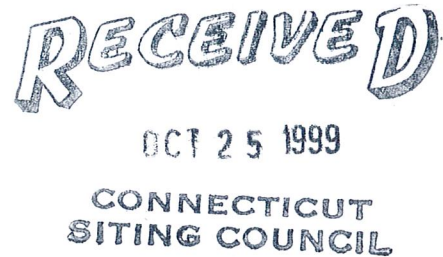


25 October, 1999

Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



**Re: Request by Omnipoint Communications, Inc. for an Order
to Approve the Shared Use of a Tower Facility
15 North Granby Road, Granby, Connecticut**

Dear Chairman Gelston and Members of the Council:

Pursuant to Connecticut General Statutes §16-50aa, Omnipoint Communications, Inc. ("Omnipoint") hereby requests an order from the Connecticut Siting Council ("Council") to approve the proposed shared use of an existing tower located at 15 North Granby Road in Granby, Connecticut. The tower is owned and operated by Nextel Communications, Inc. ("Nextel"). Omnipoint proposes to install antennas on the existing tower located within Nextel's leased compound area, and to install related equipment near the base of the tower within the existing compound (see "Exhibit A"). Omnipoint requests that the Council find that the proposed shared use of the tower satisfies the criteria stated in §16-50aa and issue an order approving the proposed use.

Background

Omnipoint is licensed by the Federal Communications Commission (FCC) to provide PCS wireless telecommunications service in the State of Connecticut, which includes the area to be served by the proposed installations.

The Nextel tower at 15 North Granby Road in Granby is a 150-foot monopole located on an approximately 50' x 50', or 2,500 sq. ft. compound behind the Granby Town Hall and Police Headquarters. The coordinates of the tower location are 41-57-12 N and 72-47-38 W. Nextel Communications has installed antennas with centerlines at 150' above ground level ("AGL"). In addition, SNET has antennas mounted at the 140-foot level. Omnipoint and Nextel have agreed to mutually acceptable terms and conditions for the proposed shared use of this tower, and Nextel has authorized Omnipoint to act on its behalf to apply for all necessary local, state and federal permits, approvals, and authorizations which may be required for the proposed shared use of this facility.

As shown on the attached site plan drawings and tower elevations, Omnipoint proposes to install three EMS Dual-Pol Model RR 65 1802DP antennas with centerlines at 120' AGL. The radio

transmission equipment associated with these antennas, a Nortel S8000 cabinet, would be mounted at the base of the monopole.

C.G.S. §16-50aa (c) (1) provides that, upon written request for approval of a proposed shared use, "if the council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns, the council shall issue an order approving such shared use." The shared use of the tower satisfies those criteria as follows:

A. Technical Feasibility - The existing tower was designed to accommodate multiple carriers. As the attached structural analysis indicates, the tower is structurally sound and capable of supporting Omnipoint's antennas in addition to the existing antennas at the site (See "Exhibit B"). The proposed shared use of this tower therefore is technically feasible.

B. Legal Feasibility Under C.G.S. § 16-50aa, the Council has been authorized to issue orders approving the proposed shared use of an existing tower facility such as the facility on North Granby Road in Granby. (Public Acts 93-268, Section 2; and 94-242, Section 6 (c)). This authority complements the Council's prior-existing authority under C.G.S. § 16-50p to issue orders approving the construction of new towers that are subject to the Council's jurisdiction. C.G.S. § 16-50x (a) vests exclusive jurisdiction over these facilities in the Council, which shall "give such consideration to other state laws and municipal regulations as it shall deem appropriate" in ruling on requests for the shared use of existing towers facilities. Under this statutory authority vested in the Council, an order by the Council approving the shared use would permit the applicant to obtain a building permit for the proposed installations.

C. Environmental Feasibility The proposed shared use would have a minimal environmental effect, for the following reasons:

1. The proposed installations would have an insignificant incremental visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the existing site. In particular, the proposed installations would not increase the height of the existing tower, and would not extend the boundaries of the existing Nextel compound area.
2. The proposed installations would not increase the noise levels at the existing facility by six decibels or more.
3. Operation of antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the American National Standards Institute ("ANSI"). The "worst-case" exposure calculated for operation of this facility (i.e., calculated at the base of the tower, which represents the closest publicly accessible point within the broadcast field of the antennas), with the Nextel, SNET and Omnipoint antennas, would be 10.84% of the ANSI standard). These calculations are attached as "Exhibit C."
4. The proposed installations would not require any water or sanitary facilities, or generate air emissions or discharges to water or sanitary facilities, or generate air

emissions or discharges to water bodies. After construction is complete (approximately two weeks), the proposed installations would not generate any traffic other than for periodic maintenance visits.

The proposed use of this facility would therefore have a minimal environmental effect, and is environmentally feasible.

E. Economic Feasibility As previously mentioned, Omnipoint has entered into an agreement with Nextel to share the use of the existing tower on terms agreeable to the parties. The proposed tower sharing is therefore economically feasible.

F. Public Safety Concerns As stated above, the existing tower is structurally capable of supporting the proposed Omnipoint antennas. The tower stands within a compound located behind the Granby Town Hall and Police Headquarters. Omnipoint is not aware of any other public safety concerns relative to the proposed sharing of the existing tower. In fact, the provision of new or improved phone service through shared use of the existing tower is expected to enhance the safety and welfare of area residents and travelers.

Conclusion

For the reasons discussed above, the proposed shared use of the existing tower facility at North Granby Road in Granby, Connecticut satisfies the criteria stated in C.G.S. §16-50aa, and advances the General Assembly's and the Siting Council's goal of preventing the proliferation of towers in Connecticut. Omnipoint therefore requests that the Siting Council issue an order approving the proposed shared use.

Thank you for your consideration of this matter.

Very truly yours,

A handwritten signature in blue ink, appearing to read "J. Brendan Sharkey".

