



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

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

March 20, 1998

Peter J. Tyrrell  
Senior Counsel  
Springwich Cellular Limited Partnership  
500 Enterprise Drive  
Rocky Hill, CT 06067-3900

Re: Springwich Cellular Limited Partnership notice of intent to modify an existing telecommunications facility located at 125 South Main Street, West Hartford, Connecticut.

Dear Mr. Tyrrell:

At a public meeting held on March 16, 1998, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility in West Hartford, Connecticut, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies. This acknowledgement was made consistent with a recommendation of the Town of West Hartford that the platform for a second wireless carrier would not be placed on the tower at this time, until Council approval after further consultation with the Town.

The proposed modifications are to be implemented as specified here and in your notice dated January 20, 1998. 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 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 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 frequency 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/RKE/sg

c: Honorable Robert R. Bouvier, Mayor, Town of West Hartford

OFFICE OF  
CORPORATION COUNSEL  
AND ASSISTANT  
CORPORATION COUNSEL

February 25, 1998

RECEIVED  
FEB 27 1998  
CONNECTICUT  
SITING COUNCIL

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

Re: Springwiche Cellular Limited Partnership - West Hartford Cell Site (125 South Main Street)

Dear Mr. Rinebold:

The Town of West Hartford has recently adopted a zoning ordinance regulating PCS sites within West Hartford. The application pending before the Siting Council at 125 South Main Street involves the replacement of an existing monopole tower with a new tower of the same height. The new tower is designed, however, to support additional antenna loading and the applicant has provided you with supporting documentation which suggests that it may collocate additional antennae (possibly including PCS antennae) on this tower in the future. As a result of the reference in the application materials to PCS antenna loading, the matter was referred to me to look into it

I have since spoken with Peter Tyrell, counsel for Springwiche Cellular Limited Partnership. He advises me that Springwiche has no current plans to collocate any PCS antennae onto this tower and that the data in Springwiche's application referring to PCS antenna loading was only provided in an effort to give the Siting Council all of the relevant information which it might wish to have. In light of that fact, the Town has no concerns with the application presently before you.

The Town does take the view that before a PCS carrier may collocate onto this tower in the future a site plan approval should be obtained from the Town. This site plan application is nominal in terms of requirements and involves no hearing process. It should not conflict with any of your agency requirements. It does, however, allow us to keep track of the licensed PCS carriers' buildout throughout our town in order to permit us to regulate the location of PCS equipment effectively. As you are well aware, wireless communication sites all fit together as a giant electronic jigsaw puzzle. It is important for us to have data on all of the sites in a network in order to evaluate applications for new sites as they arise.

8083



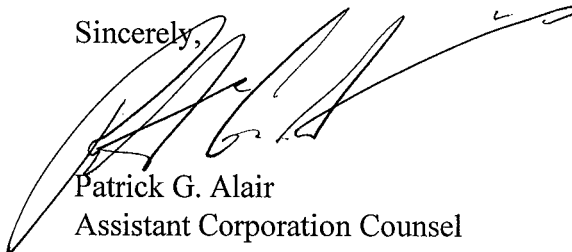
TOWN OF WEST HARTFORD 50 SOUTH MAIN STREET  
WEST HARTFORD, CONNECTICUT 06107-2431  
(860) 523-3171 FAX: (860) 523-3162

 Printed on Recycled Paper

Letter to Mr. Joel Rinebold  
Re: Springwich Cellular Limited Partnership - West Hartford Cell Site (125 South Main Street)  
February 25, 1998  
Page 2

If I can be of any further assistance to you, or if you have any questions about this matter, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "Patrick G. Alair", written over the word "Sincerely,".

Patrick G. Alair  
Assistant Corporation Counsel

- c. Hon. Robert Bouvier, Town Mayor  
Barry M. Feldman, Town Manager  
Michael McGoldrick, Corporation Counsel  
Ronald Van Winkle, Director of Community Services  
Donald R. Foster, Town Planner  
Peter J. Tyrrell, General Counsel, Springwich Cellular Limited Partnership  
Peter Van Wilgen  
File: 125 South Main Street

OFFICE OF  
CORPORATION COUNSEL  
AND ASSISTANT  
CORPORATION COUNSEL

January 30, 1998

RECEIVED

FEB 02 1998

CONNECTICUT  
SITING COUNCIL

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

Re: Springwich Cellular Limited Partnership - West Hartford Cell Site (125 South Main Street)

Dear Mr. Rinebold:

We are in receipt of a letter dated January 20, 1998 through which Springwich Cellular Limited Partnership proposes to replace an existing cellular tower (monopole) at 125 South Main Street. The Town of West Hartford has questions about the replacement of this tower which we are attempting to resolve with Springwich at this time.

I hope to be able to contact you in the near future with a more detailed position after I am able to communicate with Springwich. Thank you for your consideration of this matter.

Sincerely,



Patrick G. Alair  
Assistant Corporation Counsel

- c. Hon. Robert Bouvier, Town Mayor  
Barry M. Feldman, Town Manager  
Michael McGoldrick, Corporation Counsel  
Ronald Van Winkle, Director of Community Services  
Donald R. Foster, Town Planner  
Peter J. Tyrrell, General Counsel, Springwich Cellular Limited Partnership  
File: 125 South Main Street

8061



TOWN OF WEST HARTFORD 50 SOUTH MAIN STREET  
WEST HARTFORD, CONNECTICUT 06107-2431  
(860) 523-3171 FAX: (860) 523-3162

 Printed on Recycled Paper

**Springwich Cellular Limited Partnership**

500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7755  
Fax: (860) 513-7614

**Peter J. Tyrrell**  
*General Counsel*

January 20, 1998

**RECEIVED**

**JAN 21 1998**

**CONNECTICUT  
SITING COUNCIL**

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

**Re: Springwich Cellular Limited Partnership - West Hartford Cell Site**

Dear Chairman Gelston:

Springwich Cellular Limited Partnership ("SCLP") requests the authority to replace the existing 100 foot monopole tower, which measures 12.45 inches at the base and tapers to 3.29 inches at the top of the tower. The tower is currently located on Southern New England Telephone (SNET) premises at 125 South Main Street in the town of West Hartford, Connecticut. This proposal will allow SCLP the opportunity to extend its offering of digital service in the current service area. Please accept this letter as notice of intent, pursuant to R.C.S.A. Section 16-50j-72(b)(2) and (3) of the placement of associated equipment on an existing facility tower. In further compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to the Mayor of West Hartford.

Our current antenna configuration of (2) panel antennas brings the existing tower to its design load capacity. These antennas are not capable of supporting our current plans of offering digital service. The digital system requires that we convert our existing antenna array to a directional system.

The existing monopole's current size does not permit use of this tower for future expansion or multiple carrier use. This tower was constructed by the parent company (SNET) in the early 1970's and is not capable of supporting either proposal listed below. Due to these circumstances, SCLP would like to offer two different proposals for the Council's consideration. They are:

First Proposal:

SCLP would like to replace the existing light duty monopole with a new 100 foot monopole, 34 inches in diameter at the base and tapering to 14 inches at the top, to support an antenna platform which will be mounted at the top of the tower (See attachment #1). This platform will support the mounting of (9) nine directional antennas

(Swedcom ALP Model 11011N) which will be secured to the platform. SCLP also plans to install additional radio transmission equipment inside the existing central office building which is adjacent to the existing tower.

Second Proposal:

As an alternative, SCLP would like to suggest that the Council consider allowing SCLP to replace the existing tower with a 100 foot monopole, 34 inches in diameter at the base and tapering to 14 inches at the top, to support two (2) platforms for mounting two sets of directional antennas (See attachment #2). The first platform would be equipped as described in the first proposal. The second platform would be installed with approximately a ten (10) to fifteen (15) foot vertical separation. This arrangement would allow for diversity when considering the equipment space requirements of future clients, due to different antenna manufacturers' makes and models. These antennas would be mounted in the same fashion as described above, but on the second platform. Prior to SCLP installing this second platform for another wireless service provider, it would seek the approval from the Connecticut Siting Council.

Neither of these proposed applications of SCLP's antennas and equipment to this tower site does not constitute a substantial environmental impact, since such additions do not cause a significant change or alteration in the physical or environmental characteristics of the site (see attached site sketch). Rather, the planned changes to the existing facility tower falls squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b).

Finally, this proposed addition will not increase the noise levels at the existing facility by six decibels or more. The operation of the additional antennas will not increase the total radio frequency electromagnetic radiation power density to a level at or above the ANSI standard. A "worst-case" calculation, for both proposals, from a point of interest on the roof top indicates that SCLP's cellular operations result in a Power Density Calculation of 5.47%, which is 27.33% of the maximum permissible emissions allowed in a uncontrolled environment. (See chart listings) This calculation was arrived at using a platform height of 99 ft. and an operating power of 100 watts per channel. Final calculations for additional users will be submitted if and when a formal application is submitted to the Connecticut Siting Council for approval. However, as you can see by the chart, adding an additional PCS provider is still well within the acceptable operating parameters.


