



MILPITAS PLANNING COMMISSION AGENDA REPORT

PUBLIC HEARING

Meeting Date: June 13, 2012

APPLICATION: **CONDITIONAL USE PERMIT AMENDMENT NO. UA12-0005 AND SITE DEVELOPMENT PERMIT NO. SA12-0005**

**APPLICATION
SUMMARY:**

A request to replace existing antennas with the addition of ancillary rooftop and ground mounted equipment.

LOCATION:

15 Wilson Way, Milpitas, CA 95035 (APN: 022-01-011)

APPLICANT:

Sprint, Liz Johnson, 44632 Hwy. 49, Ahwahnee, CA 93601

OWNER:

D&M Associates, 385 Woodview Ave. Ste 100, Morgan Hill CA 95037

RECOMMENDATION:

Staff recommends that the Planning Commission: Adopt the Resolution No. 12-025 subject to the conditions of approval

PROJECT DATA:

General Plan/

Zoning Designation:

Neighborhood Commercial (C1)

Overlay District:

Site and Architectural (-S).

Related Permits:

UP No. 1370, UP09-0030, and SA09-0011

CEQA Determination:

Categorically exempt from further environmental review pursuant to Section 15301 for Existing Facilities (e) for Additions to Existing Facilities

PLANNER:

Tiffany Brown

PJ:

2818

ATTACHMENTS:

- A. Resolution No. 12-025
- B. Site Plans
- C. Letter from Applicant
- D. Telecommunication Facility Questionnaire
- E. Federal Communications Commission Authorization

LOCATION MAP



- No scale
★ Project location

BACKGROUND

In 1996, the Planning commission approved a conditional use permit (UP No. 1370) for a wireless communications facility consisting of a 33-foot tall roof mounted pole (measured from grade) with six panel antennae and installation of a new chain-link enclosure for associated equipment cabinets on a site developed with existing mini-storage facility.

In 2009, T-Mobile received the approval for a conditional use permit amendment and site development permit amendment to locate a new 33-foot tall roof mounted wireless communication monopole (measured from grade) with six new panel antennas and associated ground mounted equipment within the a new 240 square foot enclosure. The enclosure utilizes block wall and is painted tan to match the existing building.

On April 19, 2012, an application was submitted by Liz Johnson representing Sprint Nextel to replace the 15-foot tall roof mounted pole with a new 30 foot tall monopole including removing and replacing ancillary equipment.

PROJECT DESCRIPTION

The project site is a 2.45-acre parcel improved with eight, one and two-story buildings used for mini-storage with a 8-foot tall concrete block perimeter fence. The project site is located on the northwest corner of Dixon Landing Road and N. Milpitas Blvd intersection. The property is zoned Neighborhood Commercial and surrounding uses include, a mobile home park to the north and west, and residential neighborhoods, a gas service station, a preschool and commercial retail center to the east and south.

The applicant proposes to remove the existing 33-foot tall pole that was approved in 1996, and reconstruct a new 33-foot tall monopole, painted to match the existing building. The proposal includes ancillary rooftop equipment that will not exceed the height of the existing parapet, and the removal and replacement of ancillary ground mounted equipment located within the existing tan block wall enclosure. The application is submitted pursuant to Milpitas Municipal Code (MMC) XI-10-13.09 for Wireless Communication Facilities. Wireless communication facilities and structures that are not considered stealth by definition require the review and approval of Planning Commission.

ADOPTED PLANS AND ORDINANCES CONSISTENCY

General Plan

The table below outlines the project’s consistency with applicable General Plan Guiding Principles and Implementing Policies:

Table 2
General Plan Consistency

Policy	Consistency Finding
<i>2.a-I-4: Publicize the position of Milpitas as a place to carry on compatible industrial and</i>	Consistent. Providing alternate telecommunications services for industrial, commercial and personal business promotes Milpitas as a place that has

Policy	Consistency Finding
<p><i>commercial activities with special emphasis directed toward the advantages of the City's location to both industrial and commercial use.</i></p>	<p>compatible commercial and industrial uses.</p>
<p><i>2.a-I-3: Encourage economic pursuits which will strengthen and promote development through stability and balance.</i></p>	<p>Consistent. Enabling Sprint Nextel to provide improved coverage helps promote their service within the City and benefits Sprint Nextel customers.</p>

Zoning Ordinance

Federal law preserves the City's authority to regulate the placement, construction, and modification of personal wireless service facilities, so long as such regulations do not impose a blanket prohibition on the construction of such facilities or intrude into the regulation of radio frequency emissions, which are the sole province of the Federal Communications Commission and certain state regulations. Thus, the City has the power to conduct a limited review of wireless communication facilities for compliance with zoning and land use requirements. (47 U.S.C. 332(c)(7)(A).) Here, the proposed project complies with the City's Zoning Ordinance. Wireless telecommunications facilities are a conditionally permitted use within all zoning districts. The layout of the site and design of the proposed structure and ancillary equipment are compatible and aesthetically harmonious with adjacent and surrounding development. The proposed use at the proposed location will not be detrimental or injurious to property or improvements in the vicinity nor to the public health, safety, and general welfare.

Radio Frequency Emissions

The City is prohibited by federal law from regulating the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of RF emissions to the extent the facilities comply with the Federal Communications Commission's (FCC) regulations concerning such emissions. (47 U.S.C. 332(c)(7)(B)(iv).