J. Brendan Sharkey, Esq.
for Omnipoint Communications, Inc.

Attachments

cc: William J. Simanski, Granby First Selectman
Ron Clark, Nextel Communications

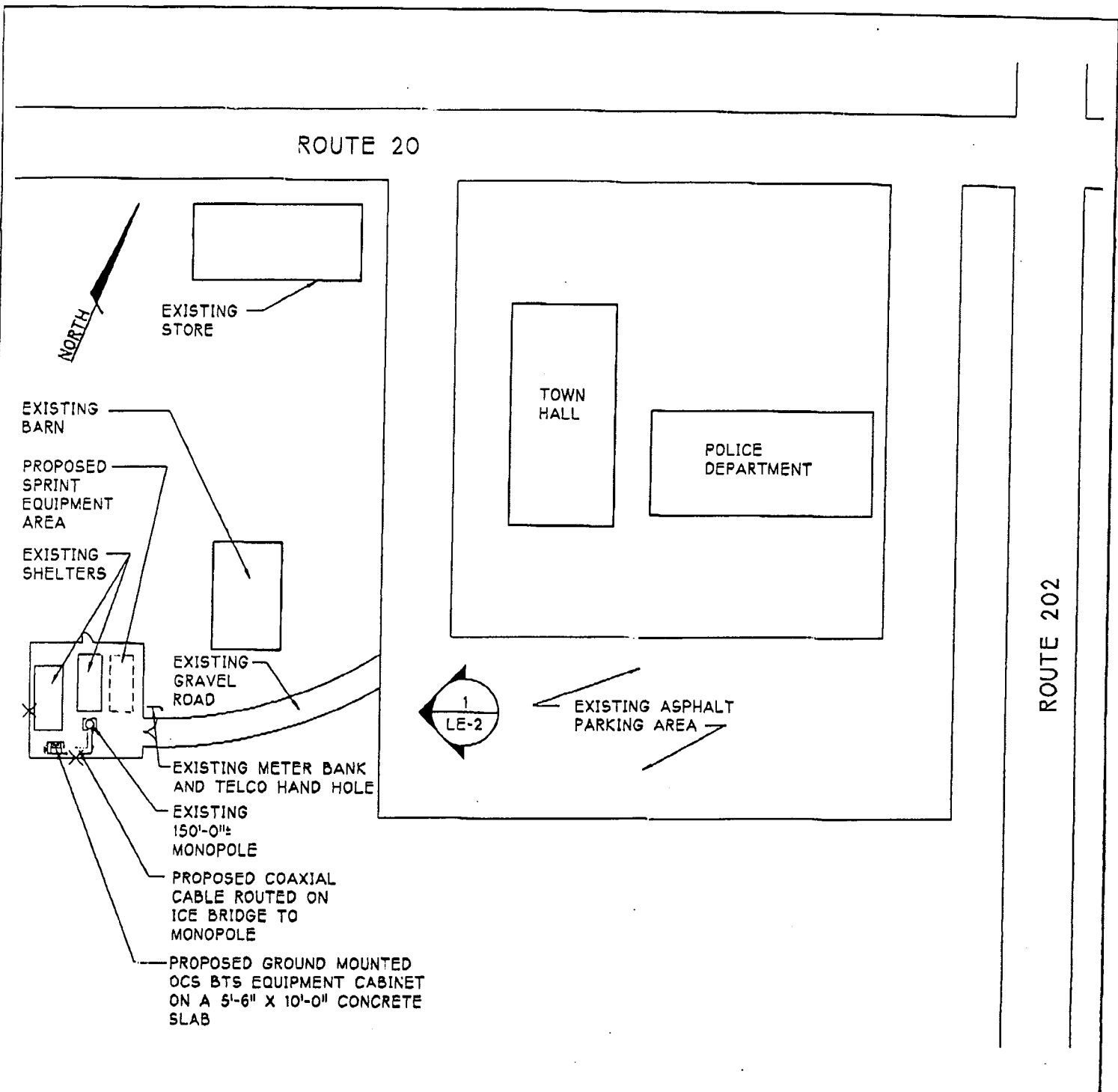
Exhibit A

Design Drawings & Equipment

Specifications

15 North Granby Road

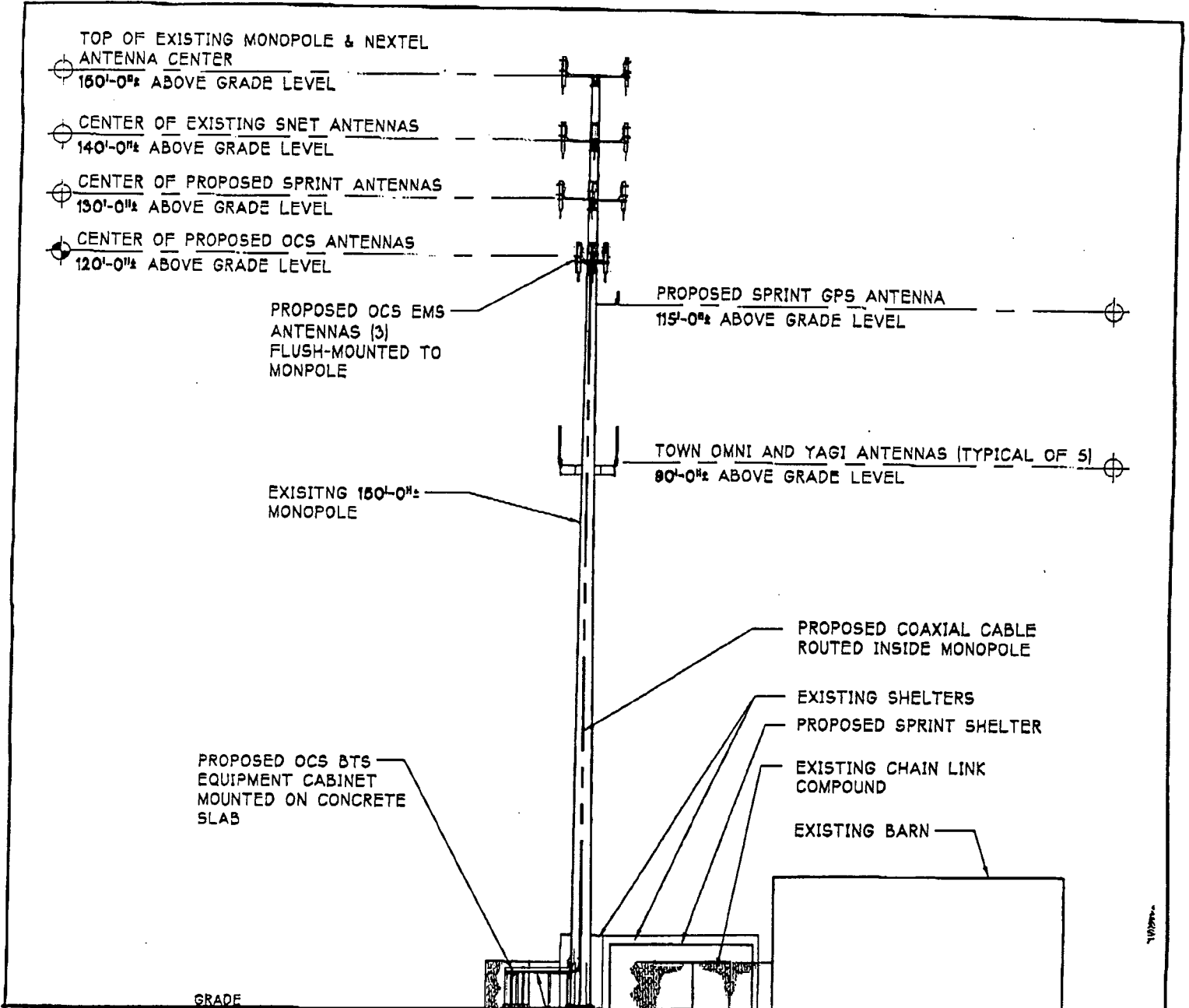
Granby, CT



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.

