



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

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

December 22, 1999

Julie M. Cashin, Esq.  
Hurwitz & Sagarin, LLC  
147 North Broad Street  
Milford, CT 06460-0112

RE: EM-SPRINT-077-991208 - Sprint PCS notice of intent to modify an existing telecommunications facility located at 60 Adams Street in Manchester, Connecticut.

Dear Attorney Cashin:

At a public meeting held on December 15, 1999, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility in Manchester, Connecticut, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here, in your notice dated December 8, 1999, and in additional information dated December 14, 1999 and December 15, 1999. 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 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. 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 No. 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/SLL/sll

cc: Honorable Stephen T. Cassano, Mayor, Town of Manchester  
Sandy M. Carter, Manager - Regulatory, Bell Atlantic Mobile  
Peter W. van Wilgen, Director - Real Estate Operations, SNET Wireless, Inc.  
San J. D'Agostino, Zoning Specialist, LLC International, Inc. fbo Pagenet, Inc.

# HURWITZ & SAGARIN LLC

December 15, 1999

*Via Facsimile*

Steve Levine  
Staff Analyst  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

**RECEIVED**

DEC 16 1999

CONNECTICUT  
SITING COUNCIL

Re: Notice of Exempt Modification  
SNET Telecommunications Facility (owner William B. Thornton)  
60 Adams Street, Manchester, Connecticut

Dear Mr. Levine:

This correspondence is in response to your inquiry regarding the 170 foot lattice tower (please note that this tower is erroneously depicted on Sprint's site plans as being an "80' lattice tower") which currently exists within the same compound as the 140 foot monopole that is the subject of the above referenced exempt modification. You have requested information as to when the lattice tower will be removed. I have spoken with Ken Baldwin, attorney for Bell Atlantic Mobile, He advises that the lattice tower is scheduled to be removed during the first week of January. Any delay has been the result of the required changeover of the Pagenet equipment.

Please contact me if you have any other questions.

Sincerely,



JULIE M. CASHIN  
JMC/dsw

Cc: Ken Baldwin



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# HURWITZ & SAGARIN, LLC

RECEIVED

## Facsimile Cover Sheet

DEC 14 1999

CONNECTICUT  
SITING COUNCIL

**To:** Steven Levine, Staff Analyst  
**Company:** Connecticut Siting Council  
**Telephone:** 860-827-2935  
**Fax:** 860-827-2950

**From:** Julie M. Cashin  
**Company:** Hurwitz & Sagarin, LLC  
**Phone:** 203-877-8000  
**Fax:** 203-878-9800

RECEIVED

DEC 14 1999

CONNECTICUT  
SITING COUNCIL

**Date:** 12/14/99

**RE: Sprint Spectrum, L.P. - Manchester**

**SUPPLEMENTAL MESSAGE:**

*This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please notice us immediately by telephone and return the original message to us at the above address via the U.S. Postal Service. Thank you.*



Cumulative

**RECEIVED**

DEC 14 1999  
CONNECTICUT  
SITING COUNCIL

Site Name: CT23XC567, 60 Adams St., Manchester, CT  
Tower Height: Overall Tower Height = 140 feet

Operator	Operating Frequency (MHz)	Distance to Target (feet)	Calculated Power Density (mW/cm <sup>2</sup> )	Maximum Permissible Exposure* (mW/cm <sup>2</sup> )	Fraction of MPE (%)
BAM	870-880	90	0.0843 <sup>a</sup>	0.583	14.5%
SNET	880	125	0.0437 <sup>a</sup>	0.5867	7.4%
PageNet	934.5	140	0.0249 <sup>a</sup>	0.623	4.0%
Sprint PCS	1950-1965	115	0.123366	1	12.3%

Total Percentage of Maximum Permissible Exposure **38.2%**

\*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

<sup>a</sup>Information taken from Docket # TS-BAM/SCLP-077-981208.

