

SITE NAME: MINC KILT

AMENDMENT NO. 2 TO SITE LEASE AGREEMENT

This AMENDMENT NO. 2 TO SITE LEASE AGREEMENT ("Amendment") is made this _____ day of _____, 2015, by and between the Board of Water Commissioners of the City of Saint Paul, a Minnesota municipal corporation ("Lessor"), and Verizon Wireless (VAW) LLC d/b/a Verizon Wireless, a Delaware limited liability company ("Lessee"), with its principal office located at One Verizon Way, Mail Stop 4AW100, Basking Ridge, New Jersey 07920 (telephone number 866-862-4404), with reference to the facts set forth in the Recitals below:

RECITALS

- A. Lessor and Lessee are parties to a Site Lease Agreement dated October 28, 2011 ("Agreement") whereby Lessor has leased ground space and water tower space to Lessee at Lessor's Highland Water Tower No. 3, located at 750 Snelling Avenue South, St. Paul, Minnesota 55104.
- B. The parties entered into Amendment No. 1 to Site Lease Agreement dated August 22, 2012 to provide for a revised Lease Exhibit A to depict revisions to the utility easements.
- C. The parties desire to further amend the Agreement at this time to provide for (i.) the replacement of twelve (12) antennas, (ii.) the installation of three (3) Remote Radio Units and three (3) Tower Mounted Amplifiers, (iii.) the installation of related appurtenances, and (iv.) an increase in the annual rent payable to Lessor under the Agreement.

AGREEMENT

NOW, THEREFORE, in consideration of the facts contained in the Recitals above, the mutual covenants and conditions below, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. EFFECTIVE DATE.
The effective date of this Amendment shall be the date last signed below ("Effective Date").
2. REVISED INSTALLATION.
 - a. Lessee shall have the right to modify its Communications Facilities as described and depicted on Exhibit A-1 (Construction Drawings Rev C dated December 11, 2014, attached hereto and incorporated herein.)
 - b. Exhibit B of the Agreement is deleted in its entirety and is replaced with Exhibit B-1, attached hereto and incorporated herein.
3. REVISED ANNUAL RENT. As consideration for the rights granted herein, commencing on July 1, 2015, the annual rent shall be revised to a total of Forth-Nine Thousand Five Hundred Forty-One and 51//100 Dollars (\$49,541.51); however, the increase for 2015 shall be prorated. Lessee shall make all payments of rent to Lessor at the following address:

Board of Water Commissioners
Attn: Accounting
1900 Rice Street, Office Building
Saint Paul, Minnesota 55113

4. NOTICE. Each party's notice address in Paragraph 16 of the Agreement is hereby replaced with the following:

Lessor: Board of Water Commissioners
Attn: Engineering
1900 Rice Street, Office Building
Saint Paul, Minnesota 55113

Lessee: Verizon Wireless (VAW) LLC
d/b/a Verizon Wireless
180 Washington Valley Road
Bedminster, New Jersey 07921
Attention: Network Real Estate

5. RATIFICATION OF THE AGREEMENT.

a. Except as specifically modified by this Amendment, the parties agree that all of the terms and conditions of the Agreement are in full force and effect and remain unmodified, and the parties hereby ratify and reaffirm the terms and conditions of the Agreement and agree to perform and comply with the same.

b. In the event of a conflict between any term or provision of the Agreement and this Amendment, the terms and provisions of this Amendment shall control.

c. Except as otherwise stated in this Amendment, all initially capitalized terms will have the same respective defined meaning stated in the Agreement. All captions are for reference purposes only and shall not be used in the construction or interpretation of this Amendment.

Signatures on following page

IN WITNESS WHEREOF, Lessor and Lessee have caused this Amendment to be executed by each party's duly authorized representative as of the Effective Date.

For Lessor:
Approved:

**BOARD OF WATER COMMISSIONERS
OF THE CITY OF SAINT PAUL**

Stephen P. Schneider, General Manager
Saint Paul Regional Water Services

Matt Anfang, President

Approved as to Form:

Mollie Gagnelius, Secretary

Assistant City Attorney

Todd Hurley, Director
Office of Financial Services

CITY OF SAINT PAUL

Kristin Beckmann, Deputy Mayor

Shari Moore, City Clerk

For Lessee:

**VERIZON WIRELESS (VAW) LLC
d/b/a Verizon Wireless**

ACKNOWLEDGEMENTS

BOARD OF WATER COMMISSIONERS OF THE CITY OF SAINT PAUL

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

On _____, 2015, before me, _____, Notary Public, personally appeared Matt Anfang, President, Board of Water Commissioners of the City of Saint Paul, a Minnesota municipal corporation, on behalf of the corporation.

Witness my hand and official seal.

Notary Public

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

On _____, 2015, before me, _____, Notary Public, personally appeared Mollie Gagnelius, Secretary, Board of Water Commissioners of the City of Saint Paul, a Minnesota municipal corporation, on behalf of the corporation.

Witness my hand and official seal.

Notary Public

CITY OF SAINT PAUL

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

On _____, 2015, before me, _____, Notary Public, personally appeared Kristin Beckmann, Deputy Mayor of the City of Saint Paul, a Minnesota municipal corporation, on behalf of the corporation.

Witness my hand and official seal.

Notary Public

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

On _____, 2015, before me, _____, Notary Public, personally appeared Shari Moore, City Clerk, City of Saint Paul, a Minnesota municipal corporation, on behalf of the corporation.

Witness my hand and official seal.