Worst Case Scenario

Service/ Point of interest	Band (MHz)	Power per Channel (watts)	# Channels	Height (ft.)	Power Density (mW/cm <sup>2</sup> )	% of MPE (2.9333mW/cm <sup>2</sup> ) Controlled	% of MPE (0.5867mW/cm <sup>2</sup> ) Uncontrolled
Cellular (Roof)	880 MHz	100 watts	19	99 ft.	0.1603	5.47%	27.33%
Future PCS (Roof)	1962.5 MHz	122 watts	11	84 ft.	0.1785	3.57%	17.85%
<b>Total</b>						<b>9.04%</b>	<b>45.18%</b>

For the foregoing reasons, Springwich Cellular Limited Partnership seeks a ruling that its proposed additions to the tower would not cause a significant change or alteration in the physical and environmental characteristics of the site, SCLP further submits that the changes comply with R.C.S.A. Sections 16-50j-72(b)(c) (2) and (3) and therefore requests a determination that the placement of the antennas and equipment on the existing facility tower site does not constitute a substantial environmental effect under R.C.S.A Section 16-50j-72(b).

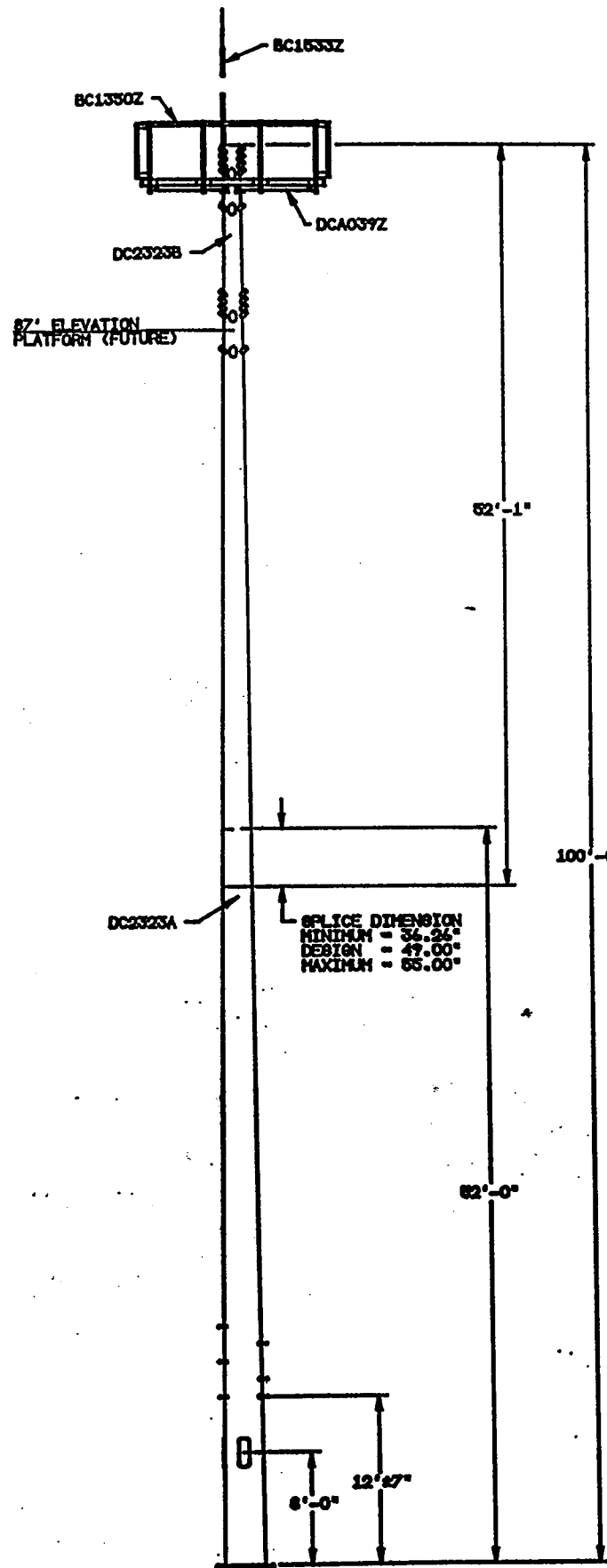
Thank you for your cooperation and attention to this matter.

