TOWN OF MONTVILLE
PLANNING DEPARTMENT
310 NORWICH NEW LONDON TURNPIKE
UNCASVILLE, CONNECTICUT 06382
PHONE (860) 848-8549 - FAX (860) 848-2354

October 26, 2000

Joel M. Rinebold
State of Connecticut
Connecticut Siting Council
Ten Franklin Square
New Britain, Ct. 06382

RE: TS-SCLP-086-001006- Springwich Cellular Limited Partnership (SCLP) request for an order to approve tower sharing at an existing telecommunications facility located at 376 Butlertown Road, Montville, Connecticut.

Dear Mr. Rinebold:

Could you please provide the Planning and Zoning Commission with the propagation study provided with this application. This information is important to the Planning and Zoning Commission to determine any future tower location proposals.

Respectfully,

Thomas E. Sanders

Thomas E. Sanders,
Assistant Planner/ZEO

TES/jr

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

October 23, 2000

Peter W. van Wilgen
Springwich Cellular Limited Partnership
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **TS-SCLP-086-001006**- Springwich Cellular Limited Partnership (SCLP) request for an order to approve tower sharing at an existing telecommunications facility located at 376 Butlertown Road, Montville, Connecticut.

Dear Mr. van Wilgen:

At a public meeting held Thursday, October 19, 2000, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. 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 may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point 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.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated October 5, 2000.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable Howard R. Beetham, Jr., Mayor, Town of Montville
Ken Thomas, Wireless Solutions
Ronald C. Clark, Nextel Communications

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

October 12, 2000

Honorable Howard R. Beetham, Jr.
Mayor
Town of Montville
Town Hall
310 Norwich New London Turnpike
Uncasville, CT 06382

RE: **TS-SCLP-086-001006**- Springwich Cellular Limited Partnership (SCLP) request for an order to approve tower sharing at an existing telecommunications facility located at 376 Butlertown Road, Montville, Connecticut.

Dear Mayor Beetham:

The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting scheduled for October 19, 2000, at 2:00 p.m. in Hearing Room Two, 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,

Joel M. Rinebold
Executive Director

JMR/RKE/grg

Enclosure: Notice of Tower Sharing

500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7730
Fax: (860) 513-7614

TS-SCLP-086-001006

Peter W. van Wilgen
Director – Real Estate Operations

October 5, 2000

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

Re: Request by Springwich Cellular Limited Partnership for an Order to Approve the Shared Use of an Existing Wireless Telecommunications Tower Facility located at 376 Butlertown Road, Montville, Connecticut.

Dear Chairman Gelston:

Pursuant to Connecticut General Statutes (C.G.S.) Section 16-50aa, Springwich Cellular Limited Partnership ("SCLP") hereby requests an order from the Connecticut Siting Council ("Council") approving the proposed shared use by SCLP of an existing wireless telecommunications tower facility located at 376 Butlertown Road, Montville, Connecticut. The facility is owned and operated by Wireless Solutions III, LLC ("WS"), with offices at Box 284, Old Lyme, Connecticut, 06371. WS leases the land from Antonio J. Iaconiello of Salem, Connecticut.

WS and SCLP have agreed to the proposed shared use of the existing 195 foot guyed lattice tower pursuant to mutually acceptable terms and conditions. WS has authorized SCLP to apply for all necessary permits, approvals and authorizations, which may be required for the proposed shared use of this facility. SCLP is licensed by the Federal Communications Commission ("FCC") to provide cellular telephone service in New London, CT Metropolitan Statistical Area, which includes the area to be served by SCLP's proposed installation.

Enclosed with this request are a site location map, a proposed site plan, and the proposed tower profile. Engineering information concerning the structural carrying capacity of the tower is also provided.

The facility is located on the west side of Butlertown Road, near Connecticut Route 85, just south of Chesterfield (Montville), Connecticut. Tower coordinates are 41° 25' 19" N and 72° 12' 46" W. The primary use of 376 Butlertown Road is a shop - warehouse - parking facility for a water well drilling company. Other light industrial buildings adjoin

the property to the north and south, and the property is bordered by wooded land to the west.

Nextel Communications has already installed antennas at the 185 foot level of the tower, an equipment shelter, and a 6-foot-high chain link fence measuring approximately 40 feet by 60 feet

As shown on the attached drawings and as further described below, SCLP proposes to install nine Allgon Model 7120.16 antennas, approximately 52 inches in height, on a triangular antenna platform with the center of radiation at the 170 foot level. It also proposes to construct an 11 foot x 20 foot equipment shelter at the base of the tower. SCLP's installation will require extending the west side of the fence by 14 feet, for total fence dimensions of 40 feet x 74 feet.

