

This instrument prepared by and after recording,  
please return to:

Philip M. van Aelstyn, Esq.  
Downs Rachlin & Martin PLLC  
90 Prospect Street  
P. O. Box 99  
St. Johnsbury, VT 05819-0099  
Phone: (802) 748-8324  
Fax: (802) 748-4394

Indexing Cross Reference:  
See Exhibit A

STATE OF ALABAMA )

)

COUNTY OF SHELBY )

**SITE DESIGNATION SUPPLEMENT**  
**AND**  
**MEMORANDUM OF SUBLEASE**

**THIS SITE DESIGNATION SUPPLEMENT AND MEMORANDUM OF SUBLEASE** (the “**Supplement**”), made effective as of the Site Commencement Date (as defined below), by and between **BELLSOUTH MOBILITY LLC**, a Georgia limited liability company which is the successor to BellSouth Mobility Inc, a Georgia corporation, with a principal address at 100 Concourse Parkway, Suite 375, Birmingham, Alabama 35244 (“**Transferring Entity**”), and **CROWN CASTLE SOUTH INC.**, a Delaware corporation, with a principal address at c/o Crown Communication Inc., 375 Southpointe Boulevard, Canonsburg, Pennsylvania 15317, Attention: Real Estate Department (“**TowerCo**”).

**WITNESSETH:**

**WHEREAS**, reference is hereby made to that certain Sublease dated June 1, 1999 (the “**Sublease**”), by and among Transferring Entity, the other transferring entities named therein, Crown Castle International Corp., a Delaware corporation, and TowerCo;

Site Name: BIR Army  
Site Number: BIR164  
Leased Site

**WHEREAS**, the parties desire that the terms and conditions of the Sublease shall govern the relationship of the parties under this Supplement, and each party executing this Supplement that is not an original party to the Sublease hereby ratifies and agrees to be bound by and perform the obligations applicable to such party as set forth in the Sublease and this Supplement; and

**WHEREAS**, pursuant to that certain lease between D. Bruce Irwin (successor in interest to R. Charles Stagner) (the "**Ground Lessor**") and Transferring Entity, dated February 26, 1999 (as may have been amended, the "**Ground Lease**"), the recorded copy or memorandum of which is referred to in **Exhibit A**, Transferring Entity is the lessee of that certain real property described therein, and the owner of certain improvements located thereon as more particularly described on **Exhibits B, C and D** attached hereto and incorporated herein by reference (the "**Site**");

**NOW, THEREFORE**, for valuable consideration, the receipt, adequacy and sufficiency of which is hereby acknowledged by the parties hereto, the parties hereby agree as follows:

1. **Sublease and Defined Terms.** Unless otherwise defined herein, capitalized terms shall have the meaning set forth in the Sublease. The parties agree that, except as otherwise set forth herein, the terms and conditions of the Sublease shall govern the relationship of the parties under this Supplement and the Sublease is incorporated herein by reference. In the event of a conflict or inconsistency between the terms of the Sublease and this Supplement, the terms of the Sublease shall govern and control, except as expressly set forth herein.

2. **Demise.** Pursuant to the Sublease, Transferring Entity hereby subleases to TowerCo, and TowerCo hereby subleases from Transferring Entity, the Subleased Property of the Site.

3. **Reserved Space.** TowerCo hereby expressly acknowledges that, in accordance with the Sublease, the Subleased Property does not include, and the Transferring Entity has reserved and excepted from the Sublease pursuant to this Supplement, the Reserved Space as shown on **Exhibits B, C and D** attached hereto and incorporated herein by this reference. Notwithstanding any errors or imprecisions in the descriptions and depictions set forth on **Exhibits B, C and D** attached hereto and incorporated herein by this reference, TowerCo further expressly acknowledges that the Reserved Space includes, without limitation, all portions of the Site utilized or occupied by the Transferring Entity or any other BMI Affiliate as of the date of this Supplement for the use, enjoyment, operation or maintenance of its Communications Facility. TowerCo further expressly acknowledges that, in accordance with the Sublease, the Reserved Space includes, without limitation: (i) the Transferring Entity's Improvements set forth in **Exhibit E** attached hereto; (ii) the nonexclusive rights of ingress to and egress from the entire Site, and access to the entire Tower and all Improvements (including any and all easements), at such times (on a 24-hour, seven (7) day per week basis), to such extent, and in such means and manner (on foot or by motor vehicle) as the Transferring Entity deems necessary or desirable for

Site Name: BIR Army  
Site Number: BIR164  
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its full use and enjoyment of the Reserved Space; (iii) the right to use any portion of the Subleased Property, including the Land and Improvements thereof, for purposes of temporary location and storage of any equipment (including Communications Equipment) and any part thereof in connection with performing any repairs or replacements of the Improvements; and (iv) any and all rights pursuant to **Sections 5(c) and 25** of the Sublease and all appurtenant rights reasonably inferable to permit the Transferring Entity's full use and enjoyment of the Reserved Space, including without limitation, the appurtenances specifically described in **Section 5** of the Sublease. For purposes of **Section 25** of the Sublease, the weights and sail area of the panel antennas comprising a portion of Transferring Entity's Tower-mounted Communications Equipment is set forth on **Exhibit F**.

4. **Term/Site Commencement Date.** The Term of the Sublease as to the Subleased Property of the Site pursuant to this Supplement shall commence effective as of July 1, 2001 (the "**Site Commencement Date**") and shall terminate on the date which is one day before the Ground Lease expires in accordance with its terms (including any extensions or renewals thereof), unless terminated earlier in accordance with the terms of the Sublease.

5. **Rent.** TowerCo shall pay to BMI the Site Payment calculated in accordance with **Section 11** of the Sublease.

6. **Notice.** All notices hereunder shall be deemed validly given if given in accordance with the Sublease.

7. **Governing Law.** Notwithstanding the terms of the Sublease, this Supplement shall be governed by and construed in accordance with the laws of the State in which the Subleased Property is located.

8. **Modifications.** This Supplement shall not be amended, supplemented or modified in any respect, except pursuant to written agreement duly executed by the parties in the same manner in which the Sublease was executed.


9. **Counterparts.** This Supplement may be executed in several counterparts, each of which shall be deemed an original, and all of such counterparts together shall constitute one and the same instrument.

Site Name: BIR Army  
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Leased Site



IN WITNESS WHEREOF, the parties hereto have set their hands as of the Site Commencement Date, as defined above.