MHz = Megahertz  
mW/cm<sup>2</sup> = milliwatts per square centimeter  
ERP = Effective Radiated Power



CT23XC567 - Manchester, CT  
 Worst Case Power Density Analysis of Sprint PCS Antennas @ Base of Tower. Assumes Max ERP & No Antenna Pattern Adjustment

1962.5	11	412	4532	115	0	0.123366	1	12.3366%
1962.5	11	412	4532	115	50	0.103753	1	10.3753%
1962.5	11	412	4532	115	100	0.070246	1	7.0248%
1962.5	11	412	4532	115	150	0.045669	1	4.5669%
1962.5	11	412	4532	115	200	0.030653	1	3.0653%
1962.5	11	412	4532	115	250	0.021545	1	2.1545%
1962.5	11	412	4532	115	300	0.015805	1	1.5805%
1962.5	11	412	4532	115	350	0.012021	1	1.2021%
1962.5	11	412	4532	115	400	0.009419	1	0.9419%
1962.5	11	412	4532	115	450	0.007563	1	0.7563%
1962.5	11	412	4532	115	500	0.006198	1	0.6198%

\*Requirements set forth in OET Bulletin 65. Based on NCRP Report No. 86 and ANSI/IEEE C95.1-1992



CT23XC567 - Manchester, CT  
 Worst Case Power Density Analysis of SNET Antennas @ Base of Tower. Assumes Max ERP & No Antenna Pattern Adjustment

870-880	19	100	1900	90	0	0.084444	0.583	14.4845%
870-880	19	100	1900	90	50	0.064528	0.583	11.0683%
870-880	19	100	1900	90	100	0.037790	0.583	6.4820%
870-880	19	100	1900	90	150	0.022353	0.583	3.8341%
870-880	19	100	1900	90	200	0.014220	0.583	2.4392%
870-880	19	100	1900	90	250	0.009688	0.583	1.6618%
870-880	19	100	1900	90	300	0.006972	0.583	1.1960%
870-880	19	100	1900	90	350	0.005237	0.583	0.8983%
870-880	19	100	1900	90	400	0.004069	0.583	0.6979%
870-880	19	100	1900	90	450	0.003248	0.583	0.5571%
870-880	19	100	1900	90	500	0.002650	0.583	0.4546%

\*Requirements set forth in OET Bulletin 65. Based on NCRP Report No. 86 and ANSI/IEEE C95.1-1992



# HURWITZ & SAGARIN LLC

December 8, 1999

RECEIVED

DEC 08 1999

CONNECTICUT  
SITING COUNCIL

*Hand Delivered*

Mr. Joel M. Rinebold  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

Re: Notice of Exempt Modification  
SNET Telecommunications Facility (owner William B. Thornton)  
60 Adams Street, Manchester, Connecticut

Dear Mr. Rinebold:

On behalf of Sprint Spectrum L.P. ("Sprint PCS"), I am pleased to submit this exempt modification application letter. Enclosed are an original plus twenty (20) copies of a petition requesting a determination that the addition of Sprint's antennas and related equipment to a telecommunications facility located at 60 Adams Street, Manchester, Connecticut, satisfies the requirements set forth in R.C.S.A. §16-50j-72(b)(2). A check in the amount of \$500.00 to cover the filing fee for this petition is also enclosed.

The Mayor of the Town of Manchester, Stephen P. Cassano, has been sent notice of this petition by certified mail.

Sincerely,



JULIE M. CASHIN

JMC/dsw

Enc.

cc: Stephen P. Cassano, Mayor

RECEIVED

DEC 08 1999

CONNECTICUT  
SITING COUNCIL

December 8, 1999

Mr. Joel M. Rinebold  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**Re: Notice of Exempt Modification  
SNET Telecommunications Facility  
60 Adams Street  
Manchester, Connecticut**

Dear Mr. Rinebold:

Sprint Spectrum L.P. ("Sprint") hereby requests acknowledgement that Sprint's proposed co-location on a communications tower located at 60 Adams Street, Manchester, Connecticut, ("Adams Street Facility") constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). Sprint submits this request for acknowledgment as agent for the tower owner, Mr. William B. Thornton. A letter of authorization is attached hereto as Exhibit A. Under this request for acknowledgment, Mr. Thornton intends to allow Sprint to install antennas and related equipment at this existing telecommunications facility. Please accept this letter as notification, pursuant to R.C.S.A. § 16-50j-73, of modification to an existing telecommunications tower which constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the Mayor of Manchester, Stephen P. Cassano.

