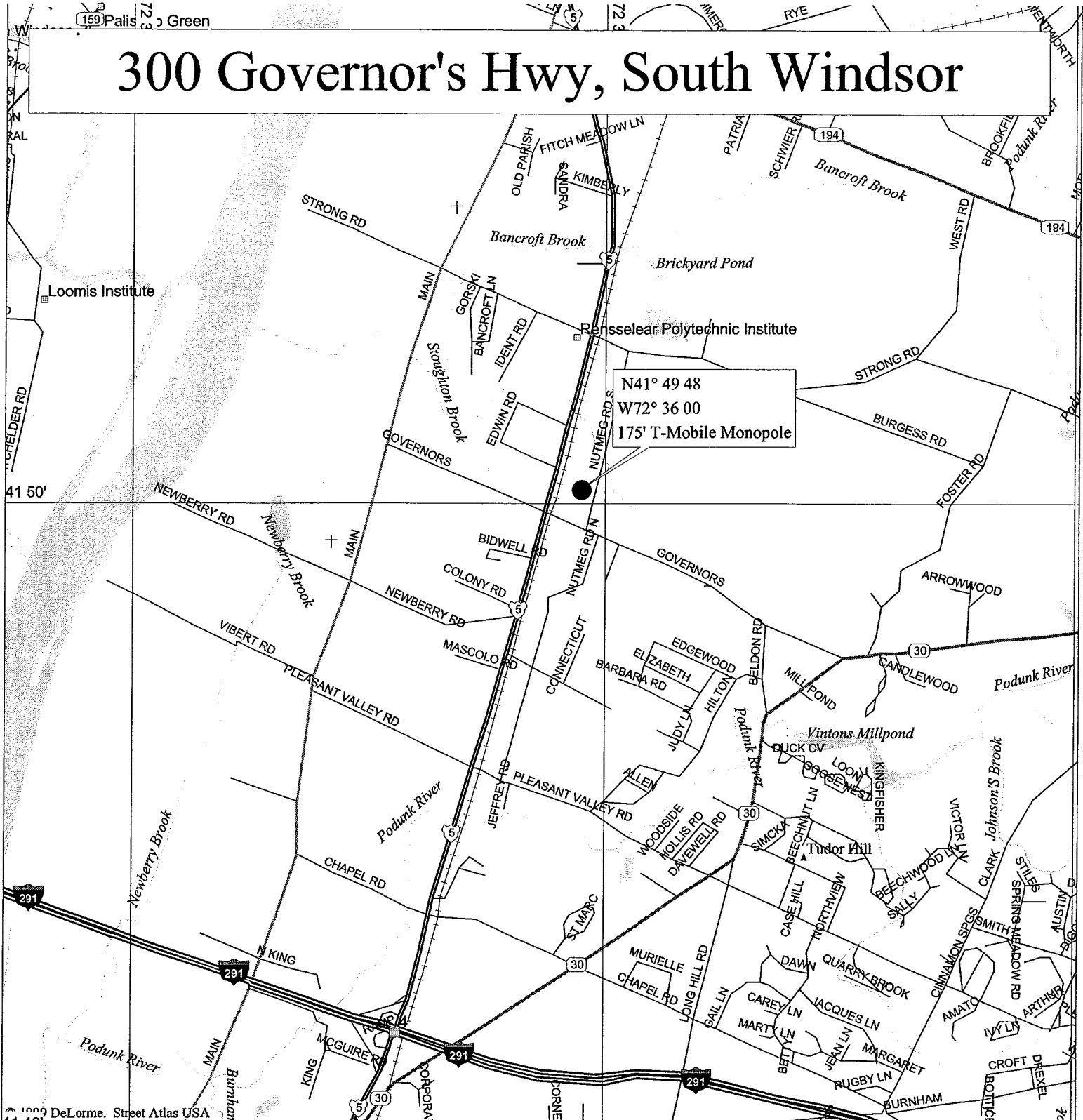
Any fees or charges associated with all applications or permits and any conditions placed on the applicant shall be the sole responsibility of Cingular.

Yours truly,

A handwritten signature in cursive script that reads "Rebecca Smiley".