The FCC has established guidelines that place limits on human exposure to RF fields generated by personal wireless service facilities. These guidelines have been endorsed by the U.S. Environmental Protection Agency and the Food and Drug Administration. The FCC requires all personal wireless facilities to comply with these guidelines.

As proposed, the T-Mobile facility would operate between 1920 to 1960 MHz on a PCS network. The site will accommodate one channel per sector with three sectors for an effective radiated power level of approximately 2,490 watts. The RF emissions from the proposed facility will be at a level of .32% of the applicable public exposure limit. The operations of both carriers are calculated at 1.8% of the public exposure limit. The project would operate within the FCC limits for RF emissions.

ENVIRONMENTAL REVIEW

The Planning Division conducted an initial environmental assessment of the project in accordance with the California Environmental Quality Act (CEQA). Staff determined that the

project is categorically exempt from further environmental review pursuant to Section 15301 (Existing Facilities) of the California Environmental Quality Act in that the project is a negligible expansion beyond the existing use. The project would also be categorically exempt under Section 15303 (New Construction or Conversion of Small Structures). The roof top already houses other wireless telecommunication facilities and the new equipment cabinet would be placed inside an existing communications and industrial equipment enclosure area.

PUBLIC COMMENT/OUTREACH

Staff publicly noticed the application in accordance with City and State law. As of the time of writing this report, there have been no inquiries from the public.

CONCLUSION

The proposed facility at the proposed location is compatible in that there is existing wireless telecommunication antenna with ancillary equipment onsite, and the new equipment will match the existing.

RECOMMENDATION

STAFF RECOMMENDS THAT the Planning Commission close the public hearing after hearing testimony and adopt Resolution No. approving CONDITIONAL USE PERMIT AMENDMENT NO. UA12-0005 AND SA12-0005, subject to the attached Resolution and Conditions of Approval.

Attachments:

- A. Resolution No. 12-025
- B. Site Plans
- C. Letter from Applicant
- D. Telecommunication Facility Questionnaire
- E. Federal Communications Commission Authorization

RESOLUTION NO. 12-025

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF MILPITAS, CALIFORNIA, APPROVING CONDITIONAL USE PERMIT AMENDMENT NO. UA12-0005 AND SITE DEVELOPMENT PERMIT AMENDMENT NO. SA12-0005, SPRINT NEXTEL, TO ALLOW REPACEMENT OF EXISTING ANTENNAS WITH THE ADDITION OF ANCILLARY ROOFTOP AND GROUND MOUNTED EQUIPMENT, LOCATED AT 15 WILSON WAY

WHEREAS, on April 19, 2012, an application was submitted by Liz Johnson representing Sprint Nextel , 44632 Hwy 49, Ahwahuee, CA 93601, to allow A request to replace existing antennas with the addition of ancillary rooftop and ground mounted equipment. The property is located within the Neighborhood Commercial Zoning District (APN: 022-01-001); and

WHEREAS, the Planning Division completed an environmental assessment for the project in accordance with the California Environmental Quality Act (CEQA), and recommends that the Planning Commission determine this project categorically exempt.

WHEREAS, on June, 13, 2012 the Planning Commission held a duly noticed public hearing on the subject application, and considered evidence presented by City staff, the applicant, and other interested parties.

NOW THEREFORE, the Planning Commission of the City of Milpitas hereby finds, determines and resolves as follows:

Section 1: The recitals set forth above are true and correct and incorporated herein by reference.

Section 2: The project is categorically exempt from further environmental review pursuant to Section 15301 (Existing Facilities) of the California Environmental Quality Act in that the project is a negligible expansion beyond the existing use. The project would also be categorically exempt under Section 15303 (New Construction or Conversion of Small Structures). The roof top already houses other wireless telecommunication facilities and the new equipment cabinet would be placed inside an existing communications and industrial equipment enclosure area.

Section 3: The proposed project at the proposed location is consistent with General Plan Policies 2.a-I-4 and 2.a-I-3, in that the project will provide alternate telecommunications services for industrial, commercial and personal business which promotes Milpitas as a place that has compatible commercial and industrial uses and by enabling Sprint Nextel to provide improved coverage helps promote their service within the City and benefits Sprint Nextel customers.

Section 4: The proposed use at the proposed location complies with the City's Zoning Ordinance in that Wireless telecommunications facilities are a conditionally permitted use within all zoning districts.

Section 5: The layout of the site and design of the proposed structure and ancillary equipment are compatible and aesthetically harmonious with adjacent and surrounding development in that the wireless facility is sited in a way that minimizes aesthetic impacts.

Section 6: The proposed use at the proposed location will not be detrimental or injurious to property or improvements in the vicinity nor to the public health, safety, and general welfare in that the radio frequency transmissions from the facility are regulated by the Federal Communications Commission authority and are required to comply with all applicable federal standards through this approval .

Section 7: The Planning Commission of the City of Milpitas hereby approves Conditional Use Permit No. UP12-0005 and SA12-0005, subject to the above Findings, and Conditions of Approval attached hereto as Exhibit 1.

PASSED AND ADOPTED at a regular meeting of the Planning Commission of the City of Milpitas on June 13, 2012.

