

AMENDMENT NO. 2 TO SITE LEASE AGREEMENT

This Amendment No. 2 to SITE LEASE AGREEMENT (this "**Amendment**"), effective as of the date last signed below ("**Effective Date**"), amends a certain SITE LEASE AGREEMENT between SPRINT SPECTRUM LP, predecessor-in-interest to SPRINT SPECTRUM REALTY COMPANY, LP, a Delaware limited partnership, ("**SSLP**") and BOARD OF WATER COMMISSIONERS OF THE CITY OF SAINT PAUL ("**Lessor**"), dated September 19, 1996, as supplemented to by that certain Lease Supplement No. 1 dated September 30, 1996, as amended by that certain AMENDMENT 1 TO LEASE AGREEMENT dated March 10, 1998 (collectively, the "**Agreement**").

BACKGROUND

WHEREAS, SSLP desires to modify its installation on the Leased Premises by adding or swapping out antennas and other equipment to the Antenna Facilities, as more particularly described in Exhibit B-1 annexed hereto, and SSLP and Lessor desire to modify the provisions of the Agreement as provided below.

AGREEMENT

For good and valuable consideration the receipt and sufficiency of which are acknowledged, Lessor and SSLP agree as follows:

1. **Modification to the Antenna Facilities.** The Site Plan in Exhibit A and Exhibit B to the Agreement are hereby amended to include the modifications identified on Exhibit B-1, a copy of which is attached and made a part hereof. Exhibit B-1 supplements the Exhibit A Site Plan and Exhibit B to the Agreement, and shall not be deemed to supersede or otherwise modify the Exhibit A Site Plan and Exhibit B or any part thereof except to the extent specifically set forth in Exhibit B-1. Upon full execution of this Amendment, SSLP is permitted to do all work necessary to prepare, maintain and alter the Leased Premises to install or otherwise modify the Antenna Facilities, all as more fully described and contemplated in Exhibit B-1.

2. **Term.** Section 2 (b) and Section 2(c) of the Agreement are hereby deleted in their entirety and replaced with the following:

(b) SSLP shall have the right to extend this Lease for six (6) additional five-year renewal terms (each a Renewal Term) subject to (c) below;

(c) The Lease shall automatically be renewed for each successive renewal term unless (i) SSLP provides Lessor with written notice of its intention not to renew sixty (60) days prior to the expiration of any Renewal Term, or (ii) SSLP is in default of any of the terms or conditions of the Lease.

3. **Frequency Use.** Provided that any frequencies used by SSLP will not cause interference with the properly licensed and permitted pre-existing frequencies in use or in operation at the Antenna Facilities and notwithstanding anything to the contrary contained herein, SSLP may operate the Antenna Facilities according to Exhibit B-1.

4. **Modification to Rent.** As additional consideration for the modification and other rights set forth in this Amendment, on February 1, 2013, the annual rent will be increased by \$4,000.00, resulting in a revised total annual rent of \$38,581.24 for 2013. The foregoing revised total annual rent amount includes the annual escalation of 5% for the year 2013, as set forth in Section 3(b) of the Agreement.

5. **Notice Address.** The notice addresses in Section 15 of the Agreement or referenced therein for the party or parties listed below are hereby deleted in their entirety and replaced with the following:

To Lessor: Board of Water Commissioners of the City of Saint Paul
ATTN: Engineering Division
1900 Rice Street, Office Building
St. Paul, MN 55113

To SSLP: Sprint/Nextel Property Services
Sprint Site ID: MS03XC105
Mailstop KSOPHT0101-Z2650
6391 Sprint Parkway
Overland Park, Kansas 66251-2650

With a mandatory copy to: Sprint/Nextel Law Department
Sprint Site ID: MS03XC105
Mailstop KSOPHT0101-Z2020
6391 Sprint Parkway
Overland Park, Kansas 66251-2020
Attn.: Real Estate Attorney

6. **General Terms and Conditions.**

- a. All capitalized terms used in this Amendment, unless otherwise defined herein, will have the same meaning as the terms contained in the Agreement.
- b. In case of any inconsistencies between the terms and conditions contained in the Agreement and the terms and conditions contained in this Amendment, the terms and conditions herein will control. Except as set forth herein, all provisions of the Agreement are ratified and remain unchanged and in full force and effect.
- c. This Amendment may be executed in duplicate counterparts, each of which will be deemed an original.
- d. Each of the parties represents and warrants that it has the right, power, legal capacity and authority to enter into and perform its respective obligations under this Amendment.

SIGNATURES ON FOLLOWING PAGE

The parties have executed this Amendment No. 2 as of the Effective Date.