The existing facility consists of a 140-foot monopole and related equipment located at 60 Adams Street, Manchester, Connecticut. This tower currently supports antenna arrays operated by Bell Atlantic Mobile ("BAM"), Pagenet, and SNET. The Siting Council last reviewed this site on December 17, 1998, when it approved BAM's application to co-locate on the subject tower. (See docket # TS-BAM/SCLP-077-981208.)

Sprint plans to attach to the existing tower nine panel antennas, Decibel Model DB980H65E-M, each of which measures approximately five feet in height. A letter dated October 14, 1999 from Engineered Endeavors Incorporated, attached hereto as



Exhibit B, confirms that the existing structure is capable of supporting Sprint's antennas. Sprint may install up to seven equipment cabinets on a frame near the base of the tower within the existing site compound. For the following reasons, the proposed modifications to the Adams Street Facility fall squarely within and satisfy the requirements set forth in R.C.S.A. § 16-50j-72(b)(2):

1. The proposed modifications will not increase the height of the tower. Sprint's antennas will be installed at a centerline of approximately 115 feet above ground level (AGL). Sprint's GPS antenna will be mounted to one of Sprint's equipment cabinets and reach a height of 16 feet AGL. The site plan attached as Exhibit C confirms that the proposed Sprint installation will not increase the overall height of the tower.


2. The installation of Sprint equipment near the base of the tower, as reflected on the attached site plan, will not require an extension of the site boundaries. Sprint's proposed equipment location, fencing, access, and utility routing will be located entirely within the existing site.

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

4. The operation of the additional antennas will not increase the total radio frequency (RF) power density, measured at the site boundary, to a level at or above the applicable standard. The "worst-case" RF power density calculation for a point at the tower base would be 0.123366 mW/cm<sup>2</sup> for the Sprint antennas. The calculated "worst-case" power density for the combined operations at the site is 38.2 % of the standard for general population/uncontrolled exposure.

For the foregoing reasons, Sprint respectfully submits that the proposed addition of Sprint's antennas and equipment at the Manchester facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Julie M. Cashin

cc: Stephen P. Cassano, Mayor  
Bill McElwaine



**SPRINT SPECTRUM L.P.**

Bill Thornton  
1074 Lakeshore Drive  
Jupiter, FL 33458-8318

Sprint Spectrum L.P.  
Crossroads Corporate Center  
One International Blvd., Ste 800  
Mahwah, NJ 07495

CT23XC567, Manchester  
Alt#7, Manchester Materials

RE: Owner's Consent to Testing by Sprint Spectrum L.P. ("SSLP") at 60 Adams Street, Manchester, CT 06040.

Dear Sir/Madame:

We are discussing with you the possibility of leasing property from you for the purpose of installing and operating a PCS cell site. Prior to entering into a lease agreement, SSLP will need your permission to conduct various tests at the Property to determine site suitability. In consideration of the mutual covenants contained herein, please indicate your agreement to the following terms and conditions by signing below.