Chair

TO WIT:

I HEREBY CERTIFY that the following resolution was duly adopted at a regular meeting of the Planning Commission of the City of Milpitas on June 13, 2012, and carried by the following roll call vote:

COMMISSIONER	AYES	NOES	ABSENT	ABSTAIN
Lawrence Ciardella				
John Luk				
Rajeev Madnawat				
Sudhir Mandal				
Zeya Mohsin				
Gurdev Sandhu				
Steve Tao				
Garry Barbadillo				

EXHIBIT 1

**CONDITIONS OF APPROVAL
CONDITIONAL USE PERMIT AMENDMENT NO. UA12-0005 AND SITE
DEVELOPMENT PERMIT NO. SA12-0005**

A request to replace existing antennas with the addition of ancillary rooftop and ground mounted equipment.

15 Wilson Way, (APN: 022-01-011)

General Conditions

1. The owner or designee shall develop the approved project in conformance with the approved plans and color and materials sample boards approved by the Planning Commission on **June 13, 2012**, in accordance with these Conditions of Approval.

Any deviation from the approved site plan, floor plans, elevations, materials, colors, or other approved submittal shall require that, prior to the issuance of building permits, the owner or designee shall submit modified plans and any other applicable materials as required by the City for review and obtain the approval of the Planning Director or Designee. If the Planning Director or designee determines that the deviation is significant, the owner or designee shall be required to apply for review and obtain approval of the Planning Commission, in accordance with the Zoning Ordinance. **(P)**

UA12-0005 and SA12-0005 shall become null and void if the project is not commenced within two (2) years from the date of approval unless in conjunction with a tentative map, then the project life coincides with the life of the map. Pursuant to Section 64.06(B) of the Zoning Ordinance of the City of Milpitas, commencement shall be:

- a. Completes a foundation associated with the project; or
 - b. Dedicates any land or easement as required from the zoning action; or
 - c. Complies with all legal requirements necessary to commence the use, or obtains an occupancy permit, whichever is sooner.
2. Pursuant to Section 64.06(1), the owner or designee shall have the right to request an extension of **UA12-0005 and SA12-0005** if said request is made, filed and approved by the Planning Commission prior to expiration dates set forth herein. **(P)**
 3. Prior to the issuance of building permits, the owner or designee shall include within the four first pages of the working drawings for a plan check, a list of all conditions of approval imposed by the final approval of the project. **(P)**
 4. The project shall be operated in accordance with all local, state and federal regulations. **(P)**
 5. The radome and supporting structures shall be painted to match the building. Building permit plans shall indicate the existing building materials and colors to ensure consistency and compatibility with proposed materials and colors. **(P)**

6. Associated mechanical equipment shall be fully shielded behind a screen wall and shall not be visible from any surrounding worst-case view points. **(P)**
7. If at the time of application for building permit, there is a project job account balance due to the city for recovery of fees; building permit issuance shall not be issued until the balance is paid in full. **(P)**

(P) = Planning

Sprint



SITE NAME: LOCK IT UP STORAGE
SITE NUMBER: FS04XC176
SITE ADDRESS: 15 WILSON WAY
MILPITAS, CA 95035
SITE TYPE: ROOFTOP (GROUND EQUIPMENT)

ATTACHMENT B.



DRAWN BY: MG
CHECKED BY: MM

REV	DATE	DESCRIPTION
3	4/11/12	ZONING DRAWING FOR ZAP
2	03/23/12	100% ZONING DRAWING-RRU
1	01/22/12	100% ZONING DRAWING
0	12/27/11	90% ZONING DRAWING

NOT TO BE USED FOR CONSTRUCTION

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

FS04XC176
LOCK IT UP STORAGE
15 WILSON WAY
MILPITAS, CA 95035

SHEET TITLE
TITLE SHEET, SITE INFORMATION AND VICINITY MAP

SHEET NUMBER
T-1

SITE INFORMATION

SITE ADDRESS:
15 WILSON WAY
MILPITAS, CA 95035

PROPERTY OWNER:
D/M ASSOCIATES
275 SARATOGA AVE #105
SANTA CLARA, CA 95050

CONSTRUCTION MANAGER:
JAMES CRIST
TEL: 707.815.6478
EMAIL: cristj@overlandcontracting.com

CONTACT ENGINEER:
M.SQUARED ENGINEERS
121 W EL PORTAL, SUITE 102
SAN CLEMENTE, CA 92672
TEL: 619.997.4012

EQUIPMENT SUPPLIER:
SAMSUNG TELECOMMUNICATIONS AMERICA (STA)
1301 EAST LOOKOUT DRIVE
RICHARDSON, TX 75082-4124
(972) 761-7000