For Lessor:

Approved:

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

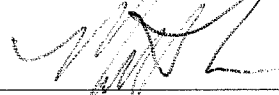
Date: _____

Approved as to form:

By _____
Assistant City Attorney

Date: _____

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

By  _____
Matt Anfang, President

Date: 1-8-13

By _____
Mollie Gagnelius, Secretary

Date: _____

CITY OF SAINT PAUL

By _____
Paul Williams, Deputy Mayor

Date: _____

By _____
Shari Moore, City Clerk

Date: _____

By _____
Todd Hurley, Director
Office of Financial Services

Date: _____

For SSLP:

**SPRINT SPECTRUM REALTY COMPANY, L.P.,
a Delaware limited partnership**

By: _____

Printed name: _____

Title: _____

Date: _____

Exhibit B-1
[see attached]

Sprint



SITE NAME: FRIDLEY SURGE TOWER
SITE NUMBER: MS03XC105
SITE ADDRESS: 7504 75TH WAY
 FRIDLEY, MN 55432
SITE TYPE: EXISTING 90' WATER TOWER



PROJECT NO:	172862
EDGE PROJECT NO:	6767
DRAWN BY:	DGS
CHECKED BY:	OSD

REV.	DATE	DESCRIPTION
B	09/17/12	BOARD FOR CD 1001
A	05/14/12	ISSUED FOR CD009

PRELIMINARY - FOR REVIEW AND APPROVAL

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE AUTHORITY OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THE DOCUMENT.

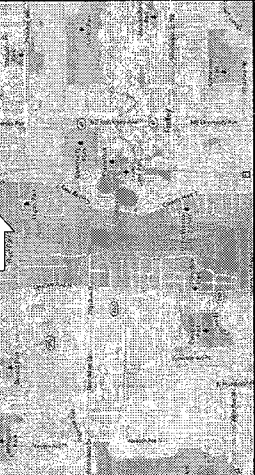
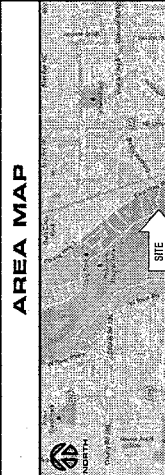
MS03XC105
 FRIDLEY SURGE TOWER
 7504 75TH WAY
 FRIDLEY, MN 55432

SHEET TITLE
TITLE SHEET & PROJECT DATA

SHEET NUMBER
T-1

© EDGE CONSULTING ENGINEERS, INC.

APPLICABLE CODES	APPLICABLE CODES	APPLICABLE CODES	APPLICABLE CODES
NO:	PROJECT DESCRIPTION	STRUCTURAL ANALYSIS	ENGINEER OF RECORD
S1	TITLE SHEET & PROJECT DATA	FROM MINNEAPOLIS-SAINT PAUL INTERNATIONAL AIRPORT (MSIP): 7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)	EDGE CONSULTING ENGINEERS, INC. 1000 WISCONSIN ST PHILDELPHIA, PA 19107 PHONE: 486.644.1499
G01	ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES: - IRC 2004 (2007 MINNESOTA STATE BUILDING CODE) - 2009 MINNESOTA PLUMBING CODE - IMC 2009 WITH AMENDMENTS - NEC 2009 ELECTRICAL CODE IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL	COMPLETED BY EDGE CONSULTING ENGINEERS, INC. DATE: 04/10/2012	DRIVING DIRECTIONS FROM NEAREST MAJOR AIRPORT
G02	REMOVE EXISTING CABINETS AND ANTENNAS	1. Head SOUTHWEST on Chiswick Oaks (go 0.0 mi) 2. Keep LEFT at the fork and merge onto I-94E (go 0.8 mi) 3. Take exit MN-55W/MN-55E toward Minneapolis 4. Turn LEFT onto I-94E (go 0.4 mi) 5. Continue onto MN-55W (go 0.6 mi) 6. Take the Interstate 35W N exit (go 0.2 mi)	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G03	INSTALL (1) MMB-BBU CABINET IN EXISTING LEASE SPACE	INSTALL (1) GROUND MOUNTED GRS ANTENNA	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G04	INSTALL (1) MMB-BATTERY CABINET IN EXISTING LEASE SPACE	INSTALL (1) BURIED CONDUIT TO TOWER	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G05	INSTALL (3) PANEL ANTENNAS	INSTALL (6) COAXIAL JUMPERS PER SECTOR (TOTAL OF 18)	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G06	INSTALL (6) RRUS TO TOWER	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G07	INSTALL (1) GROUND MOUNTED GRS ANTENNA	INSTALL (3) HYBRID CABLES	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G08	INSTALL (1) BURIED CONDUIT TO TOWER	INSTALL (3) RET CABLES	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G09	INSTALL (3) COAXIAL JUMPERS PER SECTOR (TOTAL OF 18)	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G10	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	INSTALL (3) HYBRID CABLES	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G11	INSTALL (3) HYBRID CABLES	INSTALL (3) RET CABLES	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G12	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G13	INSTALL (3) HYBRID CABLES	INSTALL (3) RET CABLES	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G14	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G15	INSTALL (3) HYBRID CABLES	INSTALL (3) RET CABLES	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G16	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G17	INSTALL (3) HYBRID CABLES	INSTALL (3) RET CABLES	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G18	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G19	INSTALL (3) HYBRID CABLES	INSTALL (3) RET CABLES	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G20	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
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G24	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
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G26	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
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G28	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G29	INSTALL (3) HYBRID CABLES	INSTALL (3) RET CABLES	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)
G30	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	INSTALL FIBER AND AAY (NID) EQUIPMENT AT CELL SITE	7. Merge onto 35W N (go 0.4 mi) 8. Take exit 16A W toward Downtown/VAW (go 0.1 mi) 9. Take ramp onto Interstate 94 W/VAW (go 0.3 mi) 10. Take exit 226 to merge onto I-94E (go 0.4 mi) 11. Turn LEFT onto I-94E (go 0.4 mi) 12. Turn RIGHT onto E River Rd (go 2.6 mi) 13. Turn LEFT onto Mississippi River Regional Trail/Osborne Way NE (go 0.2 mi)