- 1. Permission to Test.** Owner consents and agrees that SSLP, its employees, agents and independent contractors ("Authorized Parties") may enter upon the Property to conduct and perform any of the following activities ("Permitted Activities"): surveys, geotechnical soil borings and analyses, phase I environmental audits, boundary surveys, radio propagation studies, drive tests, and such other tests and inspections of the Property which SSLP may deem necessary or advisable. SSLP agrees to be responsible for any and all costs related to the Permitted Activities, including installation on and operation and removal of equipment on the Property.
- 2. Filings by SSLP.** Owner consents and agrees that the Authorized Parties may make and file applications on Owner's behalf to such local, state and federal governmental entities whose approval SSLP may consider necessary or advisable to have the Property approved as a tower or antenna site, including, but not limited to, governmental approvals for zoning variances and special permits, rezoning applications, building permits and wetland permits. Owner hereby agrees that an executed copy of this Agreement is as effective as the original. However, if requested by the Authorized Parties, Owner agrees to execute such other and further documents as may be required by the governmental entity in question to evidence Owner's consent to the action which is proposed to be taken.
- 3. Removal of Property.** SSLP agrees that it will, upon the conclusion of the term of this Agreement, remove any equipment installed on the Property as a part of the Permitted Activities, repair any damage to the Property that might have been caused in connection with any of the Permitted Activities, and will return the Property to the condition it was in before SSLP's entry onto the Property. In the event any equipment installed on the Property by SSLP is not timely removed, Owner will have the right to remove such equipment and SSLP agrees to be responsible for the reasonable costs of such removal.
- 4. Indemnity.** SSLP agrees to indemnify, save harmless, and defend Owner, its directors, officers, employees, and property management agent, if any, from and against any and all claims, actions, damages, liability and expense in connection with personal injury and/or damage to property arising from or out of any occurrence in, upon or at the Property caused by the act or omission of the Authorized Parties in conducting the Permitted Activities. Any defense conducted by SSLP of any such claims, actions, damages, liability and expense will be conducted by attorneys chosen by SSLP, and SSLP will be liable for the payment of any and all court costs, expenses of litigation, reasonable attorneys' fees and any judgment that may be entered therein.
- 5. Insurance.** At Owner's request, SSLP agrees to provide a certificate of insurance evidencing SSLP's insurance coverage.

We appreciate your continued cooperation. If you have any questions about the foregoing or about the tests to be conducted, please do not hesitate to contact Tim Craven at the following phone number: (860) 919-2204.

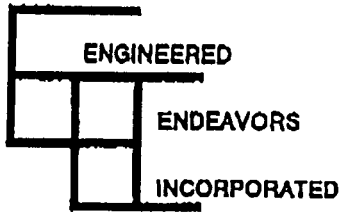
Sincerely,

Don Mueller  
Director Site Development N. East Region

Owner: William B Thornton  
By: William B Thornton  
Name: William B. Thornton  
Title: Owner

Date: 10/26/99





October 14, 1999

Carlo F. Centore  
Nat-Comm  
63-2 North Branford Road  
Branford, CT 06405


Reference: Structural Review of a 140 ft Monopole  
Site Name: Manchester  
EEI Job Number: 5820, Reference Job 4795

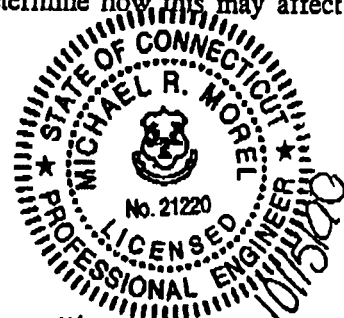
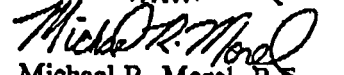
The 140 ft monopole referenced above was reviewed under the proposed loading presented by Carlo Centore with Nat-Comm. This monopole was designed and supplied by Engineered Endeavors, Inc. and depicted in drawing GS51376. The objective of this review is to determine if the monopole can structurally support the desired configuration and meet the requirements of the TIA/EIA 222-F code and Manual of Steel Construction Allowable Stress Design.

The initial design was for a 140 ft monopole with three omnidirectional antennas at 138 ft and three carriers of (12) antennas at the 125, 115 and 90 ft. In lieu of the 115 ft carrier, Sprint PCS is proposing (9) DB 980 directional antennas. The monopole will be subject to less wind load due to the reduced wind area. Therefore, EEI has concluded that the monopole and foundation is adequate to support the proposed loading.

It is the responsibility of Nat-Comm to verify that the monopole reviewed is the correct structure that exists. This review is intended for use with regard to this specific monopole discussed in general herein. Any substantial changes in mounting or loading should be brought to EEI's attention so that we can determine how this may affect our conclusions.