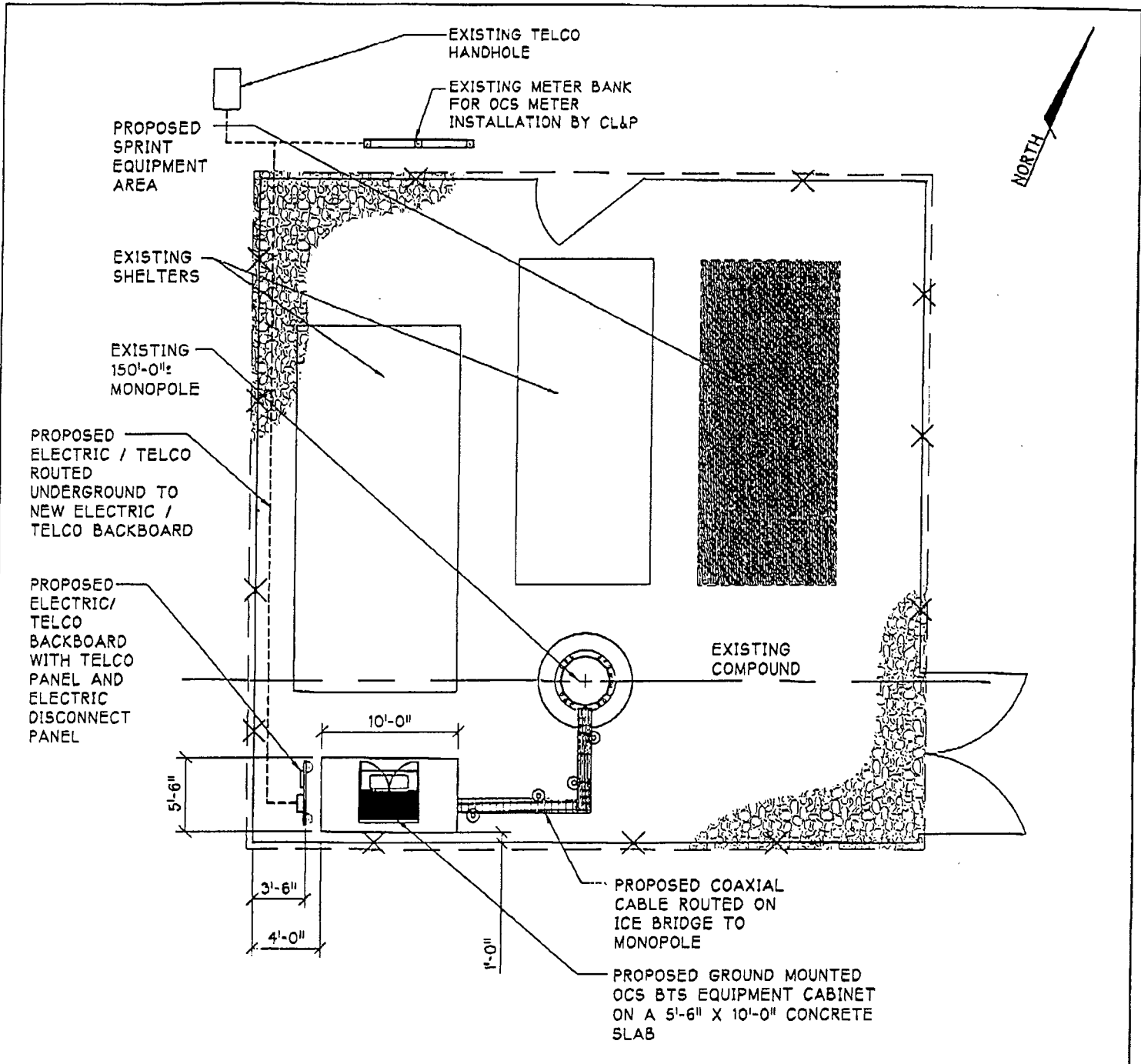
<p>670 North Bears Street, Building 2, Holmdel, NJ 07733 Tel: 732.739.3200 Fax: 732.739.0440</p>	Drawing Title: SITE LAYOUT		Project: NEXTEL MONOPOLE		REV 1 RS 9/8/99 Revision No. Desc. Drawing No.
	Client:		Address: 15 NORTH GRANBY RD. (RT. 20) GRANBY, CT		
Search Area: GRANBY/RT. 20 Date 10 Nov. CT-11-281B	P.C.: JDi	P.E. Check: []	Drawn By: A99.505.841A	Date: KK 3/29/99	Approved By: PROJ. MGR: _____ DATE: _____ R.F. ENGR: _____ DATE: _____ SAC: _____ DATE: _____ OWNER: _____ DATE: _____



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.