Notary Public

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

On _____, 2015, before me, _____, Notary Public, personally appeared Todd Hurley, Director, Office of Financial Services of the City of Saint Paul, a Minnesota municipal corporation, on behalf of the corporation.

Witness my hand and official seal.

Notary Public

Exhibit A-1
(Attached CDs Rev C dated 12/11/14)

VERIZON WIRELESS

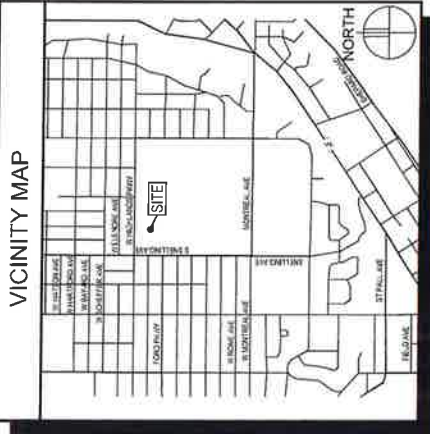
MINC KILT AWS



SITE PHOTO

GENERAL NOTES

- In the event that Special Inspections are not performed in compliance with the contract terms, bid specifications and/or specified form, the General Contractor will be liable for all damages, construction performance, failures, and corrective actions related to the same.
- The following general notes shall apply to drawings and specifications unless otherwise noted or specified.
 - 1. The work indicated in these drawings and specifications shall conform to codes, standards and regulations that have jurisdiction in the state of MINNESOTA and the city of ST. PAUL.
 - 2. Requirements and regulations pertaining to R.F. safety codes and practices must be incorporated in the work even though they may not be listed individually and separately in either the drawings or the specifications.
 - 3. Compare field conditions with architectural and engineering drawings. Any discrepancies shall be directed to the Architect for clarification prior to fabrication and/or construction. Submit necessary shop drawings prior to fabrication for approval by the Architect. No information or details on these sheets may be used without the permission of the owner, or the architect.
 - 4. Do not scale drawings! 11" x 17" drawings to scale 24" x 36" drawings scale multiply by 2
 - 5. Unless otherwise shown or noted, typical details shall be used where applicable.
 - 6. Details shall be considered typical as similar conditions.
 - 7. Safety measure: The contractor shall be solely and completely responsible for the conditions of the job site, including safety of the persons and property and for independent engineering reviews of these conditions. The Architect's or Engineer's job after review in no way intended to include review of the adequacy of the contractor's safety measures.
 - 8. Within these plans and specifications, "Owner" implies VERIZON WIRELESS.
 - 9. The work is the responsibility of the general contractor unless noted otherwise.
 - 10. The terms "contractor" and "g.c." refer to the owner's general contractor and the general contractor's sub-contractors. It is the general contractor's responsibility to determine the division of work among sub-contractors.
 - 11. The general contractor is responsible in obtaining necessary public and private underground utility locate services prior to start of excavating / construction.



VICINITY MAP

SITE DIRECTIONS

DIRECTIONS TO SITE FROM THE BLOOMINGTON INTERSECTION OF I-94 AND I-494: TAKE US-169 NORTH FOR 3.5 MILES TO I-494. TAKE I-494 EAST FOR 0.5 MILES TO SR-5 (EXIT 1A). TAKE SR-5 NORTHEAST FOR 3.5 MILES TO S SNELLING AVE. TAKE S SNELLING AVE NORTH FOR 1.3 MILES TO THE SITE ON THE EAST SIDE OF THE ROAD.

PROJECT INFORMATION

SITE NAME: MINC KILT
 PROJECT NUMBER: 20141085153
 SITE ADDRESS: 750 SNELLING AVE. S, ST. PAUL, MN 55116
 COUNTY: RAMSEY
 LATITUDE: N44° 55' 09.20"
 LONGITUDE: W93° 09' 55.00"
 GROUND ELEVATION: 944.8' AMSL
 ANTENNA TIP HEIGHT: VARIES (SEE ANTENNA KEY)
 ANTENNA CENTERLINE HEIGHT: 60' AGL
 STRUCTURE HEIGHT: 108' AGL
 OVERALL STRUCTURE HEIGHT: 108.4' (FIELD VERIFY)
 GENERATOR ON SITE: YES (VZW OWNED)
 TOWER BUILT: 1989
 BASED ON SINCO DATED: 05/07-14
 COAX RUNS: "X" COAX RUN = (4) 1-5/8" LINES (EXISTING) (15) TOTAL
 "Y" COAX RUN = (4) 1-5/8" LINES (EXISTING) (12) EXISTING
 (3) PROPOSED
 (3) 2RRU "HYBRID CABLES" (PROPOSED)
 PROJECT DESCRIPTION: REMOVE (12) EXISTING PANEL ANTENNAS, ADD (12) PROPOSED PANEL ANTENNAS, (3) RRUS-12 "REMOTE RADIOS", (3) SECTOR BOXES, (3) 2RRU HYBRID CABLES, AND (1) MAIN DISTRIBUTION BOX.