**BELLSOUTH MOBILITY LLC**

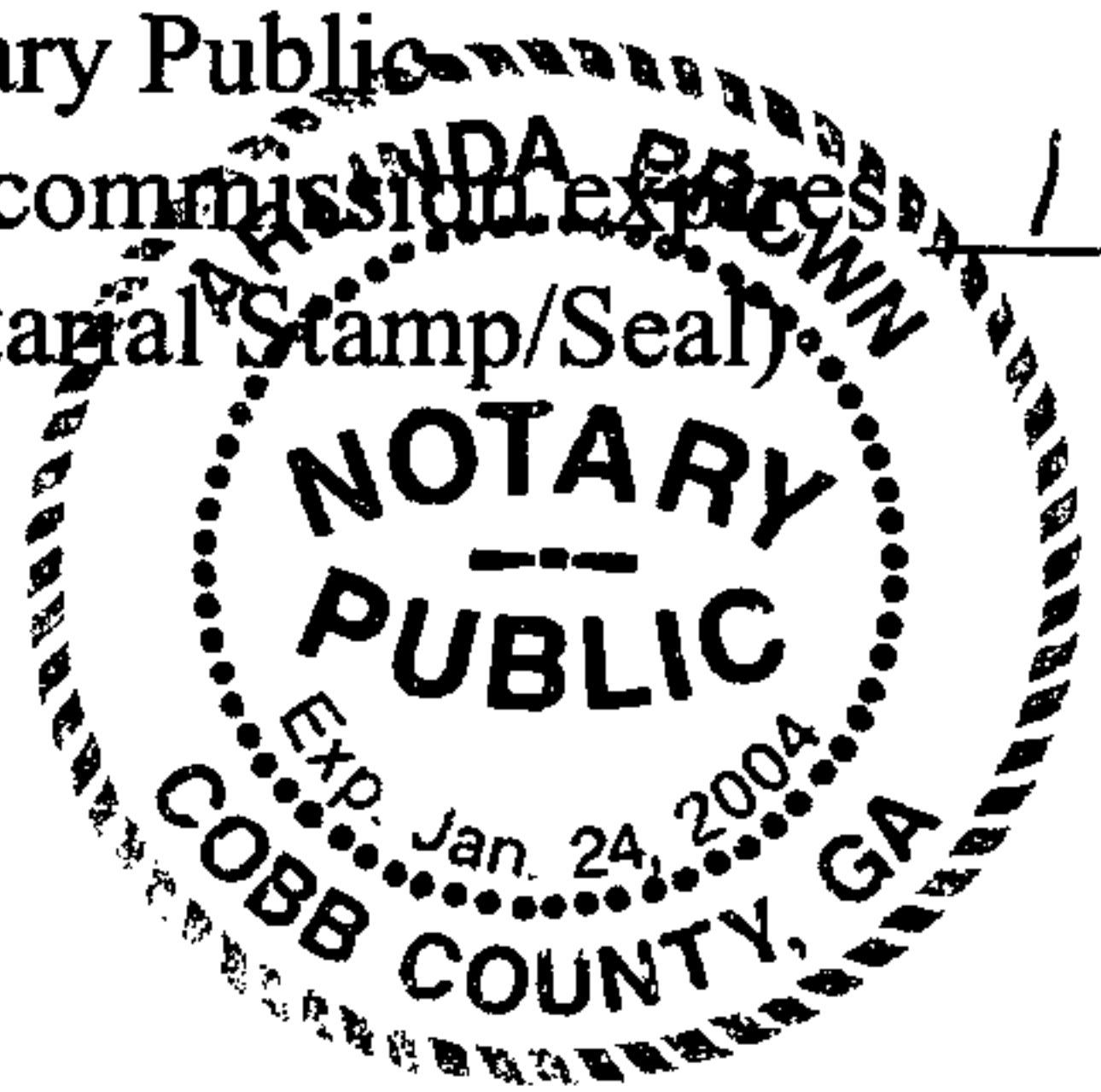
By:   
Stephen A. Brake  
Assistant Vice President

STATE OF GEORGIA

COUNTY OF FULTON

I, Arlinda Brown, a Notary Public in and for said County in said State, hereby certify that Stephen A. Brake, whose name as Assistant Vice President of BellSouth Mobility LLC is signed to the foregoing conveyance, and who is personally known to me, acknowledged before me on this day that, being informed of the contents of said conveyance, he, as such officer and with full authority, executed the same voluntarily for and as the act of said limited liability company.


Given under my hand and official seal this 25<sup>th</sup> day of May, 2001.

Arlinda Brown  
Notary Public  
My commission expires 1/24/04  
(Notary Stamp/Seal)  


Site Name: BIR Army  
Site Number: BIR164  
Leased Site

IN WITNESS WHEREOF, the parties hereto have set their hands as of the Site Commencement Date, as defined above.

**CROWN CASTLE SOUTH INC.**

By:   
Holly Ernst Groschner  
Vice President/Assistant Secretary

COMMONWEALTH OF PENNSYLVANIA

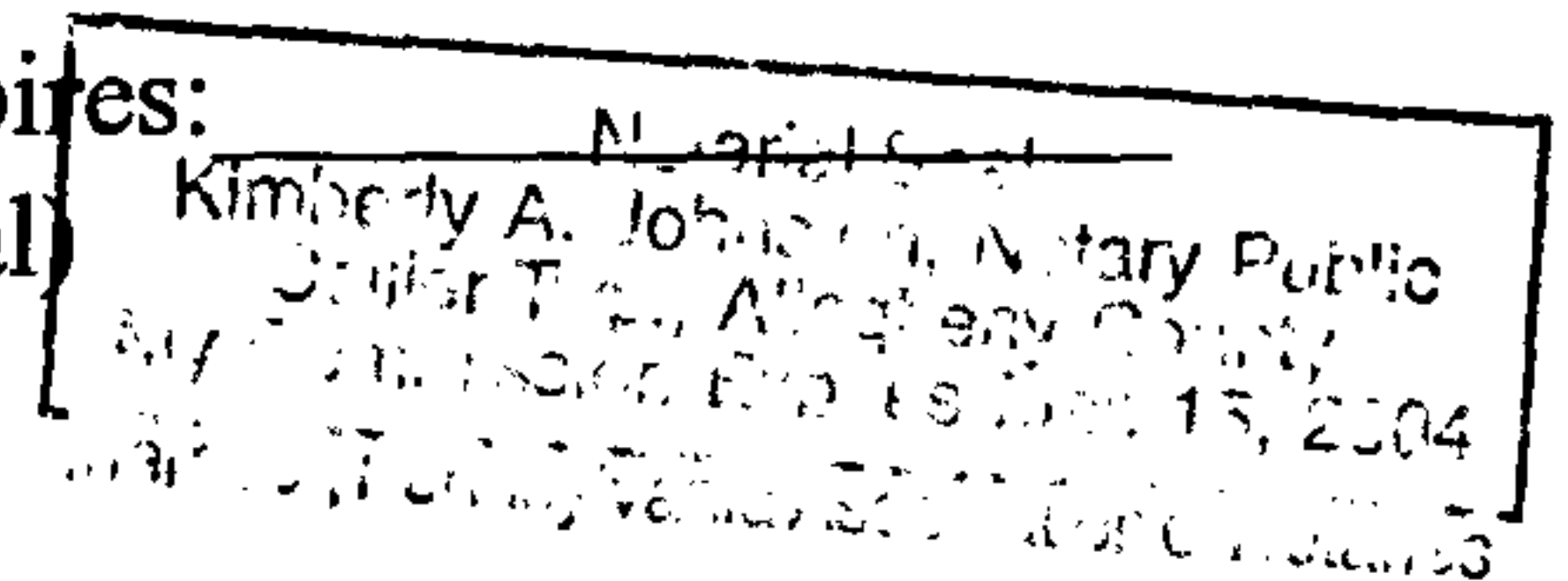
COUNTY OF WASHINGTON

I, Kimberly A. Johnston, a Notary Public in and for said County in said Commonwealth, hereby certify that Holly Ernst Groschner, whose name as Vice President/Assistant Secretary of Crown Castle South Inc. is signed to the foregoing conveyance, and who is personally known to me, acknowledged before me on this day that, being informed of the contents of said conveyance, she, as such officer and with full authority, executed the same voluntarily for and as the act of said corporation.

Given under my hand and official seal this 31<sup>st</sup> day of May, 2001.

  
Notary Public

My commission expires:  
(Notarial Stamp/Seal)



Site Name: BIR Army  
Site Number: BIR164  
Leased Site

## **Exhibit A – Leased**

Site Name:	BIR Army
Site Number:	BIR 164
County:	Shelby, AL
Original Ground Lessor:	D. Bruce Irwin, successor in interest to R. Charles Stagner, an individual with an address at 2147 River Chase Office road, Birmingham, AL 35244
Original Ground Lessee:	BellSouth Mobility LLC, a Georgia limited liability company, successor to BellSouth Mobility Inc, a Georgia corporation, with a principal address at 1100 Peachtree Street, Suite 800, Atlanta, GA 30309, Attn: Real Estate Department.
Execution Date of Original Ground Lease Agreement:	February 26, 1999