SITE INFORMATION

SITE ADDRESS:
7504 75TH WAY
FRIDLEY, MN 55432

PROPERTY/TOWER OWNER:
Sprint
8 FOURTH STREET EAST
RICHARDSON, TX 75080-1107

EQUIPMENT SUPPLIER:
SAMSUNG TELECOMMUNICATIONS AMERICA (SFA)
1000 WISCONSIN ST
PHILADELPHIA, PA 19107

FIBER PROVIDER:
AAV - COMCAST
DONOR - N/A

POWER COMPANY:
ACE ENERGY

TELCO COMPANY:
CWST

COUNTY:
HENRI COUNTY

ZONING JURISDICTION:
CITY OF FRIDLEY

ZONING DISTRICT:
P - PUBLIC FACILITIES

LATITUDE (NAD83):
45° 0' 12.57" N

LONGITUDE (NAD83):
94° 10' 27.17" W

ENGINEERING COMPANY:
EDGE CONSULTING ENGINEERS, INC.
1000 WISCONSIN STREET
PHILADELPHIA, PA 19107
PHONE: 486.644.1499



Exhibit B-1



645 BRIVE BARRWAY
OVERLAND PARK, KANSAS 66151



PROJECT NO: 172862
EDGE PROJECT NO: 6767
DRAWN BY: DGS
CHECKED BY: OSD

REV.	DATE	DESCRIPTION
B	09/17/12	ISSUED FOR CONSTRUCTION
A	05/14/12	ISSUED FOR CONSTRUCTION

PRELIMINARY - FOR
REVIEW AND APPROVAL

IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE
AUTHORITY OF A LICENSED PROFESSIONAL
ENGINEER, TO ALTER THIS DOCUMENT.