SHEET INDEX	
SHEET	SHEET DESCRIPTION
T-1	PROJECT INFORMATION, AMPS, DIRECTIONS, AND SHEET INDEX
A-1	TOWER ELEVATIONS
A-2	EQUIPMENT ROOM PLAN, COAX ENTRY DETAILS
A-3	COAX, ANTENNA & TTA KEY
A-4	MOUNTING DETAILS, ONE-LINE DIAGRAM, AND COAX LAYOUT PLAN
A-5	MISC. PHOTOS
81-85	STRUCTURAL DRAWINGS, NOTES AND DETAILS
	S.E.H. PAINTING SPECIFICATIONS

ISSUE SUMMARY

REV.	DESCRIPTION	SHEET OR DETAIL
A	ISSUED FOR REVIEW 05-04-14	ALL
B	ISSUED FOR OWNER SIGNOFF 09-15-14	ALL
C	ISSUED FOR OWNER SIGNOFF 12-11-14	ALL

CONTACTS

LESSOR: CITY OF ST. PAUL
 LESSEE: VERIZON WIRELESS
 10801 BUSH LAKE ROAD
 BLOOMINGTON, MN 55438
 MIKE COGAR (612) 720-0030
 ARCHITECT: DESIGN: 1 OF EDEN PRAIRIE, LLC
 9973 VALLEY VIEW ROAD
 EDEN PRAIRIE, MN 55334
 (952) 903-9299
 STRUCTURAL ENGINEER: ULTEIG ENGINEERS
 4285 LEXINGTON AVE. N.
 ST. PAUL, MN 55126
 (651) 415-3800

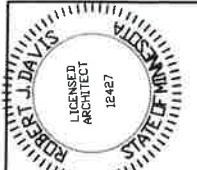
VERIZON WIRELESS DEPARTMENTAL APPROVALS

JOB TITLE	NAME	DATE
RF ENGINEER		
CONSTRUCTION ENGINEER	CHRIS LANGARATINE	09-09-14

LESSOR / LICENSOR APPROVAL

SIGNATURE	PRINTED NAME	DATE

LESSOR / LICENSOR: PLEASE CHECK THE APPROPRIATE BOX BELOW
 NO CHANGES CHANGES NEEDED. SEE COMMENTS ON PLANS



Notes: In the City and the State of Minnesota, or report may be prepared by a professional engineer or architect registered under the laws of the State of Minnesota.
 PNY Name: ROBERT J. DAVIS
 Date: 12-11-14



ROBERT J. DAVIS, AIA
 ARCHITECT
 10801 BUSH LAKE ROAD
 BLOOMINGTON, MN 55438
 (952) 900-9299

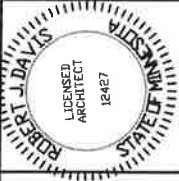
PROJECT: 20141085153
 MINC KILT AWS

750 SNELLING AVE. S
 ST. PAUL, MN 55116

SHEET CONTENTS:

NO.	ISSUE SUMMARY	DATE
1	DEPARTMENTAL APPROVALS	09-09-14
2	PROJECT INFORMATION	05-04-14
3	GENERAL NOTES	05-04-14

DATE: 05-04-14
 CHECKED BY: TLR
 REV. A: 08-04-14
 REV. B: 09-15-14
 REV. C: 12-11-14



I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect in the State of Minnesota.