COUNTY:
SANTA CLARA

APN:
022-01-011

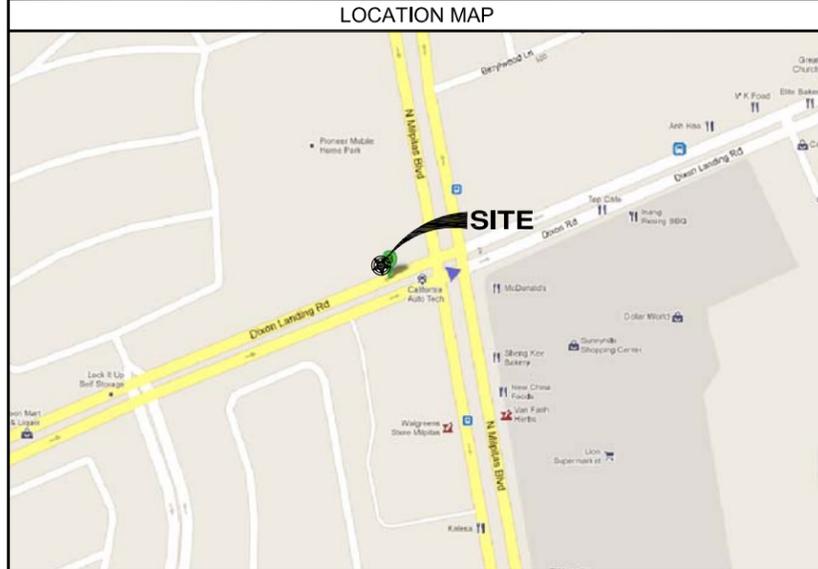
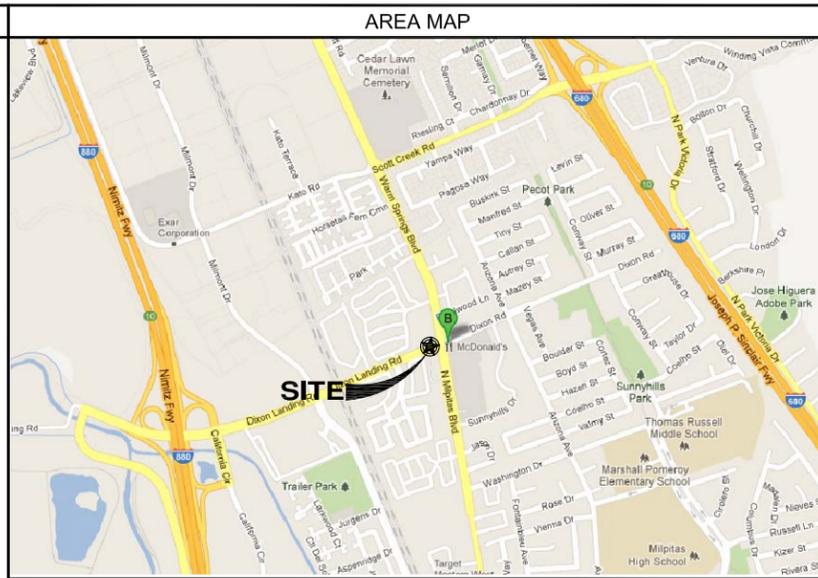
ZONING:
HS (HIGHWAY SERVICES)

LATITUDE (NAD83):
37° 27' 28.335" N
37.457871°

LONGITUDE (NAD83):
121° 54' 43.3836" W
-121.912051°

POWER COMPANY:
PG&E

TELCO COMPANY:
AT&T



APPLICABLE CODES

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.

- CALIFORNIA ADMINISTRATIVE CODE (INCL TITLE 24 & 25)
- 2010 CALIFORNIA BUILDING CODE
- CITY/COUNTY ORDINANCES
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2010 MECHANICAL CALIFORNIA CODE
- ANSI/EIA-222-F LIFE SAFETY CODE NFPA-101
- 2010 CALIFORNIA PLUMBING CODE
- 2010 CALIFORNIA ELECTRICAL CODE
- 2010 LOCAL BUILDING CODE

ACCESSIBILITY REQUIREMENTS:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2010 CALIFORNIA BUILDING CODE.

PROJECT DESCRIPTION

SPRINT IS PROPOSING TO MODIFY ITS EXISTING UNMANNED WIRELESS TELECOMMUNICATION FACILITY AND INSTALL THE FOLLOWING EQUIPMENT AND ANTENNAS:

- INSTALL (2) NEW EQUIPMENT CABINETS AND DECOMMISSION AND REMOVE (3) EXISTING EQUIPMENT CABINETS.
- REPLACEMENT AND NEW INSTALLATION OF ANTENNAS TO BE MOUNTED ON NEW PIPE MOUNTS INSIDE PROPOSED 32" RAYDOME
-REMOVE (3) EXISTING ANTENNAS.
-INSTALL (3) NEW SPRINT PANEL ANTENNAS.
- INSTALL (6) NEW RRUS MOUNTED ON ROOF H-FRAME.
- INSTALL (6) NEW FILTERS MOUNTED ON ROOF H-FRAME.
- INSTALL NEW CABLING FROM EXISTING AND/OR NEW EQUIPMENT TO THE ANTENNAS ALONG THE EXISTING COAX PATH.