### **Recording Information for Original Ground Lease Agreement or Memorandum Thereof**

Registry:	Shelby, Alabama
Book:	2001
Page:	45424
Record Date:	October 19, 2001

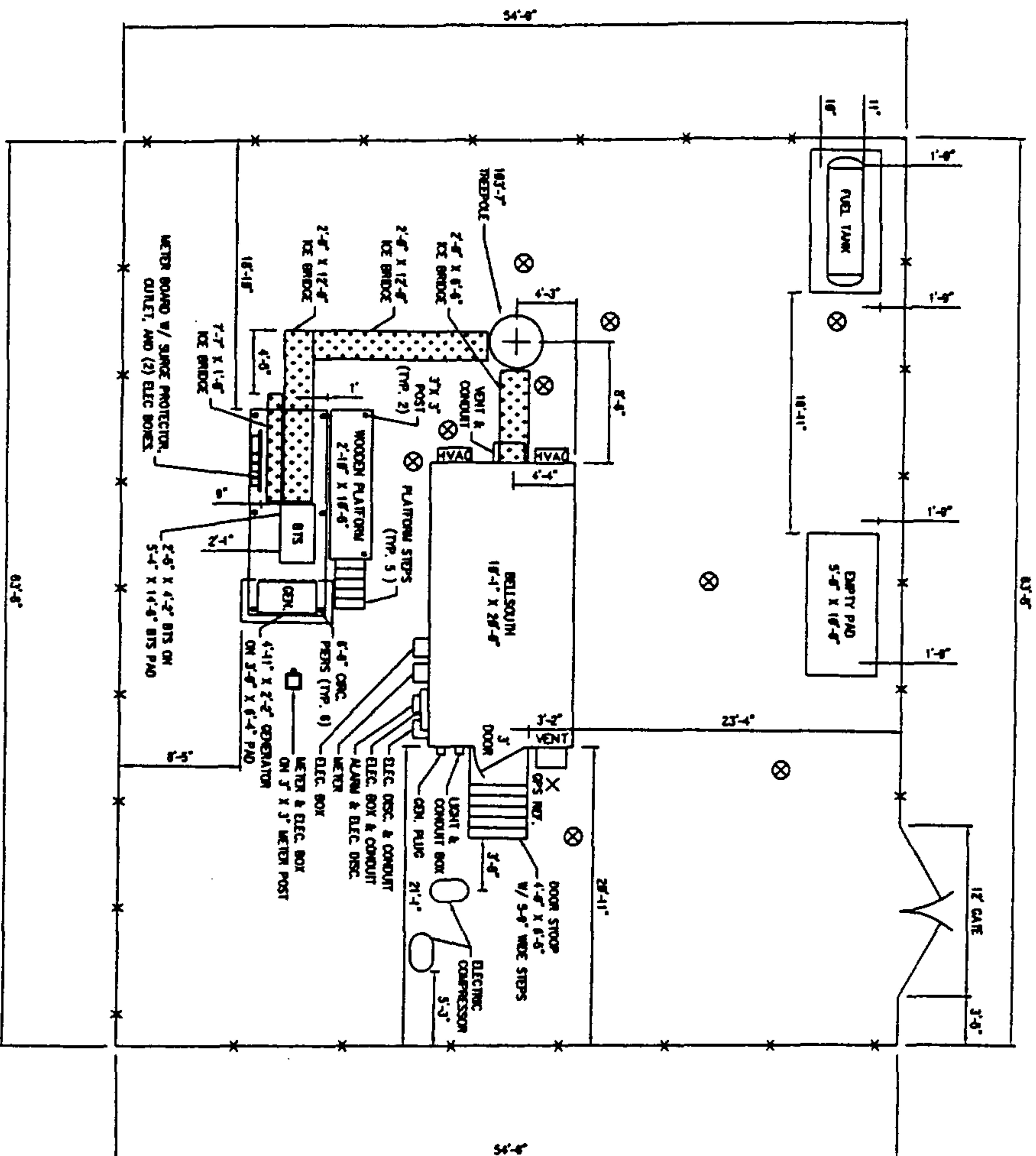
## **EXHIBIT B**

### **SITE PLAN**

See attached “as built” site plan showing the portion of the Site that is part of the Reserved Space.

Site Name: BIR Army  
Site Number: BIR164  
Leased Site

## Accepted and Approved by Crown and BellSouth



**LEGEND:**

X - OPS REF.

⊗ - GTW (TYP. 9)

NOTE:

1. SEE EXHIBIT A FOR LEGAL DESCRIPTION
2. COMPOUND LAYOUT IS ACCURATE AS OF 2/11/00

BMI's SITE NAME ARMY RESERVE  
BELLSOUTH ACCOUNTING CODE UNKNOWN  
BELLSOUTH APPROVAL of BMI EQUIPMENT/IMPROVE:  
CROWN BUSINESS UNIT NUMBER

**NOTE:**  
ALL IMPROVEMENTS  
OWNED BY BELLSOUTH  
UNLESS OTHERWISE  
NOTED WITH \*.



DRAWN BY	SCALE	SHEET NO.	TOTAL SHEETS
P.K.M.	1" = 15'	16488	A
ORDER BY	DATE	DRAWING NO.	
HK	3/08/00	BIR164PL	
DRAWN	REV. NO.		
	1 6/22		

**SITE PLAN** 103-7\*  
TREPOLE  
SITE: ARMY RESERVE STATE: ALABAMA

REF. GPS:N 33°21'44.6", W 86°47'04.1"  
GPS:N 33°21'46.08", W 86°47'04.45"

EXHIBIT B



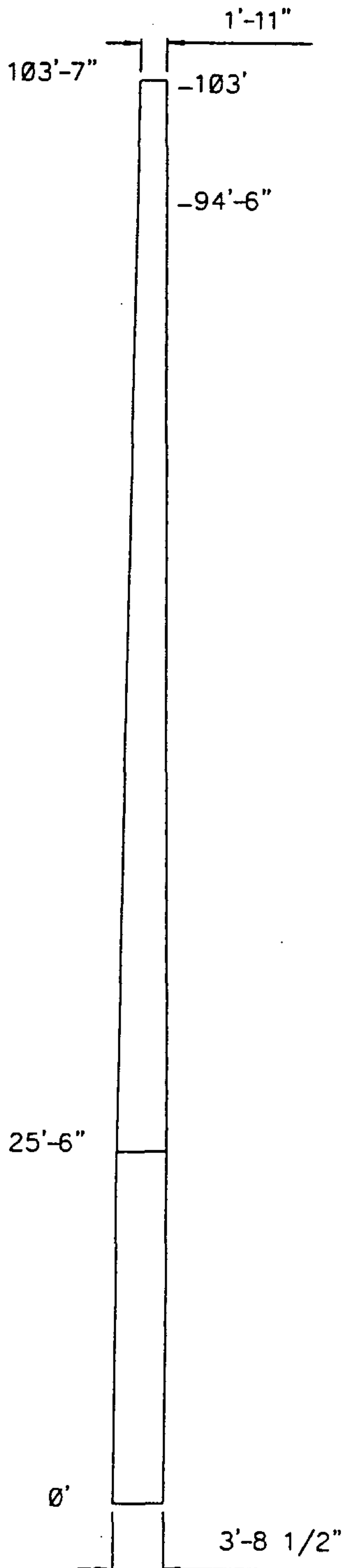
**EXHIBIT C**  
**TOWER ELEVATION**

See attached “as built” tower elevation describing the Tower and indicating the portion of the Tower that is part of the Reserved Space.

Site Name: BIR Army  
Site Number: BIR164  
Leased Site

FINAL

Accepted and Approved by Crown and BellSouth



### ROHN MONOPOLE

MODEL # MP

SERIAL # 3963345

OVERALL HEIGHT	TOWER HEIGHT	FOUNDATION HEIGHT
103'-7"	103'-7"	0"

### MISCELLANEOUS

ELEV.	DESCRIPTION
	NO LIGHTNING ROD OR LIGHTS
101'-1"	3- 2'x8" PORTS (25°, 145°, 265°)
86'-5"	3- 2'x8" PORTS (25°, 145°, 265°)
6'-0"	2'x8" PORT (85°)
1'-6"	2'x8" PORT (175°)

### ANTENNAS

ELEV.	DESCRIPTION	LINE SIZE	ANTENNA AZIMUTH	MOUNT AZIMUTH
103'	DB874H105 PANEL	7/8"	5	0
103'	DB874H105 PANEL	7/8"	5	60
103'	DB874H105 PANEL	7/8"	125	60
103'	DB874H105 PANEL	7/8"	125	120
103'	DB874H105 PANEL	7/8"	125	180
103'	DB874H105 PANEL	7/8"	245	180
103'	DB874H105 PANEL	7/8"	245	240
103'	DB874H105 PANEL	7/8"	245	300
103'	DB874H105 PANEL	7/8"	5	300
94'-6"	2- DAPA PANELS	2- 7/8"	70	70
94'-6"	2- DAPA PANELS	2- 7/8"	190	190
94'-6"	2- DAPA PANELS	2- 7/8"	310	310

### NOTE:

1. ALL ANTENNAS ARE MEASURED TO THE CENTERLINE, EXCEPT WHIPS WHICH ARE MEASURED TO THE BASE.
2. ALL ELEVATIONS SHOWN ARE FROM TOP OF FOUNDATION. (REF. ELEV. 0'-0")
3. OVERALL HEIGHT = TOWER HEIGHT + FOUNDATION HEIGHT AGL (ABOVE GROUND LEVEL)