Sincerely,

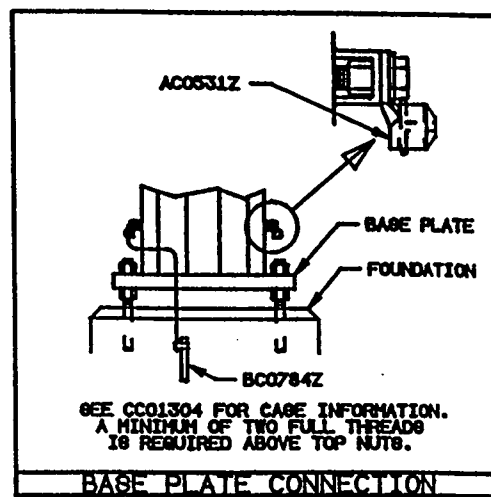


Attachments

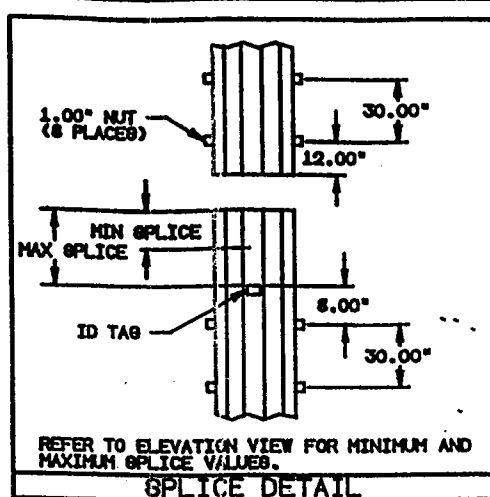
cc Mayor of West Hartford



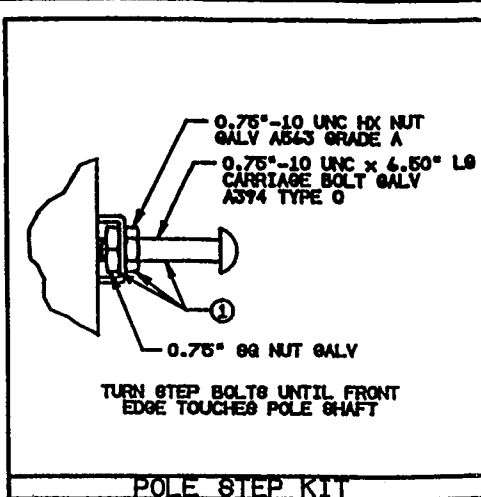
ELEVATION VIEW  
SEE FABRICATION DRAWINGS  
FOR ADDITIONAL DETAILS



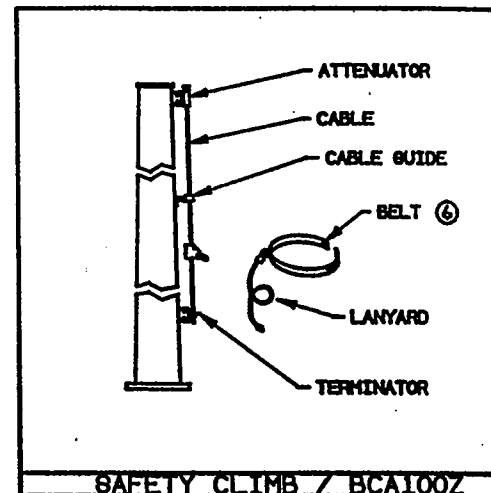
BASE PLATE CONNECTION



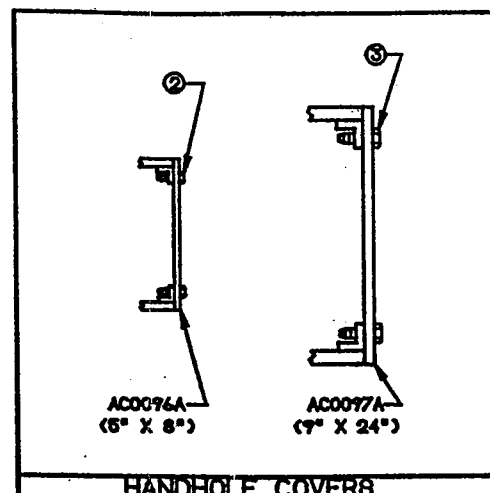
SPLICE DETAIL



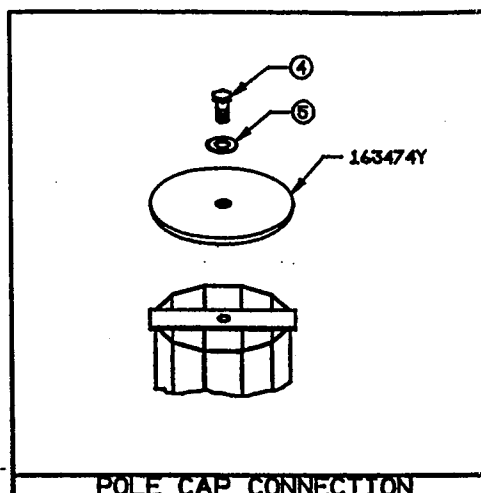
POLE STEP KIT



SAFETY CLIMB / BCA100Z



HANDHOLE COVERS



POLE CAP CONNECTION

- NOTES:
- POLE SHAFT-GOVERNING REACTIONS:  
MOMENT = 13,717 IN-KIP#  
SHEAR = 14,154 #  
VERTICAL = 14,675 #
  - COMPONENT IDENTIFICATION: TAG LOCATIONS ARE INDICATED BY CALLOUTS ON DRAWING. "TAG MARK" IN BILL OF MATERIAL SHOWS FIRST 4 DIGITS ON EACH TAG. SUBSEQUENT DIGITS WILL INDICATE SEQUENCE OF MANUFACTURER.
  - ASSEMBLY AND ERECTION GUIDELINES: SEE VALMONT COMMUNICATION POLE INSTALLATION GUIDELINE 1012.
  - SLIP JOINT JACKING FORCE:  
MINIMUM = 25,000#  
MAXIMUM = 70,000#
  - WEIGHT: WEIGHT IN TITLE BLOCK IS TOTAL STRUCTURE WEIGHT EXCLUDING ANCHORAGE.
  - FINISH: GALVANIZED PER ASTM A-123.
  - POLE DESIGN CONFORMS TO EIA/TIA-222-E FOR:  
100 MPH WIND WITH NO ICE, EXPOSURE "B"  
87 MPH WIND WITH 1/2" ICE, EXPOSURE "B".
  - DESIGN LOADING:  
1-CELLULAR PLATFORM MOUNTED @ 77' ELEV.  
12-ALP9212'S MOUNTED ON PLATFORM FACES.  
3-DB809'S MOUNTED ON PLATFORM CORNERS.  
1-CELLULAR PLATFORM MOUNTED @ 87' ELEV. (F)  
12-ALP9212'S MOUNTED ON PLATFORM FACES. (F)  
3-DB809'S MOUNTED ON PLATFORM CORNERS. (F)

BILL OF MATERIAL  
(SHIPPING SEQ.-1 FOR ALL)

VALMONT PART NUMBER (PREFIX TAG MARK)	DESCRIPTION	UNIT WEIGHT PER (LBS)	QTY PER STR
DC2 323A	SECTION ASSEMBLY	4,400	1
DC2 323B	SECTION ASSEMBLY	2,825	1
CC0 1304	CAGE ASSEMBLY	1,374	1
---	NOTE PLATFORM ASSEMBLY (DCA039Z)	1,277	1
---	NOTE SAFETY CLIMB ASSEMBLY (BCA100Z)	39	1
---	NOTE E.I.A. GROUNDING (BC0784Z)	20	1
---	NOTE RAIL KIT ASSEMBLY (BC1350Z)	412	1
---	NOTE LIGHTNING ROD KIT (BC1533Z)	69	1
---	NOTE GROUND LUG KIT (AC0531Z)	1	2

MISCELLANEOUS

PART NUMBER	DESCRIPTION	QTY	PER STR
AC0076A	HANDHOLE COVER PLATE (6 X 8)	3	12
AC0077A	HANDHOLE COVER PLATE (9 X 24)	9	2
163474Y	POLE CAP COVER PLATE (15" DIA)	15	1

DESCRIPTION

VALMONT PART NUMBER	HARDWARE SIZE (IN)	GENERAL	FRONT	ASTM SPEC	QTY PER STR
	BOLT DIA LONG	NUT WWH			
1	2134A		STEP KIT	HD6V	74
2	144038	0.25 0.75	SCREW	8.8, A410	26
3	14147	0.38 1.00	SCREW	8.8, A410	7
4	141171	0.75 1.75	CAP BOLT	HD6V, A525	1
5	142054		0.75 FLAT	HD6V, F434	1
6	ABLBELT		SAFETYBELT		1

\* PER ASTM A525-71C, EXCLUDE SECTIONS 4.5 & 9.2

DUPLICATE DRAWING DISTRIBUTION: BRENNAH TX

RED11443 100' MONOPOLE  
DWS SIZE B CLASS CODE (1) 1 CLASS NO. (3) 550

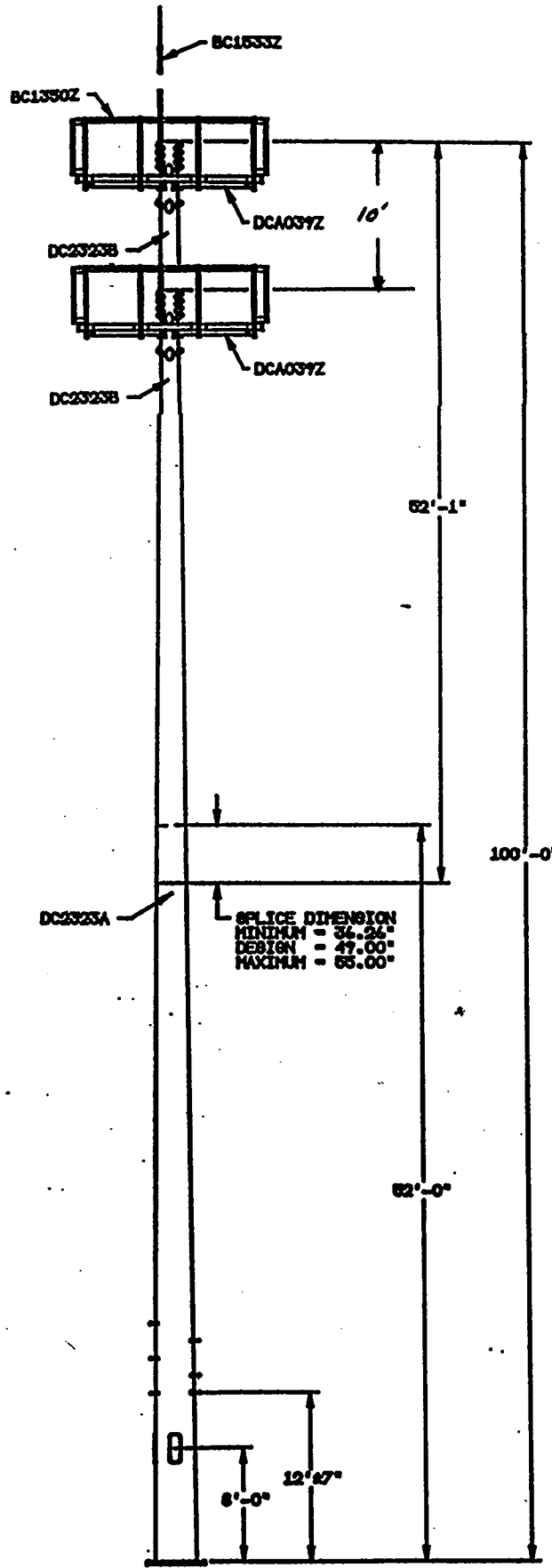
DATE	BY	REV	DESCRIPTION
04/19/95	LVG	1/0	REV'D PER CUST REQUEST