M5333VC105
FRIDLEY SURGE TOWER
7504 75TH WAY
FRIDLEY, MN 55432

SHEET TITLE
OVERALL FIBER
PLAN

SHEET NUMBER
F-1

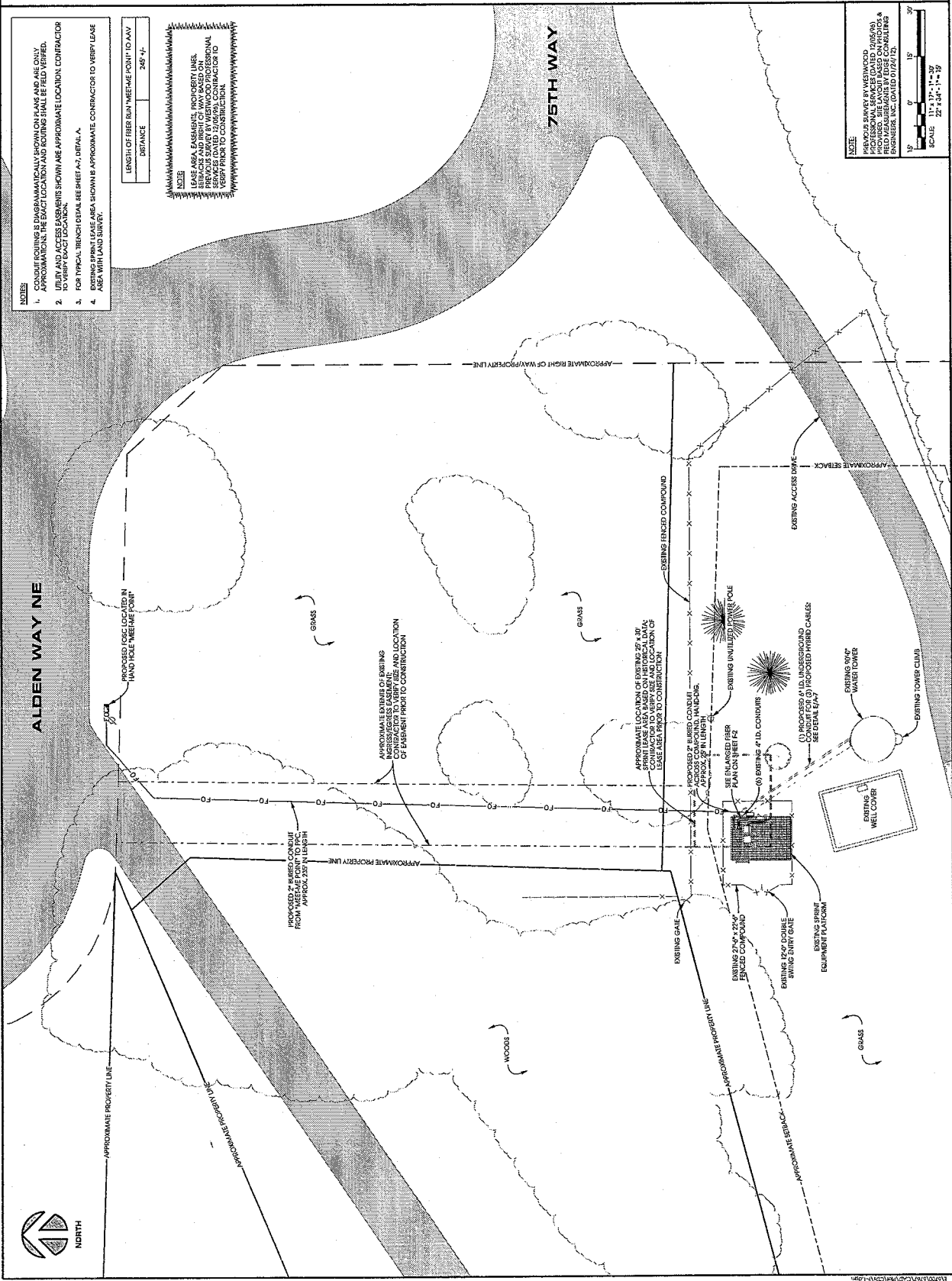
© EDGE CONSULTING ENGINEERS, INC.

- NOTES**
- CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ON PLANS AND ARE ONLY APPROXIMATIONS. THE EXACT LOCATION AND ROUTING SHALL BE FIELD VERIFIED.
 - TO VIEW ALL EXISTING UTILITIES AND EASMENTS SHOW ARE APPROXIMATE LOCATION. CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND EASMENTS IN THE FIELD.
 - FOR TYPICAL TRENCH DETAILS SEE SHEET A7, DETAIL A.
 - EXISTING FENCE LOCATED IN HAND TOILET AREA SHOWS APPROXIMATE CONTRACTOR TO VERIFY LEASE AREA WITH LAND SURVEY.

LENGTH OF FIBER RUN IN METERS POSITIVE TO ANY DISTANCE

LENGTH	DISTANCE
248'-4"	

NOTE
LEASE AREA, EASMENTS, PROPERTY LINES, PREVIOUS SURVEY BY WESTWOOD PROFESSIONAL SERVICES, LTD. TO DETERMINE LOCATION OF EXISTING UTILITIES AND EASMENTS.



SCALE
1" = 100'
11" x 17" - 11" x 17"
SCALE: 22' x 34" - 11" x 17"

NOTE
PREVIOUS SURVEY BY WESTWOOD PROFESSIONAL SERVICES, LTD. TO DETERMINE LOCATION OF EXISTING UTILITIES AND EASMENTS. CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND EASMENTS IN THE FIELD.