 670 North Bears Street, Building 2, Holmdel, NJ 07733 Tel: 732.739.3200	Drawing Title: ELEVATION		Project: NEXTEL MONOPOLE		Address: 15 NORTH GRANBY RD. (RT. 20) GRANBY, CT Approved By: PROJ. MGR: _____ DATE: _____ R.F. ENGR: _____ DATE: _____ SAC: _____ DATE: _____ OWNER: _____ DATE: _____	REV 2 BC 9/28/99	
	Client: 		Address: 15 NORTH GRANBY RD. (RT. 20) GRANBY, CT			REV 1 RS 8/8/99	
Search Area: GRANBY/RT. 20 Site ID No: CT-11-261B	P.O.: JDi	P.C. Chgd. by: JDi	Chgd. by: JDi	ARCN Project No: A99.505.841A	Drawn: KK	Date: 3/29/99	Drawing No: LE-2



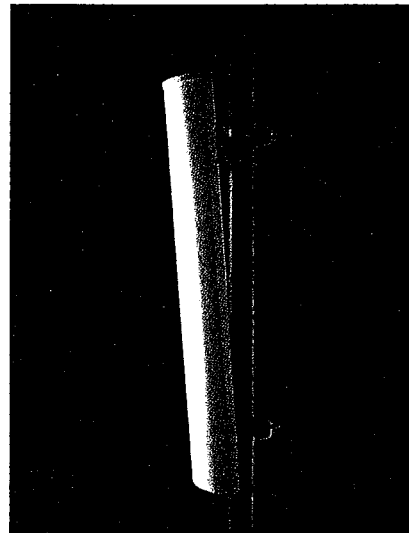
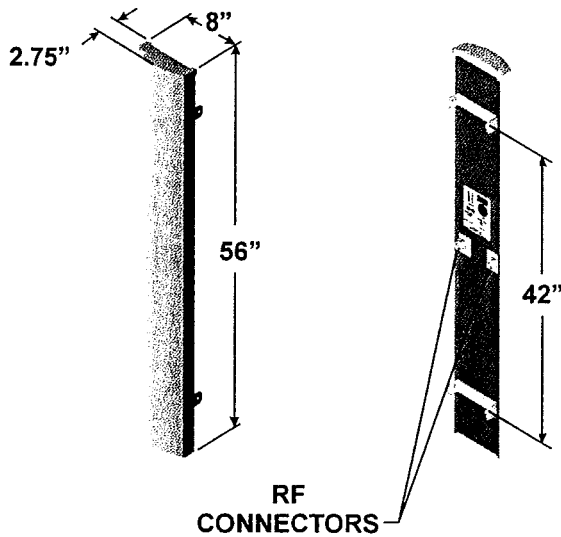
1 COMPOUND PLAN
 LE-3 SCALE: NOT TO SCALE

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

 570 North Beers Street, Building 2, Holmdel, NJ 07733 Tel: 732.739.3200 Fax: 732.739.0440	Drawing Title: COMPOUND PLAN		Project: NEXTEL MONOPOLE Address: 15 NORTH GRANBY RD. (RT. 20) GRANBY, CT		REV 2 BC 8/28/99 REV 1 RS 8/8/99
	Client:		Approved By: _____ DATE: _____ PROJ. MGR: _____ DATE: _____ R.F. ENGR: _____ DATE: _____ SAC: _____ DATE: _____ OWNER: _____ DATE: _____		Revision No. _____ Date: _____ Drawing No. LE-3
Search Area: GRANBY/RT. 20 Site ID No. CT-11-281B	P.C. JDi	P.C. Chkd: _____	Chkd. by: _____	ARCNET Project No. A99.505.841A	Drawn: RSc Date: 3/29/99

© copyright 1999 by ARCNET Architects, Inc.

1850 MHz - 1990 MHz (P)



65° beamwidth

17.5 dBi gain

±45° DualPol™

56 inch

SPECIFICATIONS

Electrical

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 Typ.)
Electrical Downtilt Options	0°, 2°, 4°, 6°
VSWR	1.35:1 Max
Connectors	2; Type N or 7-16 DIN (female)
Power Handling	250 Watts CW
Passive Intermodulation	<-147 dBc (2 tone @ +43 dBm {20W} ea.)
Lightning Protection	Chassis Ground

Mechanical

Dimensions (L x W x D)	56in x 8in x 2.75in (142 cm x 20.3 cm x 7.0 cm)
Rated Wind Velocity	150 mph (241 km/hr)
Equivalent Flat Plate Area	3.1ft 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)

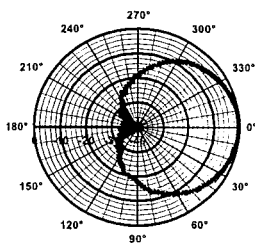
Note: Patent Pending and US Patent number 5, 757, 246.

Values and patterns are representative and variations may occur. Specifications may change without notice due to continuous product enhancements. Digitized pattern data is available from the factory or via the web site www.emswireless.com and reflect all updates.

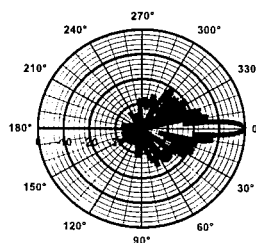
MOUNTING OPTIONS

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-S02-10	Swivel Mount	Mounting kit providing azimuth adjustment.
MTG-DXX-20*	Mechanical Downtilt Kits	0° - 10° or 0° - 15° Mechanical Downtilt
MTG-CXX-10*	Cluster Mount Kits	3 antennas 120° apart or 2 antennas 180° apart
MTG-C02-10	U-Bolt Cluster Mount Kit	3 antennas 120° apart, 4.5" O.D. pole.
MTG-TXX-10*	Steel Band Mount	Pole diameters 7.5" - 45"

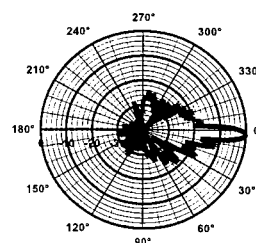
* Model number shown represents a series of products. See mounting options section for specific model number.