### EXHIBIT C

BMI's SITE NAME ARMY RESERVE  
BELLSOUTH ACCOUNTING CODE UNKNOWN  
BELLSOUTH APPROVAL of BMI EQUIPMENT/IMPROVEMENTS: \_\_\_\_\_  
CROWN BUSINESS UNIT NUMBER \_\_\_\_\_

**NOTE:**  
ALL ANTENNAS OWNED  
BY BELLSOUTH  
UNLESS OTHERWISE  
NOTED WITH \*.

**STRUCTURE ELEVATION**  
SITE: ARMY RESERVE STATE: ALABAMA

**TWR** TELECOM, INC.



DRAWN BY McGARY SCALE 1" = 10' JOB NO. 16488 SIZE B  
CHKD BY HK DATE 03/07/00 DRAWING NO. BIR164EL  
ENGINEER 1 REV. NO. 6/22

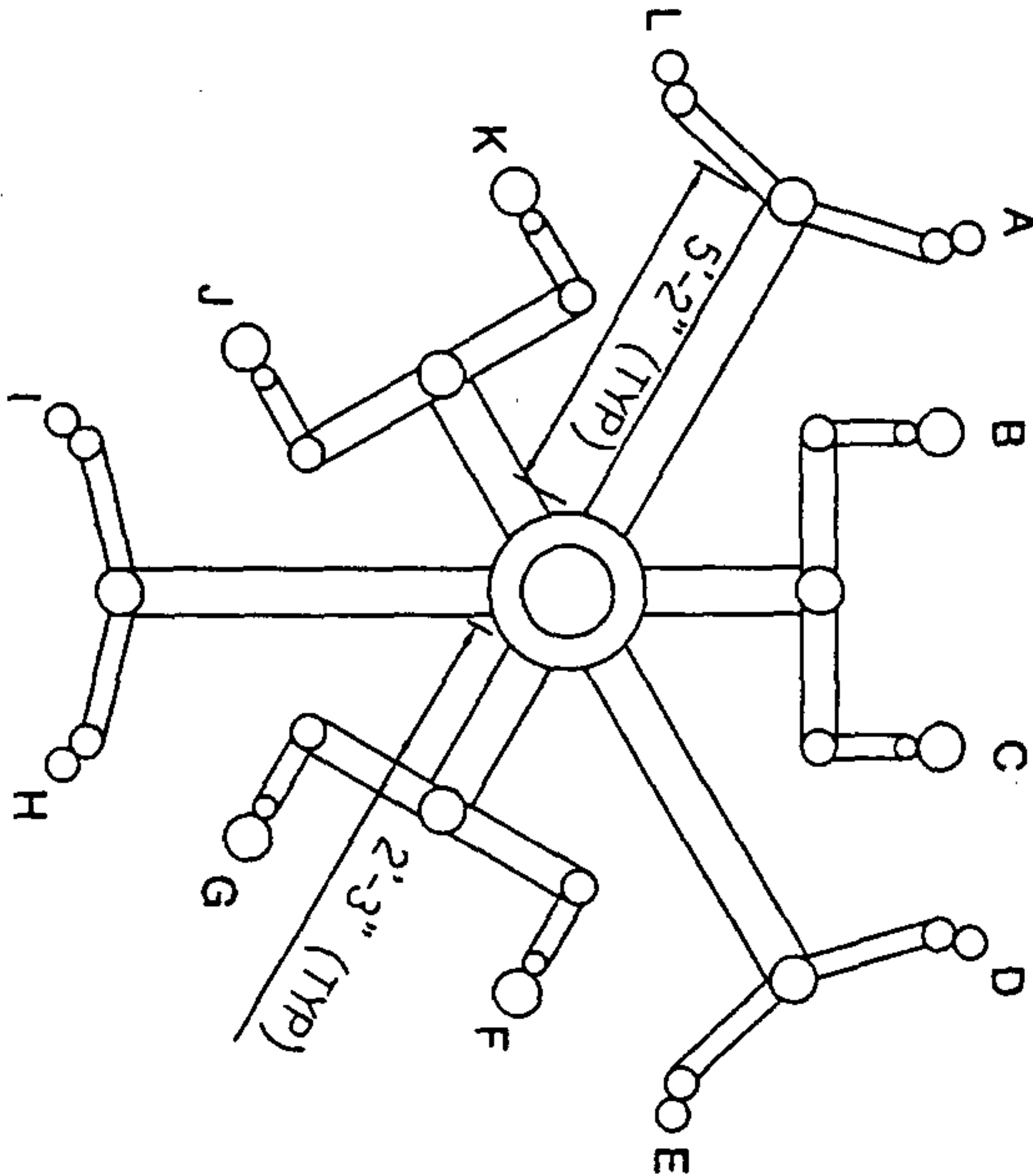
NOTICE: This drawing is the property of TWR Telecom, Inc. All information contained herein shall be not generally known shall be confidential except to the extent the information has been previously established. This drawing may not be reproduced, copied or used in any manner for manufacture or sale without written permission.

## **EXHIBIT D**

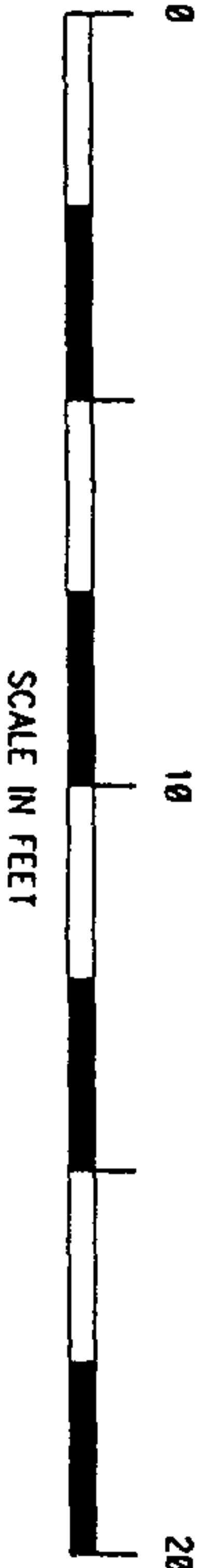
### **TOWER ANTENNA PLATFORM**

See attached “as built” tower antenna platform drawing describing the antenna platform(s) and indicating the portion thereof that is part of the Reserved Space.

Site Name: BIR Army  
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MOUNT ELEVATION = 102'



ANTENNAS				
POS.	DESCRIPTION	TMA SIZE	TMA LOCATION	TMA ELEVATION
A	DB874H105 PANEL, LINE 7/8", (D/T 0°)	NONE	NONE	NONE
B	DB874H105 PANEL, LINE 7/8", (D/T 0°)	NONE	NONE	NONE
C	OPEN	NONE	NONE	NONE
D	DB874H105 PANEL, LINE 7/8", (D/T 0°)	NONE	NONE	NONE
E	DB874H105 PANEL, LINE 7/8", (D/T 0°)	NONE	NONE	NONE
F	DB874H105 PANEL, LINE 7/8", (D/T 0°)	NONE	NONE	NONE
G	OPEN	NONE	NONE	NONE
H	DB874H105 PANEL, LINE 7/8", (D/T 0°)	NONE	NONE	NONE
I	DB874H105 PANEL, LINE 7/8", (D/T 0°)	NONE	NONE	NONE
J	DB874H105 PANEL, LINE 7/8", (D/T 0°)	NONE	NONE	NONE
K	OPEN	NONE	NONE	NONE
L	DB874H105 PANEL, LINE 7/8", (D/T 0°)	NONE	NONE	NONE

NOTE:

1. MOUNT ELEVATIONS REFLECT MEASUREMENTS TO CENTER OF THE MOUNT.

EXHIBIT D

DESCRIPTION	TOWER MOUNTED AMPLIFIER = TMA
A UPRIGHT MIDPOINT INVERTED	
LEGEND / ANTENNA IDENTIFIER	
T-ARM MOUNT	
SITE:ARMY RESERVE STATE:ALABAMA	
TWR TELECOM, INC.	