Rebecca Smiley
Co-Location Specialist, Northeast
T-Mobile USA, Inc.
(973) 898-8588

300 Governor's Hwy, South Windsor



Mag 14.00
 Thu Jul 17 14:48 2003
 Scale 1:31,250 (at center)
 2000 Feet
 1000 Meters

- Local Road
- Primary State Route
- US Highway
- Interstate/Limited Access
- Major Connector
- State Route
- Exit
- Railroad
- Point of Interest
- Summit
- Cemetery
- Land
- Water
- River/Canal

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1
L-2

PROPOSED SEDIMENTATION CONTROL BARRIER

PROPOSED 11'-6"x20'-0"
CINGULAR WIRELESS
EQUIPMENT BUILDING ON
CONCRETE PIERS

PROPOSED CINGULAR
WIRELESS ICE BRIDGE

EXISTING RAISED METAL PLATFORM
WITH HANDRAILS

EXISTING STEEL
MONOPOLE

EXISTING AT&T ICE
BRIDGE

EXISTING AT&T
EQUIPMENT ON
CONCRETE PAD

EXISTING STAIRS

PROPOSED
CINGULAR WIRELESS
ANTENNAS, AMPLIFIERS AND
LOW PROFILE PLATFORM

EXISTING T-MOBILE
ICE BRIDGE

EXISTING T-MOBILE
EQUIPMENT ON METAL
PLATFORM

EXISTING AT&T
UTILITY RACK

EXISTING
TRANSFORMER

EXISTING
TELEPHONE
MANHOLE

EXISTING ELECTRIC AND
TELCO BACKBOARD

EXISTING CHAIN
LINK FENCE

EXISTING DOUBLE
LEAF GATE

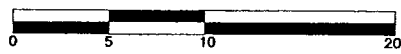


SECTOR 1
23°

SECTOR 3
263°

SECTOR 2
143°

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



ANTENNA ORIENTATION KEY

PROJECT NO.
36917560
Designed by:
Drawn by: BAL
Checked by:
Approved by:

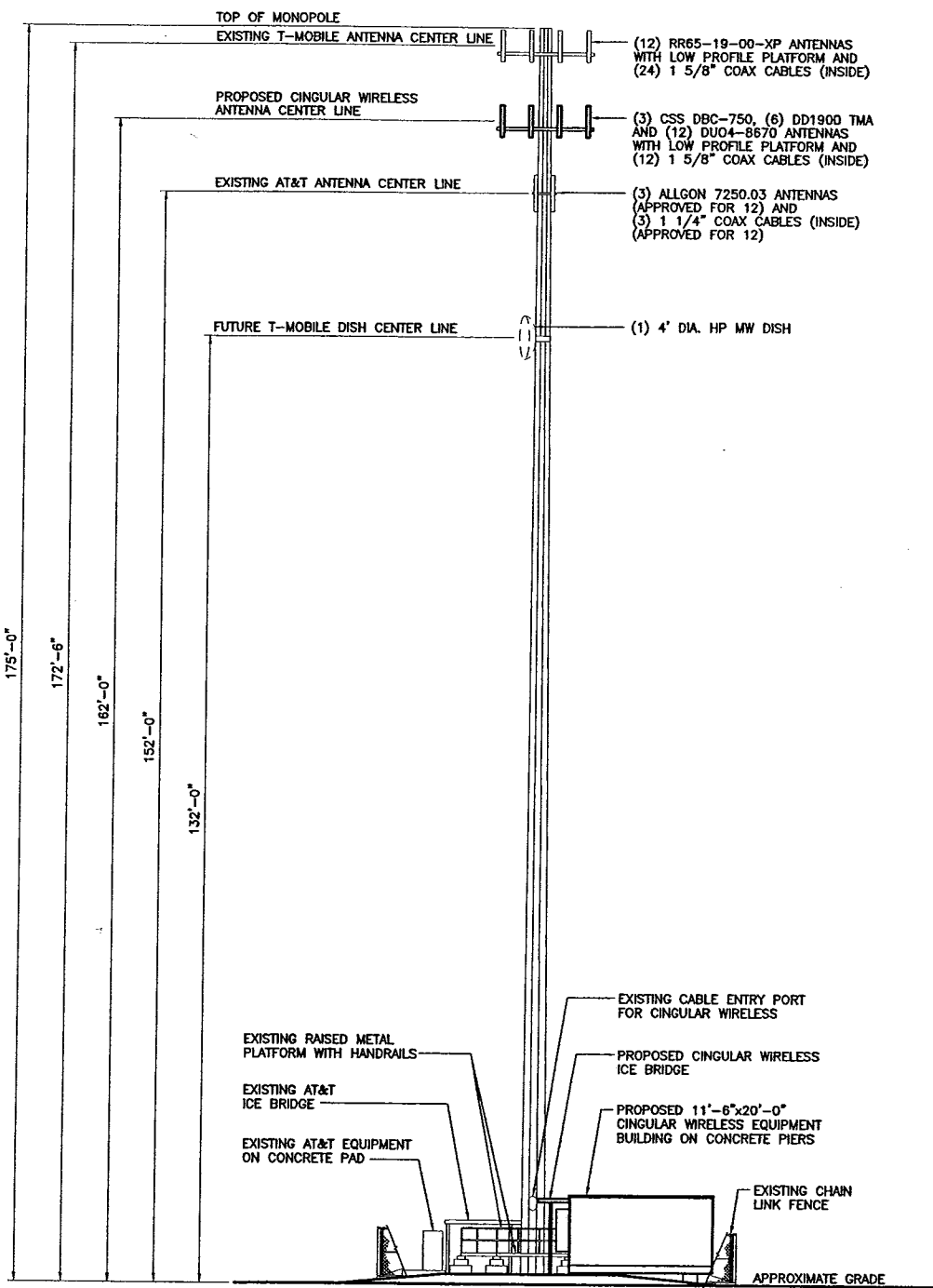
URS CORPORATION AES
795 BROOK STREET, BLDG 5
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