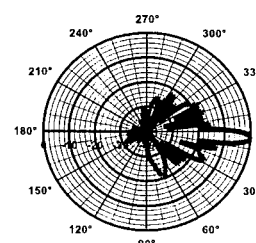
Azimuth



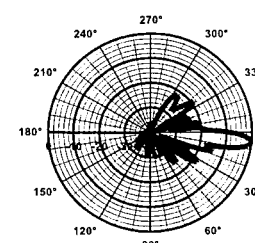
Elevation
0° Downtilt



Elevation
2° Downtilt



Elevation
4° Downtilt

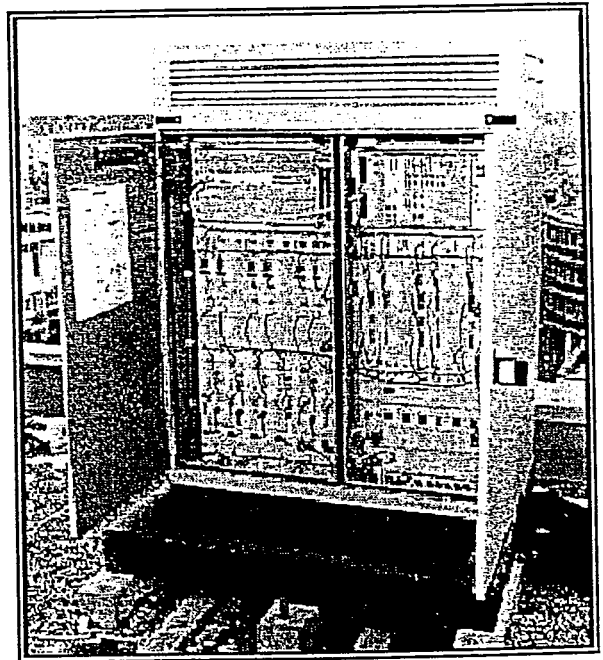
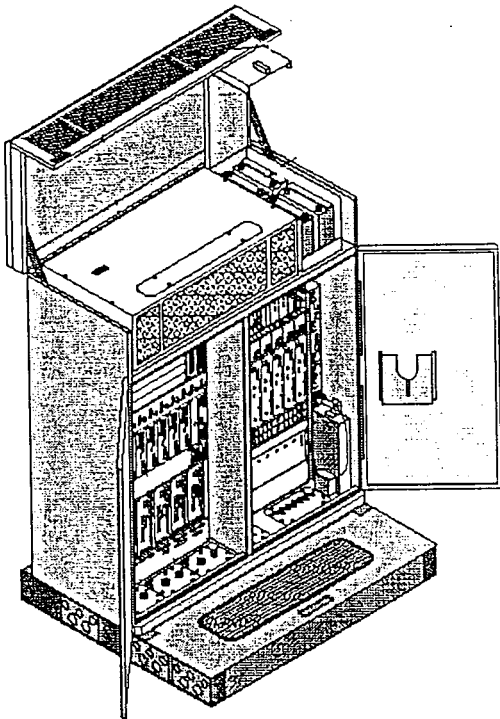


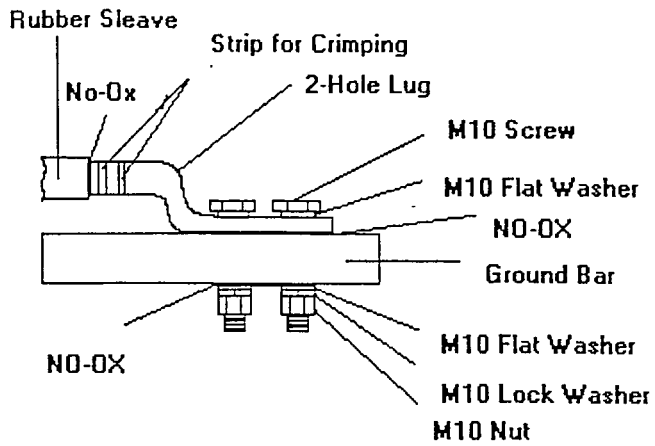
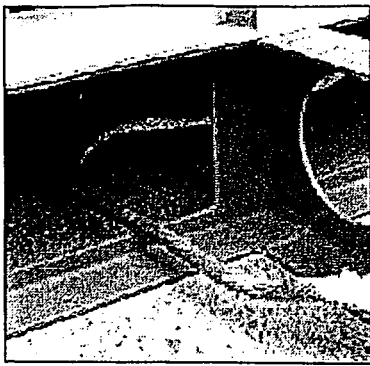
Elevation
6° Downtilt



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

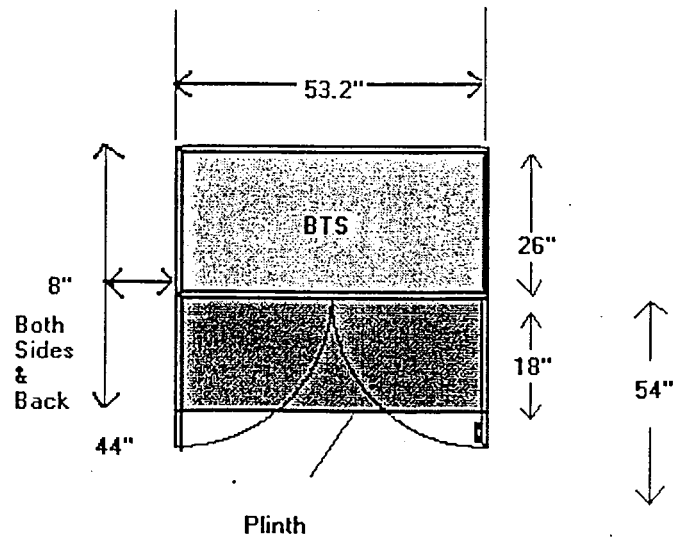
Weight:
 87 pounds

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



Electrical Specifications

Split Single-Phase

3 wires plus ground

L1: Black 6 gauge

L2: Red 6 gauge

Neutral: White 6 gauge

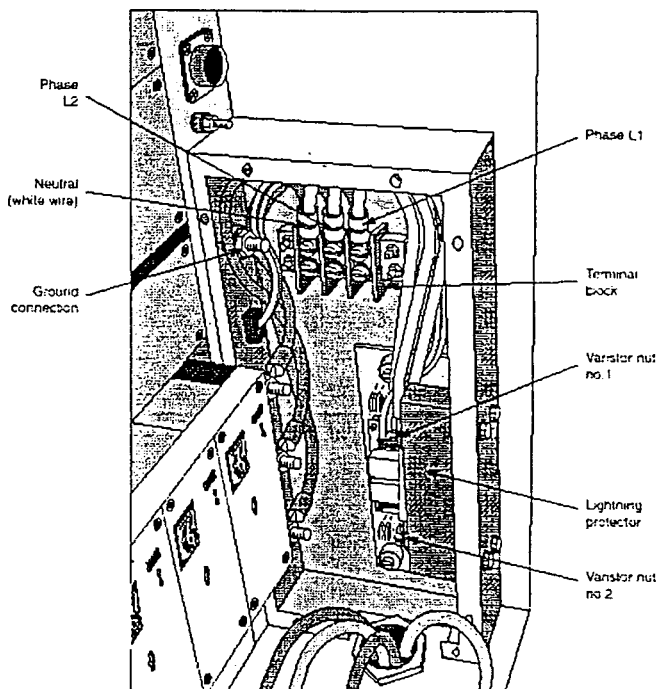
Ground: Yellow/Green 6 gauge

Maximum distance between AC box and BTS: 105 feet

187 ~ 254 VAC between L1 and L2

99 ~ 127 VAC between Neutral and L1 or L2

45 ~ 65 Hertz



AC connection to BTS located at the front, lower, right-hand side of BTS

Circuit Breaker in AC Box

Up to 4 transmitters

30 A, bipolar, C curve

5 or more transmitters

40A, bipolar, C curve

BTS to Ground connection

Minimum 2 AWG, run in most direct route as possible towards true earth, minimizing bends. No bend shall be less than 90 degrees.