Professional Seal of the State of Minnesota

Robert J. Davis
Architect

124127

DESIGN

ROBERT J. DAVIS, AIA
1000 VALLEY VIEW RD.
EDEN PRAIRIE, MN 55244
(952) 960-9299

VERIZON WIRELESS

15001 BURGESS BLVD. #200
BLOOMINGTON, MN 55425
(612) 750-0030

PROJECT
20141085153

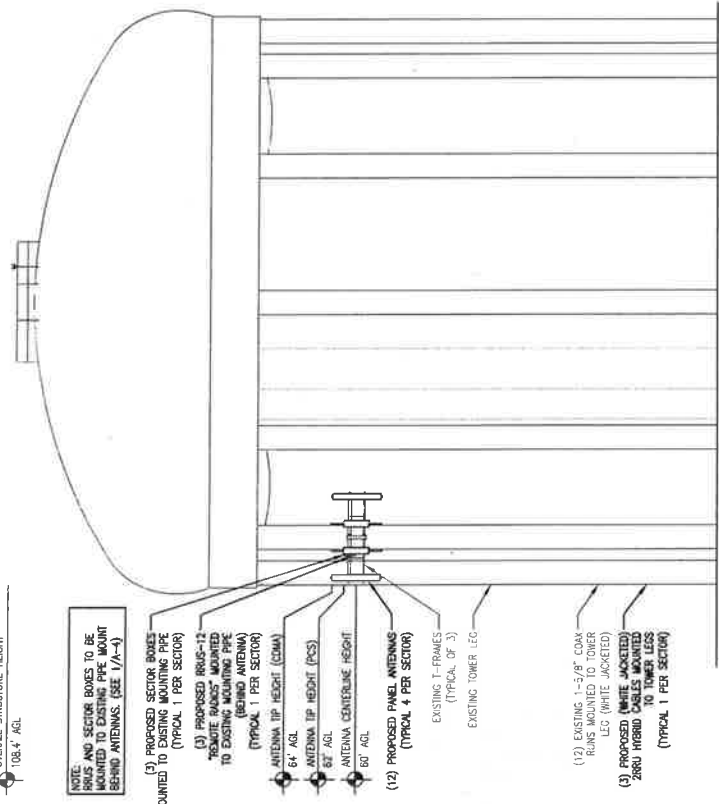
MINC
KILT
AWS

750 SNELLING AVE. S.
ST. PAUL, MN 55116

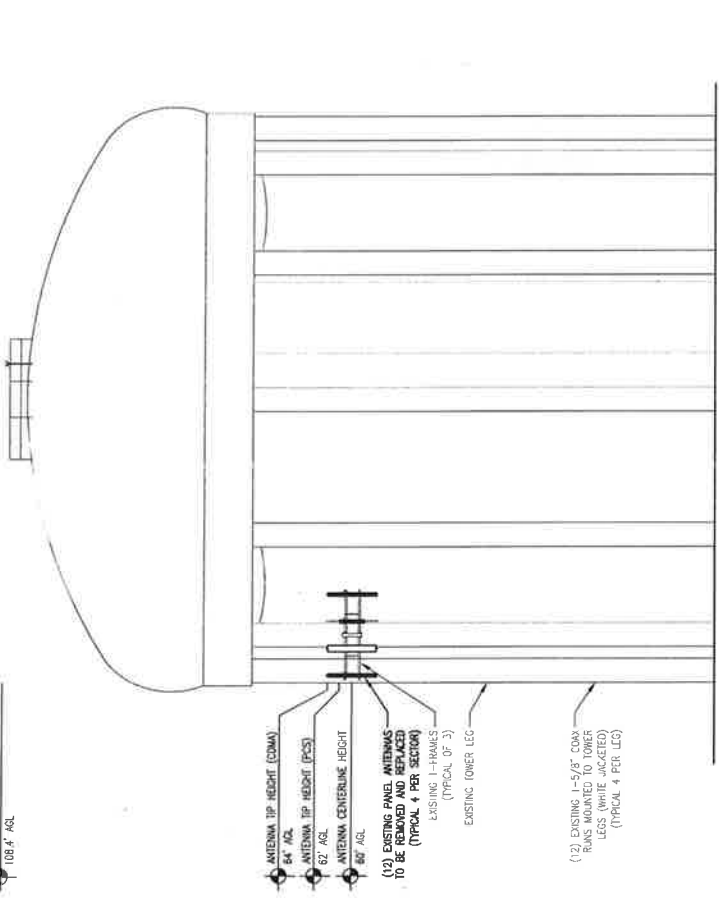
SHEET CONTENTS:
TOWER ELEVATIONS

DESIGNED BY:	JLB
DATE:	07-14-14
CHECKED BY:	JLR
REV. A:	08-04-14
REV. B:	09-15-14
REV. C:	12-31-14

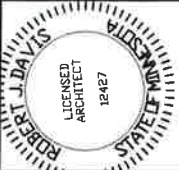
A-1



1 PROPOSED TOWER ELEVATION
SCALE: 1" = 20'-0"



2 EXISTING TOWER ELEVATION
SCALE: 1" = 20'-0"



I hereby certify that the plan, specifications, and other documents herein were prepared by me or under my direct supervision and that I am a duly-licensed professional engineer in the State of Minnesota.

Date: 12-11-14

Professional Engineer
 State of Minnesota
 License No. 12427

DESIGN

ROBERT J. DAVIS, AIA
 8970 VALLEY VIEW RD
 EDEN PRAIRIE, MN 55344
 (953) 405-9299

VERIZON WIRELESS
 1800 BUSH LANE, SUITE 200
 BLOOMINGTON, MN 55425
 (612) 724-0202

PROJECT: 20141085153

MINC
 KILT
 AWS

750 SNEILING AVE. S.
 ST. PAUL, MN 55116

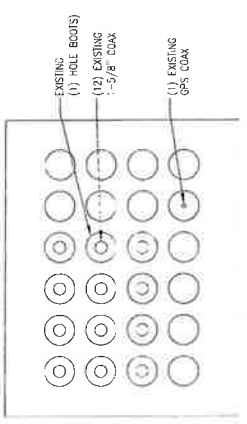
SHEET CONTENTS:
 EQUIPMENT ROOM PLAN
 COAX ENTRY DETAILS
 SPECIFICATIONS
 MISC. PHOTOS