A copy of this letter is being sent to the Mayor of the Town of Montville.

Statutory Considerations

SCLP requests the Council to find that the proposed shared use of the tower facility satisfies the criteria stated in C.G.S. §16-50aa, and to issue an order approving the proposed use.

C.G.S. §16-50aa 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" (C.G.S §16-50aa(c)(1)).

The shared use of the tower satisfies the criteria in C.G.S §16-50aa as follows:

A. **Technical Feasibility.** The existing tower is structurally sound and capable of supporting the proposed shared use of the SCLP antennas at the 170 foot level. Please see the attached design report for this guyed lattice tower which demonstrates that the structure has been designed to accommodate six commercial antenna platforms. The proposed shared use of this tower is therefore technically feasible.

B. **Legal Feasibility.** Under C.G.S §16-50aa, the Council has been authorized to issue an order approving the proposed shared use of an existing tower facility such as the facility located on Butlertown Road (C.G.S §16-50aa(c) (1)). 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) directs the Council to "give such consideration to other state laws and municipal regulations as it shall deem appropriate" in ruling on applications for the shared use of existing tower facilities. Under the authority vested in the Council by C.G.S §16-50aa, an order approving the shared use would permit the

applicant to obtain a building permit for the proposed installation.

C. **Environmental Feasibility.** The proposed shared use of this tower facility would have a minimal environmental effect for the following reasons:

1. The proposed installation would have an insignificant incremental visual impact and would not cause any significant change or alteration in the physical or environmental characteristics of the property. The addition of the proposed antennas would not increase the height of the tower. SCLP's equipment will be housed in an 11 foot x 20 foot equipment shelter located at the base of the tower. Extending the fenced compound to accommodate SCLP's equipment will have negligible environmental effect.

2. The proposed installation would not increase noise levels at the existing facility by six decibels or more.

3. The proposed antennas will not operate with a total radio frequency electromagnetic radiation power density, measured at the tower base, at or above the standard adopted by the State of Connecticut and the FCC. The "worst-case" exposure calculation for a point of interest at the base of the tower in relation to the operation of the proposed antenna array is as follows:

COMPANY	HEIGHT (feet)	POWER DENSITY (mW/cm^2)	STANDARD LIMITS (mW/cm^2)	PERCENT OF STANDARD
Nextel	185	0.0121	0.5673	2.1%
SCLP	170	0.0256	0.5867	4.4%
TOTAL				**6.5%**

As the table demonstrates, the "worst-case" exposure would be only 6.5% of the ANSI/IEE standard, as calculated for mixed frequency sites. Power density levels from SCLP's use of the tower facility would thus be well below applicable ANSI/IEE standards.

4. The proposed installation would not require any water or sanitary facilities, or generate air emissions or discharges to water bodies. After construction is completed (approximately four weeks), the proposed installation would not generate any vehicular traffic other than periodic maintenance visits. The proposed use of the facility would therefore have a minimal environmental effect, and is environmentally feasible.

D. **Economic Feasibility.** SCLP has entered into an agreement with WS to share use of the tower and to construct an equipment building. The proposed facility sharing is therefore economically feasible.

E. **Public Safety Concerns.** As stated above, the existing tower is structurally capable of supporting SCLP's proposed antennas, and radio frequency emissions fall well below State and Federal safety standards. SCLP is not aware of any other public safety concerns relative to the proposed sharing of the tower. In fact, the provision of new or improved wireless coverage in the area is expected to enhance the safety and welfare of Montville's residents. The proposed-shared use of this facility would also improve public safety for travelers along Route 85 in the town of Montville.

Conclusion

For the reasons discussed above, the proposed shared use of the existing tower facility at Butlertown Road in the town of Montville satisfies the criteria stated in C.G.S. §16-50aa and advances the General Assembly's and the Council's goal of preventing the proliferation of communication towers in Connecticut. SCLP therefore respectfully requests that the Council issue an order approving the proposed shared use. Thank you for your attention to this matter.