Exhibit B

Structural Analysis
15 North Granby Road
Granby, CT



PAUL J. FORD AND COMPANY
STRUCTURAL ENGINEERS
250 East Broad Street • Suite 500 • Columbus, Ohio 43215

September 21, 1999

ArcNet
100 Filley Street
Bloomfield, CT 06002

ATTN: Joe DiBernardo

RE: Co-location Analysis of Existing 150' Monopole for Revised Antenna Load
Site: CT-11-281-B Location: Granby, Connecticut
Client: Omnipoint Pole Manufacturer: EEI
Pole Material: Steel Pole Cross-Section: 12-sided
(PJF Project Number 31299-009; ArcNet Project Number A99.506-841A)

Dear Mr. DiBernardo:

Per your request, PAUL J. FORD AND COMPANY analyzed the above referenced pole for Omnipoint. The pole was analyzed for the following antenna loads per the Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, TIA/EIA-222-F, 1996:

Proposed Omnipoint Co-location Antenna Load:

1. (3) EMS RR90-17-02DP panel antennas flush mounted to the pole, Centerline elevation of 120'-0"

Existing Antenna Loads:

1. (12) Swedcom ALP-9011-N panel antennas and a 15' omni antenna on a top mounted 10'-8" low profile platform
2. (12) Allgon 7120.16 panel antennas on a 10'-8" low profile platform, Centerline elevation of 140'-0"
3. (9) DB978H panel antennas on a 10'-8" low profile platform, Centerline elevation of 130'-0"
4. GPS antenna w/mount, Centerline elevation of 115'-0"
5. (1) Yagi antenna, (1) Cellwave PD201 antenna and (3) DB201 antennas on six foot straight arm mounts, mount elevation of 90'-0"

Antenna Feed Lines:

1. The 1 5/8" coaxial cable for the proposed EMS antennas will be run on the inside of the pole.
2. For all other existing antennas, a worst case scenario of 1 5/8" coaxial cable run on the inside of the pole was used.

September 21, 1999

ArcNet
Page 2 of 2

ATTN: Joe DiBernardo

RE: Co-location Analysis of Existing 150' Monopole for Revised Antenna Load
Site: CT-11-281-B Location: Granby, Connecticut
(PJF Project Number 31299-009; ArcNet Project Number A99.506-841A)

Our analysis shows that the above referenced pole has a wind rating of 80 mph (no ice) and 69 mph plus ½" radial ice when loaded as shown above. This meets the TIA/EIA-222-F 1996 minimum basic wind speed recommendation for Hartford County of 80 mph and 69 mph plus ½" radial ice. Therefore, the pole has sufficient capacity to carry both the existing and proposed antenna loads at the TIA/EIA-222-F 1996 minimum recommended wind speed.

The foundation design was analyzed for the pole base reactions resulting from the TIA/EIA specified design wind acting on the pole shaft and on the existing/proposed antenna load. The foundation analysis was performed using the assumed soil parameters shown on the foundation drawing. The foundation is capable of carrying the pole base reactions that result from the TIA/EIA specified design wind acting on the pole shaft and on the existing/proposed antenna load.

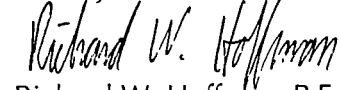
It is our understanding that it may be necessary to install hand hole frames at the base of the pole and at an approximate elevation of 120'-0". If the hand holes are designed correctly and installed correctly, the load carrying capacity of the pole will be unaffected by this modification.

As is our standard practice, we are providing you with an analysis package for the monopole site referenced above. To document the physical configuration of the monopole that has been analyzed, we have included a monopole drawing on letter size paper showing the size, shape, and material specification of the pole shaft. Also included in the package are the foundation drawing and computer calculations from our analysis.

We appreciate this opportunity to be of service. If you have any questions or comments, please contact Rich Hoffman at (614) 221-6679.

Sincerely,

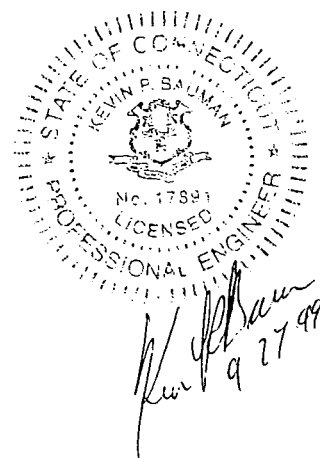
PAUL J. FORD AND COMPANY



Richard W. Hoffman, P.E.
Project Engineer
e-mail: rhoffman@pjfweb.com

C:\MSOFFICE\WINWORD\LETTERS\LAN99009

Kevin P. Bauman, P.E.
Project Manager
Connecticut Professional Engineer
e-mail: kbauman@pjfweb.com