cingular
WIRELESS
WIRELESS COMMUNICATIONS FACILITY
300 GOVERNORS STREET
SOUTH WINDSOR, CONNECTICUT
T-MOBILE SITE NO. CT11279D

REV.	DATE	DESCRIPTION

Scale: AS NOTED Date: 07-10-03
Job No. CW1-009 File No. L-1

Dwg. No.
L-1
Dwg. 1 of 2



- (12) RR65-19-00-XP ANTENNAS WITH LOW PROFILE PLATFORM AND (24) 1 5/8" COAX CABLES (INSIDE)
- (3) CSS DBC-750, (6) DD1900 TMA AND (12) DUO4-8670 ANTENNAS WITH LOW PROFILE PLATFORM AND (12) 1 5/8" COAX CABLES (INSIDE)
- (3) ALLGON 7250.03 ANTENNAS (APPROVED FOR 12) AND (3) 1 1/4" COAX CABLES (INSIDE) (APPROVED FOR 12)

(1) 4' DIA. HP MW DISH

1 TOWER ELEVATION
L-2 SCALE: 1"=25'-0"



PROJECT NO.
36917560
Designed by:
Drawn by: BAL
Checked by:
Approved by:

URS CORPORATION AES
795 BROOK STREET, BLDG 5
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

X cingular
WIRELESS
WIRELESS COMMUNICATIONS FACILITY
300 GOVERNORS STREET
SOUTH WINDSOR, CONNECTICUT
T-MOBILE SITE NO. CT11279D

REV.	DATE:	DESCRIPTION

Scale: AS NOTED Date: 07-10-03
Job No. CW1-009 File No. L-2

Dwg. No.
L-2
Dwg. 2 of 2

1047 N. 204th Avenue
Elkhorn, NE 68022
Ph: 402-289-1888
Fax: 402-289-1861

SEMAAN ENGINEERING SOLUTIONS

175 ft EEI Monopole
Structural Analysis

Prepared for:
T-Mobile USA
12920 SE 38th Street
Bellevue, WA 98006

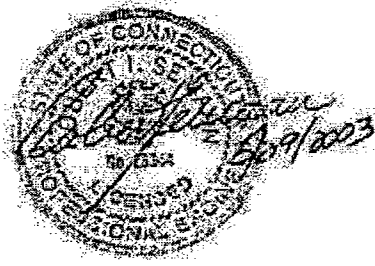


Site Marketing Department

Approved *P. Flanagan* 6/3/03

Denied _____

Site: CT11279D / South Windsor / Cingular
South Windsor, CT



May 28, 2003

Mr. Joseph Laurenzano
T-Mobile USA
12820 SE 38th Street
Bellevue, WA 98006

Re: Site Number CT11279D - South Windsor - Cingular South Windsor, CT.

Dear Mr. Laurenzano:

We have completed the structural analysis for the existing monopole located at the above referenced site. The purpose of this analysis is to determine that the existing monopole design is in conformance with the EIA/TIA-222-F standard for the proposed antennae loads installation. Refer to the Review and Recommendations section at the end of this report for the analysis results.

Description of Structure:

The structure is a 169 ft EEI Monopole mounted on a 4 ft steel frame.