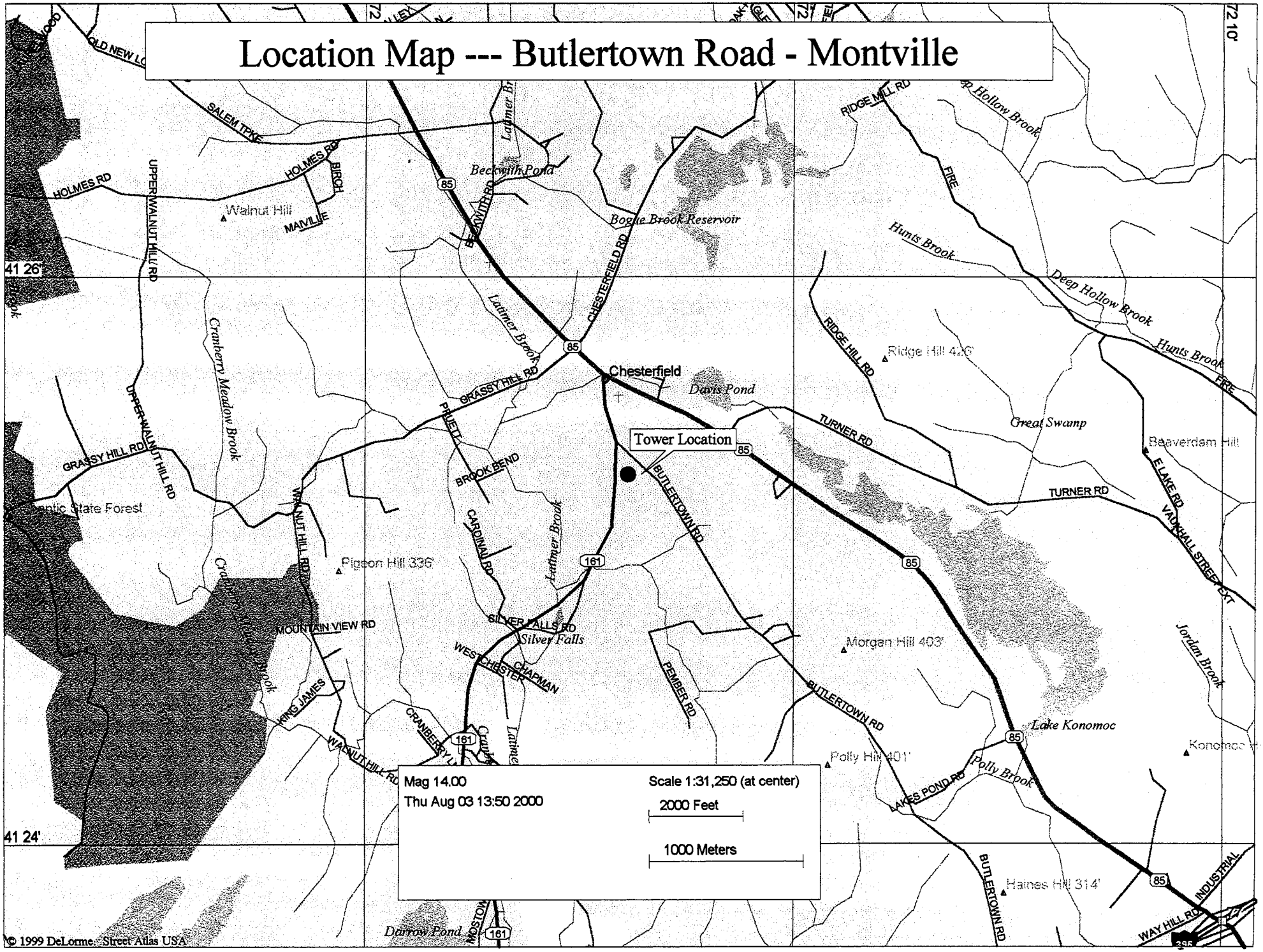
Sincerely,

Peter W. van Wilgen
Director – Real Estate Operations

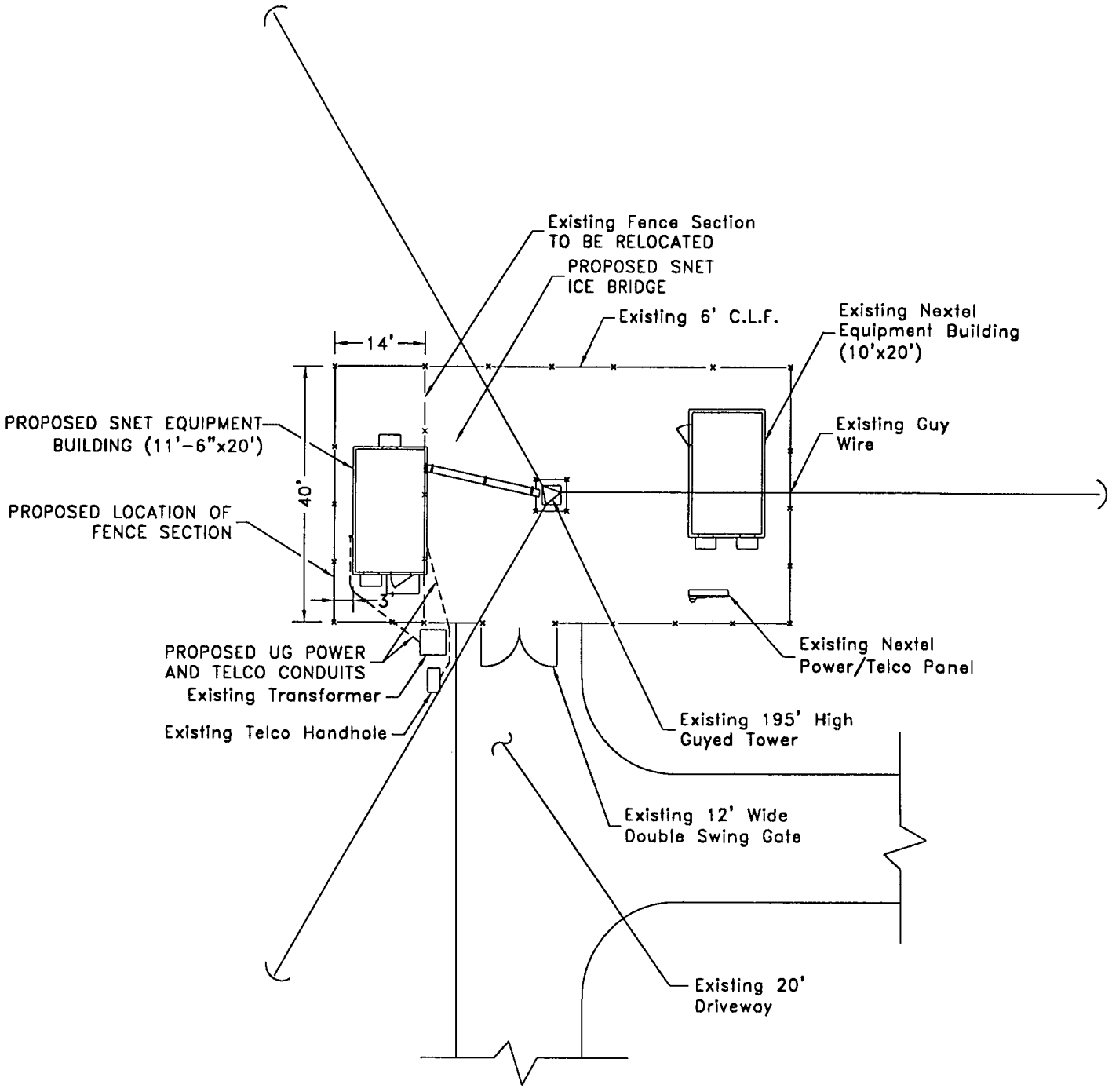
cc: Honorable Patrick J. Dougherty
Mayor -Town of Montville
310 Norwich-New London Turnpike
Uncasville, Connecticut 06382

Enclosures

Location Map --- Butlertown Road - Montville



RAD. CENTER: _____FT. (AGL)