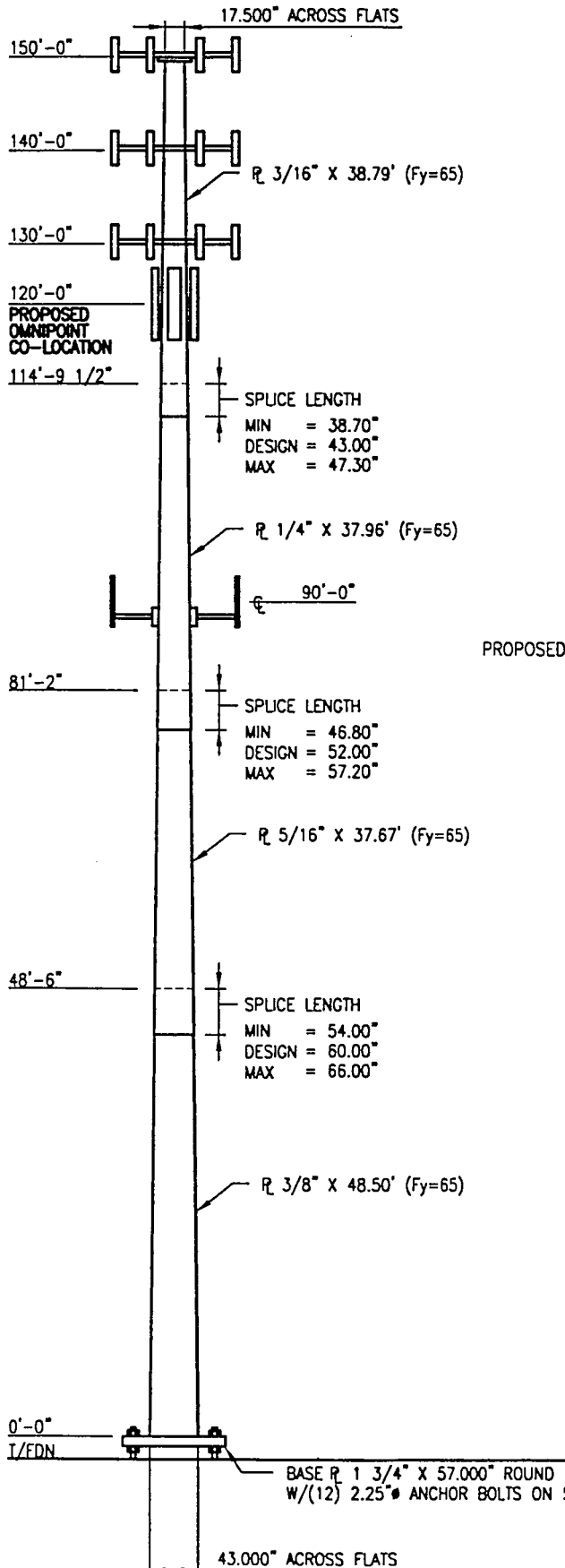
ARCNET

670 N. BEERS ST BLDG.2 HOLMDEL, NJ 07733
 PH: (732) 739-3200 FAX: (732) 739-0440

PAUL J. FORD AND COMPANY HAS BEEN PROVIDED WITH THE ORIGINAL EEI POLE DRAWINGS, DATED 6-26-1998. IF EXISTING CONDITIONS ARE NOT AS REPRESENTED ON THESE SKETCHES, PJF SHOULD BE CONTACTED IMMEDIATELY TO RE-EVALUATE THE STRUCTURAL INTEGRITY OF THE POLE.



PAUL J. FORD AND COMPANY
STRUCTURAL ENGINEERS
 250 East Broad Street, Suite 500, Columbus, Ohio 43215
 (614) 221-6679 Fax: (614) 221-0166 www.PJFweb.com



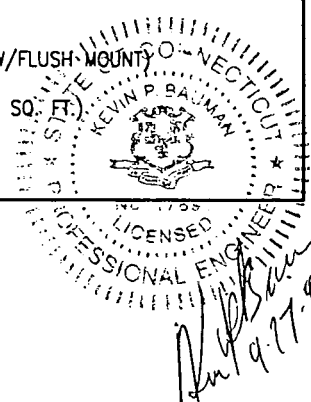
JOB DATA	
Page 1 of 2	Job No. 31299-009
By RWH	Design No. ARCNET NO. A99.506-841A
Chk'd By RWH	Date 09-21-1999
Pole	EXISTING 150' POLE
Site	CT-11-281-B; GRANBY, CONNECTICUT
Owner	NEXTEL COMMUNICATIONS
Ref. No.	EEI DRAWING NO. GS51005 (EEI PROJECT NO. 3934)
Design	MINIMUM REQUIRED WIND VELOCITY = 80 MPH / 69 MPH + 1/2" RADIAL ICE - ACCORDING TO TIA/EIA-222-F 1996

LOAD CASES		
CASE 1	80 MPH WITH NO ICE	DESIGN WIND
CASE 2	69 MPH WITH 1/2" RADIAL ICE	REDUCED WIND WITH ICE
CASE 3	50 MPH WITH NO ICE	OPERATIONAL WIND

POLE SPECIFICATIONS	
Pole Shape Type:	12-SIDED POLYGON
Taper:	0.180000 IN/FT
Shaft Steel:	ASTM A572 GRADE 65
Base PL Steel:	ASTM A871 (60 KSI)
Anchor Bolts:	2 1/4" Ø x 10'-6" LONG #18J ASTM A615 GRADE 75

ANTENNA LIST		
No.	Elev.	Description
1-12	TOP	(12) SWEDCOM ALP-9011-N PANEL ANTENNA
13	TOP	(1) OMNI ANTENNA (15' LONG)
-	TOP	10'-8" LOW PROFILE PLATFORM
14-25	140.00	(12) ALLGON 7120.16 PANEL ANTENNAS
-	140.00	10'-8" LOW PROFILE PLATFORM
26-34	130.00	(9) DB978H PCS
-	130.00	10'-8" LOW PROFILE PLATFORM
35-37	120.00	(3) EMS RR90-17-02DP PCS PANEL (W/FLUSH MOUNT)
-	115.00	GPS ANTENNA W/ MOUNT
38	95.00	(1) YAGI ANTENNA (ASSUMED CaAa = 5 SO. FT.)
39	94.00	(1) CELWAVE PD201
40-42	93.25	(3) DB201
-	90.00	(4) 6-FT SIDE ARM MOUNTS

STEP BOLTS FULL HEIGHT FROM 9'-6" ABOVE BASE PLATE.
 ANTENNA FEED LINES RUN INSIDE OF POLE.



Elevation	80 MPH WIND		50 MPH WIND	
	Lateral Deflection (inches)	Rotation (sway) (degrees)	Lateral Deflection (inches)	Rotation (sway) (degrees)
TOP	139.9	8.276	54.5	3.232

SHAFT SECTION DATA					
Shaft Section	Section Length (feet)	Plate Thickness (in.)	Lap Splice (in.)	Diameter Across Flats (inches)	
				Top	Bottom
1	38.79	0.1875		17.500	24.482
2	37.96	0.2500	43.00	23.462	30.295
3	37.67	0.3125	52.00	29.015	35.795
4	48.50	0.3750	60.00	34.270	43.000

NOTE: DIMENSIONS SHOWN DO NOT INCLUDE GALVANIZING TOLERANCES

UNFACTORED BASE REACTIONS
 MOMENT = 2141 ft-kips
 SHEAR = 22 kips
 AXIAL = 22 kips

