

Bell Atlantic NYNEX Mobile
20 Alexander Drive
P.O. Box 5029
Wallingford, CT 06492
203-269-8858

Jennifer Young Gaudet
Manager - Regulatory

ORIGINAL

November 22, 1995

HAND DELIVERED

RECEIVED

NOV 22 1995

CONNECTICUT
SITING COUNCIL

Mr. Joel M. Rinebold
Executive Director
Connecticut Siting Council
136 Main Street, Suite 401
New Britain, Connecticut 06051

Re: Bell Atlantic NYNEX Mobile - Antenna Upgrades

Dear Mr. Rinebold:

Bell Atlantic NYNEX Mobile ("BANM" or the "Company") is undertaking a system performance improvement plan which involves upgrading the antenna configurations at most of its cell sites. This letter, together with attached Schedule 1 which provides site-by-site detail, serves as BANM's notice of intent, pursuant to R.C.S.A. § 16-50j-73, of construction which constitutes exempt modifications pursuant to R.C.S.A. § 16-50j-72(b).

In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to the chief elected officials of the municipalities in which the affected cell sites are located. Those individuals are listed on Schedule 2, appended hereto. A sample of the letter sent to those officials is also enclosed.

The changes include some conversions from omnidirectional to sectorized configurations, some changes in antenna model and some additions of directional antennas. As detailed below and on Schedule 1 appended hereto, the changes meet the criteria for exempt modifications.

First, the height of BANM's installations will not be increased at any of the sites; the changes may result in a decrease in height. On most Company-owned monopoles, the dual platform configuration formerly used will be modified by adding a rail assembly to each platform and removing the vertical mounting pipes between them. The panel antennas will be mounted on the top rail assembly. These antennas will replace the top-mounted omnidirectional antennas as well as the transmit/receive antennas which have been mounted between the platforms. These changes will reduce the overall height of the structures (including appurtenances). Similar changes made to lattice towers, while not utilizing a platform mount, will also result

Mr. Joel M. Rinebold
November 22, 1995
Page 2

in reduced overall height at sites where top-mounted omnidirectional antennas have been used.

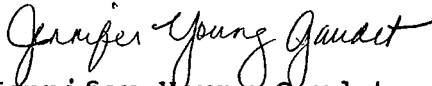
Second, the planned changes will not extend the site boundaries. The antenna upgrade does not involve other changes to the sites.

Third, the planned changes will not increase the noise levels at the existing facilities by six decibels or more. The change in antenna model and any additional antennas will not result in any change in noise levels.

Fourth, operation of the new antennas will not increase the total radio frequency electromagnetic radiation power density at any of the sites to a level at or above the ANSI standard. Included in Schedule 1 are the results of updated power density calculations for BANM's installations. In general, the changes will result in a decrease in power density predictions since sectorization restricts RF channel transmissions to less than a full 360° pattern and reduces effective radiated power to approximately one third of omnidirectional values. It should be noted, however, that the percentage of the ANSI standard may reflect a higher number than that shown in previous filings for sites which predated the 1992 revision to the ANSI standard. Because the effect, if any, of the change in antenna configuration is to decrease the overall power density, no updated calculations have been performed for other uses at shared sites.

Based on the foregoing and the enclosed, the Company respectfully submits that the proposed changes to the antenna configurations at the sites listed on Schedule 1 constitute exempt modifications under R.C.S.A. Section 16-50j-72(b).