Sincerely,  
Engineered Endeavors, Inc.

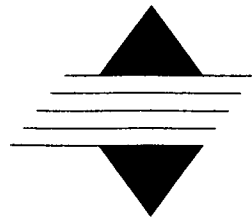
  
Lynn A. Padgett  
Design Engineer

  
  
Michael R. Morel, P.E.  
Vice President, Engineering

ENGINEERED ENDEAVORS, INC.

7610 Jenther Drive ■ Mentor, Ohio 44060  
Telephone: (440) 918-1101 ■ Telefax: (440) 918-1108





# Sprint PCS

## WIRELESS COMMUNICATIONS FACILITY

### CT23XC567

### MANCHESTER

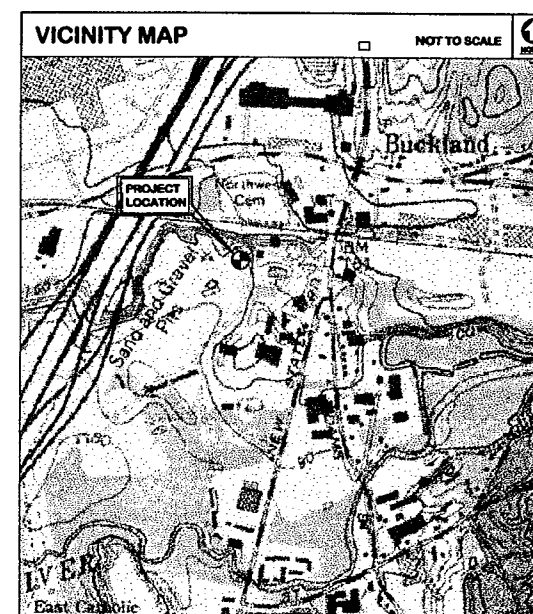
### 60 ADAMS STREET

### MANCHESTER, CONNECTICUT 06040

PROJECT SUMMARY	
SITE NAME:	MANCHESTER
SITE NUMBER:	CT23XC567
SITE ADDRESS:	60 ADAMS STREET MANCHESTER, CONNECTICUT 06040
SITE/PROPERTY OWNER:	MANCHESTER MATERIALS 60 ADAMS STREET MANCHESTER, CONNECTICUT 06040 (860) 646-8076
TENANT:	SPRINT SPECTRUM LP 9 BARNES INDUSTRIAL ROAD WALLINGFORD, CT 06492 (203) 294-5600
CENTER OF TOWER:	LATITUDE: 41° 47' 37" LONGITUDE: 72° 33' 22" GROUND ELEVATION: 100'

GENERAL NOTES
1. PROPOSED ANTENNA AND MOUNTING PLATFORM ELEVATIONS WERE PROVIDED BY SPRINT PCS. EXISTING PLATFORM HEIGHT INFORMATION PROVIDED BY THE SITE OWNER.
2. COMPOUND LAYOUT IS BASED ON INFORMATION OBTAINED FROM SITE VISIT CONDUCTED ON 09/29/99.

SITE DIRECTIONS	FROM WALLINGFORD, CONNECTICUT
-	I-91 NORTH TO I-84 EAST
-	I-84 EAST TO BUCKLAND STREET EXIT
-	TURN RIGHT ON TO BUCKLAND STREET
-	STAY STRAIGHT TO GO ONTO ADAMS STREET



LEGEND	
SYMBOL	DESCRIPTION
	SECTION OR DETAIL NUMBER SHEET WHERE DETAIL/SECTION OCCURS
	ELEVATION NUMBER
	SHEET WHERE ELEVATION OCCURS

SHEET INDEX		
SHT. NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	1
S-1	SITE PLAN	1

**Natcomm, L.L.C.**  
63-2 North Branford Road  
Branford, Connecticut 06405  
Tel. (203) 488-0580  
Fax (203) 488-8587  
Consulting Engineers - Project Management  
Site Acquisition - Communications Installations