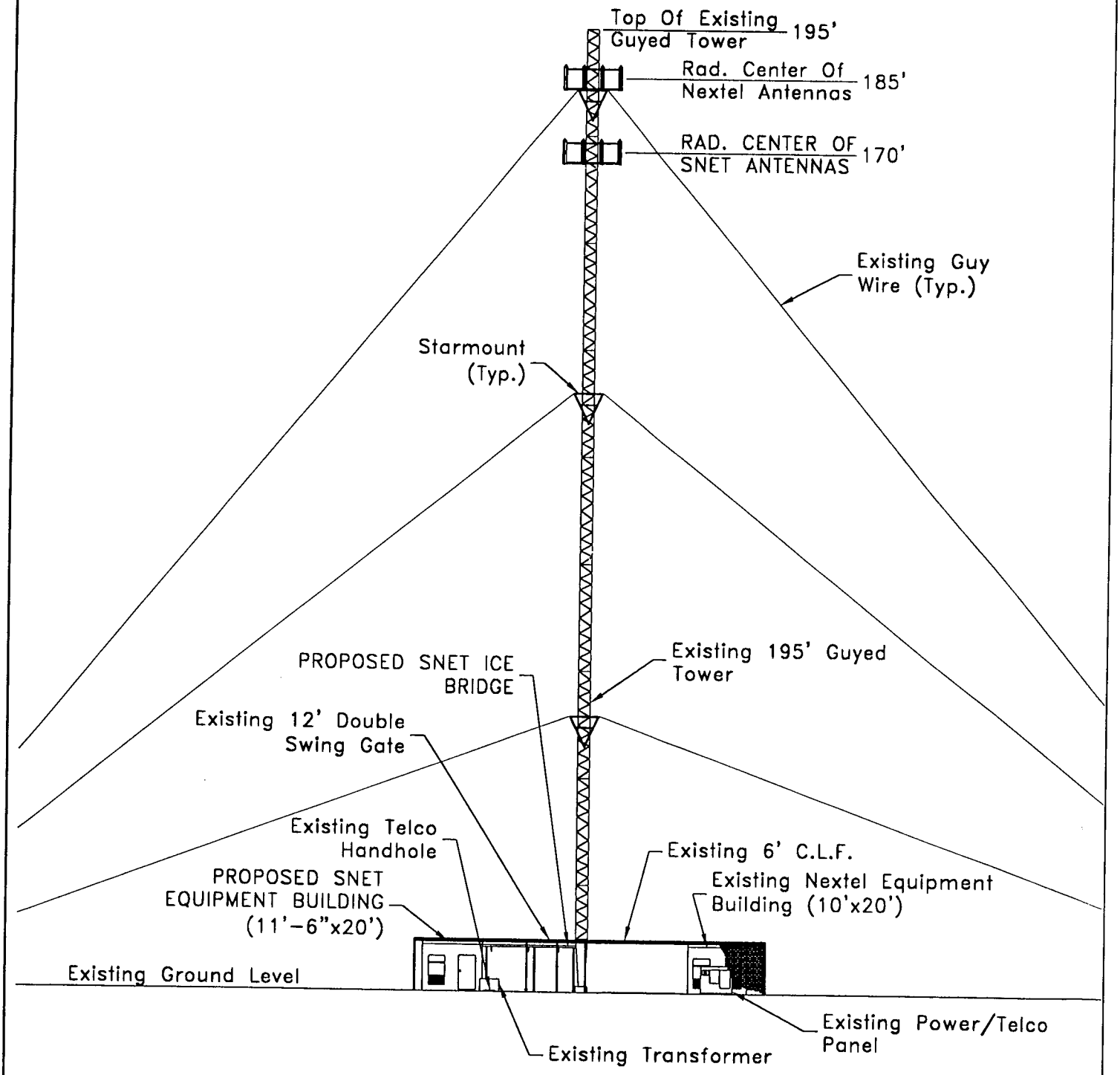


SITE PLAN

SNET MOBILITY PRELIMINARY DESIGN EXHIBIT	NORTH	SITE NAME: CHESTERFIELD	SNET #:
		ADDRESS: 376 BUTLERTOWN ROAD MONTVILLE, CT 06353	MGI #: 15364
			TASK #: 1156
		DRAWN: MDJ | CHECKED: GMP | SCALE: N.T.S.	DATE: 9/22/00

Maguire Group Inc.
Architects · Engineers · Planners
One Court Street
New Britain, Connecticut 06051

RAD. CENTER: 170 FT. (AGL)