DRIVING DIRECTIONS FROM NEAREST MAJOR AIRPORT

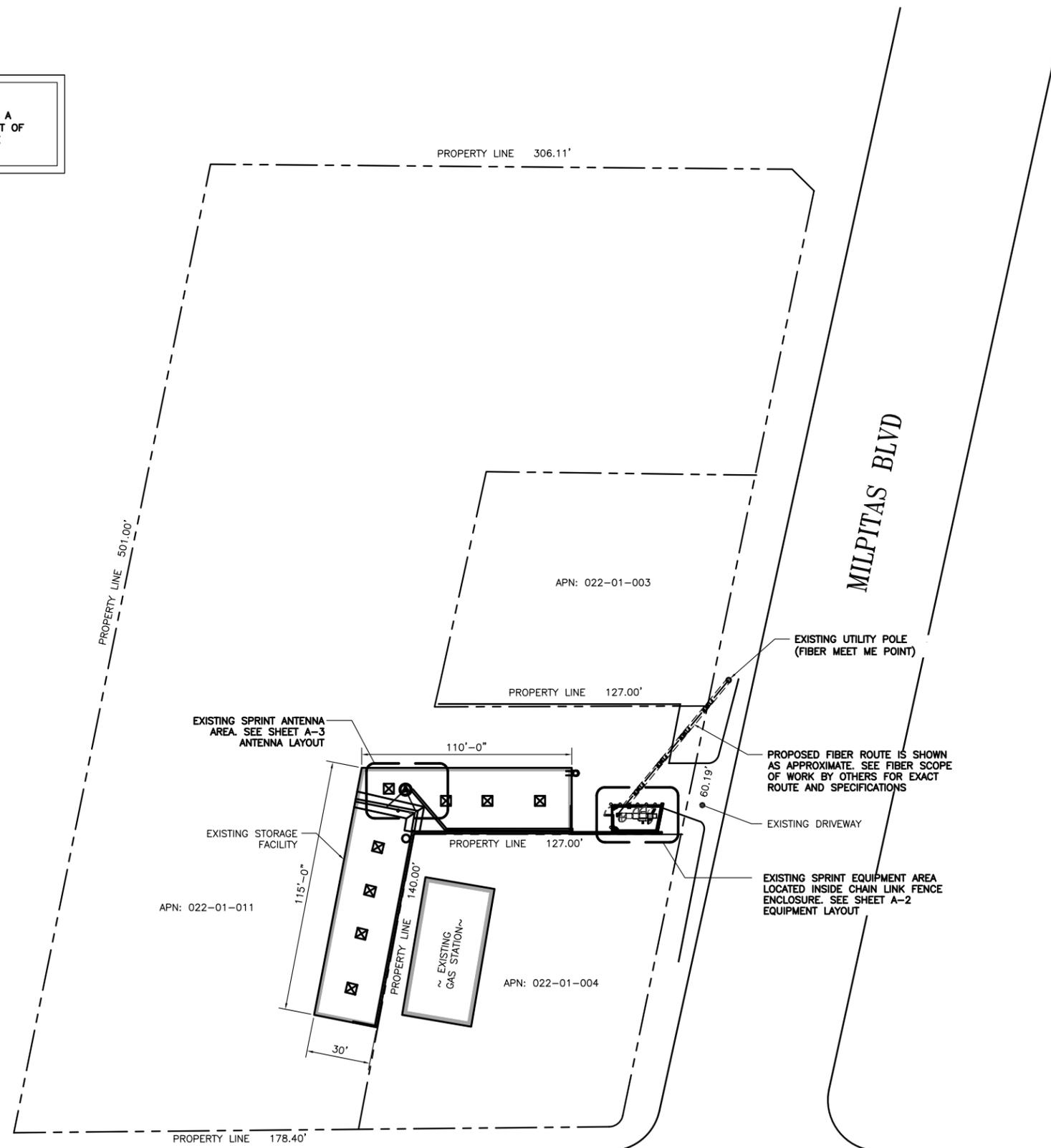
FROM SAN JOSE INTERNATIONAL AIRPORT:

- SLIGHT RIGHT ONTO AIRPORT PKWY
- CONTINUE ONTO E BROKAW RD
- TURN RIGHT TO MERGE ONTO I-880 N
- TAKE EXIT 10 FOR DIXON LANDING RD
- KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR DIXON LANDING RD W
- TURN LEFT ONTO DIXON LANDING RD
- CONTINUE ONTO DIXON RD/DIXON LANDING RD

DRAWING INDEX

SHEET:	SHEET TITLE
T-1	TITLE SHEET, SITE INFORMATION AND VICINITY MAP
A-1	SITE PLAN
A-2	EQUIPMENT LAYOUT PLANS
A-2.1	PROPOSED EQUIPMENT LAYOUT PLAN
A-3	ANTENNA LAYOUTS AND SCHEDULE
A-4	ELEVATIONS
A-5	ELEVATIONS
D-1	ANTENNA, RRU AND FILTER DETAILS
D-2	EQUIPMENT DETAILS

DISCLAIMER NOTE:
 MSQUARED ENGINEERS HAS GENERATED A SITE PLAN WITHOUT USING A TOPOGRAPHIC SURVEY. PROPERTY LINES, POWER/TELCO UTILITY POINT OF CONNECTIONS/ROUTES AND EASEMENT SHOWN ON THESE PLANS ARE ESTIMATED.