VALMONT

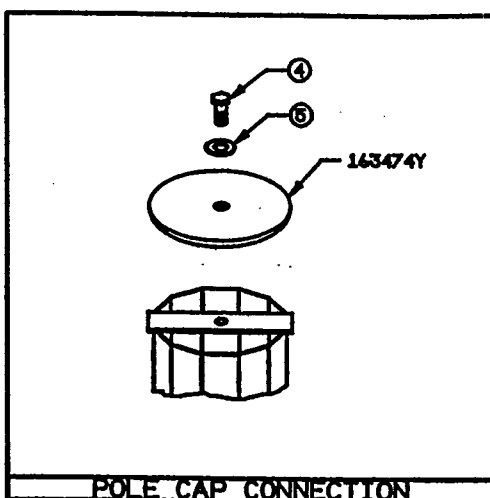
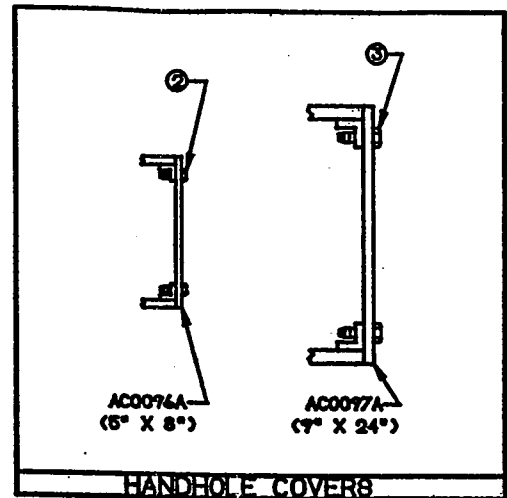
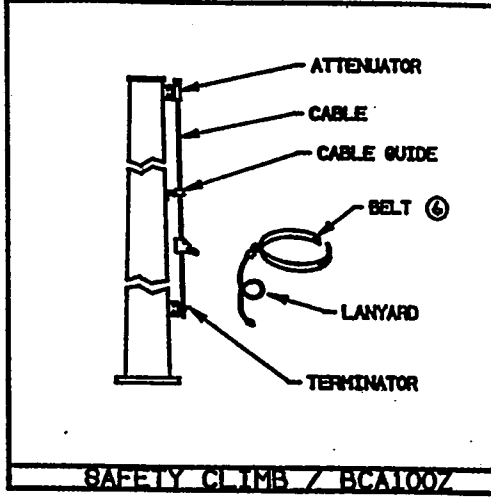
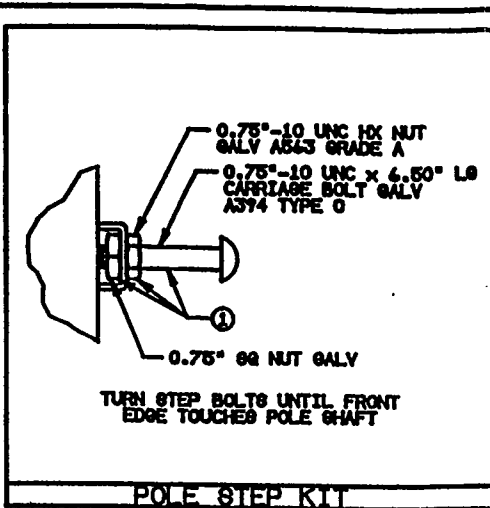
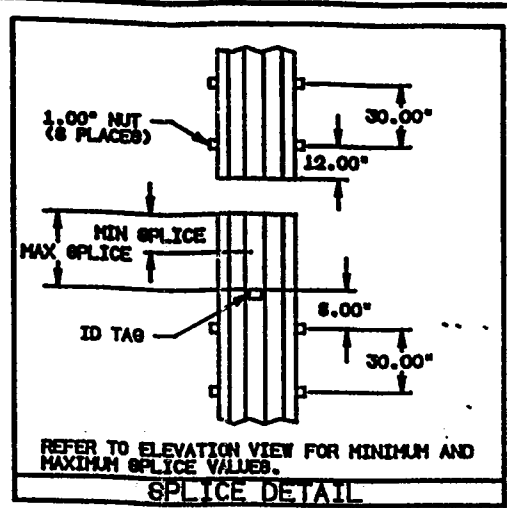
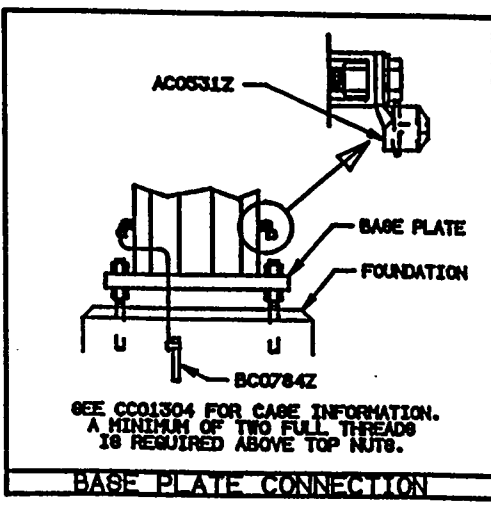
SHAFT INFO

SEC	LENGTH	BASE OD	TOP OD	THK	MAT
A	82'-00"	24.00"	23.34"	0.315"	8-22
B	82'-01"	24.47"	14.00"	0.250"	8-22





**ELEVATION VIEW**  
SEE FABRICATION DRAWINGS FOR ADDITIONAL DETAILS



- NOTES:**
- POLE SHAFT-GOVERNING REACTIONS:**  
 MOMENT = 13,719 IN-KIP#  
 SHEAR = 14,154 #  
 VERTICAL = 14,676 #
  - COMPONENT IDENTIFICATION:** TAG LOCATIONS ARE INDICATED BY CALLOUTS ON DRAWING. \*\*TAG MARK IN BILL OF MATERIAL SHOWS FIRST 4 DIGITS ON EACH TAG. SUBSEQUENT DIGITS WILL INDICATE SEQUENCE OF MANUFACTURER.
  - ASSEMBLY AND ERECTION GUIDELINES:** SEE VALMONT COMMUNICATION POLE INSTALLATION GUIDELINE 1012.
  - SLIP JOINT JACKING FORCE:**  
 MINIMUM = 25,000#  
 MAXIMUM = 70,000#
  - WEIGHT:** WEIGHT IN TITLE BLOCK IS TOTAL STRUCTURE WEIGHT EXCLUDING ANCHORAGE.
  - FINISH:** GALVANIZED PER ASTM A-123.
  - POLE DESIGN CONFORMS TO EIA/TIA-222-E FOR:**  
 100 MPH WIND WITH NO ICE, EXPOSURE "B"  
 87 MPH WIND WITH 1/2" ICE, EXPOSURE "B".
  - DESIGN LOADING:**  
 1-CELLULAR PLATFORM MOUNTED @ 77' ELEV.  
 12-ALP2212'S MOUNTED ON PLATFORM FACES.  
 3-DB807'S MOUNTED ON PLATFORM CORNERS.  
 1-CELLULAR PLATFORM MOUNTED @ 87' ELEV.  
 12-ALP2212'S MOUNTED ON PLATFORM FACES. (F)  
 3-DB807'S MOUNTED ON PLATFORM CORNERS. (F)

**BILL OF MATERIAL**  
(SHIPPING SEQ. #1 FOR ALL)

VALMONT PART NUMBER	DESCRIPTION	UNIT WEIGHT (LBS)	QTY PER STR
DC2 323A	SECTION ASSEMBLY	4,400	1
DC2 323B	SECTION ASSEMBLY	2,825	1
CC0 1304	CASE ASSEMBLY	1,574	1
---	NOTE PLATFORM ASSEMBLY (DCA039Z)	1,277	1
---	NOTE SAFETY CLIMB ASBY (BCA100Z)	37	1
---	NOTE E.I.A. GROUNDING (BC0784Z)	20	1
---	NOTE RAIL KIT ASSEMBLY (BC1530Z)	412	1
---	NOTE LIGHTNING ROD KIT (BC1533Z)	69	1
---	NOTE GROUND LUG KIT (AC0531Z)	1	2

**MISCELLANEOUS**

VALMONT PART NUMBER	DESCRIPTION	QTY PER STR
AC0076A	HANDHOLE COVER PLATE (5 X 8)	3
AC0077A	HANDHOLE COVER PLATE (7 X 24)	2
143474Y	POLE CAP COVER PLATE (15" DIA)	1

**DESCRIPTION**

VALMONT PART NUMBER	HARDWARE SIZE (IN)	GENERAL	FROM	ASTM SPEC.	QTY PER STR
1	2132A	STEP KIT	HDGV		74
2	144033	0.25 0.75	SCREW	8.8, A410	24
3	14147	0.38 1.00	SCREW	8.8, A410	9
4	141171	0.75 1.75	CAP BOLT	HDGV, A325	1
5	142064	0.75	FLAT	HDGV, F436	1
6	141821		SAFETYBELT		1

PER ASTM A325-91C, EXCLUDE SECTIONS 6.5 & 7.2

**RED11663 100' MONOPOLE**

CLASS CODE (1) 1 CLASS NO. (3) 552

DATE: 04/17/75

BY: [Signature]

REVISION DESCRIPTION: 04/19/75 LVS IN RVS'D PER CUST REQUEST

VALMONT COMMUNICATIONS

100' MONOPOLE

**SHAFT INFO**

SEC	LENGTH	BASE OD	TOP OD	THK	HAT
A	82'-00"	24.00"	23.34"	0.313"	8-22
B	82'-01"	24.47"	14.00"	0.250"	8-22



## ALP 11011-N

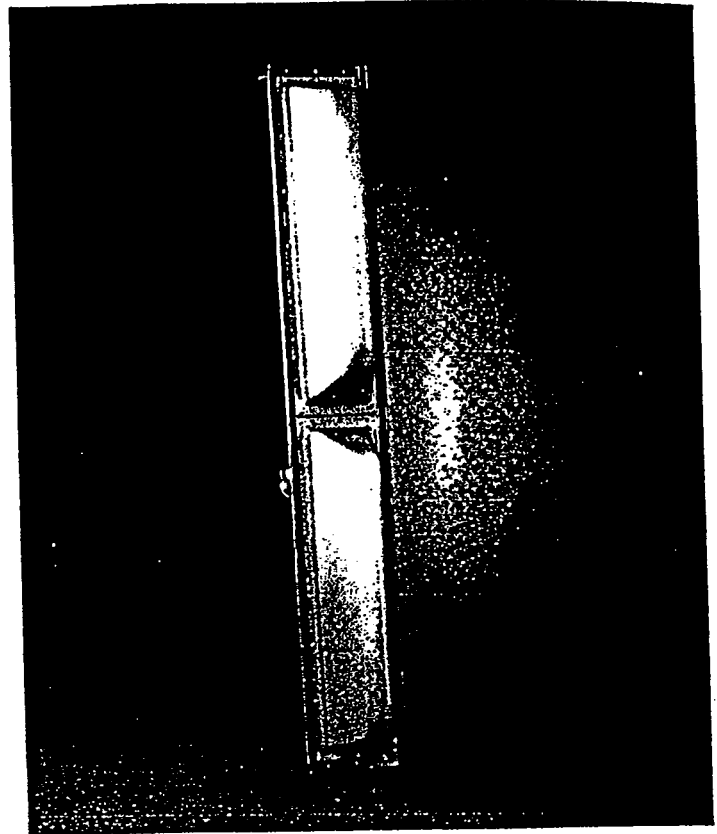
LOG-PREIODIC REFLECTOR ANTENNA

110 Degrees 11 dBd

### Features:

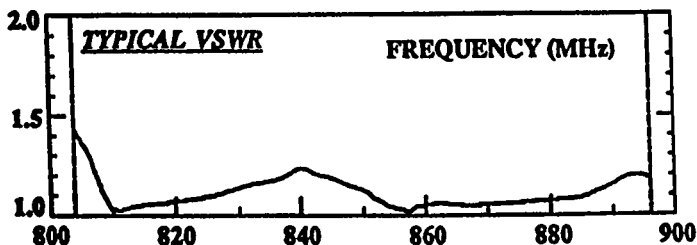
- Broadbanded. (800-900 MHz)
- Low backlobe radiation. Front to back ratio better than 25 dB.
- Low intermodulation products.
- Low wind-load.
- Low weight.
- Small size.
- Rugged design.