DRAWN BY:	JMB
DATE:	07-14-14
CHECKED BY:	LJR
REV. A:	08-04-14
REV. B:	09-15-14
REV. C:	12-11-14

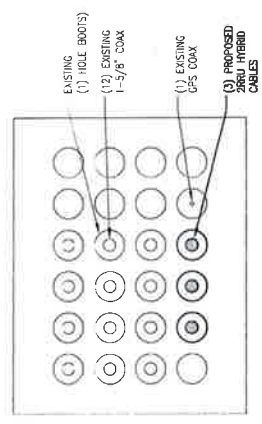
A-2



4 PHOTO-DISTRIBUTION BOX LOCATION
 SCALE: NONE

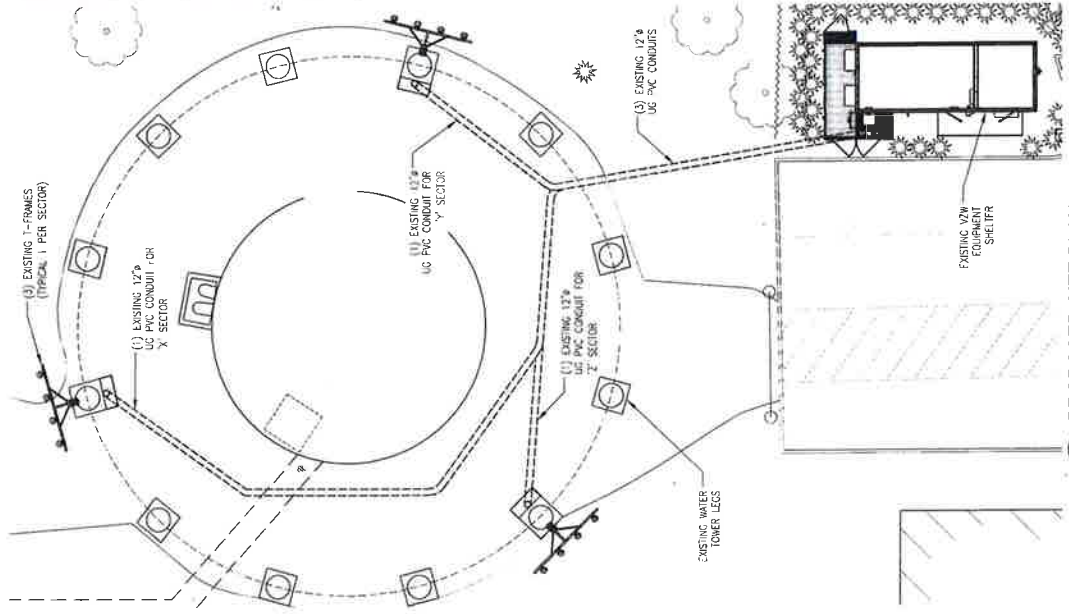


3 EXISTING COAX ENTRY DETAIL
 VIEW FROM OUTSIDE

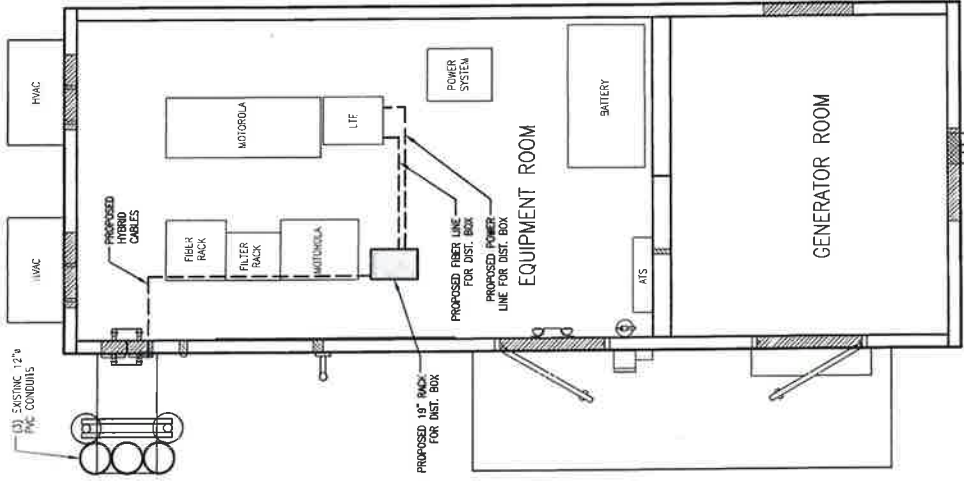


2 PROPOSED COAX ENTRY DETAIL
 VIEW FROM OUTSIDE

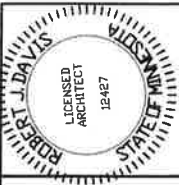
08 SPOD PAINTING
 Identify paint construction related scopes & structures. The antennas, mounting pipes, RRUs, Sector Boxes, & Distribution box to be "primed and shop painted", and all other exposed items shall be primed and painted to manufacturer's finish of lower per S.E.P., coating specifications.



6 PROPOSED SITE PLAN
 SCALE: 1"=20'-0"



1 EQUIPMENT ROOM PLAN
 SCALE: 1/4" = 1'-0"



I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Print Name: ROBERT J. DAVIS

Robert J. Davis

Date: 12-11-14

DESIGN

ROBERT J. DAVIS, AIA
 8500 VALLEY VIEW RD.
 Eagan, MN 55124
 (651) 950-9299

VERIZON WIRELESS

1000 BUSH LAKE ROAD
 BLOOMINGTON, MN 55438
 (612) 720-2000

PROJECT
 20141085153

**MINC
 KILT
 AWS**

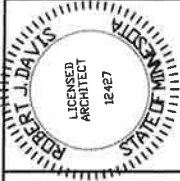
750 SNELLING AVE. S.
 ST. PAUL, MN 55116