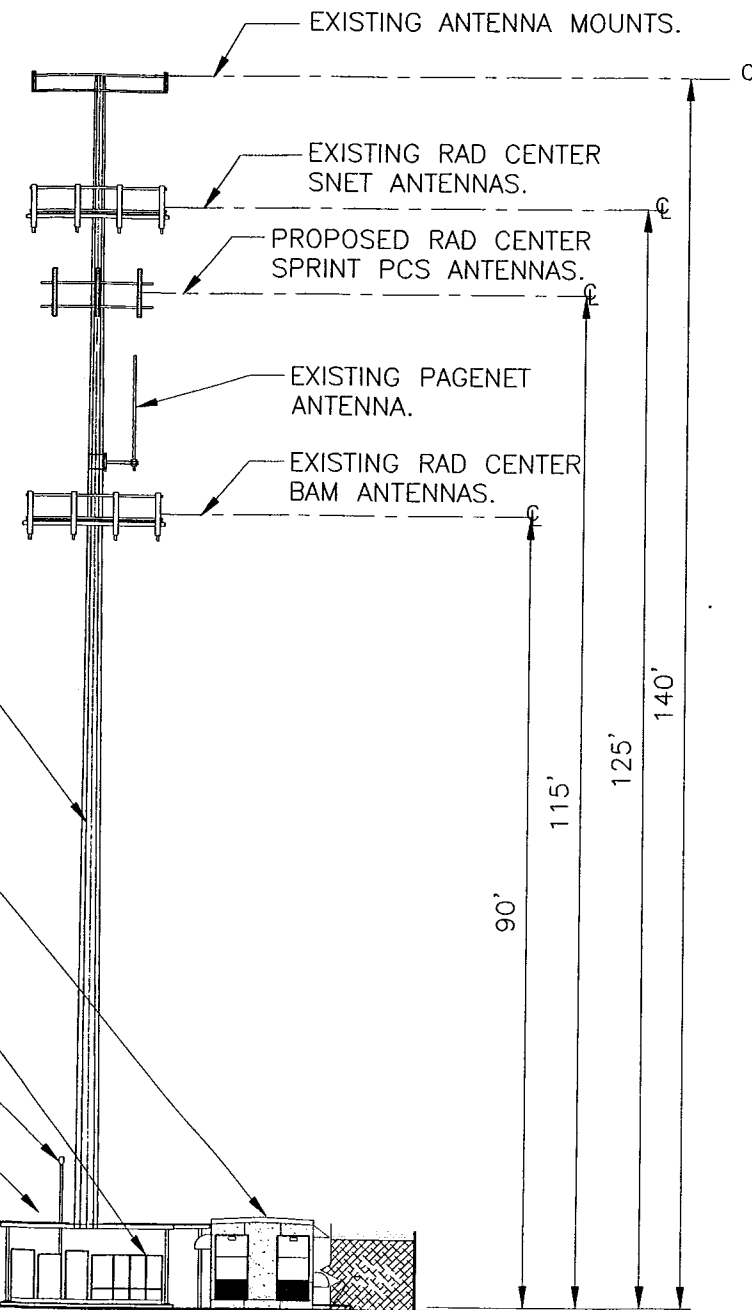
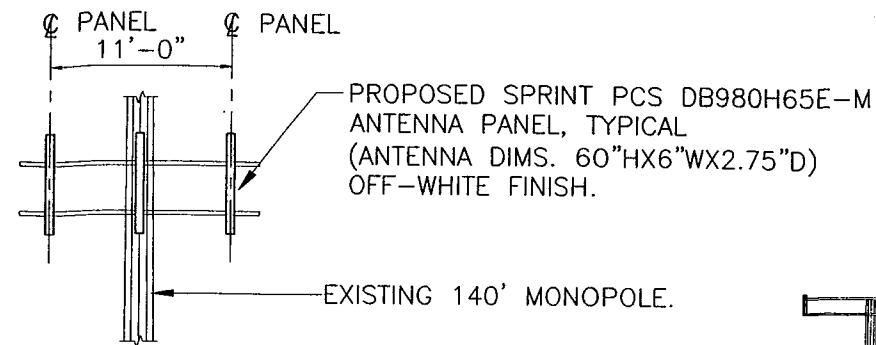
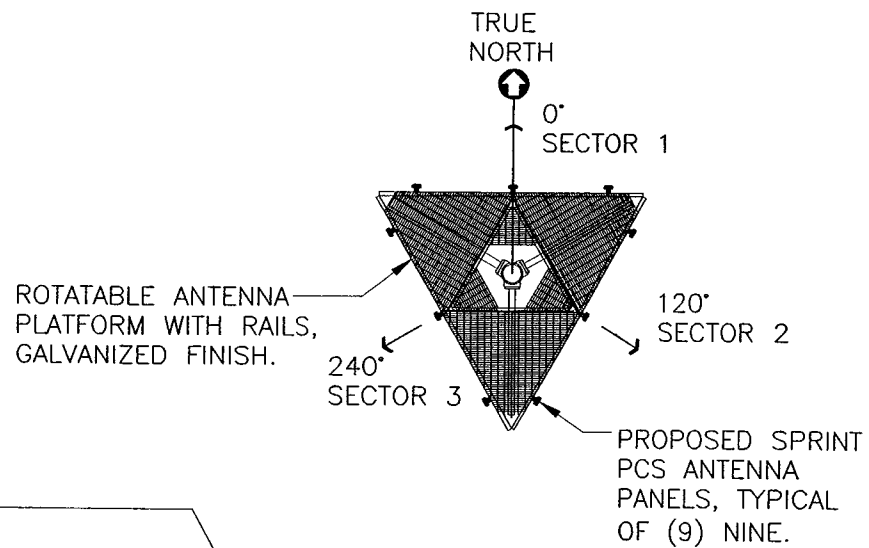
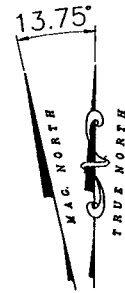
**MANCHESTER**  
60 ADAMS STREET  
MANCHESTER, CONNECTICUT 06040  
SITE NO. : CT23XC567