DRAWN BY: MG
CHECKED BY: MM

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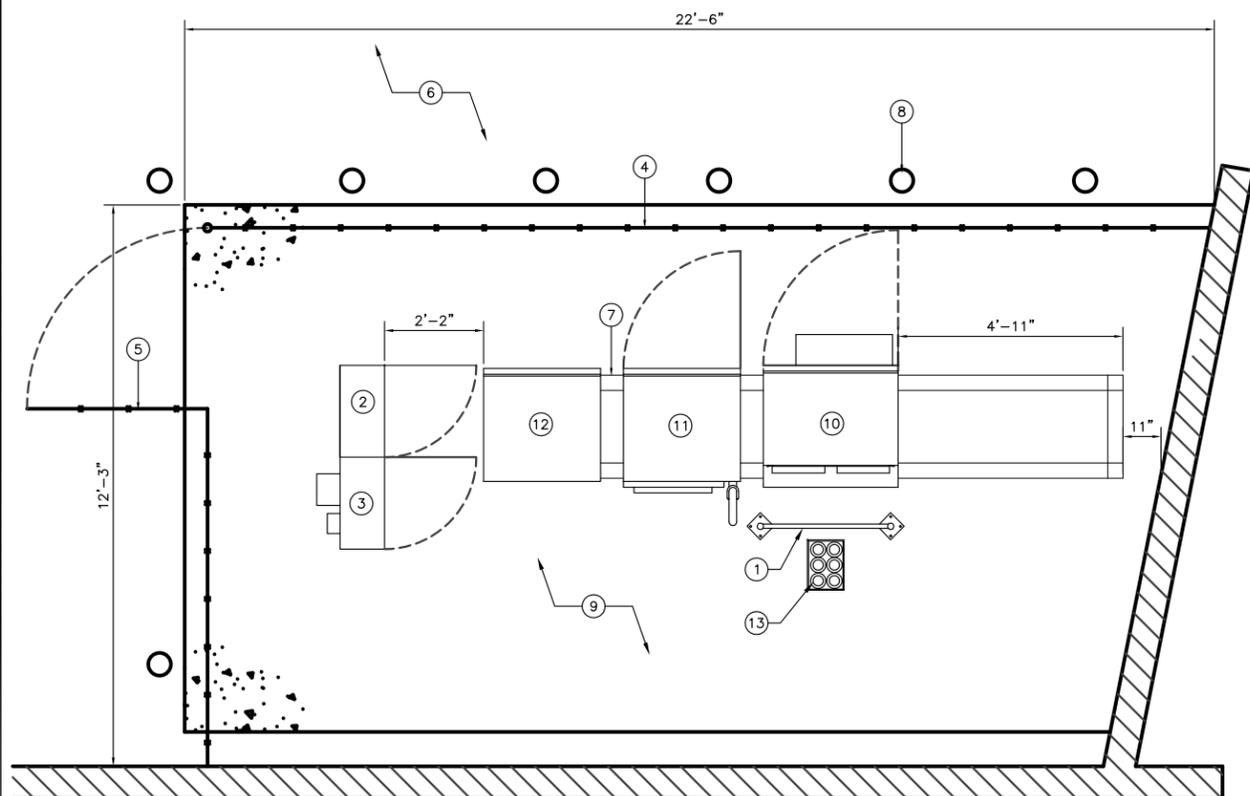
SHEET TITLE
 SITE PLAN

SHEET NUMBER
 A-1



KEYED NOTES:

- ① EXISTING COAX SUPPORT FRAME
- ② EXISTING SPRINT TELCO CABINET
- ③ EXISTING SPRINT 100A PPC CABINET
- ④ EXISTING 6' HIGH CHAIN LINK FENCE
- ⑤ EXISTING 4' WIDE ACCESS DOOR
- ⑥ EXISTING PAVED AREA
- ⑦ EXISTING STEEL BEAM SLEEPER
- ⑧ EXISTING PIPE BOLLARD
- ⑨ EXISTING CONCRETE SLAB
- ⑩ EXISTING GRAY SPRINT MODCELL EQUIPMENT CABINET
- ⑪ EXISTING GRAY SPRINT POWER CABINET
- ⑫ EXISTING GRAY SPRINT BBU CABINET
- ⑬ EXISTING (6) 6" CONDUIT STUB-UP