ARCNET

670 N. BEERS ST BLDG.2 HOLMDEL, NJ 07733
PH: (732) 739-3200 FAX: (732) 739-0440

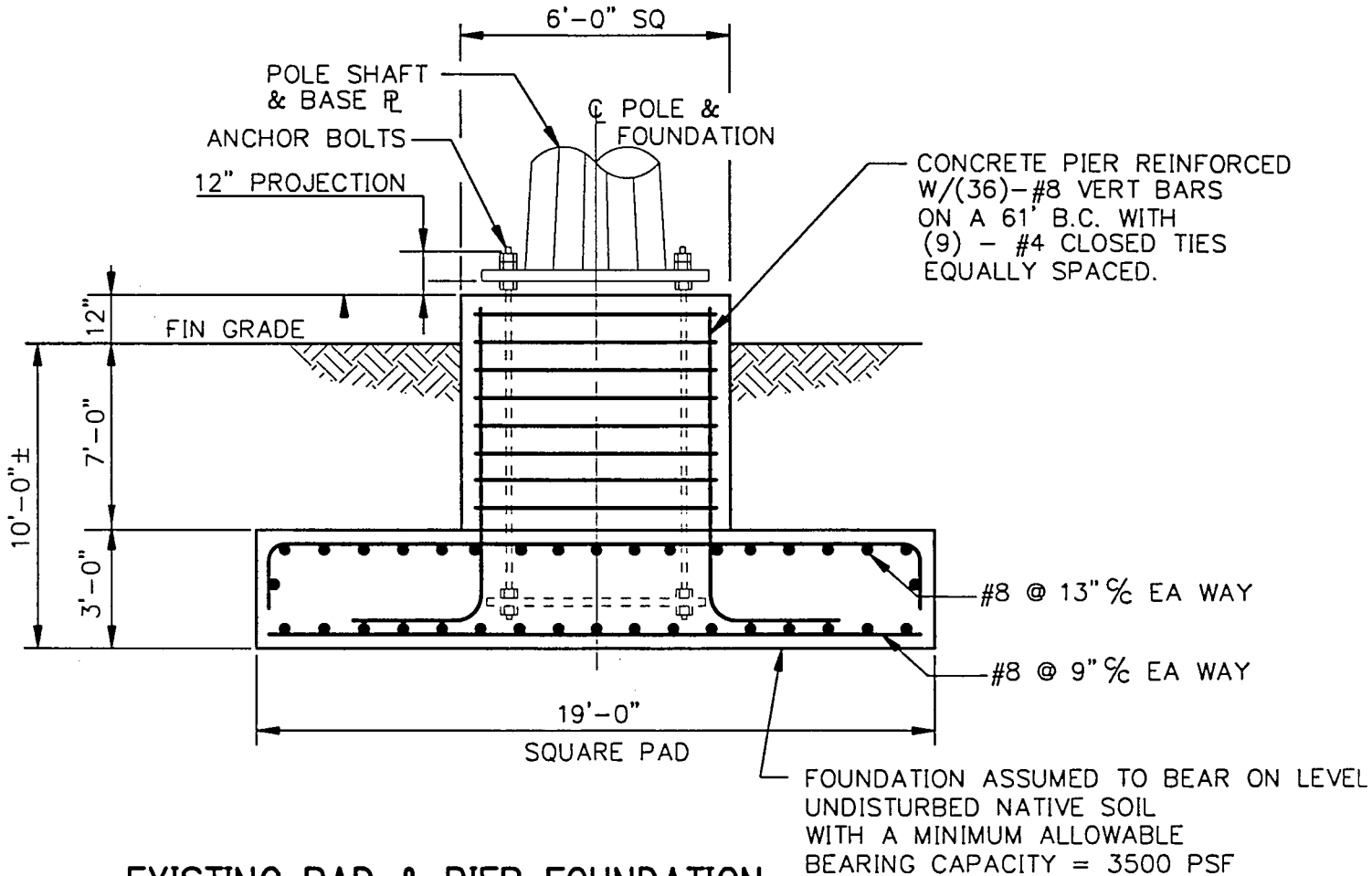


PAUL J. FORD AND COMPANY
STRUCTURAL ENGINEERS
250 East Broad Street, Suite 500, Columbus, Ohio 43215
(614) 221-6679 Fax: (614) 221-0166 www.PJFweb.com

Pole 150 FT MONOPOLE
Location GRANBY, CONNECTICUT
Site CT-11-281-B
Owner NEXTEL COMMUNICATIONS
Design 80 MPH / 69 MPH + 1/2" RADIAL ICE

Page 2 Of 2
By RWH Job No. 31299-009
Revision No. Date 9-21-1999

According to TIA/EIA-222-F 1996



EXISTING PAD & PIER FOUNDATION

NOTES:

1. ALL STRUCTURAL CONCRETE ASSUMED TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF AT LEAST 4000 PSI AT 28 DAYS.
2. REINFORCING STEEL ASSUMED TO CONFORM TO ASTM A615 (GRADE 60).
3. SEE PAGE 1 FOR ANCHOR BOLT QUANTITY, SIZE, LENGTH, AND BOLT CIRCLE.
4. FOUNDATION ANALYSIS BASED UPON ASSUMED SOIL PROPERTIES AS FOLLOWS:
SOIL UNIT WEIGHT: 100 POUNDS PER CUBIC FOOT
ALLOWABLE BEARING PRESSURE: 3500 POUNDS PER SQUARE FOOT
GROUNDWATER IS LOCATED BELOW FOUNDATION DEPTH.
5. THE EXISTING FOUNDATION IS ASSUMED TO HAVE BEEN BUILT AS SHOWN ON THE ORIGINAL DESIGN DRAWINGS BY ENGINEERED ENDEAVORS INC. JOB # 3934, DRAWING NO. F3934-150. IF EXISTING CONDITIONS ARE NOT AS SHOWN HERE, PJF SHOULD BE SO THAT THE ANALYSIS CAN BE REVISED.

Exhibit C

Power Density Calculations
15 North Granby Road
Granby, CT

Worst Case Power Density for Installation on Nextel Monopole @ 15 North Granby Road, Granby, 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	130 ft		
Jumper & Connector loss	1 dB		
Cable Loss per foot	0.0116		
Total Cable Loss	1.508 dB		
Total Attenuation	2.508 dB		
Total EIRP per channel	58.00 dB	631.29	W
Total EIRP per sector	61.01 dB	1262.58	W
Ground Reflection	1.6		
Frequency	1930 MHz		
Antenna Height	120 ft	3657.6	cm
nsg	14.992		
Power Density (S) =	0.019236 mW / cm ²		
% MPE =	1.9236%		

Equation Used :

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

SCLP MPE 6.3870%
 NEXTEL MPE 2.5340%
 OMNIPPOINT MPE 1.9236%
TOTAL MPE 10.8446%

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