Respectfully yours,


Jennifer Young Gaudet
Manager - Regulatory

Enclosures

cc: Municipal officials listed on Schedule 2

SITE NAME	ADDRESS	TOWN	CSC REF	RAD CTR	# OF ANTS	TYPE/MODEL of ANTENNAS	POWER		% OF STANDARD
							DENSITY		
BOLTON	130 VERNON RD	BOLTON	EXMOD	120	3	ALP-9212	0.0474		8.13
BRANFORD	1801 NORTH MAIN ST	BRANFORD	DN 122	107	15	ALP-9212	0.0596		10.22
BRISTOL	32 VALLEY ST	BRISTOL	EXMOD	88	9	ALP-9212	0.0882		15.13
BRUCE GOLF COURSE	1323 KING ST	GREENWICH	EXMOD	98/103	6	ALP-9212	0.0711		12.19
CLINTON	48 COW HILL RD	CLINTON	DN 148	206	12	ALP-9212	0.0161		2.76
DANBURY	24 HOSPITAL AVE	DANBURY	DN 79	204	12	ALP-9212	0.0164		2.81
DARIEN	LEDGE RD	DARIEN	DN 155	100	14	ALP-9212	0.0682		11.7
DURHAM	101R OLD BLUE HILLS RD	DURHAM	DN 161	100	12	ALP-9212	0.0682		11.7
EAST BRIDGEPORT	939 BARNUM AVE	BRIDGEPORT	EXMOD	152	12	ALP-9212	0.0296		5.08
EAST FAIRFIELD	40 BLACKROCK TPKE	FAIRFIELD	PET 304	120	12	ALP-9212	0.0474		8.13
EAST GRANBY	NEWGATE RD	EAST GRANBY	EXMOD	80	8	ALP-9212	0.1067		18.3
EAST LYME	93 ROXBURY RD	EAST LYME	DN 116	158	4	ALP-9209			
EAST NORWALK	FILBERT ST	NORWALK	PET 305	120	10	ALP-9212	0.0274		4.7
ENFIELD	OLIVER RD	ENFIELD	DN 139	150	15	ALP-9212	0.0474		8.13
FAIRFIELD	281 WOODHOUSE RD	FAIRFIELD	DN 86	160	13	ALP-9212	0.0303		5.2
FARMINGTON	RATTLESNAKE MTN	FAIRFIELD	DN 86	160	15	ALP-9212	0.0267		4.58
GLASTONBURY	BIRCH MOUNTAIN RD	FARMINGTON	EXMOD	239	8	ALP-9212	0.012		2.06
GREENWICH	5 PERRYRIDGE RD	GLASTONBURY	DN 58	155	9	ALP-9212	0.0284		4.87
GROTON	68 GROTON LONG POINT RD	GREENWICH	DN 73	106	12	CTY-10510	0.0608		10.43
GUILFORD	131 MANOR RD	GROTON	EXMOD	100	12	ALP-9212	0.0682		11.7
HADDAM	TURKEY HILL RD	GUILFORD	DN 56	150	12	ALP-9212	0.0303		5.2
HAMDEN	1055 WINTERGREEN AVE	HADDAM	DN 58	180	12	ALP-9212	0.0211		3.62
HARTFORD	1 STATE ST	HAMDEN	DN 56A	173	12	ALP-9212	0.0228		3.91
HARTFORD N.W.	439-455 HOMESTEAD AVE	HARTFORD	DN 58	296	9	ALP-9212	0.0078		1.34
KILLINGWORTH	TOWER HILL RD (RT 80)	HARTFORD	DN 126	140	12	ALP-9212	0.0348		5.98
MERIDEN	WEST PEAK	KILLINGWORTH	DN 69	160	12	ALP-9212	0.0267		4.58
MIDDLETOWN	213 COURT ST	MERIDEN	DN 93	78	8	ALP-9209	0.1122		19.25
MILFORD	423 ORONOQUE RD	MIDDLETOWN	DN 126	180	9	ALP-9212	0.0211		3.62
NAUGATUCK	45 PEACH ORCHARD RD	MILFORD	DN 56	100	9	ALP-9212	0.0682		11.7
NEW BRITAIN	155 MYRTLE ST	NAUGATUCK	DN 56B	195	12	ALP-9212	0.018		3.09
NEW HAVEN	54 MEADOW ST	NEW BRITAIN	PET 283	93	12	ALP-9212	0.079		13.55
NEW HAVEN EAST	153 FORBES AVE	NEW HAVEN	DN 140	146	15	ALP-9212	0.032		5.49
NEW LONDON	59 WESTWOOD AVE	NEW HAVEN	PET 329	72	12	CTY-10510	0.1317		22.59
NEWTOWN	WASHINGTON AVE (RT 34)	NEW LONDON	EXMOD	80	2	DB-809	0.1067		18.3
NORTH BRANFORD	83 REEDS GAP RD	NEWTOWN	DN 89	182	9	ALP-9212	0.0206		3.54
NORTH BRIDGEPORT	1330 CHOPSEY HILL RD	NORTH BRANFORD	DN 56	87	15	ALP-9212	0.0902		15.47
		BRIDGEPORT	EXMOD	132	12	ALP-9212	0.0392		6.12