Please see the following pages including radiation patterns for ALP 11011-N.



### Electrical Specifications:

Frequency range:	806-896 MHz
Impedance:	50 Ohm
Connector:	N female
VSWR:	Typ. 1,3:1 max 1,5:1
Polarization:	Vertical
Gain:	11 dBd
Front to back ratio:	>25 dB
Intermodulation: (2 x 25 W)	IM5 - 107 dBm
Power Rating:	500 W
H-Plane:	-3 dB
E-Plane:	-3 dB
Lightning Protection:	DC Grounded



### Mechanical Specifications:

Overall height:	51 in. (1320 mm)
Width:	8.3 in. (210 mm)
Depth:	11.4 in. (290 mm)
Weight incl. mounting items:	24.5 lbs (11 Kg)
Rated wind velocity:	113 mph (180 Km/h)
Wind Area (CxA/Front):	3.7 sq.ft (0.34 sq.m)
Lateral thrust at rated wind:	
Worst case	530 N

### Materials:

Radiating elements:	Aluminum
Element housing:	Grey PVC
Reflector:	Aluminum
Mounting Hardware	
clamps:	Hot dip galvanized steel
bolts:	Stainless steel

Manufactured by: Allgon System AB

**Springwich Cellular Limited Partnership**

500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7755  
Fax: (860) 513-7614

**Peter J. Tyrrell**  
*General Counsel*

January 20, 1998

The Honorable Rob Bouvier, Mayor  
Town of West Hartford, Town Hall  
50 South Main Street  
West Hartford, Connecticut 06107

Dear Mayor Bouvier:

Springwich Cellular Limited Partnership (SCLP) plans to replace the existing 100 foot monopole tower, located at the Southern New England Telephone (SNET) premises at 125 South Main Street in West Hartford.

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 filing with the Connecticut Siting Council dated January 20, 1998, as notice of intent of the placement of associated equipment on an existing facility tower pursuant to R.C.S.A Section 16-50j-72(b) (2) and (3).

The attached letter fully describes SCLP's proposal. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (860) 513-7755 or Mr. Joel Rinebold, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,



Enclosure

Springwich Cellular Limited Partnership  
500 Enterprise Drive  
Rocky Hill, Connecticut 06067  
Phone (860) 513-7755

**SPRINGWICH CELLULAR LIMITED PARTNERSHIP**

**Peter J. Tyrrell**  
General Counsel

November 24, 1997

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

**RECEIVED**

NOV 26 1997

**CONNECTICUT  
SITING COUNCIL**

**Re: Springwich Cellular Limited Partnership - West Hartford Cell Site**

Dear Chairman Gelston:

Springwich Cellular Limited Partnership ("SCLP") requests the authority to replace the existing 100 foot monopole tower, which is currently located on Southern New England Telephone (SNET) premises at 125 South Main Street in the town of West Hartford, Connecticut. This proposal will allow SCLP the opportunity to extend its offering of digital service in the current service area. Please accept this letter as notice of intent, pursuant to R.C.S.A. Section 16-50j-72 (b) (3), of the placement of associated equipment on an existing non-facility tower pursuant to R.C.S.A. Section 16-50j-72(c). In further compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to the Mayor of West Hartford.

Our current antenna configuration is equipped with a 360 degree omni antenna (Whip) which does not support our current plans of offering digital service. This system requires that we convert our existing antenna array to a directional system.

The existing monopole's current size does not permit use of this tower for future expansion or multiple carrier use. This tower was constructed by the parent company (SNET) in the early 1970's and is not capable of supporting either proposal listed below. Due to these circumstances, SCLP would like to offer two different proposals for the Council's consideration. They are:

First Proposal:

SCLP would like to replace the existing light duty monopole with a new monopole, 34 inches in diameter at the base and tapering to 14 inches at the top, to support an antenna platform, which will be mounted at the top of the tower (See attachment #1). This platform will support the mounting of (9) nine directional antennas

(ALP Model 11011N) which will be secured to the platform. SCLP also plans on installing any additional radio transmission equipment inside of the existing central office building which is adjacent to the existing tower.

Second Proposal:

As an alternative, SCLP would like to suggest the Council consider allowing SCLP to replace the existing tower with a monopole, 34 inches in diameter at the base and tapering to 14 inches at the top, to support two (2) platforms for mounting two sets of directional antennas (See attachment #2). The first platform would be equipped as described in the first proposal. The second platform would be installed with approximately a ten (10) to fifteen (15) foot vertical separation. This arrangement would allow for diversity when considering the equipment space requirements of future clients, due to different antenna manufacturers' makes and models. These antennas would be mounted in the same fashion as describe above, but on the second platform. Prior to SCLP installing this second platform for another wireless service provider, it would seek the approval from the Connecticut Siting Council.

In addition, both of these applications of SCLP's antennas and equipment to this tower site does not constitute a substantial environmental impact since such additions do not cause a significant change or alteration in the physical and environmental characteristics of the site (see attached site sketch). Rather, the planned changes to the existing non-facility tower falls squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(c).

Finally, this proposed addition will not increase the noise levels at the existing facility by six decibels or more. The operation of the additional antennas will not increase the total radio frequency electromagnetic radiation power density to a level at or above the ANSI standard. A "worst-case" calculation, for both proposals, from a point of interest on the roof top indicates that SCLP's cellular operations result in a Power Density Calculation of 5.47%, which is 27.33% of the maximum permissible emissions allowed in a uncontrolled environment. (See chart listings) This calculation was arrived at using a platform height of 99 ft. and an operating power of 100 watts per channel. Final calculations for additional users will be submitted if and when a formal application is submitted to the Connecticut Siting Council for approval. However, as you can see by the chart, adding an additional PCS provider is still well within the acceptable operating parameters.

Worst Case Scenario

Service/ Point of interest	Band (MHz)	Power per Channel (watts)	# Channels	Height (ft.)	Power Density (mW/cm <sup>2</sup> )	% of MPE (2.9333mW/cm <sup>2</sup> ) Controlled	% of MPE (0.5867mW/cm <sup>2</sup> ) Uncontrolled
Cellular (Roof)	880 MHz	100 watts	19	99 ft.	0.1603	5.47%	27.33%
PCS (Roof)	1962.5 MHz	122 watts	11	84 ft.	0.1785	3.57%	17.85%
<b>Total</b>						<b>9.04%</b>	<b>45.18%</b>

For the foregoing reasons, Springwich Cellular Limited Partnership seeks a ruling that its proposed additions to the non-facility tower would not cause a significant change or alteration in the physical and environmental characteristics of the site pursuant to R.C.S.A. Section 16-50j-72(c) (1). SCLP further submits that the changes comply with R.C.S.A. Sections 16-50j-72(c) (2) through (5) and therefore request a determination that the placement of the antennas and equipment on the existing non-facility tower site does not constitute a substantial environmental effect under R.C.S.A Section 16-50j072(c).