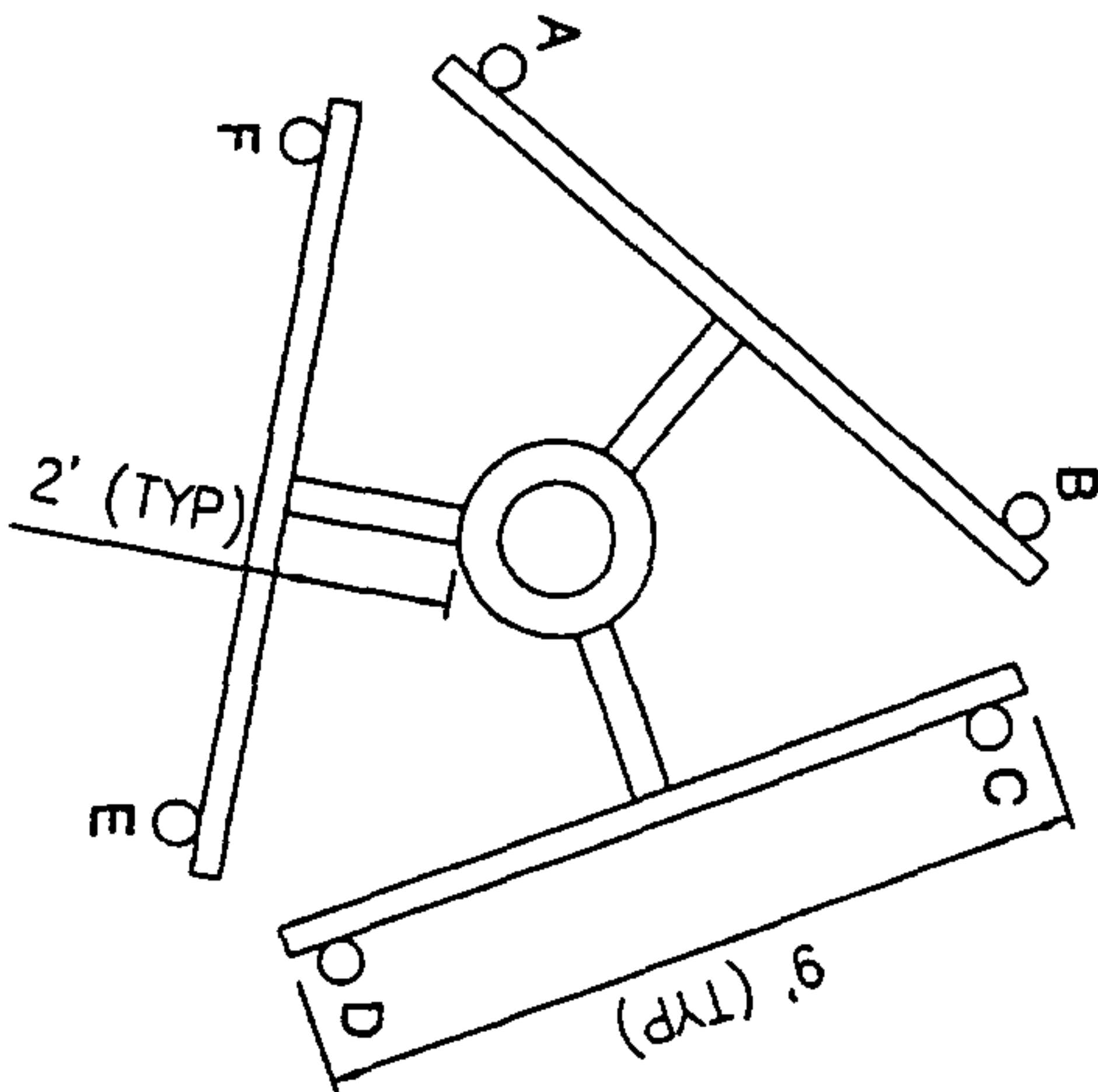
BMI's SITE NAME ARMY RESERVE  
BELLSOUTH ACCOUNTING CODE UNKNOWN  
BELLSOUTH APPROVAL of BMI EQUIPMENT/IMPROVE: ---  
CROWN BUSINESS UNITS NUMBER ---

NOTE:  
ALL ANTENNAS OWNED  
BY BELLSOUTH  
UNLESS OTHERWISE  
NOTED WITH \*.



DRAWN BY McGARY	SCALE 1" = 5'	DWG NO. 16488	DATE 03/07/00	REV. NO. 1	DATE 6/22	BY BIR16441
CHECKED BY HK						
SHEET 1 OF 2						





ANTENNAS				
POS.	DESCRIPTION	TMA SIZE	TMA LOCATION	TMA ELEVATION
A	DAPA PANEL, LINE 7/8", (D/T 07)	4.5"x8"x3"	ON BOOM	92
B	DAPA PANEL, LINE 7/8", (D/T 07)	4.5"x8"x3"	ON BOOM	92
C	DAPA PANEL, LINE 7/8", (D/T 07)	4.5"x8"x3"	ON BOOM	92
D	DAPA PANEL, LINE 7/8", (D/T 07)	4.5"x8"x3"	ON BOOM	92
E	DAPA PANEL, LINE 7/8", (D/T 07)	4.5"x8"x3"	ON BOOM	92
F	DAPA PANEL, LINE 7/8", (D/T 07)	4.5"x8"x3"	ON BOOM	92

MOUNT ELEVATION = 90'-6"



NOTE:  
1. MOUNT ELEVATIONS REFLECT MEASUREMENTS TO CENTER OF THE MOUNT.

EXHIBIT D

DESCRIPTION	TOWER MOUNTED AMPLIFIER = TMA
A UPRIGHT MIDPOINT INVERTED	
LEGEND / ANTENNA IDENTIFIER	
T-ARM MOUNT	
SITE: ARMY RESERVE STATE: ALABAMA	

BMI's SITE NAME: ARMY RESERVE  
BELLSOUTH ACCOUNTING CODE: UNKNOWN  
BELLSOUTH APPROVAL of BMI EQUIPMENT/IMPROVE: \_\_\_\_\_  
CROWN BUSINESS UNITS NUMBER: \_\_\_\_\_

NOTE:  
ALL ANTENNAS OWNED BY BELLSOUTH UNLESS OTHERWISE NOTED WITH \*.



DESIGNED BY	DATE	SCALE	JOB NO.	SHEET
McGARY	03/07/00	1" = 5'	16488	2 OF 2
HK			A	
			REV. NO. 1	6/22
			BIR164A2	

## **EXHIBIT E**

### **TRANSFERRING ENTITY'S IMPROVEMENTS**

1. All of Transferring Entity's Communications Equipment located on or in the equipment shelters, buildings and/or cabinets shown on **Exhibit B** and located on the Tower as shown on **Exhibits C and D**.
2. Equipment shelters, buildings and/or cabinets, all as shown on **Exhibit B**.
3. Generators and associated fuel tanks, if any, all as shown on **Exhibit B**.
4. Pads and foundations associated with equipment shelters, building, cabinets and generators.
5. Grounding rings for the equipment shelters, if any.

Site Name: BIR Army  
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Leased Site

## **EXHIBIT F**

### **ANTENNA WEIGHT AND SAIL AREA DATA**

See attached schedule of standard antenna weight and sail area data.

Site Name: BIR Army  
Site Number: BIR164  
Leased Site

## DATA

Antenna Manufacturer	Model	Wind Area (ft <sup>2</sup> )	Weight (lbs)
Allen Telecom	DB910CE-M	0.54	7.20
Allen Telecom	DB961DD90	2.80	11.00
Allen Telecom	DB961DD90T2	2.80	11.00
Allen Telecom	DB961DD90T2E-M	2.80	11.00
Allen Telecom	DB974H90	1.20	3.50
Allen Telecom	DB978H90E-M	2.55	7.10
Allen Telecom	DB980H105T2E-M	2.50	8.50
Allen Telecom	DB980H120E-M	2.50	8.50
Allen Telecom	DB980H90E-M	3.30	8.50
Allen Telecom	DB980H90T2B-M	3.30	8.50
Allen Telecom	DB980H90T2E-M	3.30	8.50
Allen Telecom	DB982H90T2A-M	3.00	10.00
Allen Telecom	DB982H90T2E-M	3.00	10.00
Allen Telecom	DB983H65	3.30	12.00
Allen Telecom	DB983H65T2	3.30	12.00
Allgon	4158.21	3.70	24.20
Allgon	7130.16	3.90	17.16
Allgon	7131.2	4.00	15.90
Allgon	7143.21	1.00	5.00
Allgon	7143.24	3.90	21.00
Allgon	7144.24	3.90	21.00
Allgon	7144.26	6.00	31.00
Allgon	7145.24	3.90	21.00
Allgon	7145.26	6.00	31.00
Allgon	7145.48	7.70	37.40
Allgon	7146.26	5.80	31.00
Allgon	7220.14	2.80	14.00
Allgon	2980-001	3.90	21.00
Allgon	2980-002	3.90	21.00
Allgon	7251.01	0.00	17.60
Allgon	740198R2	3.90	21.00
Allgon	OGC9-825 RFL-2	0.36	7.00
Allgon	OGC9-825N	3.90	21.00
Allgon	P-7WA48G	3.90	21.00
Allgon	RWA-80012	3.90	21.00
Allgon	RWA-80016	3.90	21.00
Allgon	SRL410 C9 L/4	5.49	35.00
Andrew	GP10F-21A	314.00	418.00
Andrew	GP12F-21	452.16	517.00
Andrew	GP6F-21A	113.04	198.00
Andrew	GP8F-21A	200.96	282.00
Andrew	HP10-107F	78.54	541.00
Andrew	HP12F-21A	452.16	850.00
Andrew	HP6F-21B	113.04	281.00
Andrew	HP8-107F	50.27	447.00
Andrew	HP8F-21	50.27	447.00
Andrew	HP-8F-21A	200.96	447.00
Andrew	P10F-21C	314.00	402.00
Andrew	P4F-21D	50.24	119.00
Andrew	P6-65D	113.04	162.00