Refer to EEI drawing job #99-1371 Rev. 1 dated January 31, 2000 for a detailed description of the structure.

Method of analysis:

The tower was analyzed using Semaan Engineering Solutions' software suite for communication structures. The structural analysis is performed using the SAPS finite element engine. The method is 3D, non-linear, which accounts for the second order geometric effects due to the displacements. It also treats guys as exact cable elements and therefore is ideal for guyed towers. The analysis was performed in conformance with EIA/TIA-222-F for a basic wind speed of 80 mph and 1/2" radial ice with reduced wind speed. Wind is applied to the structure, accessories and antennas.

Structure loading:

Per the loading sheet supplied, the analysis was performed using the following loading: (Proposed loading in bold)

Elev. (ft)	Qty.	Antennas and Mounts	Coax	Owner
172.5	12	RR65-19-00XP w/Artech LNAs Mounted On a EEI Low Profile platform	(24) 1-5/8 (Inside)	T-Mobile
162.0	3	CSS DBC-750 Mounted On a Low Profile platform		Cingular
162.0	6	DD1900 TMA Mounted On Same Low Profile platform		Cingular
162.0	12	DUO4-8670 Mounted On Same Low Profile platform	(12) 1-5/8 (Inside)	Cingular
152.0	12	Algon 7250.03 Mounted On a Low Profile platform	(12) 1-3/4 (Inside)	AT&T
132.0	1	HP MW Dish, 4 Dia.	(1) 1-5/8 (Inside)	T-Mobile

All new access holes shall be reinforced with welded rims that are compatible with the pole and to be sized and supplied by pole manufacturer.

All transmission lines are assumed running inside of pole shaft.

T-Mobile
Site Marketing Department
PB Flanagan 4/3/03

Results of Analysis:

Refer to the attached Computer Summary sheets for details.

Approved

Structure:

Denied

The existing pole shaft is slightly overstressed at elevation 30 ft by 5.0%. This amount of overstress is considered acceptable. Therefore, the existing monopole is structurally capable of supporting the proposed antennas. The maximum structure usage is: 105.0%.

Foundation:

Pole Reactions	Original Design Reactions	Current Analysis Reactions	% Of Design
Moment (ft-lbs)	2,577.60	2,673.65	103.7
Shear (kips)	20.00	20.93	104.7

The reactions calculated from the analysis slightly exceed the ones indicated on the original structural design. However, the excess amount is within acceptable engineering tolerances.

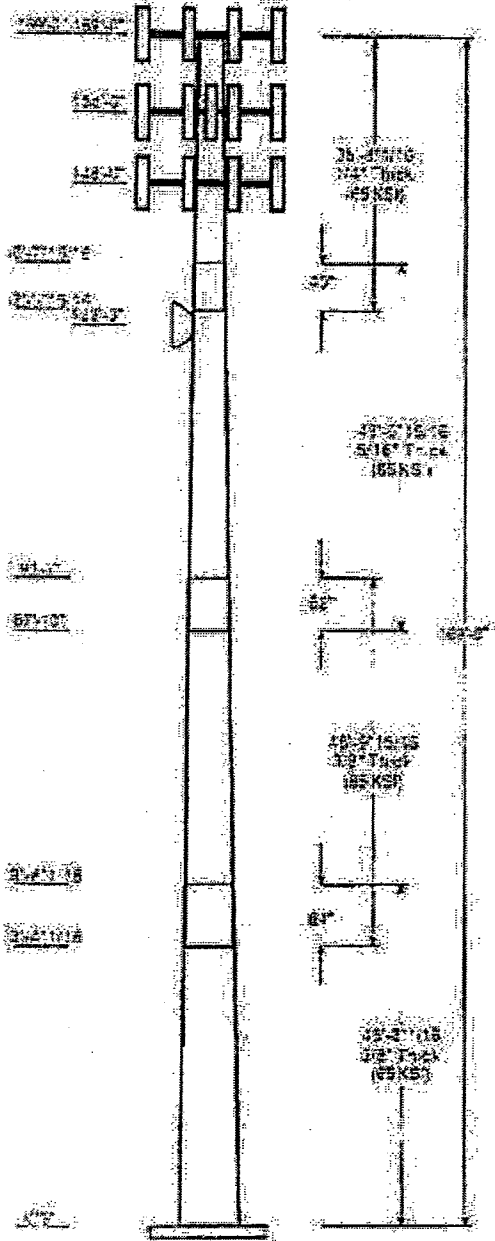
Review and Recommendations:

Based on the analysis results, the existing structure meets the requirements per the EIA/TIA-222-F standards for a basic wind speed of 30 mph and 1/2" radial ice with reduced wind speed.