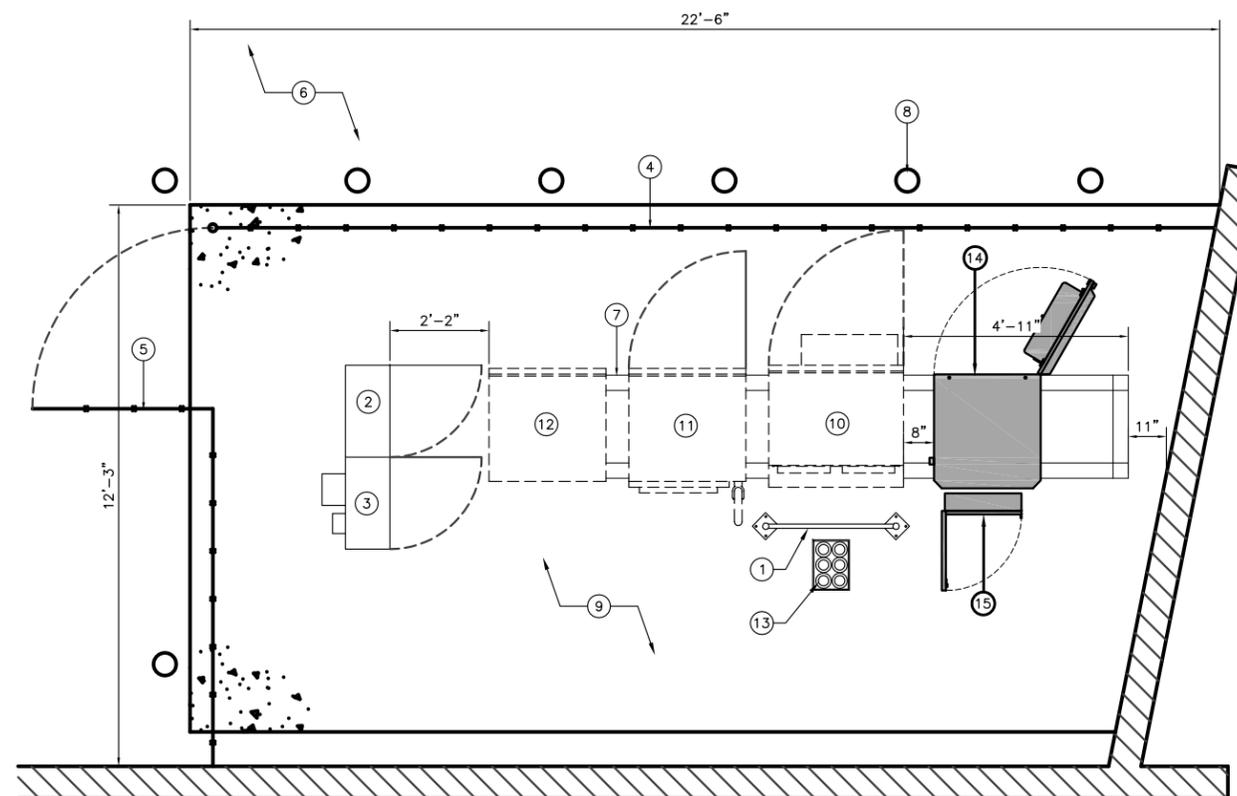
EXISTING EQUIPMENT LAYOUT PLAN



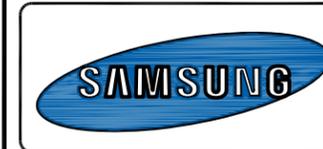
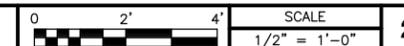
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- ⑬ EXISTING (6) 6" CONDUIT STUB-UP

- ⑭ PROPOSED GRAY SPRINT MMBS EQUIPMENT CABINET MOUNTED ON EXISTING STEEL SLEEPER
- ⑮ PROPOSED MUDROOM PANEL



INTERIM EQUIPMENT LAYOUT PLAN



DRAWN BY:	MG
CHECKED BY:	MM

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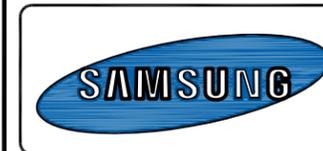
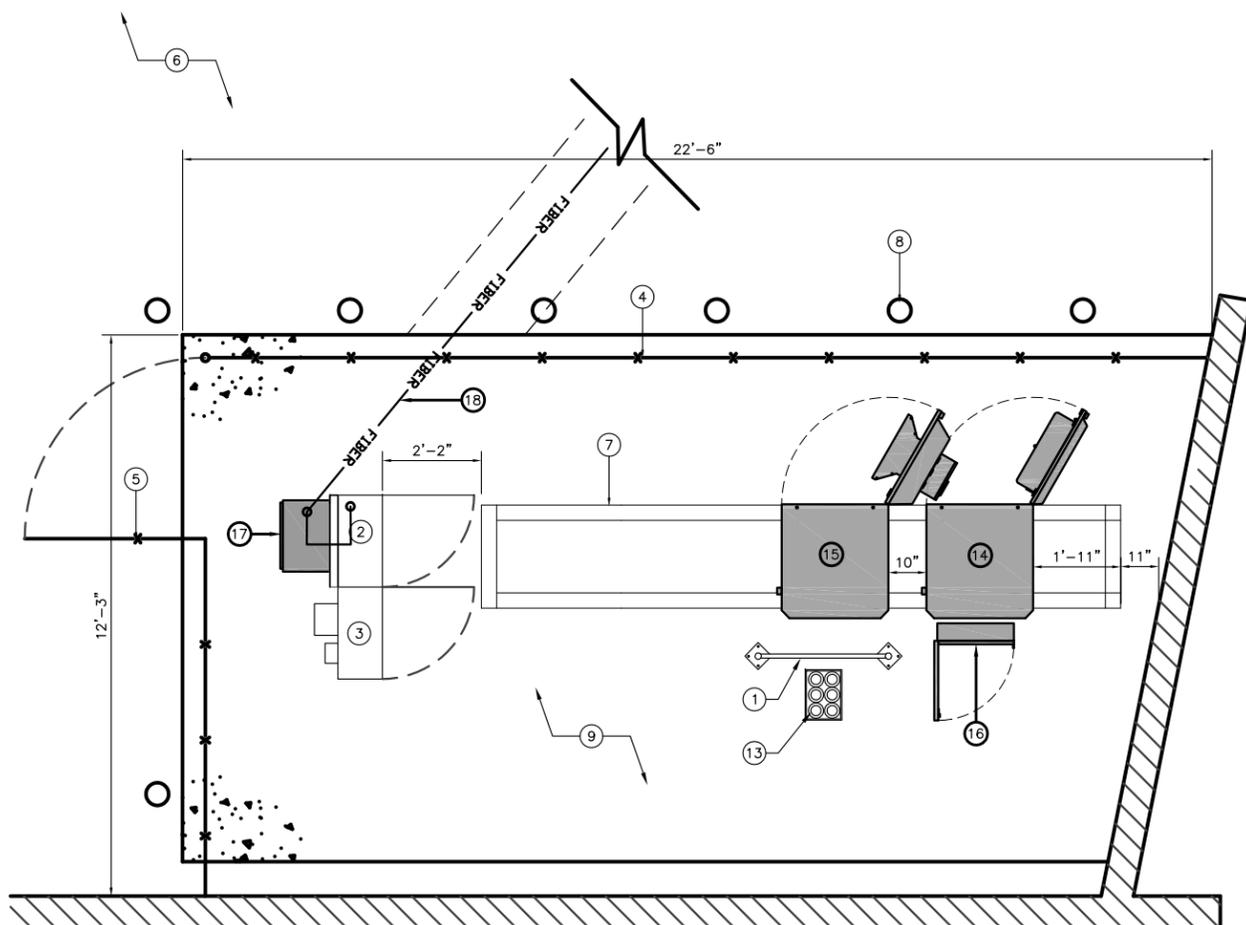
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SHEET TITLE
EQUIPMENT LAYOUT PLANS