## DATA

Antenna Manufacturer	Model	Wind Area (ft <sup>2</sup> )	Weight (lbs)
Andrew	P6F-21C	113.04	162.00
Andrew	P8F-21A	200.96	304.00
Andrew	P8F-21C	200.96	304.00
Andrew	PAR6-105	113.04	162.00
Andrew	PAR6-65A	28.27	281.00
Andrew	PAR8-65A	50.27	447.00
Andrew	PCS19HA-09016-2DG	3.10	10.00
Andrew	PCS19HA-11015-0DG	1.97	10.00
Andrew	PCS19HA-11015-2DG	3.10	10.00
Andrew	PL10-59D	314.00	402.00
Andrew	PL10-65D	314.00	402.00
Andrew	PL6-59D	113.04	162.00
Andrew	PL6-65D	113.04	162.00
Andrew	PL8-59D	200.96	304.00
Andrew	PL8-59D-1	200.96	304.00
Andrew	PL8-65D	200.96	304.00
Andrew	UHP8F-21	200.96	447.00
Andrew	UHX10-59J RF	314.00	541.00
Andrew	UHX12-59J RF	452.16	890.00
Andrew	UHX6-59J	113.04	281.00
Andrew	UHX6-59J RF	113.04	281.00
Andrew	UHX8-59H	200.96	447.00
Andrew	UHX8-59H LF	200.96	447.00
Antel	BCD 80010	0.23	26.50
Antel	BCR 80010:N270	6.00	55.00
Antel	BCR 80010N:90	4.20	37.00
Antel	BCR-80010	6.00	55.00
Antel	BCR80010:N180	6.00	55.00
Antel	BCR-80010:N270	6.00	55.00
Antel	BCR8-A	4.20	26.50
Antel	LPD7905/2	0.43	4.90
Antel	LPD7905/4	0.43	4.90
Antel	LPD7907/2	0.75	5.50
Antel	LPD7908/4	1.30	7.74
Antel	RWA - 80012	3.90	14.30
Antel	RWA-80010	2.00	8.40
Antel	RWA-80012	3.90	14.30
Antel	RWA-80013	3.90	14.30
Antel	RWA-80014	3.90	14.30
Antel	RWA-80015	7.87	31.00
Antel	RWA-80017	7.80	31.00
Antel	RWA-8006	1.08	5.30
Antel	RWA-8009	2.00	8.40
Antel	SRL410 C2 L/4	1.25	7.00
Antel	SRL410 C9 R90	5.49	35.00
Antenna Specialist	ASP2895	9.00	62.00
Antenna Specialist	ASP953	1.60	27.00
Antenna Specialist	ASP962	0.16	1.13
Antenna Specialist	ASP963	2.55	50.00
Antenna Specialist	ASP967	4.43	75.00

DATA

Antenna Manufacturer	Model	Wind Area (ft <sup>2</sup> )	Weight (lbs)
Antenna Specialist	ASP973	1.60	27.00
Antenna Specialist	ASP-977	1.75	35.00
Antenna Specialist	ASPD974	1.60	27.00
Antenna Specialist	ASPD977 -4	1.75	35.00
Antenna Specialist	ASPD977 -5.5	1.75	35.00
Antenna Specialist	ASPD977 -6	1.75	35.00
Antenna Specialist	ASPD978	1.75	35.00
Ball Wireless	PCS-VR-16-09007	21.00	7.00
Celwave	ALP868013	1.00	4.45
Celwave	AP11-850/105	2.71	21.30
Celwave	AP12-850/090	2.00	18.00
Celwave	AP861011	4.04	10.00
Celwave	AP866017	9.37	48.50
Celwave	AP881011	4.04	10.00
Celwave	AP8-850/105	1.61	5.90
Celwave	AP906513	2.71	17.62
Celwave	AP906516T0	1.61	7.05
Celwave	APL869012	2.00	11.60
Celwave	BCR10	4.80	87.00
Celwave	BCR10-B	4.80	87.00
Celwave	BCR12-0	7.60	124.00
Celwave	BCR12-A	7.60	87.00
Celwave	BCR12-A	7.60	124.00
Celwave	BCR12-H	7.60	87.00
Celwave	BCR12-H	7.60	124.00
Celwave	BCR12-H-B1	7.60	87.00
Celwave	BCR12-O	7.60	87.00
Celwave	BCR12-O-B1	7.60	87.00
Celwave	BCR12-OT3	7.60	124.00
Celwave	BCR6SP-HT2	2.10	58.00
Celwave	BCR8-0015	3.00	68.00
Celwave	DA10-107	314.00	930.00
Celwave	DA6-107A	28.27	440.00
Celwave	DA8-59A	50.27	680.00
Celwave	PA8-65	200.96	380.00
Celwave	PD10017	2.00	25.00
Celwave	PD10017-2B	2.00	25.00
Celwave	PD10017-4B	2.00	25.00
Celwave	PD10085	1.40	10.00
Celwave	PD10085L	1.40	10.00
Celwave	PD10099	1.50	23.00
Celwave	PD10108	0.18	8.00
Celwave	PD10162	1.70	20.00
Celwave	PD10164	2.00	25.00
Celwave	PD10164-2B	2.40	32.00
Celwave	PD10168	2.40	34.00
Celwave	PD10176		
Celwave	PD10177	6.20	43.00
Celwave	PD10183-2	2.55	40.00
Celwave	PD10186	2.00	25.00

## DATA

Antenna Manufacturer	Model	Wind Area (ft <sup>2</sup> )	Weight (lbs)
Celwave	PD10188	2.00	25.00
Celwave	PD10201	10.00	28.00
Celwave	PD10222H-4	0.13	1.60
Celwave	PD10236	4.04	10.00
Celwave	PD1108	0.85	0.17
Celwave	PD1109	1.28	17.00
Celwave	PD1110	1.70	20.00
Celwave	PD1124	2.63	11.00
Celwave	PD1132	5.50	60.00
Celwave	PD1132R-4	5.50	60.00
Celwave	PD1136	3.70	38.00
Celwave	PD1251		
Celwave	PD1610-3	0.36	4.00
Celwave	PD400-8	0.88	17.00
Comsat RSI	PCS D 085-17-2	3.57	11.80
Comsat RSI	PCS D 085-17-2V	3.57	11.80
Comsat RSI	PCS D 090-20-2	4.18	15.40
Comsat RSI	PCS D 090-20-2V	4.18	15.40
Comsat RSI	PCS SD 085-16-2	0.00	11.80
Comsat RSI	PCS SD 090-20-2	0.00	14.00
CSS	SA-13	4.67	39.00
DAPA	2900-004	6.11	24.50
DAPA	2900-005	4.58	21.20
DAPA	2900-006	3.26	19.00
DAPA	2942-006	2.38	13.00
DAPA	2960-001	2.44	17.00
DAPA	2960-004	6.11	24.50
DAPA	2960-005	4.58	21.20
DAPA	2960-006	3.26	19.00
DAPA	2960-008	2.44	23.40
DAPA	2962-006	3.26	19.00
DAPA	2980-001	3.26	26.50
DAPA	2980-005	6.11	33.10
DAPA	2980-006	4.35	30.20
DAPA	2980-011	3.26	26.50
DAPA	2980-012	3.26	35.30
DAPA	2981-006	4.35	30.20
DAPA	3961-005	4.58	21.20
DAPA	ALP4014 N	4.00	20.00
DAPA	ALP8009 N10T	2.70	16.20
DAPA	ALP8009 N20T	2.70	16.20
DAPA	ALP8010 N	2.10	16.00
DAPA	ALP9211 N	3.90	26.70
DAPA	DAPA 2980-002	3.26	35.30
Decibel Products	ASPD-952	1.20	17.00
Decibel Products	ASPD963	2.55	50.00
Decibel Products	ASPD-973	1.60	27.00
Decibel Products	ASPD975	3.50	45.00
Decibel Products	ASPD975-3	3.50	45.00
Decibel Products	ASPD975-3T	3.50	45.00