**Sprint Spectrum LP**  
9 Barnes Industrial Road  
Wallingford, CT 06492

NO.	DATE	REVISIONS	BY	CHK	APPV.
12/03/99		REVISION TO GPS & PANEL ANTENNAS	JBA	CFC	CFC
10/28/99		ISSUED FOR SITING COUNCIL	DSM	JBA	CFC
DRAWN BY: DSM			CHECKED BY: CFC		SCALE: N.T.S.
			DATE: 10/28/99		

**Sprint Spectrum LP**  
**SITE PLAN**  
JOB NO. 995213  
DRAWING NUMBER S-1  
REV. 1





**2 MONOPOLE ANTENNA MOUNT CONFIGURATION**  
S-1 NOT TO SCALE

**3 PARTIAL SITE PLAN**  
S-1 NOT TO SCALE

**1 TOWER ELEVATION**  
S-1 NOT TO SCALE

**Natcomm, L.L.C.**  
63-2 North Branford Road  
Branford, Connecticut 06405  
Tel. (203) 488-0580  
Fax (203) 488-8387  
Consulting Engineers - Project Management  
Site Acquisition - Communications Installations

**MANCHESTER**  
60 ADAMS STREET  
MANCHESTER, CONNECTICUT 06040  
SITE NO. : CT23XC567

**Sprint Spectrum LP**  
9 Barnes Industrial Road  
Wallingford, CT 06492

NO.	DATE	REVISIONS	BY	CHK	APPV.
12/03/99		REVISION TO GPS & PANEL ANTENNAS	JBA	CFC	CFC
10/28/99		ISSUED FOR SITING COUNCIL	DSM	JBA	CFC
DRAWN BY: DSM			CHECKED BY: CFC		SCALE: N.T.S.
			DATE: 10/28/99		

**Sprint Spectrum LP**

**SITE PLAN**

JOB NO.	DRAWING NUMBER	REV.
995213	S-1	1

6

5

4

3

2

1