SHEET CONTENTS:
 COAX, ANTENNA, & TTA KEY

DRAWN BY:	JAB
DATE:	07-14-14
CHECKED BY:	JLR
REV. A:	08-04-14
REV. B:	09-15-14
REV. C:	12-11-14

A-3

EXISTING ANTENNA KEY										EXISTING COAX KEY										EXISTING TTA KEY									
AZIMUTH	POSITION	FUNCTION	QTY	MANUFACTURER	MODEL	MOD TYPE	LENGTH	IP	ANTENNA CENTER	ELEC CENTER	MECH DOWNHILL	STATUS	COAX TYPE	MANUFACTURER	MODEL	DIAMETER (INCH)	RUN (FEET)	STATUS	QTY	MODEL	STATUS	QTY	MODEL	STATUS					
344	1	TX/RX	1	ANTEL	LFP-7905-8	COAX	94.5	64	60	60	0	2	REMOVE	ANDREW	AWT-50	FWM	1-5/8	250	REMAN										
344	2	TX/RX	1	CSS	LIE +45	LIE	94	64	60	60	0	7	REMOVE	ANDREW	AWT-50	FWM	1-5/8	250	REMAN										
344	1	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	REMAN										
344	1	TX/RX	1	CSS	AP16-48-20	PCS	45	47.1	60	60	0	0	REMOVE	CSS	DBE-750	DISP LEXED WITH COAX			REMAN										
344	2	TX/RX	1		2ND PORT									CSS	DBE-750	DISP LEXED WITH COAX			REMAN										
344	1	TX/RX	1	ANTEL	LFP-7905-8	COAX	94.5	64	60	60	0	2	REMOVE	ANDREW	AWT-50	FWM	1-5/8	250	REMAN										
104	1	TX/RX	1	ANTEL	LFP-7905-8	COAX	94.5	64	60	60	0	2	REMOVE	ANDREW	AWT-50	FWM	1-5/8	250	REMAN										
104	2	TX/RX	1	CSS	LIE +45	LIE	94	64	60	60	0	7	REMOVE	ANDREW	AWT-50	FWM	1-5/8	250	REMAN										
104	3	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	REMAN										
104	4	TX/RX	1	CSS	AP16-48-20	PCS	45	47.1	60	60	0	0	REMOVE	CSS	DBE-750	DISP LEXED WITH COAX			REMAN										
104	5	TX/RX	1		2ND PORT									CSS	DBE-750	DISP LEXED WITH COAX			REMAN										
224	1	TX/RX	1	ANTEL	LFP-7905-8	COAX	94.5	64	60	60	0	2	REMOVE	ANDREW	AWT-50	FWM	1-5/8	250	REMAN										
224	2	TX/RX	1	CSS	LIE +45	LIE	94	64	60	60	0	7	REMOVE	ANDREW	AWT-50	FWM	1-5/8	250	REMAN										
224	3	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	REMAN										
224	4	TX/RX	1	CSS	AP16-48-20	PCS	45	47.1	60	60	0	0	REMOVE	CSS	DBE-750	DISP LEXED WITH COAX			REMAN										
224	5	TX/RX	1		2ND PORT									CSS	DBE-750	DISP LEXED WITH COAX			REMAN										
224	6	TX/RX	1	ANTEL	LFP-7905-8	COAX	94.5	64	60	60	0	2	REMOVE	ANDREW	AWT-50	FWM	1-5/8	250	REMAN										
PROPOSED ANTENNA KEY																													
AZIMUTH	POSITION	FUNCTION	QTY	MANUFACTURER	MODEL	MOD TYPE	LENGTH	IP	ANTENNA CENTER	ELEC CENTER	MECH DOWNHILL	STATUS	COAX TYPE	MANUFACTURER	MODEL	DIAMETER (INCH)	RUN (FEET)	STATUS	QTY	MODEL	STATUS	QTY	MODEL	STATUS					
344	1.1	TX/RX	1	COMSCOPE	LUN-651505-A1M	COAX	44.5	98.4	64	60	5	PROPOSED	SPRIFLEX	DBE-750	DISP LEXED WITH 1800	1-5/8	350	EXISTING											
344	1.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
344	2.1	TX/RX	1	CSS	AP16-48-20	PCS	45	50.5	60	60	5	PROPOSED	ROSS	R8US-12	ROSSBENDER N4-720015	1-5/8	250	EXISTING											
344	2.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
344	3.1	TX/RX	1	CSS	AP16-48-20	PCS	45	50.5	60	60	5	PROPOSED	ROSS	R8US-12	ROSSBENDER N4-720015	1-5/8	250	EXISTING											
344	3.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
104	4.1	TX/RX	1	COMSCOPE	LUN-651505-A1M	LIE	45	98.4	64	60	5	PROPOSED	SPRIFLEX	DBE-750	DISP LEXED WITH 1800	1-5/8	350	EXISTING											
104	4.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
104	5.1	TX/RX	1	COMSCOPE	LUN-651505-A1M	COAX	44.5	98.4	64	60	5	PROPOSED	SPRIFLEX	DBE-750	DISP LEXED WITH 1800	1-5/8	350	EXISTING											
104	5.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
104	6.1	TX/RX	1	CSS	AP16-48-20	PCS	45	50.5	60	60	5	PROPOSED	ROSS	R8US-12	ROSSBENDER N4-720015	1-5/8	250	EXISTING											
104	6.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
104	7.1	TX/RX	1	COMSCOPE	LUN-651505-A1M	LIE	45	98.4	64	60	5	PROPOSED	SPRIFLEX	DBE-750	DISP LEXED WITH 1800	1-5/8	350	EXISTING											
104	7.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
104	8.1	TX/RX	1	CSS	AP16-48-20	PCS	45	50.5	60	60	5	PROPOSED	ROSS	R8US-12	ROSSBENDER N4-720015	1-5/8	250	EXISTING											
104	8.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
104	9.1	TX/RX	1	COMSCOPE	LUN-651505-A1M	LIE	45	98.4	64	60	5	PROPOSED	SPRIFLEX	DBE-750	DISP LEXED WITH 1800	1-5/8	350	EXISTING											
104	9.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
224	10.1	TX/RX	1	COMSCOPE	LUN-651505-A1M	LIE	45	98.4	64	60	5	PROPOSED	SPRIFLEX	DBE-750	DISP LEXED WITH 1800	1-5/8	350	EXISTING											
224	10.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
224	11.1	TX/RX	1	COMSCOPE	LUN-651505-A1M	COAX	44.5	98.4	64	60	5	PROPOSED	SPRIFLEX	DBE-750	DISP LEXED WITH 1800	1-5/8	350	EXISTING											
224	11.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
224	12.1	TX/RX	1	CSS	AP16-48-20	PCS	45	50.5	60	60	5	PROPOSED	ROSS	R8US-12	ROSSBENDER N4-720015	1-5/8	250	EXISTING											
224	12.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
224	13.1	TX/RX	1	COMSCOPE	LUN-651505-A1M	LIE	45	98.4	64	60	5	PROPOSED	SPRIFLEX	DBE-750	DISP LEXED WITH 1800	1-5/8	350	EXISTING											
224	13.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
224	14.1	TX/RX	1	COMSCOPE	LUN-651505-A1M	LIE	45	98.4	64	60	5	PROPOSED	SPRIFLEX	DBE-750	DISP LEXED WITH 1800	1-5/8	350	EXISTING											
224	14.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
224	15.1	TX/RX	1	COMSCOPE	LUN-651505-A1M	COAX	44.5	98.4	64	60	5	PROPOSED	SPRIFLEX	DBE-750	DISP LEXED WITH 1800	1-5/8	350	EXISTING											
224	15.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
224	16.1	TX/RX	1	CSS	AP16-48-20	PCS	45	50.5	60	60	5	PROPOSED	ROSS	R8US-12	ROSSBENDER N4-720015	1-5/8	250	EXISTING											
224	16.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
224	17.1	TX/RX	1	COMSCOPE	LUN-651505-A1M	LIE	45	98.4	64	60	5	PROPOSED	SPRIFLEX	DBE-750	DISP LEXED WITH 1800	1-5/8	350	EXISTING											
224	17.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
224	18.1	TX/RX	1	COMSCOPE	LUN-651505-A1M	LIE	45	98.4	64	60	5	PROPOSED	SPRIFLEX	DBE-750	DISP LEXED WITH 1800	1-5/8	350	EXISTING											
224	18.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
224	19.1	TX/RX	1	CSS	AP16-48-20	PCS	45	50.5	60	60	5	PROPOSED	ROSS	R8US-12	ROSSBENDER N4-720015	1-5/8	250	EXISTING											
224	19.2	TX/RX	1		2ND PORT									ANDREW	AWT-50	FWM	1-5/8	250	EXISTING										
224	20.1	TX/RX	1	COMSCOPE	LUN-651505-A1M	LIE	45	98.4	64	60	5	PROPOSED	SPRIFLEX	DBE-750	DISP LEXED WITH 1800	1-5/8	350	EXISTING											
224	20.2	TX/RX	1		2ND PORT																								