## DATA

Antenna Manufacturer	Model	Wind Area (ft <sup>2</sup> )	Weight (lbs)
Decibel Products	ASPD975-5T	3.50	45.00
Decibel Products	ASPD977	1.75	35.00
Decibel Products	ASPD977-3	1.75	35.00
Decibel Products	ASPD977-4	1.75	35.00
Decibel Products	ASPD977-5	1.75	35.00
Decibel Products	ASPD977-6	1.75	35.00
Decibel Products	ASPD978	1.75	35.00
Decibel Products	ASPD978-4	1.75	35.00
Decibel Products	ASPF-955	0.20	3.00
Decibel Products	DB499C	0.25	5.00
Decibel Products	DB560	2.34	35.00
Decibel Products	DB560	1.66	20.00
Decibel Products	DB561	2.87	43.00
Decibel Products	DB561	2.87	43.00
Decibel Products	DB561	2.87	43.00
Decibel Products	DB561K	2.87	43.00
Decibel Products	DB561K-CT	2.87	43.00
Decibel Products	DB562	3.41	47.00
Decibel Products	DB562K-CT	3.41	47.00
Decibel Products	DB563	3.52	50.00
Decibel Products	DB563Z	3.52	50.00
Decibel Products	DB564	4.10	53.00
Decibel Products	DB564K-CR	4.10	53.00
Decibel Products	DB564K-CR	4.10	53.00
Decibel Products	DB564K-CT	4.10	53.00
Decibel Products	DB564K-CT	4.10	53.00
Decibel Products	DB567 R90	3.90	21.00
Decibel Products	DB567 R90	7.00	80.00
Decibel Products	DB567KR90	7.00	66.00
Decibel Products	DB567KR90-CR	7.00	80.00
Decibel Products	DB567KR90-CT	7.00	80.00
Decibel Products	DB580	0.13	3.80
Decibel Products	DB583	0.13	3.80
Decibel Products	DB586	0.33	8.25
Decibel Products	DB586T6	0.33	8.25
Decibel Products	DB589	0.33	15.00
Decibel Products	DB589-XCT	0.64	11.50
Decibel Products	DB589-XCT3	0.64	11.50
Decibel Products	DB803	0.33	6.00
Decibel Products	DB803M-XC	0.33	6.00
Decibel Products	DB806	0.98	21.00
Decibel Products	DB806M	0.64	8.00
Decibel Products	DB806T6	0.98	21.00
Decibel Products	DB809	1.90	30.00
Decibel Products	DB809K	1.90	30.00
Decibel Products	DB809K-XC	1.90	30.00
Decibel Products	DB809M	1.19	25.00
Decibel Products	DB809M-XC	1.19	25.00
Decibel Products	DB809SR-X	1.90	30.00
Decibel Products	DB809SR-XC	1.90	30.00



## DATA

Antenna Manufacturer	Model	Wind Area (ft <sup>2</sup> )	Weight (lbs)
Decibel Products	DB809T3	1.90	30.00
Decibel Products	DB809T3-XC	1.90	30.00
Decibel Products	DB809T6	1.90	30.00
Decibel Products	DB809T6-XC	1.90	30.00
Decibel Products	DB810	2.34	35.00
Decibel Products	DB810K	2.34	35.00
Decibel Products	DB810KT3-XC	2.34	35.00
Decibel Products	DB810KU3-XC	2.34	35.00
Decibel Products	DB810K-XC	2.34	35.00
Decibel Products	DB810K-XC	2.34	35.00
Decibel Products	DB810M	2.34	35.00
Decibel Products	DB810M	2.34	35.00
Decibel Products	DB810M-XC	2.34	35.00
Decibel Products	DB812	3.20	66.00
Decibel Products	DB812F	3.50	72.00
Decibel Products	DB812K-XC	3.50	72.00
Decibel Products	DB833	2.00	15.00
Decibel Products	DB833R-F	2.00	20.00
Decibel Products	DB834	2.35	19.00
Decibel Products	DB834R-F	2.35	19.00
Decibel Products	DB842H80	1.00	5.00
Decibel Products	DB844H80	1.00	5.00
Decibel Products	DB844H80T6-XY	1.00	5.00
Decibel Products	DB844H90	2.00	10.00
Decibel Products	DB844H90VT-SX	2.00	10.00
Decibel Products	DB844H90VT-X	2.00	12.00
Decibel Products	DB844H90-X	2.00	12.00
Decibel Products	DB848H90-XY	4.00	20.00
Decibel Products	DB854H90	4.00	17.50
Decibel Products	DB854HV90D-SX	13.74	43.00
Decibel Products	DB854HVVH90D-SX	13.74	43.00
Decibel Products	DB855DDH90	5.00	28.00
Decibel Products	DB855DDH90(E)	5.00	28.00
Decibel Products	DB858 H90	13.74	41.00
Decibel Products	DB858DDH90SX	13.74	41.00
Decibel Products	DB858HV65-SX	8.00	43.00
Decibel Products	DB864 H90	1.04	5.00
Decibel Products	DB871 H105	1.04	5.00
Decibel Products	DB871 H120	1.04	5.00
Decibel Products	DB871 H83	1.04	5.00
Decibel Products	DB872 H105	2.06	7.00
Decibel Products	DB872 H120	2.06	7.00
Decibel Products	DB872 H83	2.06	7.00
Decibel Products	DB872H105-X	2.06	7.00
Decibel Products	DB872H120	2.06	7.00
Decibel Products	DB874H105	4.10	14.00
Decibel Products	DB874H105	4.10	14.00
Decibel Products	DB874H105-X	4.10	14.00
Decibel Products	DB874H105-XC	4.10	14.00
Decibel Products	DB874H120	4.10	14.00

DATA

Antenna Manufacturer	Model	Wind Area (ft <sup>2</sup> )	Weight (lbs)
Decibel Products	DB874H120	4.10	14.00
Decibel Products	DB874H83	4.10	14.00
Decibel Products	DB874H83-SX	4.10	14.00
Decibel Products	DB878H105	8.00	20.00
Decibel Products	DB878H105-X	8.00	20.00
Decibel Products	DB878H105-XC	8.00	20.00
Decibel Products	DB878H120	8.00	20.00
Decibel Products	DB878H120-X	8.00	20.00
Decibel Products	DB878H120-XC	8.00	20.00
Decibel Products	DB878H83	8.00	20.00
Decibel Products	DB878H83	8.00	20.00
Decibel Products	DB878H83-SX	8.00	20.00
Decibel Products	DB878H83-X	8.00	20.00
Decibel Products	DB881H60	1.04	5.00
Decibel Products	DB882H60	2.06	7.00
Decibel Products	DB884H45	3.90	21.00
Decibel Products	DB884H45	4.10	14.00
Decibel Products	DB884H45	4.10	14.00
Decibel Products	DB884H45-X	4.10	14.00
Decibel Products	DB884H60	4.10	14.00
Decibel Products	DB930DD65E-M	2.70	15.00
Decibel Products	DB932DD65T2E-M	3.10	17.00
Decibel Products	DB932DD90T2E-M	4.50	18.00
Decibel Products	DB978H120E-M	2.00	7.10
Decibel Products	DB983H65E-M	3.30	12.00
EMS	FC90-11-00NA	4.00	21.00
EMS	FR90-16-00DP	3.10	18.00
EMS	FR90-16-02DP	3.10	18.00
EMS	FS70-12-00NA	8.00	36.00
EMS	FS70-12-10_A2	8.00	36.00
EMS	FS90-09-00	5.00	27.00
EMS	FS90-09-05_A2	5.00	27.00
EMS	FS90-11-00	8.00	36.00
EMS	FS90-12-00_A2	8.00	36.00
EMS	FV105-10-00	2.70	15.00
EMS	FV105-10-05	2.70	15.00
EMS	FV105-10-10	2.70	15.00
EMS	FV105-12-00	8.00	34.00
EMS	FV60-15-00NA	8.00	27.50
EMS	FV65-13-00_A2	4.00	21.00
EMS	FV70-14-00_A2	4.00	21.00
EMS	FV90-09-10NA	2.70	15.00
EMS	FV90-11-00	4.00	21.00
EMS	FV90-11-05_A2	4.00	21.00
EMS	FV90-11-10_A2	4.00	21.00
EMS	FV90-12-00	6.00	30.00
EMS	FV90-12-00_A2	6.00	30.00
EMS	FV90-12-05_A2	6.00	30.00
EMS	FV90-12-10	6.00	30.00
EMS	FV90-12-10_A2	6.00	30.00