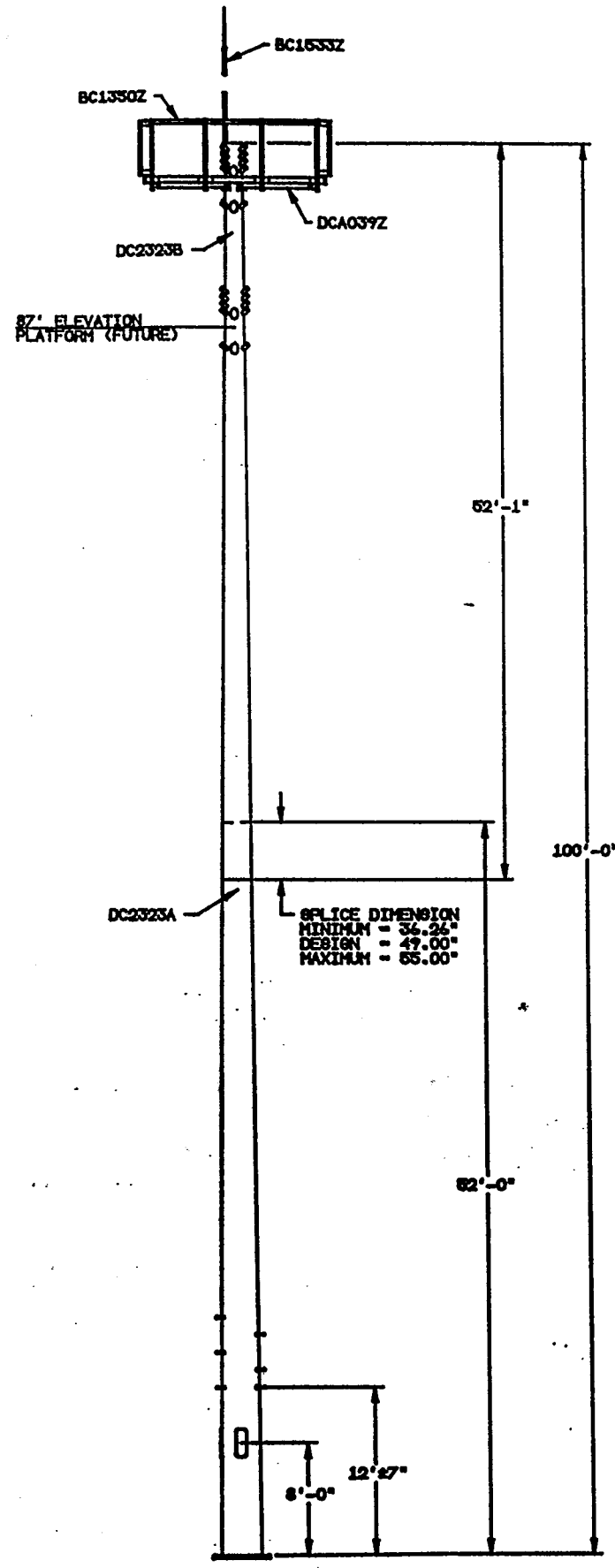
Thank you for your cooperation and attention to this matter.

Sincerely,

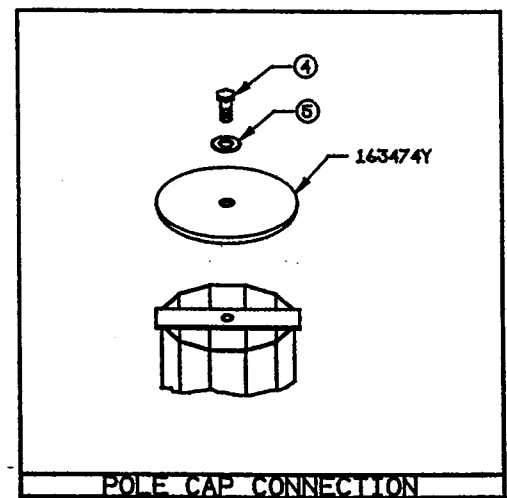
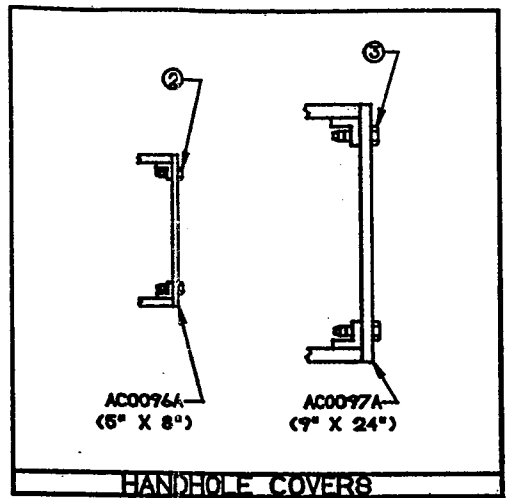
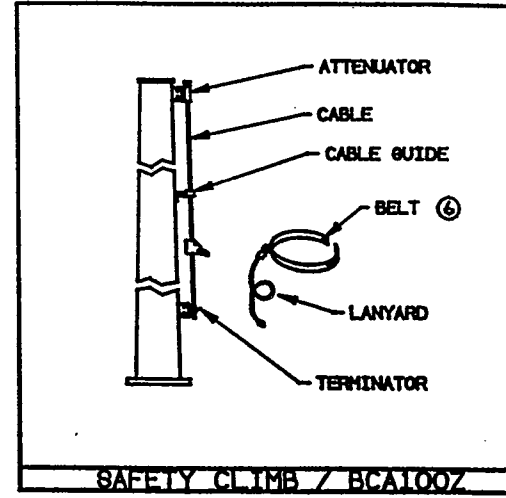
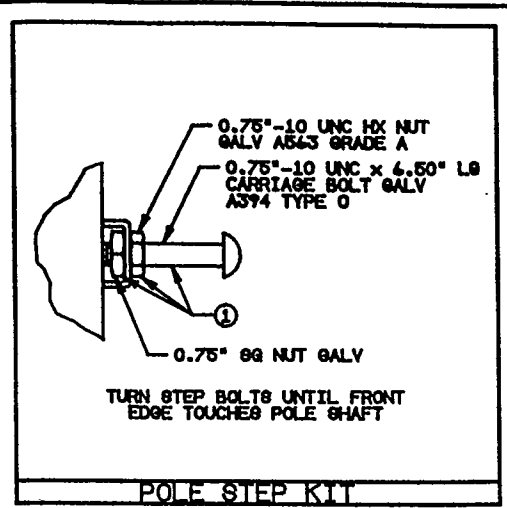
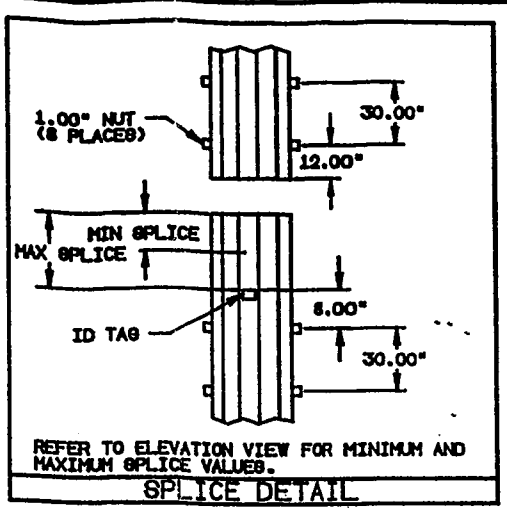
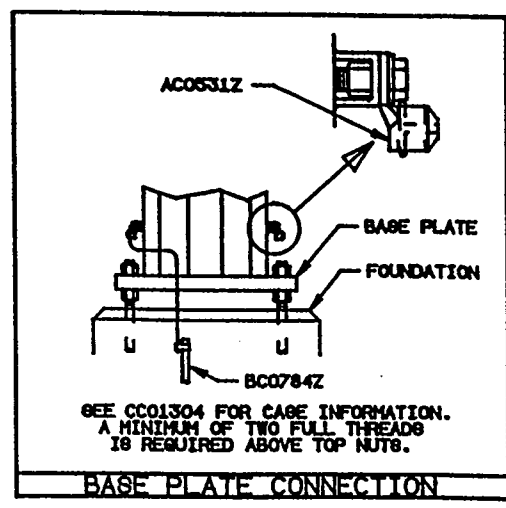
*Peter J Tyrnell*

Attachments

cc Mayor of West Hartford



ELEVATION VIEW  
SEE FABRICATION DRAWINGS  
FOR ADDITIONAL DETAILS



- NOTES:
- POLE SHAFT-GOVERNING REACTIONS:  
MOMENT = 13,919 IN-KIPS  
SHEAR = 14,154 #  
VERTICAL = 14,475 #
  - COMPONENT IDENTIFICATION: TAG LOCATIONS ARE INDICATED BY CALLOUTS ON DRAWING. "TAG MARK" IN BILL OF MATERIAL SHOWS FIRST 4 DIGITS ON EACH TAG. SUBSEQUENT DIGITS WILL INDICATE SEQUENCE OF MANUFACTURER.
  - ASSEMBLY AND ERECTION GUIDELINES: SEE VALMONT COMMUNICATION POLE INSTALLATION GUIDELINE 1012.
  - SLIP JOINT JACKING FORCE:  
MINIMUM = 25,000#  
MAXIMUM = 70,000#
  - WEIGHT: WEIGHT IN TITLE BLOCK IS TOTAL STRUCTURE WEIGHT EXCLUDING ANCHORAGE.
  - FINISH: GALVANIZED PER ASTM A-123.
  - POLE DESIGN CONFORMS TO EIA/TIA-222-E FOR:  
100 MPH WIND WITH NO ICE, EXPOSURE "B".  
87 MPH WIND WITH 1/2" ICE, EXPOSURE "B".
  - DESIGN LOADING:  
1-CELLULAR PLATFORM MOUNTED @ 77' ELEV.  
12-ALP212'S MOUNTED ON PLATFORM FACES.  
3-DB809'S MOUNTED ON PLATFORM CORNERS.  
1-CELLULAR PLATFORM MOUNTED @ 87' ELEV. (F)  
12-ALP212'S MOUNTED ON PLATFORM FACES. (F)  
3-DB809'S MOUNTED ON PLATFORM CORNERS. (F)