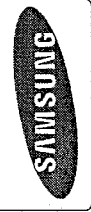


NORTH

M:\2012\172862\FIBER\CD\FIBER.FXD



4500 SPRINT PARKWAY
OVERLAND PARK, KANSAS 66207



PROJECT NO: 172852
EDGE PROJECT NO: 0787
DRAWN BY: DGS
CHECKED BY: OGD

REV.	DATE	DESCRIPTION
B	07/17/12	ISSUED FOR CD 104
A	05/14/12	ISSUED FOR CD 099

PRELIMINARY - FOR
REVIEW AND APPROVAL

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MS03XC105
FRIDLEY SURGE TOWER
7504 75TH WAY
FRIDLEY, MN 55432

SHEET TITLE
**OVERALL FIBER
PLAN**

SHEET NUMBER
A-1

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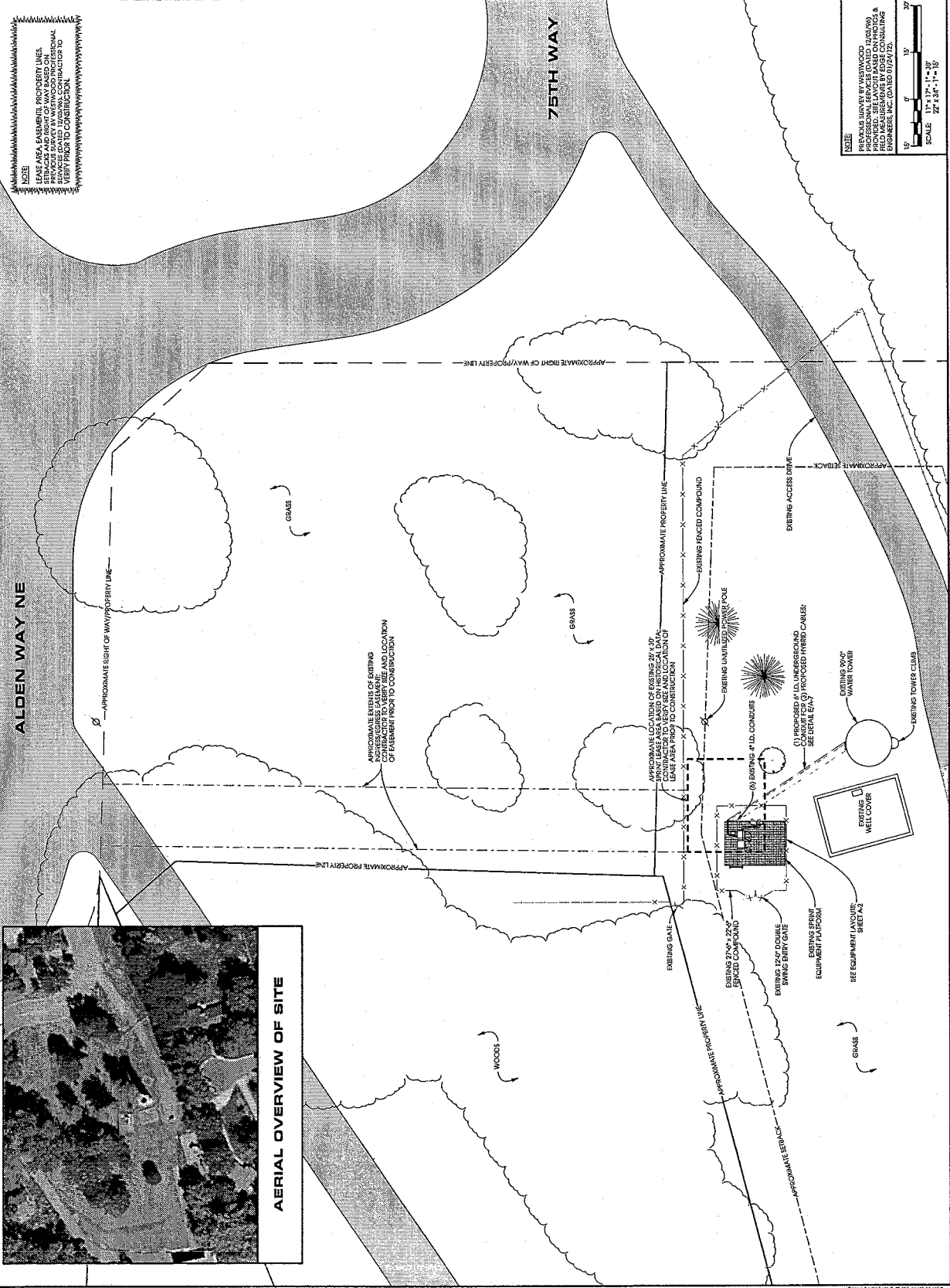
NOTE
LEASE AREA EASEMENTS, PROPERTY LINES,
EXISTING UTILITIES, AND SURVEY DATA
SHOWN ON THIS PLAN ARE FOR INFORMATIONAL
PURPOSES ONLY. THE USER SHALL VERIFY
THE ACCURACY OF ALL INFORMATION
BEFORE USING IT FOR ANY PURPOSE.