## DATA

Antenna Manufacturer	Model	Wind Area (ft <sup>2</sup> )	Weight (lbs)
EMS	FV90-13-00	6.00	30.00
EMS	FV90-13-00_A2	8.00	34.00
EMS	RR90-14-00	1.70	9.00
EMS	RR90-17-02	3.10	18.00
EMS	RS80-10-00_A2	8.00	36.00
EMS	RV105-11-00_A2	4.00	21.00
Gabriel	DDP10P-59BSE	78.54	370.00
Gabriel	DDP8P-59BSE	50.27	280.00
Gabriel	GHA10-21	78.54	310.00
Gabriel	SRD10-59ASE	78.54	535.00
Gabriel	SRD8-59ASE	50.27	395.00
Hazeltine	820-080-11-9 840	6.30	28.00
Hazeltine	820-080-11-9 870	6.30	28.00
Kathrein	740198	1.37	16.00
Kathrein	63-30-6-1	5.38	22.00
Kathrein	740198 RFM3	2.00	39.00
Kathrein	740198R2	2.73	23.50
Kathrein	740198RF	18.00	1.80
Kathrein	740198RFL2	1.36	15.00
Kathrein	740198RFM2	39.00	2.00
Kathrein	KT-740198	1.37	16.00
Kathrein	KT-740198R2	2.73	23.50
Kathrein	KT-740198R2	2.73	23.50
Kathrein	KT-740198RFL2	2.73	23.50
Kathrein	KT-740198RFL2	2.73	23.50
Kathrein	KT-740198RFL5/8	1.73	18.00
Kathrein	KT-740198RFL5/8	1.73	18.00
Mark	HP-100A72 RF	113.04	336.00
Mark	HP-60A120L	314.00	860.00
Mark	HP-60A72 L	113.04	336.00
Mark	HP-60A72 RF	113.04	336.00
Mark	MHP-21A96	200.96	491.00
Mark	MHP-60A72 R	113.04	336.00
Mark	P-21A120G	314.00	286.00
Mark	P-21A120GF	314.00	286.00
Mark	P-21A120N	314.00	575.00
Mark	P-21A144G	452.16	465.00
Mark	P-21A48	50.24	127.00
Mark	P-21A48N	50.24	127.00
Mark	P-21A72G	113.04	128.00
Mark	P-21A72GF	113.04	128.00
Mark	P-21A72N	113.04	202.00
Mark	P-21A96G	200.96	216.00
Mark	P-21A96GF	200.96	216.00
Mark	P-21A96N	200.96	293.00
Mark	P-21B72GF	113.04	128.00
Mark	P-22A72G	113.04	128.00
Mark	P-24A48GN-2	50.24	86.00
Mark	P-24A72GN-U	113.04	128.00
Mark	P-24A96GN	200.96	216.00



## DATA

Antenna Manufacturer	Model	Wind Area (ft2)	Weight (lbs)
Mark	P-57848N-2	50.24	127.00
Mark	P-57A48N	50.24	127.00
Mark	P-57A48N-2	50.24	127.00
Mark	P-57A72N-2	113.04	202.00
Mark	P-57A96-2	200.96	293.00
Mark	PA-21B48N	50.24	127.00
Mark	PA-21B72G	113.04	171.00
Northern Telecom	CELL PLUS		
Northern Telecom	SMART	17.24	176.00
Northern Telecom	SMART	17.24	176.00
Northern Telecom	SMART 2.5	17.24	176.00
RSI	A-57A24N-U	78.54	20.00
RSI	HP-105A120	78.54	866.00
RSI	HP-105A72	28.27	336.00
RSI	HP-60120W	78.54	866.00
RSI	HP-60A72	28.27	336.00
RSI	MHP-21A72	28.27	336.00
RSI	MHP-21A96	50.27	491.00
RSI	MHP-21B96	50.27	491.00
RSI	MHP-6072W	28.27	336.00
RSI	MHP-6096W	50.27	491.00
RSI	MHP-60A96	50.27	491.00
RSI	P-105A48	12.57	109.00
RSI	P-21A120G	27.43	286.00
RSI	P-21A144G	46.87	465.00
RSI	P-21A72G	11.22	171.00
RSI	P-21A96G	19.00	216.00
RSI	P-24A48G	6.32	86.00
RSI	P-24A72G	11.22	171.00
RSI	P-24A72GF-2	11.22	171.00
RSI	P-24A96G	19.00	216.00
RSI	P-57A72N	28.27	120.00
RSI	P-57A96N	50.27	240.00
RSI	P-57B48N	12.57	109.00
RSI	P-57C24N	3.14	120.00
RSI	P-60A72	28.27	120.00
RSI	P-60A96	50.27	240.00
RSI	PA-21B72G	11.22	128.00
RSI	PA-21B72GP	11.22	128.00
Scala	740198	1.37	16.00
Scala	740217	3.90	13.40
Scala	AP11-850/105	3.50	13.60
Scala	AP13-850/065	3.50	19.00
Scala	AP16-850/047	7.50	26.00
Scala	KT740198R2	2.73	23.50
Scala	KT740198R5/8	1.73	18.00
Scala	KT740218R2	2.73	23.50
Scala	KT740218R5/8	1.73	18.00
Scala	OGC 9825RFL5/8	1.73	18.00
Scala	OGC6-825-2D	1.94	16.00



## DATA

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Antenna Manufacturer	Model	Wind Area (ft <sup>2</sup> )	Weight (lbs)
Scala	OGC9-825	1.37	16.00
Scala	OGC9-825 RFL5/8	1.97	18.00
Scala	OGC9-825N	1.37	16.00
Scala	OGC9-825N RFL2	0.60	23.00
Scala	OGC9-825N RFM3	0.60	23.00
Scala	OGC9-825NR5/8	1.73	18.00
Scala	OGC9-825RFL-2	1.37	16.00
Scala	PR-850	4.40	38.00
Scala	PRBB-850	4.40	38.00
Sinclair	SLR-410C-4R160	2.80	27.00
Sinclair	SLR-410C-4R60	2.58	27.00
Sinclair	SLR-410C-4R90	2.57	27.00
Sinclair	SRL410 C9 R105	5.50	35.00
Sinclair	SRL410 C9 R160	5.94	35.00
Swedcom	900900NA	1.33	10.00
Swedcom	901200NA	2.30	20.00
Swedcom	901200NAS	2.30	20.00
Swedcom	901205NAS	2.30	20.00
Swedcom	901210NAS	2.30	20.00
Swedcom	ALP110 08	1.60	15.00
Swedcom	ALP110 11	3.70	24.50
Swedcom	ALP4014-N	4.00	20.00
Swedcom	ALP4016N	8.10	33.30
Swedcom	ALP6011N	2.30	18.00
Swedcom	ALP6014N	5.40	28.90
Swedcom	ALP6016N	9.50	55.10
Swedcom	ALP8010N	2.10	16.00
Swedcom	ALP8013N	4.50	27.30
Swedcom	ALP9209N	1.70	15.30
Swedcom	ALP9212N	3.90	26.70
Swedcom	ALP9214N	8.10	53.30
Swedcom	ALP-E 9011	2.30	20.00
Swedcom	CTY10510 N	5.30	16.00
Swedcom	CTY9006-N	5.10	2.00
Swedcom	CTY9010	5.30	16.00