I hereby certify that the date, time, place, and site of the above described work are as shown on the drawings and specifications, and that I am a duly Licensed Architect in the State of Minnesota.

Print Name: ROBERT J. DAVIS

State: MN 12427

Robert J. Davis



ROBERT J. DAVIS, AIA
 8973 VALLEY VIEW RD.
 EDEN PRAMBE MN 55244
 (952) 349-9488

VERIZON WIRELESS

10000 WISCONSIN
 BLDG. 10000
 ST. PAUL, MN 55116

PROJECT
 20141085153

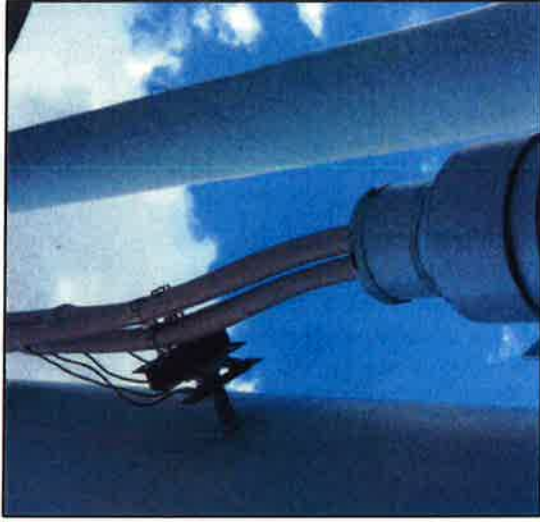
MINC
 KILT
 AWS

750 SNELLING AVE. S.
 ST. PAUL, MN 55116

SHEET CONTENTS:
 MSC PHOTOS

DRAWN BY:	JDB
DATE:	07-14-14
CHECKED BY:	TJR
REV. A:	08-04-14
REV. B:	09-15-14
REV. C:	12-11-14

A-5



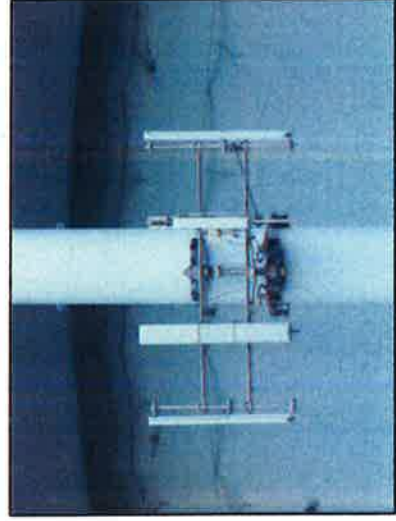
2 TOWER COAX PHOTO
 SCALE: NONE



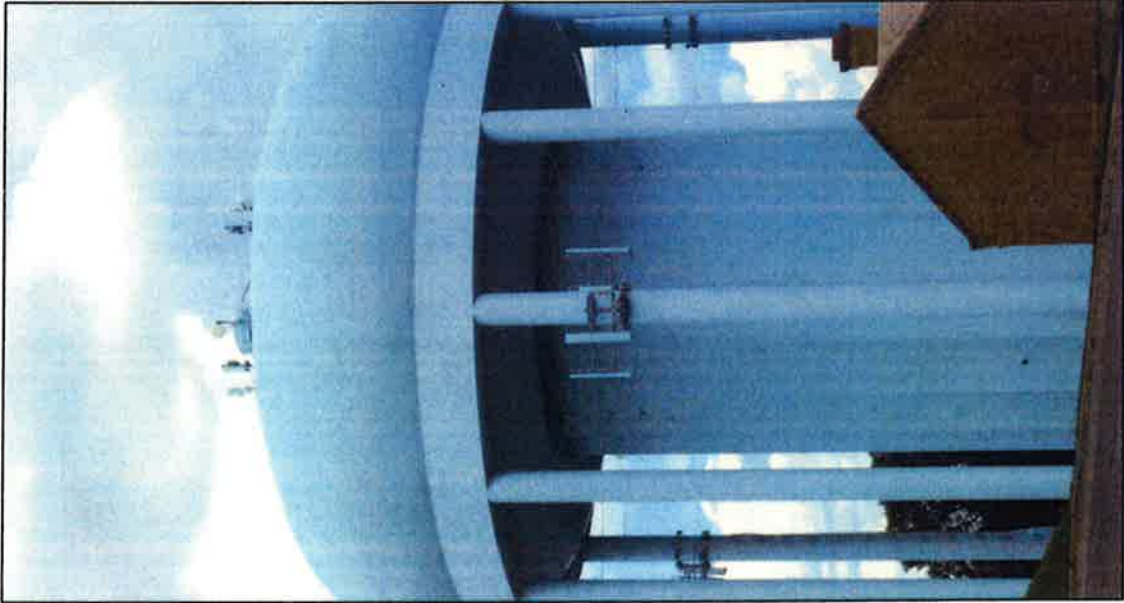
1 CONDUIT AT SHELTER PHOTO
 SCALE: NONE



3 SHELTER COAX ENTRY
 SCALE: NONE



5 ANTENNA MOUNT PHOTO
 SCALE: NONE



4 OVERALL TOWER PHOTO
 SCALE: NONE

EXHIBIT "B-1"

VERIZON WIRELESS
750 Snelling Avenue South
Saint Paul, MN 55116

Antenna Facilities and Frequencies

1. Shelter and Shelter Components

Shelter: 18'x38' leased area.

Power plant (DC current): (4) breaker spaces for -48 DC

Battery supply back up: (8) Nortell dual pole batteries

T-1 switch equipment: Quest Fiber D-Mark in Hoffman

Commercial switch gear: (1) Square D Metter Disconnect

Radio transmitters: (3) Nokia RF Cabinets

Air conditioner: (2) Wall Mounted Bard HVAC units

2. Generators

Quantity: 1

Manufacturer: MTU Onsite Energy

Model: VER50DJC6DT3

Dimensions: 82 x 34 x 50 in

3. Antennas

Quantity: Twelve (12) Total; (4) per Sector

Type: Manufacturer: Commscope & CSS

Azimuths: 344 degrees@ X Sector 104 degrees@ Y Sector 224 degrees@ Z Sector

Model: (6) Commscope LNX-6515DS-A1M, (6) CSS Antenna QAP-460-VR0 antennas

Dimensions: 96.3" x 11.9" x 7.1" , 50.5" x 12.5" x 7.1".