BILL OF MATERIAL  
(SHIPPING QTY. = 1 FOR ALL)

VALMONT PART NUMBER	DESCRIPTION	UNIT WEIGHT (LBS)	QTY PER STR
DC2 323A	SECTION ASSEMBLY	6,400	1
DC2 323B	SECTION ASSEMBLY	2,825	1
CC0 1304	CAGE ASSEMBLY	1,394	1
---	NOTE PLATFORM ASSEMBLY (DCA039Z)	1,277	1
---	NOTE SAFETY CLIMB ASSEMBLY (BCAL00Z)	39	1
---	NOTE E.I.A. GROUNDING (BC0784Z)	20	1
---	NOTE RAIL KIT ASSEMBLY (BC1330Z)	412	1
---	NOTE LIGHTNING ROD KIT (BC1533Z)	49	1
---	NOTE GROUND LUG KIT (AC0531Z)	1	2
MISCELLANEOUS			
AC0096A	HANDHOLE COVER PLATE (6 X 8)	3	12
AC0097A	HANDHOLE COVER PLATE (9 X 24)	9	2
163474Y	POLE CAP COVER PLATE (15" DIA)	15	1

VALMONT PART NUMBER	DESCRIPTION				QTY PER STR	
	HARDWARE SIZE (IN)		GENERAL	FINISH		ASTM SPEC
	BOLT DIA	NUT LONG	WASH			
1 2134A				STEP KIT	HDGV	74
2 144038	0.25	0.75		SCREW	8.8. A410	26
3 1414470	0.39	1.00		SCREW	8.8. A410	9
4 141171	0.75	1.75		CAP BOLT	HDGV A325	1
6 142054			0.75	FLAT WASH	HDGV F434	1
4 ABLBELT				SAFETYBELT		1

PER ASTM A325-71C, EXCLUDE SECTIONS 4.3 & 7.2

SHAFT INFO

SEC	LENGTH	BASE OD	TOP OD	THK	HAT
A	82'-00"	24.00"	23.34"	0.313"	8-22
B	82'-01"	24.45"	14.00"	0.250"	8-22

DUPLICATE DRAWING DISTRIBUTION: BRENHAM TX

PED11663 100' MONOPOLE

DWG SIZE B CLASS CODE (1) & CLASS NO. (3) 450

DATE: 04/19/76

SCALE: NONE

REV: 1

BY: [Signature]

OTHER REVISIONS:

REVISION DESCRIPTION: 04/19/76 LVS 1/16 RVS'D PER CUST REQUEST

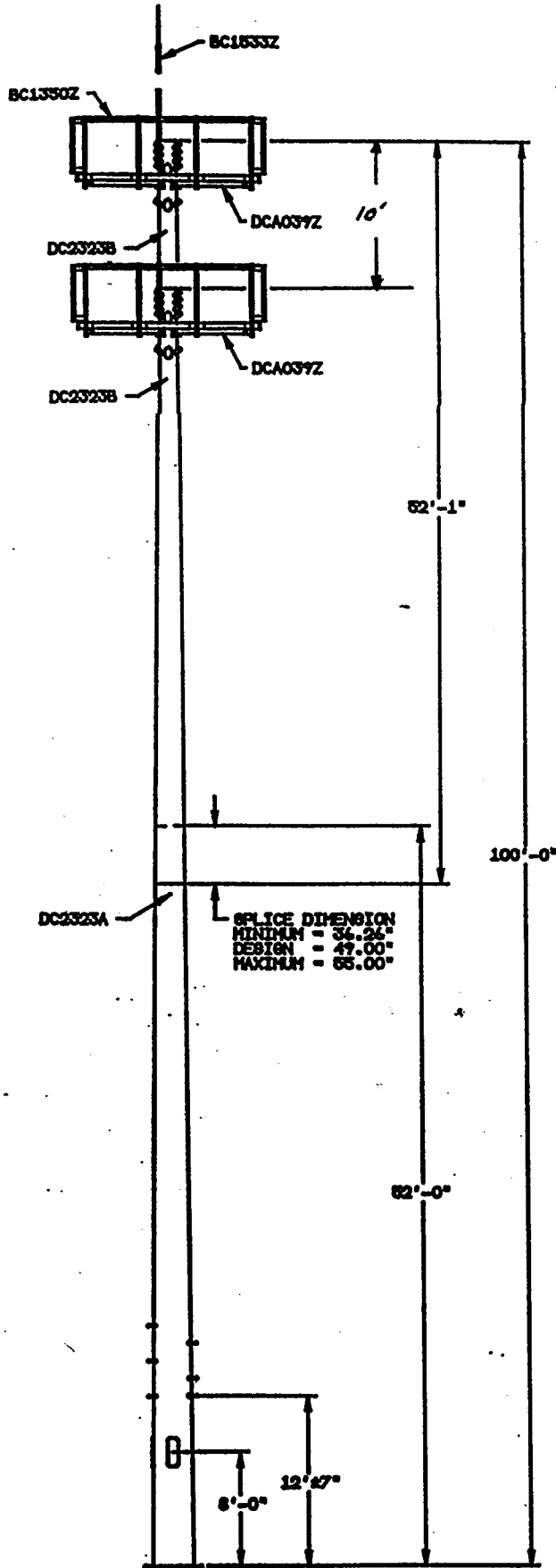
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WEIGHT: 11,511#

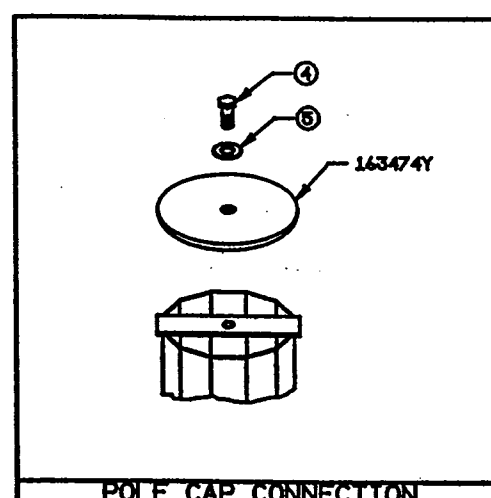
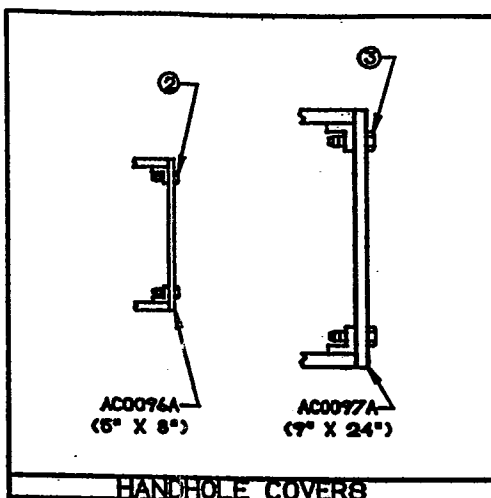
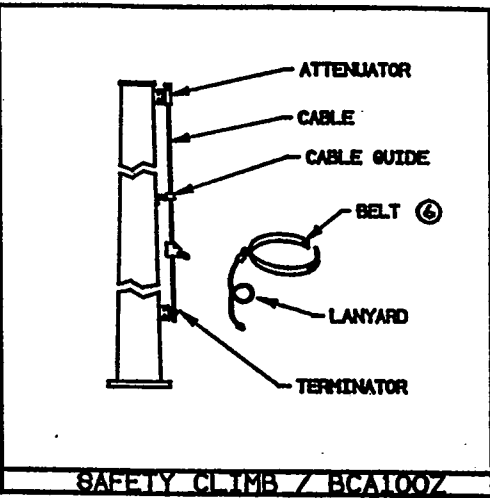
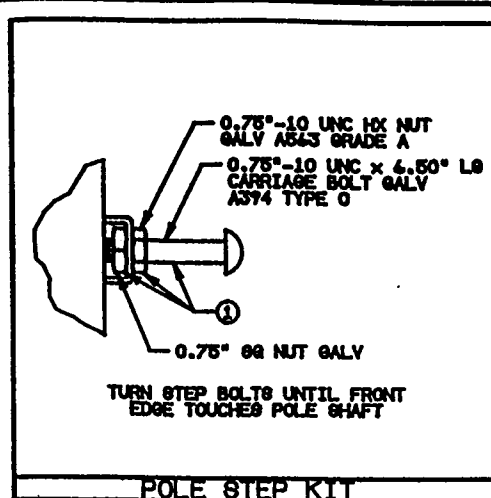
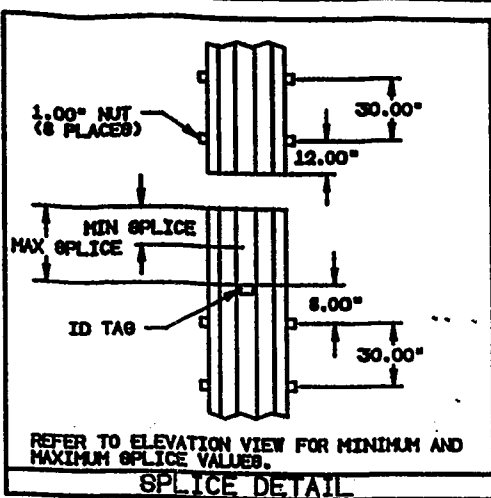
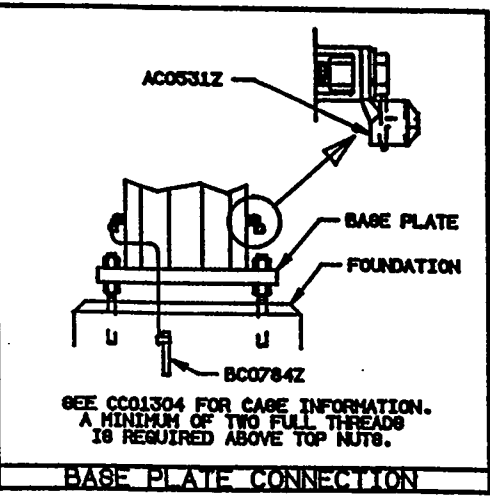
VALMONT