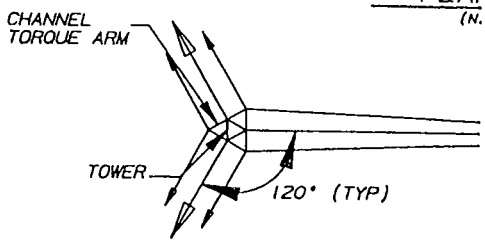


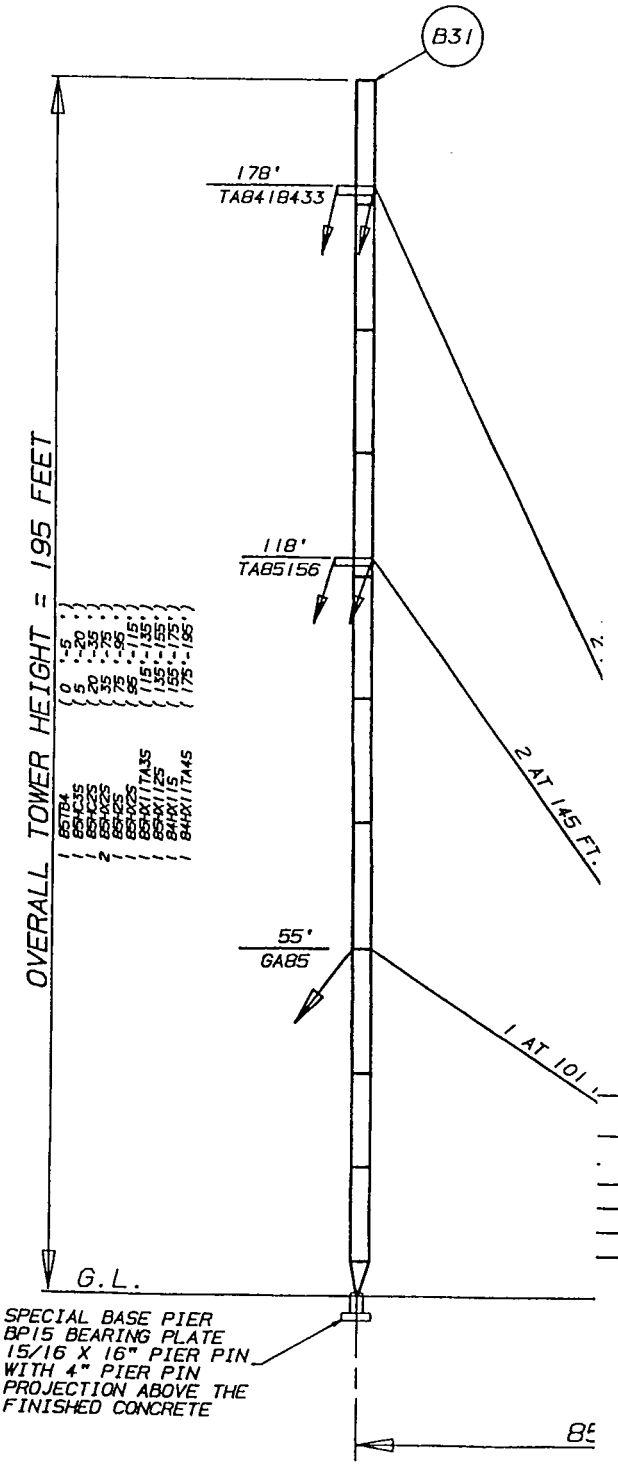
ELEVATION VIEW

SNET MOBILITY PRELIMINARY DESIGN EXHIBIT	NORTH	SITE NAME: CHESTERFIELD	SNET #:
		ADDRESS: 376 BUTLERTOWN ROAD MONTVILLE, CT 06353	MGI #: 15364
			TASK #: 1156
		DRAWN: MDJ | CHECKED: GMP | SCALE: N.T.S.	DATE: 9/22/00

Maguire Group Inc.
Architects · Engineers · Planners
One Court Street
New Britain, Connecticut 06051

PLAI
(N.





ELEVA

D000116ANC - ANCHOR MATERIAL

ITEM	QTY.	PART NO.	ITEM DESCRIPTION	DWG. NO.
A1	1	15/16X16PP	PIN PIER 15/16"DX16"LONG HDG	N/A
A2	3	KA1608TOP	ANGLE ANCHOR 4X.38X18'5-1.75TU	*C901996
A3	1	A000847	ANCHOR BLOCK DETAILS/WIRELESS	A000847,1-3
A4	1	A000848	FOUNDATION DETAILS BP/WIRELESS	A000848,1-3
A5	1	A810214	FOUNDATION & ANCHOR TOLERANCE	A810214
A6	1	A951409	ANCHOR INSTALLATION DRAWING	A951409

D000116LA - TOWER MATERIAL

ITEM	QTY.	PART NO.	ITEM DESCRIPTION	DWG. NO.
B1	1	B5TB4	BASE TAPERED 4.59'GRDLUGW/ACWS	C911872
B2	1	B5HC3S	SECTION ASSY B5HC 15'3EH 67 SL	C900705
B3	1	B5HC2S	SECTION ASSY B5HC 15'3EH 66 SL	C900705
B4	3	B5HX2S	SECTION ASSY B5HX 20'3EH 6 6	C900708
B5	1	B5H2S	SECTION ASSY B5H 20'3EH 6 6 SL	C900705
B6	1	B5HX11TA3S	SECTION ASSY B5HX 20'3EH 3/17	C900652
B7	1	B5HX11T2S	SECTION ASSY B5HX 20'3EH 66 HB	C900708
B8	1	B4HX11S	SECTION ASSY B4HX 20'2.5EH HB	C820879
B9	1	B4HX11TA4S	SECTION ASSY B4HX 20'2.5EH3/17	C900652
B10	1	GAB5	GUY BRACKET ASSY B5 W/TOR BARS	C820171