SITE NAME	ADDRESS	TOWN	CSC REF	RAD CTR	# OF ANTS	TYPE/MODEL of ANTENNAS	POWER DENSITY	% OF STANDARD
NORTH HAVEN	117 WASHINGTON AVE	NORTH HAVEN	DN 117	122	15	ALP-9212	0.0459	7.87
NORTH NORWALK	WEST ROCKS RD	NORWALK	PET 284	83	15	ALP-9212	0.0991	17
NORWALK	50 ROCKLAND RD	NORWALK	DN 73	171	12	ALP-9212	0.0234	4.01
OLD SAYBROOK EAST	2 CLARK ST	OLD SAYBROOK	PET 327	90	9	ALP-9212	0.0843	14.46
PORTLAND	OLD MARLBOROUGH TPKE	PORTLAND	DN 58	160	10	ALP-9212	0.0267	4.58
REDDING	80 LONETOWN RD	REDDING	PET 311	95	2	PD-10009	0.0757	12.98
RIDGEFIELD	76 EAST RIDGE AVE	RIDGEFIELD	DN 113	140	9	ALP-9212	0.0348	5.97
RIVERSIDE	1111 EAST PUTNAM AVE	GREENWICH	DN 120	47	12	ALP-9212	0.3091	53.02
ROCKY HILL	FRANCE ST	ROCKY HILL	DN 58	140	12	ALP-9212	0.0348	5.97
SOMERS	126 PIONEER HTS RD	SOMERS	DN 58	155	12	ALP-9212	0.0284	4.87
SOUTHBURY	KETTLETOWN RD	SOUTHBURY	DN 88	230	12	ALP-9212	0.0129	2.21
STAMFORD	300 TRESSER BLVD	STAMFORD	DN 73	206	10	ALP-9209	0.0161	2.76
TALCOTT	TALCOTT MOUNTAIN	BLOOMFIELD	DN 107	55	3	ALP-6008	0.2657	38.72
TRUMBULL	SCIENCE CENTER				3	ALP-11008		
VERNON	BOOTH HILL RD/ VIDEO LN	TRUMBULL	DN 77	230	15	ALP-9212	0.0129	2.21
WEST HARTFORD	SOUTH ST	VERNON	DN 58A	120	12	ALP-9212	0.0474	8.13
WEST HAVEN	570 NEW PARK AVE	WEST HARTFORD	DN 131	150	14	ALP-9212	0.0303	5.2
WETHERSFIELD	24 ROCKDALE RD	WEST HAVEN	DN 56	169	12	ALP-9212	0.0239	4.1
WILLIMANTIC	100 GREAT MEADOW RD	WETHERSFIELD	DN 139	115	12	ALP-9212	0.0516	8.86
WILLINGTON	349 MOUNTAIN RD	WILLIMANTIC	EXMOD	193	4	PD-10017	0.0183	3.14
WILTON	56 COS GROVE RD	WILLINGTON	DN 58	138	10	ALP-11011	0.0359	6.15
WINDSOR	128 OLD MATHER RD	WILTON	DN 94	178	12	ALP-9212	0.0216	3.7
WINDSOR SOUTH	482 PIGEON HILL RD	WINDSOR	DN 58	155	15	ALP-9212	0.0284	4.87
WOLCOTT	599 MATIANUCK AVE	WINDSOR	DN 137	100	10	ALP-9212	0.0682	11.7
WOODSTOCK	347 EAST ST	WOLCOTT	DN 56	167	12	ALP-9212	0.0245	4.2
	WEST QUASSETT RD	WOODSTOCK	EXMOD	134	2	PD-1110R	0.038	6.52



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401
New Britain, Connecticut 06051-4225
Phone: 827-7682

October 21, 1994

David S. Malko
Bell Atlantic Mobile
20 Alexander Drive
P.O. Box 5029
Wallingford, CT 06492

RE: Metro Mobile CTS of Hartford, Inc., notice of intent to install antennas and associated equipment on an existing tower owned by the State of Connecticut located on Newgate Road in East Granby, Connecticut.

Dear Mr. Malko:

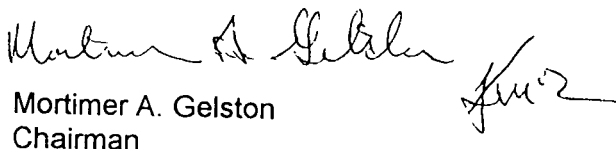
At a meeting held October 20, 1994, the Connecticut Siting Council (Council) acknowledged your notice of an exempt modification at an existing tower site located on Newgate Road off the Metacomet Trail on Peak Mountain in East Granby, Connecticut, pursuant to section 16-50j-73 of the Regulations of State Agencies (RSA).

The proposed modification is to be implemented as specified in your notice dated September 28, 1994. The modification is in compliance with the exception criteria in RSA section 16-50j-72(b) as changes to an existing facility that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by 6 decibels, and increase the total radio frequency 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 section 22a-162 of the Connecticut General Statutes.