SEAMAN ENGINEERING SOLUTIONS

1047 M. 214 - Avonlea
 P.O. Box 525822
 Phoenix, AZ 85052-5822
 Phone: 480-259-1525
 Fax: 480-259-1267

12377 957273747 13442222222222



Job Information	
Proj:	DT112790
Description:	
Client:	T-Mobile USA-WA
Location:	South Windsor, AT&T South Windsor, CT
Type:	18 Sides Base Elev (ft): 4.00
Height (ft):	169.00 Tower: 0.188510 (ft/ft)

Sections Properties						
Shft Section	Length (ft)	Diameter (in)		Track Joint Type	Overlap Length (in)	Steel Taper Grade (ksi)
		Top	Bottom			
1	48.675	36.32	45.50	3.375	2.000	0.188510
2	48.531	29.36	38.07	2.375 Slip Joint	64.000	0.188510
3	48.531	21.19	30.39	2.375 Slip Joint	52.000	0.188510
4	35.675	15.50	22.27	2.375 Slip Joint	40.000	0.188510

Discrete Appurtenance					
Attach Elev (ft)	Force Elev (ft)	Type	Qty	Description	
169.000	169.000	Panel	12	RR03-19-00XP w/Altech LMA's	
129.000	159.000	Platform	1	EEL Low Profile platform	
158.000	158.000	Panel	12	DU04-0670	
158.000	158.000	Platform	1	Low Profile platform	
156.000	156.000	Panel	5	DD1900-TMA	
158.000	158.000	Panel	3	CSS DBC-753	
148.000	148.000	Platform	1	Low Profile platform	
148.000	148.000	Panel	12	Allgan T250.03	
128.000	128.000	Dish	1	HP/MW Dish 4' Dia.	

Load Cases / Deflections			
Load Case	Attach Elev (ft)	Translation (in)	Rotation (deg)
No Ice			
No ice Wind Speed = 30.00 mph w/ No ice			
	169.000	194.80	-10.543
	158.000	170.50	-10.521
	148.000	145.92	-10.124
	128.000	103.27	-8.798
Ice			
Ice Wind Speed = 57.25 mph w/ Ice 0.56 in Thick			
	169.000	188.59	-9.324
	158.000	147.89	-9.203
	148.000	125.86	-8.858
	128.000	93.77	-7.651

Reactions			
Load Case	Moment (Kip-ft)	Shear (Kips)	Axis (Kips)
No Ice	2,673,654	20,931	25,741
Ice	2,265,451	18,988	32,563



Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7700
Fax: (860) 513-7190

Michele G. Briggs
Manager of Real Estate

July 28, 2003

Matthew B. Galligan, Town Manager
Town Hall, 1540 Sullivan Ave.
South Windsor, Connecticut 06074

**Re: Notice of Exempt Modification – Existing T-Mobile Telecommunications Tower Facility at
Governors Street, South Windsor, Connecticut**

Dear Mr. Galligan:

Southwestern Bell Mobile Systems, LLC (“SBMS”) intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower at Governors Street in South Windsor, Connecticut.

The facility is owned and operated by T-Mobile USA (“T-Mobile”), with offices at 4 Sylvan Way, Parsippany, New Jersey 07054. T-Mobile leases the land from Electron Technologies Corporation of South Windsor.

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 South Windsor 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 SBMS 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 the undersigned or Mr. Derek Phelps, Executive Director of the Connecticut Siting Council, at (860) 827-2935.

Sincerely,

Michele G. Briggs
Manager of Real Estate

Enclosure

From: Cornwall, Amanda [mailto:Amanda.Cornwall@crowncastle.com]
Sent: Friday, March 03, 2017 2:37 PM
To: CSC-DL Siting Council
Subject: em-sSPRINT-132-170224-IncompleteLtr_GovernorsHighway_SouthWindsor

Good afternoon,

Attached please find per you letter, a copy of the letter that was sent to the Director of Planning for the Town of South Windsor and a copy of the tracking information for the second attempt at notifying the Director. Please advise as to whether the Connecticut Siting Council would like a hard copy of the tracking information.