B11	1	TAB5156	TORQUE ARM ASSY CHAN B5 1533.9	C910658
B12	1	TAB418433	TORQUE ARM ASSY CHAN B4 18X43	C910659
B13	1	BP15	PLATE BEARING 2X1.35'SQ W/ACWS	N/A
B14	350	1/2EHS	GUY WIRE 1/2-X HIGH STRENGTH	N/A
B15	1000	5/8EHS	GUY WIRE 5/8-X HIGH STRENGTH	N/A
B16	1350	7/8EHS	GUY WIRE 7/8-X HIGH STRENGTH	N/A
B17	9	11/4X18TB	TURNBUCKLE 1-1/4X18 EYE & JAW	N/A
B18	6	11/2X18TB	TURNBUCKLE 1-1/2X18 EYE & JAW	N/A
B19	6	BG2115	BIG GRIP 1/2 W/KEEPER GC65266	B700607
B20	12	BG2111	BIG GRIP 5/8 W/KEEPER GC65268	B700607
B21	12	BGWS7023	BIG GRIP 7/8 W/KEEPER GC65270	B700607
B22	6	5/8THH	THIMBLE 5/8 HEAVY OPEN	N/A
B23	12	3/4THH	THIMBLE 3/4 HEAVY OPEN	N/A
B24	12	1THH	THIMBLE 1 HEAVY OPEN	N/A
B25	3	3/4S	SHACKLE 3/4 4-3/4 TON	N/A
B26	6	7/8S	SHACKLE 7/8 6-1/2 TON	N/A
B27	6	11/8S	SHACKLE 1-1/8 9-1/2 TON	N/A
B28	3	TBSAFETYHL	CABLE 25' 5/16GW W/2 5/16CCF	B680324
B29	2	BGK16	KIT BASE GRD 36,48,80,90,C,D	C731105
B30	1	AGK1GL	KIT ANC GRD GUYED CW4STTIN 1.25TB WI	C731105
B31	2	CP6A1	PLATE ASSY CAP 6" FL PL'S	B760739
B32	20	WAFB01211	BRACKET W/G ASSY 80 BRCTUBEMTD	C961161
B33	76	WAFB01212	BRACKET W/G ASSY 80 BRCTUBEMTD	C961161
B34	3	340028	CLAMP, NO.ALC-438 (3/16-1/2)	N/A
B35	6	340029	CLAMP, NO.ALC-744 (9/16-3/4)	N/A
B36	6	9842L	CLAMP, AGK 7/8 & 1" GROUNDING	B801367
B37	1	ACWS	SIGN ANTI-CLIMB WARNING ASSY	N/A
B38	1	A790135	BOLT ASSY DRAWING	A790135
B39	1	B651264	STEPBOLT DETAIL	B651264
B40	1	B820511	ANCHOR ATTACHMENT DETAIL	B820511