This shared use of an existing tower protects the public interest by avoiding proliferation of additional unnecessary tower structures.

Please notify the Council when all work is complete.

Very truly yours,


Mortimer A. Gelston
Chairman

MAG/SMH/ss

cc: Honorable Charles Chatey, Town of East Granby

Bell Atlantic Mobile
20 Alexander Drive
P.O. Box 5029
Wallingford, CT 06492
203 269-8858

David S. Malko, P.E.
General Manager - Engineering

October 13, 1994

Mr. Joel M. Rinebold, Executive Director
Connecticut Siting Council
136 Main Street
Suite 401
New Britain, Connecticut 06051

Re: Metro Mobile CTS of Hartford, Inc. - East Granby Site

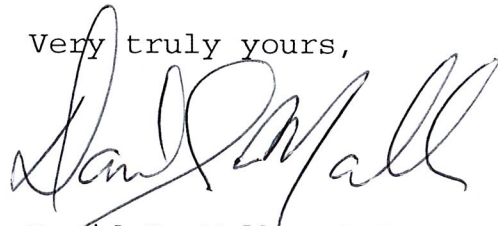
Dear Mr. Rinebold:

This letter is in response to the Council's request for additional information regarding the existing tower site on Newgate Road in East Granby. Attached are portions of the engineering drawings for the structure and an as-built photograph showing the site as it currently exists.

As the tower drawing title block indicates, this structure was specifically manufactured to include cellular use. The pole elevation drawing also shows that the structure was designed to support additional attachments beyond the currently installed beacon. The photo verifies that the tower is identical in all respects to typical monopole structures used for telecommunications purposes and with which the Council is familiar.

I trust this information satisfies your request. If you require any additional information please let me know.

Very truly yours,



David S. Malko, P.E.
General Manager - Engineering

Attachment

RECEIVED

OCT 14 1994

CONNECTICUT
SITING COUNCIL

30	10	-----	GALV. HEAVY HEX NUTS SAME SIZE AS A-BOLT A-36	33
37	16	-----	FLAT WASHER SAME SIZE AS A-BOLT F436	6
			TOTAL CAGE WEIGHT	711
			TOTAL POLE WEIGHT	4090

(3 REQ'D)

4243#
50% for galvanizing

NOTES

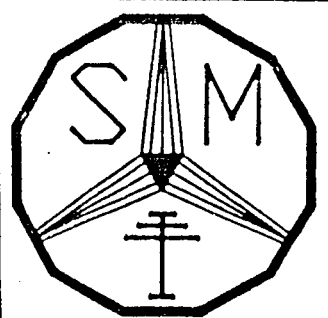
- 1) SHAFT MATERIAL SHALL BE ASTM A572 GR50 OR A607 GR. 50.
- 2) HANDHOLE FRAME MATERIAL TO BE ASTM A36 GR50.
- 3) BASE PLATE MATERIAL SHALL BE ASTM A36.
- 4) FINISH HOT DIPPED GALVANIZED ASTM-A123.
- 5) WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.1.
- 6) MARK POLE WITH 2" WELD BEAD MARK NUMBER 1, 2 & 3.
- 7) ARM CONNECTION BOLTS TO BE ASTM-A325.
- 8) HIGH STRENGTH NUT TO BE A563 GR. A.
- 9) ALL LONGITUDINAL SEAM WELDS SHALL BE 60% MIN PENETRATION.
- 10) ANCHOR BOLT MATERIAL TO BE ASTM-A36 M55.
- 11) BASE MUST BE GROUTED TO PREVENT ANCHOR BOLT BENDING.

F. E. HAZARD, LTD.
(Electrical Constructors)
199 Brickyard Road
Farmington, CT 06032

EW
REQUIRED FACTOR
□
ANCE WITH THE MARKINGS OR ... THE PLANS ... THE ... AND RELATING ALL FABRICATION ... AND FOR
SPORTATION
4/27/93

How Grant, Eng.
77-454-8730
ext. 214

ITEM NO. 14
State Project No. 39-084
FAP NO. _____
Town E. Granby



Summit Manufacturing Inc.