Thank you,

AMANDA CORNWALL

Real Estate Specialist

T: (339) 205-7017 | M: (978) 790-8547 | F: (724) 416-4185

Amanda.Cornwall@crowncastle.com

CROWN CASTLE

12 Gill Street, Suite 5800, Woburn, MA 01801

CrownCastle.com

This email may contain confidential or privileged material. Use or disclosure of it by anyone other than the recipient is unauthorized. If you are not an intended recipient, please delete this email.

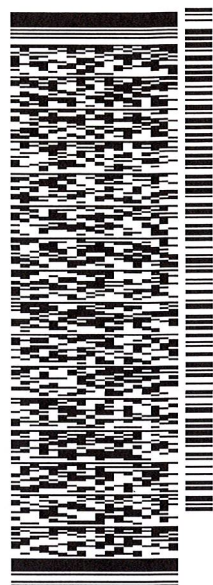
ORIGIN ID: BEDA (339) 205-7017
AMANDA GOODPALL
CROWN CASTLE
12 GILL STREET
WOBURN, MA 01801
UNITED STATES US

SHIP DATE: 03MAR17
ACTWGT: 0.50 LB
CAD: 104924191/INET3850
BILL SENDER

TO MICHELE LIPE
DIRECTOR OF PLANNING
1540 SULLIVAN AVENUE

SOUTH WINDSOR CT 06074
(860) 644-2511 X 329
REF: 1766 6890

INV: DEPT:
PO:



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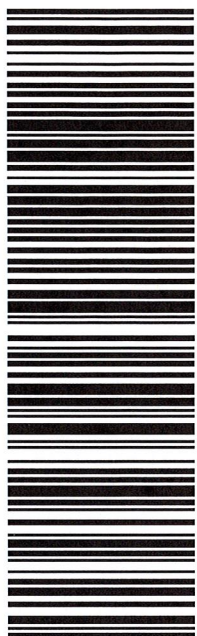
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MON - 06 MAR 10:30A
PRIORITY OVERNIGHT

SE QCWA

06074
CT-US BDL



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Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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Crown Castle
12 Gill Street, Suite 5800
Woburn, MA 01801

February 23, 2017

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

RE: Notice of Exempt Modification for Sprint / Crown Site BU: 828054
Sprint Site ID: CT60XC014
Located at: 300 Governors Highway, South Windsor, CT 06903
Latitude: 41° 6' 6.35"/ Longitude: -73° 35' 41.45"

Dear Ms. Bachman,

Sprint currently maintains three (3) antennas at the 148-foot level of the existing 165-foot monopole at 300 Governors Highway, South Windsor, CT. The tower is owned by Crown Castle. The property is owned by Electron Technologies. Sprint now intends to replace three (3) antennas with three (3) RFS antennas. Sprint also intends to replace feedlines with three (3) hybrid lines and install three (3) 800MHz RRUs and three (3) 1900MHz RRUs. Please note that two structural analysis have been provided in order to show modifications that will be completed on the tower in order to ensure that the tower will remain at sufficient capacity. Sprint will be taking responsibility for said modification that is depicted on the other carrier's structural analysis.

A request for original zoning documents was sent to the Town of South Windsor but has not been answered.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16-50j-72(b)(2). In accordance with R.S.C.A. § 16-50j-73, a copy of this letter is being sent to the Honorable Carolyn Mirek, Mayor, Town of South Windsor, Michele Lipe, Director of Planning, as well as the property owner and the tower owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modification will not require the extension of the site boundary.

The Foundation for a Wireless World.
CrownCastle.com

3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Sprint respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Amanda Cornwall.

Sincerely,

Amanda Cornwall

Real Estate Specialist

12 Gill Street, Suite 5800, Woburn, MA 01801

339-205-7017

Amanda.Cornwall@crowncastle.com

Attachments:

Tab 1: Exhibit-1: Compound plan and elevation depicting the planned changes

Tab 2: Exhibit-2: Structural Modification Report

Tab 3: Exhibit-3: General Power Density Table report (RF Emissions Analysis Report)

cc: The Honorable Carolyn Mirek, Mayor, Town of South Windsor
1540 Sullivan Avenue
South Windsor, CT 06074

Electron Technologies Corp.
300 Governors Highway
PO Box 316
South Windsor, CT 06074

Melanie A. Bachman

February 23, 2017

Page 3

Michele Lipe-Director of Planning

1540 Sullivan Avenue

South Windsor, CT 06074

Crown Castle (Tower Owner)

12 Gill Street, Suite 5800

Woburn, Ma 01801