D000116SD - SAFETY DEVICE

ITEM	QTY.	PART NO.	ITEM DESCRIPTION	DWG. NO.
C1	1	RLFBHM	HARNESS ROHN-LOC MEDIUM W/RLSC & LAN	N/A
C2	1	RLTPA5	POST ASSY TOP RL 80 SEC 6X6"FL	C741234
C3	9	RLCRA2	RESTRAINT ASSY CABLE RL 4"PIPE	N/A
C4	1	RLB8A3	BRACKET ASSY BOTT RL 3 PIPE	N/A
C5	1	RLC200	CABLE ROHN LOC 200'TWR 3/8EHS	N/A
C6	1	A790135	BOLT ASSY DRAWING	A790135

GUY WIRE DATA

	ULT. STR. (LBS)	IN. T. (LBS)	TURN-BUCKLE	SHACKLE (IN)	THIMBLE (IN)
	26900.0	2690.0	1-1/4"	3/4	5/8 HVY
	42400.0	4240.0	1-1/4"	7/8	3/4 HVY
	79700.0	7970.0	1-1/2"	1-1/8	1 HVY

TOWER SITE: EAST LYME / Chesterfield
COUNTY: NEW LONDON, CT

No.	Revision Description	Date	Rev By	Ckd By	Appd By

ROHN

Scale: NONE	By	Date
Drawn:	LLK	4/27/00
Checked:	JR	4/28/00
App. Eng.:	JS	5/1/00
Parent File:		

195' MODEL 80 TOWER ASSEMBLY FOR WIRELESS SOLUTIONS

ENG. FILE: 42591AE001

DWG. NO.: D000116

SHEET 1 OF 1

REV.

TOWER DESIGN LOADING

DESIGN WIND LOAD PER ANSI/TIA/EIA-222-F 1996,
85 MPH BASIC WIND SPEED (1/2" RADIAL ICE LOAD).

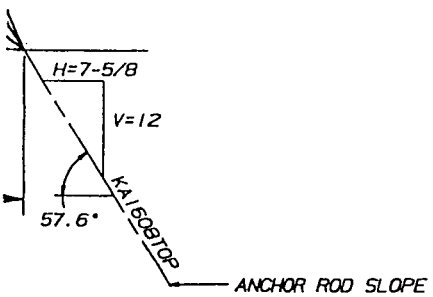
THIS TOWER IS DESIGNED TO SUPPORT THE FOLLOWING LOADS:

ELEVATION (FT.)	ANTENNA TYPE	E.P.A. (SF) NO ICE	E.P.A. (SF) ICE	LINE SIZE
194	(12) ALP9212N ANTENNAS W/ 12' LEG MOUNTING FRAMES	89.5 TOTAL	120.1 TOTAL	(12) 1-5/8"
185	(12) ALP9212N ANTENNAS W/ 12' LEG MOUNTING FRAMES	89.5 TOTAL	120.1 TOTAL	(12) 1-5/8"
170	(12) ALP9212N ANTENNAS W/ 12' LEG MOUNTING FRAMES	89.5 TOTAL	120.1 TOTAL	(12) 1-5/8"
160	(12) ALP9212N ANTENNAS W/ 12' LEG MOUNTING FRAMES	89.5 TOTAL	120.1 TOTAL	(12) 1-5/8"
150	(12) ALP9212N ANTENNAS W/ 12' LEG MOUNTING FRAMES	89.5 TOTAL	120.1 TOTAL	(12) 1-5/8"
140	(12) ALP9212N ANTENNAS W/ 12' LEG MOUNTING FRAMES	89.5 TOTAL	120.1 TOTAL	(12) 1-5/8"

GENERAL NOTES

1. ROHN COMMUNICATION TOWER DESIGNS CONFORM TO ANSI/TIA/EIA-222-F UNLESS OTHERWISE SPECIFIED UNDER TOWER DESIGN LOADING.
2. ANTENNAS AND LINES LISTED IN TOWER DESIGN LOADING TABLE ARE PROVIDED BY OTHERS UNLESS OTHERWISE SPECIFIED.
3. THE DESIGN LOADING CRITERIA INDICATED HAS BEEN PROVIDED TO ROHN. THE DESIGN LOADING CRITERIA HAS BEEN ASSUMED TO BE BASED ON SITE-SPECIFIC DATA IN ACCORDANCE WITH ANSI/TIA/EIA-222-F AND MUST BE VERIFIED BY OTHERS PRIOR TO INSTALLATION.
4. 10 PERCENT WILL BE ADDED TO THE GUY LENGTH SHOWN FOR THE FINISHED CUT LENGTHS.
5. THE TURNBUCKLE SAFETY METHOD WILL BE USED. REFER TO THE LATEST REVISION OF DRAWING B680324 FOR INSTALLATION.
6. REFER TO THE LATEST REVISIONS OF THE DRAWINGS SHOWN IN THE BILL OF MATERIALS.
7. PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS (SEE DWG. A790135).
8. IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO TEMPORARILY GUY THE STRUCTURE WHEN REQUIRED DURING ERECTION TO MAINTAIN THE STABILITY OF THE STRUCTURE AND TO PREVENT OVERLOADING ANY MEMBER OF THE STRUCTURE.
9. WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA/EIA-222-F, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
10. TOLERANCE ON TOWER STEEL HEIGHT IS EQUAL TO PLUS 1% OR MINUS 1/2%.
11. PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.
12. TOWER MEMBER DESIGN DOES NOT INCLUDE STRESSES DUE TO ERECTION SINCE ERECTION EQUIPMENT AND CONDITIONS ARE UNKNOWN. DESIGN ASSUMES COMPETENT AND QUALIFIED PERSONNEL WILL ERECT THE TOWER.
13. DESIGN ASSUMES THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA/EIA-222-F.
14. TOWER ORIENTATION TO BE DETERMINED BY OTHERS.
15. DESIGN ASSUMES LEVEL GRADE AT TOWER SITE.
16. DESIGN ASSUMES ALP TYPE ANTENNAS ARE MOUNTED SYMMETRICALLY TO MINIMIZE TORQUE.
17. DESIGN ASSUMES THAT ANTENNA TRANSMISSION LINES AND (6) SETS OF WAVEGUIDE BRACE BRACKETS ARE DISTRIBUTED OVER THREE TOWER FACES.
18. TWO SETS OF BRACE MOUNTED WAVEGUIDE BRACKET ASS'Y ARE PROVIDED FROM 5'+/- ELEVATION TO TOP OF TOWER FOR SNAP-ON HANGERS. (FOUR SETS OF WAVEGUIDE BRACE BRACKETS ARE FUTURE.)
19. STEP BOLTS WITH ROHN-LOC SAFETY DEVICE ARE PROVIDED FOR CLIMBING THE ENTIRE TOWER HEIGHT.
20. 12' LEG MOUNTING FRAMES ARE TO BE PROVIDED BY OTHERS.
21. NUMBERS SHOWN IN BALLOONS DENOTE ITEM NUMBERS IN BILL OF MATERIAL.

GUY ELEVATION	SIZE (IN)	TYPE
515	1/2	EHS
1118	5/8	EHS
178	7/8	EHS



EAST Lyme / Chesterfield

REACTIONS		
AT	VERT. (+↓)	HORIZ. (+→)
BASE=0.0 FT	238.5 KIPS	------
85.0 FT	-94.7 KIPS	60.0 KIPS