Weight: 63 lbs. ea. 24.5 lbs. ea.

Mount Type: Pipe

Centerline of the antennas: 60 feet AGL

4. Coax Cable

Number of Lines: (12) Total; (4) per Sector

Type: ANDREW AVA7W-50

Size: (6) 7/8" and (6) 1-5/8"

5. Tower Mounted Amplifiers (TMAs)

Quantity: Six (6) Total; (2) per Sector

Manufacturer: Cleargain

Model: ADC DD 1900

Dimensions: 13.11" x 9.84" x 3.30"

Weight: 13.9 lbs. ea.

Mounting: Pipe

6. Diplexers/Duplexers

Quantity: Six (6) Total; (2) per Sector
Manufacturer: CSS
Model: DBC750
Dimensions: 7.85 x 6.63 x 1.25
Weight: 4.88 lbs. ea.
Mounting: Pipe

7. Remote Radio Heads (RRHs)

Quantity: (3) Total; (1) per Sector
Manufacturer: Ericsson
Model: RRU12
Dimensions: 20.89" x 18.50 "x 7.36"
Weight: 58 lbs. ea.
Mounting: Pipe
Hybrid Jumper: Rosenberger HJ-712-009 From Sector Distribution Box to RRH.

8. Distribution Box

Quantity: Two (2) Total; (1) Shelter and (1) X Sector
Manufacturer: Raycap
Model: RXDC 3315 PF 48
Dimensions: 23.7" x 13.56" x 8.15"
Weight: 26.9 lbs. ea.

9. Sector Box

Quantity: Two (2) Total; (1) Y Sector and (1) Z
Manufacturer: Raycap
Model: RXXDC 1064 PF 48
Dimensions: 15.9" x 8.15" x 10.15"
Weight: 12.1 lbs.. ea.

10. Hybrid Cable

Type Hybrid: Rosenberger White Hybrid
Number of Lines: Three (3) Total
-From Shelter Box to Main Distribution Box at X Sector Cable HBW-6307-250
-From Main Distribution Box to Y Sector Cable Model HFW-4791-050
-From Main Distribution Box to Z Sector Model HFW-4791-040

11. Frequencies

Svc	Technology	EIRP (WATTS)	Frequencies				
			Standard Frequency	Transmit		Receive	
				Start	Stop	Start	Stop
1	CDMA	500		800	894	835	849
2	LTE	1000		746	757	776	787
3	PCS-EVDO (D and F band)	1000		1945, 1970	1950, 1975	1865, 1890	1870, 1895
4	AWS	1000		2110	2130	1710	1730

12. Proposed Scope of Work

Replace: (12) Existing antennas

Add: (3) TMAs
 (3) RRHs
 (1) Distribution Box
 (3) Sector boxes
 (3) Hybrid cables