ALDEN WAY NE

75TH WAY



AERIAL OVERVIEW OF SITE



SCALE
1" = 10'
1/4" = 25'
1/8" = 31.25'
1/16" = 62.5'

DATE: 07/17/12
DRAWN BY: DGS
CHECKED BY: OGD



PROJECT NO:	172862
EDGE PROJECT NO:	0787
DRAWN BY:	DGS
CHECKED BY:	OGD

REV.	DATE	DESCRIPTION
B	07/17/12	ISSUED FOR CD 100
A	05/14/12	ISSUED FOR CD 009

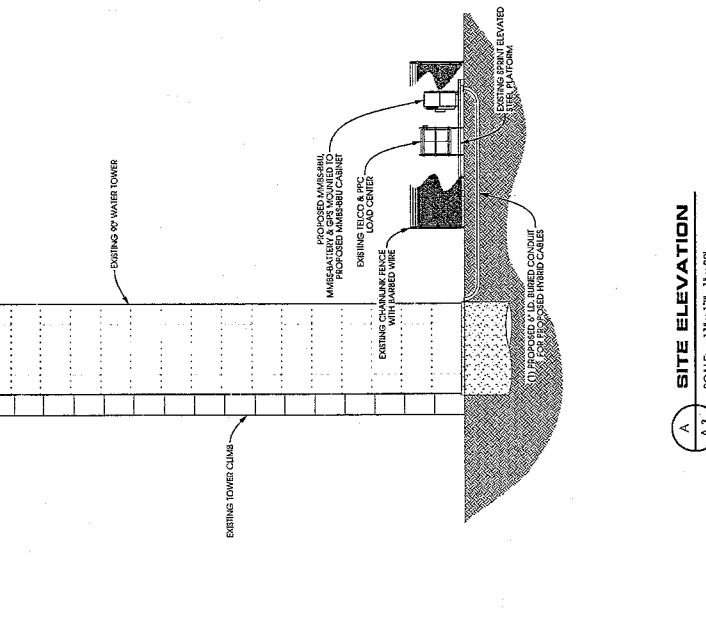
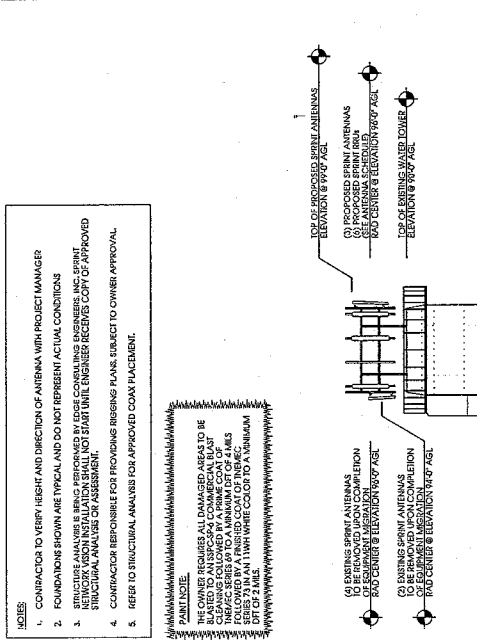
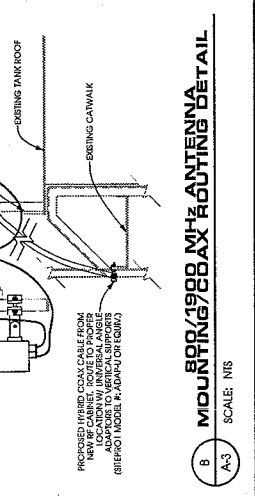
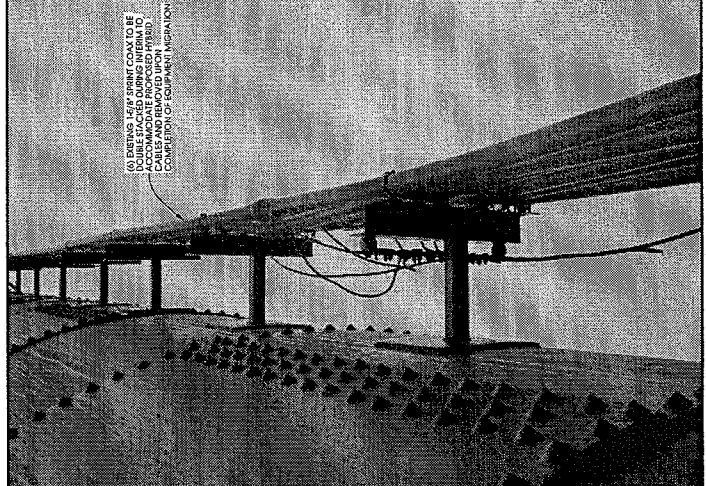
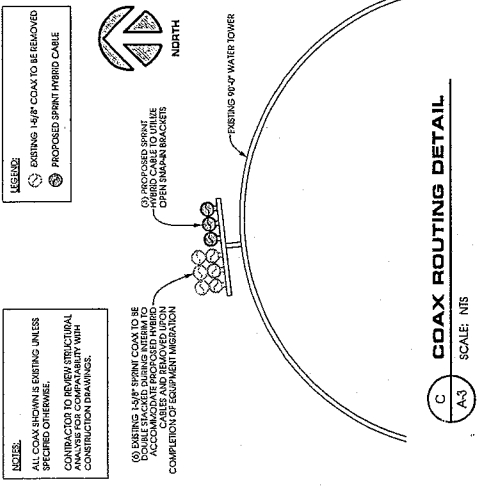
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MSGX3C105
FRIDLEY SURGE TOWER
7504 75TH WAY
FRIDLEY, MN 55432