225 KIWANIS BLVD.
W. HAZLETON PA. 18201

PAGE
1 of 2

DATE
3-31-93

REF. DRAWING

JOB NO. & NAME: #936 — BRADLY AIRPORT - 75'-0" CELLULAR / BEACON POLE
SCALE: N.T.S. DRAWN BY: M.P.S. APPR. BY: PJR

REVISIONS

REV.	DATE	DESCRIPTION
		(See changes in Reel)

93601

DRAWING #
936-01



Bell Atlantic Mobile
20 Alexander Drive
P.O. Box 5029
Wallingford, CT 06492
203 269-8858

David S. Malko, P.E.
General Manager - Engineering

September 28, 1994

RECEIVED

SEP 28 1994

**CONNECTICUT
SITING COUNCIL**

Mr. Joel M. Rinebold, Executive Director
Connecticut Siting Council
136 Main Street
Suite 401
New Britain, Connecticut 06051

Re: Metro Mobile CTS of Hartford, Inc. - East Granby Site

Dear Mr. Rinebold:

Metro Mobile CTS of Hartford, Inc. ("Metro Mobile" or the "Company") plans to install antennas and related equipment at the FAA obstruction/hazard light tower site owned by the State of Connecticut on Newgate Road in East Granby, Connecticut. Please accept this letter as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b). In further compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to the First Selectman of East Granby.

The existing facility is one of three recently constructed replacement FAA obstruction/hazard light towers located off the Metacomet trail on Peak Mountain in East Granby. The light tower on which we propose to install our antennas is the middle tower. Metro Mobile proposes to install twelve (12) Swedcom antennas. Metro Mobile also proposes a single, story, approximately 12' x 25' pre-engineered panel type building which will contain radio transmission equipment. The building will be set on a 1' thick reinforced concrete slab.

The addition of Metro Mobile's antennas and equipment to the facility does not constitute a modification as defined in 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 fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b).

First, the height of the existing facility will be unaffected. The existing tower is a 78' high monopole which sets on a concrete foundation which rises 5' above the ground level for an overall tower height of 83' AGL. All twelve (12) Swedcom antennas will be installed on three 12" long mounting frames which will be fastened to the existing three-sided tower platform. The center of radiation will be 78' AGL for all antennas.

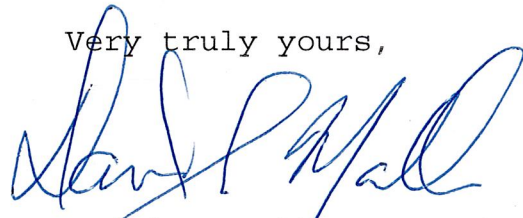
Second, the proposed addition will not extend the site boundaries beyond the lessor's property. The proposed equipment shelter will be located adjacent to the monopole on the south side and be enclosed by an 8' high chain link fence with barbed wire on the top. (See enclosed site plan, Attachment 1.)

Third, the proposed addition will not increase the noise levels at the existing facility by six decibels or more. The only noise will be from air conditioners, when in use.

Fourth, the operation of the antennas will not increase the total radio frequency electromagnetic radiation power density to a level at or above the ANSI standard. Presently, there are no antennas located on this tower which is used solely for the mounting of lights. A "worst case" calculation for a point at the base of the pole indicates that the operation of Metro Mobile's antennas would result in a power density level of 0.1122 mW/cm^2 at this site. This power density level is 19.3% of the ANSI standard for uncontrolled environments at the cellular frequencies used.

For the foregoing reasons, Metro Mobile respectfully submits that the proposed additions of antennas and associated equipment at the East Granby facility constitutes an exempt modification under R.C.S.A. Section 16-50j-72(b).