100' MONOPOLE

DC2323A



**ELEVATION VIEW**  
SEE FABRICATION DRAWINGS FOR ADDITIONAL DETAILS



- NOTES:**
- POLE SHAFT-GOVERNING REACTIONS:**  
MOMENT = 13,919 IN-KIPS  
SHEAR = 14,154 #  
VERTICAL = 14,476 #
  - COMPONENT IDENTIFICATION:** TAG LOCATIONS ARE INDICATED BY CALLOUTS ON DRAWING. \*TAG MARK\* IN BILL OF MATERIAL SHOWS FIRST 4 DIGITS ON EACH TAG. SUBSEQUENT DIGITS WILL INDICATE SEQUENCE OF MANUFACTURER.
  - ASSEMBLY AND ERECTION GUIDELINES:** SEE VALMONT COMMUNICATION POLE INSTALLATION GUIDELINE 1012.
  - SLIP JOINT JACKING FORCE:**  
MINIMUM = 25,000#  
MAXIMUM = 70,000#
  - WEIGHT:** WEIGHT IN TITLE BLOCK IS TOTAL STRUCTURE WEIGHT EXCLUDING ANCHORAGE.
  - FINISH:** GALVANIZED PER ASTM A-123.
  - POLE DESIGN CONFORMS TO EIA/TIA-222-E FOR:**  
100 MPH WIND WITH NO ICE, EXPOSURE "B".  
67 MPH WIND WITH 1/2" ICE, EXPOSURE "B".
  - DESIGN LOADING:**  
1-CELLULAR PLATFORM MOUNTED @ 97' ELEV.  
12-ALP7212'S MOUNTED ON PLATFORM FACES.  
3-DB807'S MOUNTED ON PLATFORM CORNERS.  
1-CELLULAR PLATFORM MOUNTED @ 67' ELEV. (F)  
12-ALP7212'S MOUNTED ON PLATFORM FACES. (F)  
3-DB807'S MOUNTED ON PLATFORM CORNERS. (F)

**BILL OF MATERIAL**  
(SHIPPING 6ER.=1 FOR ALL)

VALMONT PART NUMBER	DESCRIPTION	UNIT WEIGHT (LBS)	QTY PER STR
DC2 323A	SECTION ASSEMBLY	6,400	1
DC2 323B	SECTION ASSEMBLY	2,826	1
CC0 1304	CAGE ASSEMBLY	1,394	1
---	NOTE PLATFORM ASSEMBLY (DCA039Z)	1,277	1
---	NOTE SAFETY CLIMB ASSY (BCA100Z)	39	1
---	NOTE E.I.A. GROUNDING (BC0784Z)	20	1
---	NOTE RAIL KIT ASSEMBLY (BC1360Z)	412	1
---	NOTE LIGHTNING ROD KIT (BC1533Z)	69	1
---	NOTE GROUND LUG KIT (AC0531Z)	1	2

**MISCELLANEOUS**

VALMONT PART NUMBER	DESCRIPTION	QTY PER STR
AC0096A	HANDHOLE COVER PLATE (5' X 8')	3
AC0097A	HANDHOLE COVER PLATE (7' X 24')	2
163474Y	POLE CAP COVER PLATE (15" DIA)	1

**DESCRIPTION**

VALMONT PART NUMBER	HARDWARE SIZE (IN)			GENERAL	FINISH	ASTM SPEC.	QTY PER STR
	BOLT DIA	NUT DIA	WHR				
1 2134A				STEP KIT	H6V		74
2 144036	0.25	0.76		SCREW	S.S.	A410	26
3 141447	0.38	1.00		SCREW	S.S.	A410	7
4 141171	0.76	1.76		CAP BOLT	H6V	A325	1
5 142054			0.76	FLAT	H6V	F434	1
6 ABLBELT				SAFTYBELT			1

PER ASTM A325-71C, EXCLUDE SECTIONS 4.3 & 9.2

**SHAFT INFO**

SEC	LENGTH	BASE OD	TOP OD	THK	MAT
A	82'-00"	84.00"	23.34"	0.313"	6-22
B	82'-01"	84.47"	14.00"	0.260"	6-22

**DUPLICATE DRAWING DISTRIBUTION**  
BRENNAH TX

**PED11643 100' MONOPOLE**  
DWS SIZE B CLASS CODE (1) 1 CLASS NO. (3) 452

DATE	REV	DESCRIPTION
04/19/76	1	REV'D PER CUST REQUEST
04/11/76	2	REV'D PER CUST REQUEST

**VALMONT**



## ALP 11011-N

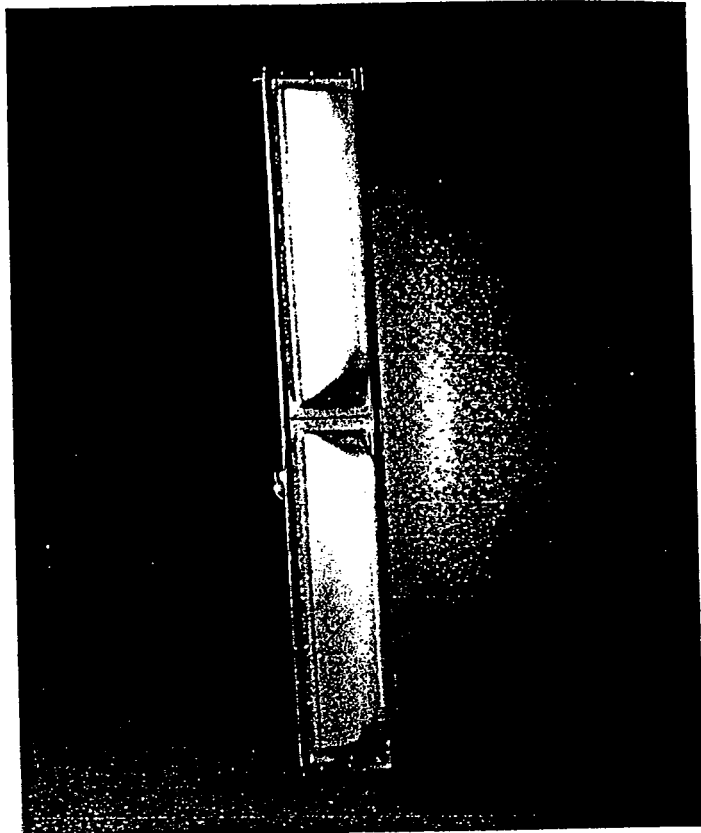
LOG-PREIODIC REFLECTOR ANTENNA

110 Degrees 11 dBd

### Features:

- Broadbanded. (800-900 MHz)
- Low backlobe radiation. Front to back ratio better than 25 dB.
- Low intermodulation products.
- Low wind-load.
- Low weight.
- Small size.
- Rugged design.

Please see the following pages including radiation patterns for ALP 11011-N.



### Electrical Specifications:

Frequency range:	806-896 MHz
Impedance:	50 Ohm
Connector:	N female
VSWR:	Typ. 1,3:1 max 1,5:1
Polarization:	Vertical
Gain:	11 dBd
Front to back ratio:	>25 dB
Intermodulation: (2 x 25 W)	IM5 - 107 dBm
Power Rating:	500 W
H-Plane: -3 dB	110°
E-Plane: -3 dB	15°
Lightning Protection:	DC Grounded

### Mechanical Specifications:

Overall height:	51 in. (1320 mm)
Width:	8.3 in. (210 mm)
Depth:	11.4 in. (290 mm)
Weight incl. mounting items:	24.5 lbs (11 Kg)
Rated wind velocity:	113 mph (180 Km/h)
Wind Area (CxA/Front):	3.7 sq.ft (0.34 sq.m)
Lateral thrust at rated wind:	
<b>Worst case</b>	530 N

### Materials:

Radiating elements:	Aluminum
Element housing:	Grey PVC
Reflector:	Aluminum
Mounting Hardware	
clamps:	Hot dip galvanized steel
bolts:	Stainless steel

Manufactured by: Allgon System AB