SHEET TITLE
TOWER ELEVATION & COAX DETAILS

SHEET NUMBER
A-3



- NOTES:**
- CONTRACTOR TO VERIFY HEIGHT AND DIRECTION OF ANTENNA WITH PROJECT MANAGER
 - FOUNDATIONS SHOWN ARE TYPICAL AND DO NOT REPRESENT ACTUAL CONDITIONS
 - STRUCTURE ANALYSES ARE BEING PERFORMED BY EDGE CONSULTING ENGINEERS, INC. SPRINT NETWORK VISION INSTALLATION SHALL NOT START UNTIL ENGINEER RECEIVES COPY OF APPROVED ANALYSES FROM SPRINT
 - CONTRACTOR RESPONSIBLE FOR PROVIDING MISSING PLANS, SUBJECT TO OWNER APPROVAL
 - REFER TO STRUCTURAL ANALYSIS FOR APPROVED COAX PLACEMENT

MAINTENANCE:
THE OWNER REQUIRES ALL DAMAGED AREAS TO BE REPAIRED TO ORIGINAL CONDITION. ALL REPAIRS SHALL BE COMPLETED WITHIN 14 DAYS OF THE DATE OF NOTIFICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL REPAIRS.

A SITE ELEVATION
SCALE: 1" = 17'-11" = 20'
22' x 34' - 11" = 10'



PROJECT NO: 172842
 EDGE PROJECT NO: 6767
 DRAWN BY: DCS
 CHECKED BY: CQD

REV.	DATE	DESCRIPTION
1	07/17/12	ISSUED FOR CD 100
2	05/14/12	ISSUED FOR CD 906

PRELIMINARY - FOR REVIEW AND APPROVAL

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MS03XC105
 FRIDLEY SURGE TOWER
 7504 75TH WAY
 FRIDLEY, MN 55432

SHEET TITLE
ANTENNA SCHEDULE & LAYOUTS

SHEET NUMBER
A-4

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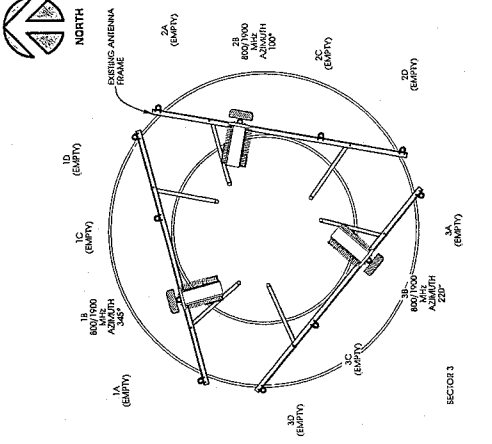
PROPOSED ANTENNA SCHEDULE