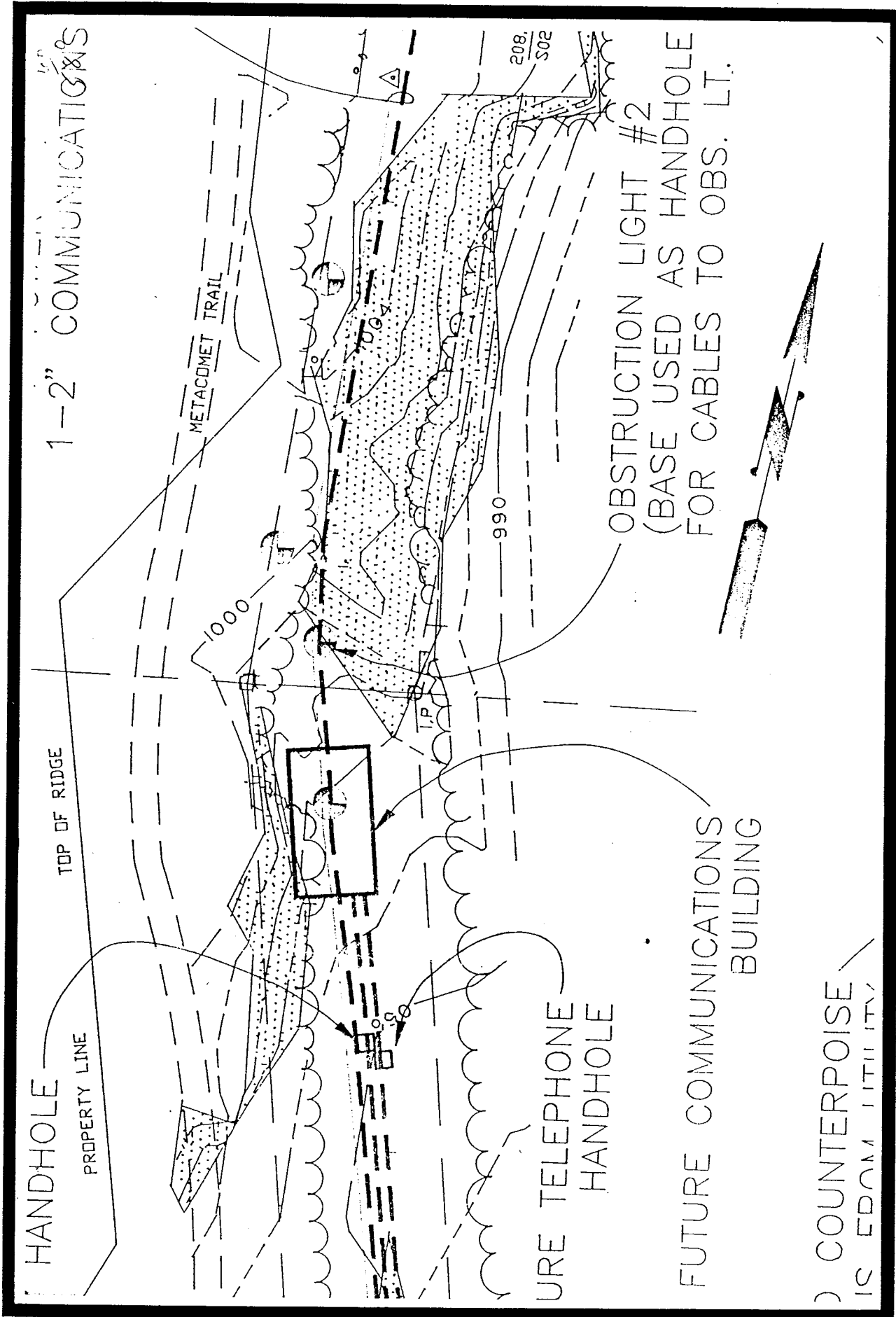
Very truly yours,

A handwritten signature in blue ink, appearing to read 'David S. Malko', written in a cursive style.

David S. Malko. P.E.
General Manger - Engineering

Attachments

cc: Honorable Charles Chatey, East Granby First Selectman



PORTION OF SITE PLAN SHOWING EXISTING
 OBSTRUCTION LIGHT AND PROPOSED
 COMMUNICATIONS BUILDING

Bell Atlantic Mobile
20 Alexander Drive
P.O. Box 5029
Wallingford, CT 06492
203 269-8858

David S. Malko, P.E.
General Manager - Engineering

September 28, 1994

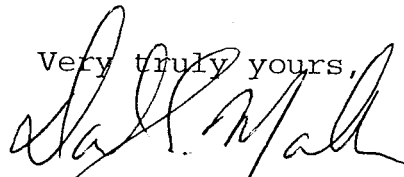
The Honorable Charles Chatey, First Selectman
Town of East Granby
Town Hall
9 Center Street
P. O. Box 1858
East Granby, Connecticut 06026

Dear Selectman Chatey:

Metro Mobile CTS of Hartford, Inc. ("Metro Mobile" or the "Company") plans to install antennas and associated equipment at the State of Connecticut FAA obstruction/hazard lights site on Newgate Road in East Granby. As required by Section 16-50j-73 of the Regulations of Connecticut State Agencies (R.C.S.A.), please accept this letter and the attached letter to the Connecticut Siting Council dated September 28, 1994, as notice of intent of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b).

The attached letter fully sets forth the Company's proposal. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please contact the undersigned or Mr. Joel M. Rinebold, Executive Director, Connecticut Siting Council at 827-7682.

Very truly yours,



David S. Malko, P.E.
General Manager - Engineering

Attachment