SECTOR	ANTENNA NUMBER	ANTENNA MANUFACTURER	ANTENNA MODEL	NUMBER OF HYBRID CABLES	AZIMUTH	RAD. CENTER	ANTENNA GAIN	ELEC. D. TILT	MECH. TILT	EFF. D. TILT	RRU MODEL	RRU FILTER	HYBRID CABLE LENGTH	JUMPER SIZE	JUMPER LENGTH	RET. LENGTH	RET. MANUFACTURER	RET. CABLE MODEL NUMBER
1B	803 / 1900 MHz	POWERWAVE	P90-15-XL-PP-RR	SAMSUNG HFC-1 (PER SECTOR)	348°	99'-0"	14.57/16.8	0/2°	0/0°	0/2°	RRH-C2A RRH-R4	(1) 1800 MHz FILTER	195'-0"	1/2"	6'	9.8'	COMMSCOPE	ATCB-801-003
2B	800 / 1900 MHz	POWERWAVE	P90-15-XL-PP-RR	SAMSUNG HFC-1 (PER SECTOR)	100°	99'-0"	14.57/16.8	0/0°	0/0°	1/0°	RRH-C2A RRH-R4	(1) 1800 MHz FILTER	195'-0"	1/2"	6'	9.8'	COMMSCOPE	ATCB-801-003
3B	800 / 1900 MHz	KAN	ERX-15-70-15-62-19-IR-RD	SAMSUNG HFC-1 (PER SECTOR)	220°	99'-0"	13.47/13.9	5/4°	0/0°	5/4°	RRH-C2A RRH-R4	(1) 1800 MHz FILTER	195'-0"	1/2"	6'	9.8'	COMMSCOPE	ATCB-801-003
		PCTEL	OSP-TMG-HR-20R1CM											1/2" PCTEL LMR-400	10'			

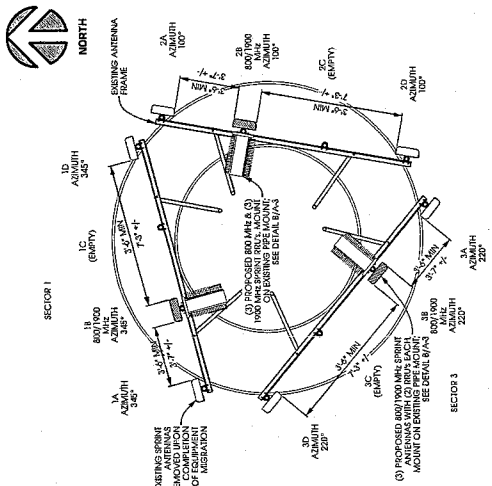
NOTE:

- EXISTING ANTENNAS ARE COMA UNLESS NOTED OTHERWISE.
- DIMENSIONS OF EXISTING ANTENNAS SPACINGS OR PLATFORMS ARE APPROXIMATE UNLESS NOTED OTHERWISE.
- GENERAL NOTES: THESE ARE APPROXIMATE DIMENSIONS. GENERAL NOTES: THESE ARE APPROXIMATE DIMENSIONS.
- PROPOSED SPRINT ANTENNAS INCLUDE RESPECTIVE RIS WHICH SHALL BE LOCATED ON THE PIPE BEHIND THE ANTENNA SIMILAR TO THAT SHOWN ON DETAIL OF ANTENNA.
- FOR HYBRID CABLE DIAMETER REFER TO HYBRID CABLE TYPE DETAIL ON SHEET EL DETAIL C. SEE WALL VERT BASED ON LENGTH OF RISK.
- MECHANICAL TILT: MECHANICAL TILT = RESPECTIVE (0/0 MECHANICAL TILT).
- INSTALL (6) COAX JUMPERS PER SECTOR (TOTAL OF 18).

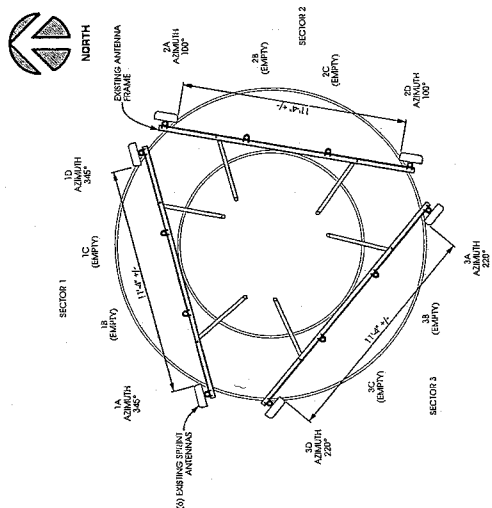
A ANTENNA SCHEDULE
 SCALE: NIS



D FINAL ANTENNA LAYOUT
 SCALE: NIS



C INTERIM ANTENNA LAYOUT
 SCALE: NIS



B EXISTING ANTENNA LAYOUT
 SCALE: NIS

Frequencies for Sprint

CDMA 800 RRH TX Frequency: 862-869 MHz, RX Frequency: 817-824 MHz

CDMA 1900 RRH PCS A-Band: TX Frequency: 1930-1945 MHz, RX Frequency: 1850 – 1865 MHz

LTE 1900 G-Band: TX Frequency: 1990-1995 MHz, RX Frequency: 1910 – 1915 MHz