SHEET NUMBER
A-2

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- ⑮ PROPOSED SPRINT BBU EQUIPMENT CABINET MOUNTED ON EXISTING STEEL SLEEPER
- ⑯ PROPOSED MUDROOM PANEL
- ⑰ PROPOSED F.T.P./NID AND UAM CABINET
- ⑱ PROPOSED FIBER ROUTE IS SHOWN AS APPROXIMATE. SEE FIBER SCOPE OF WORK BY OTHERS FOR EXACT ROUTE AND SPECIFICATIONS



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CHECKED BY:	MM

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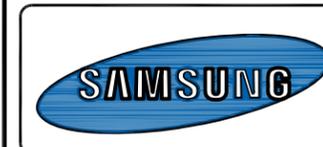
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A-2.1



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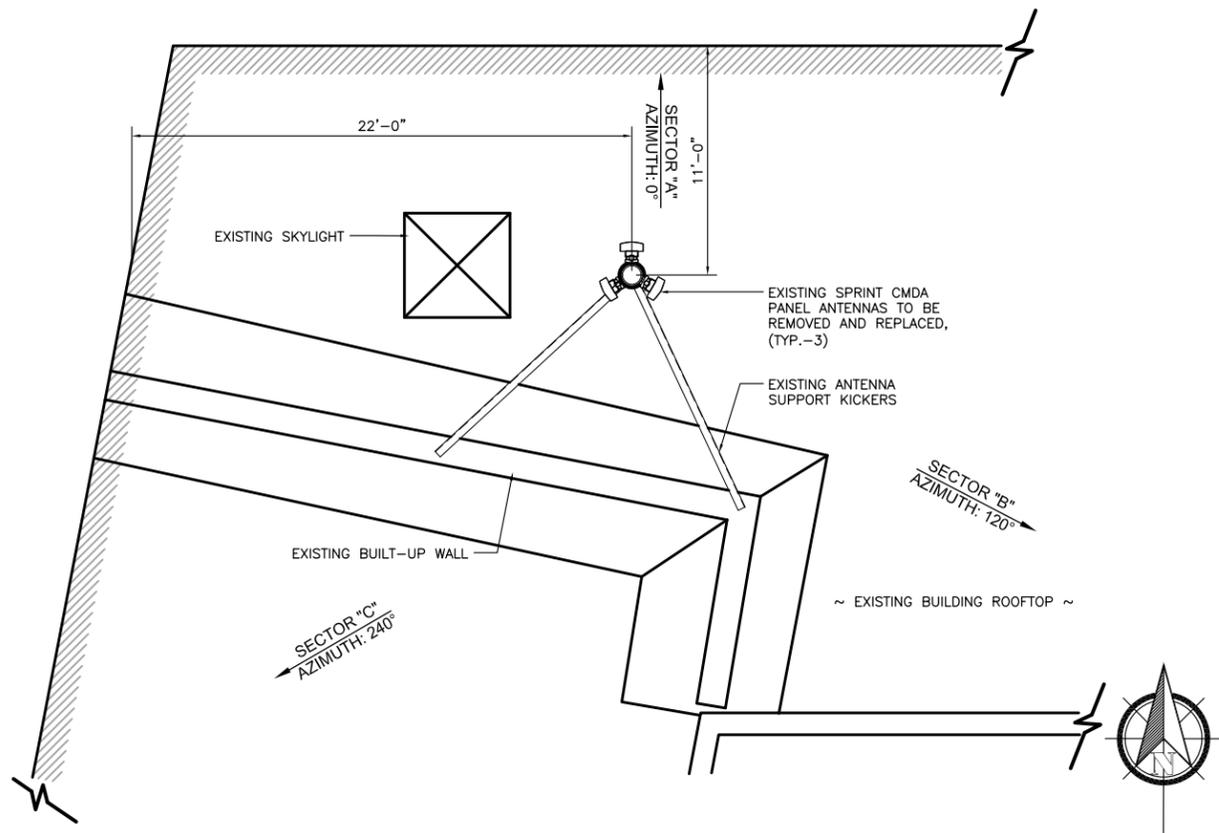
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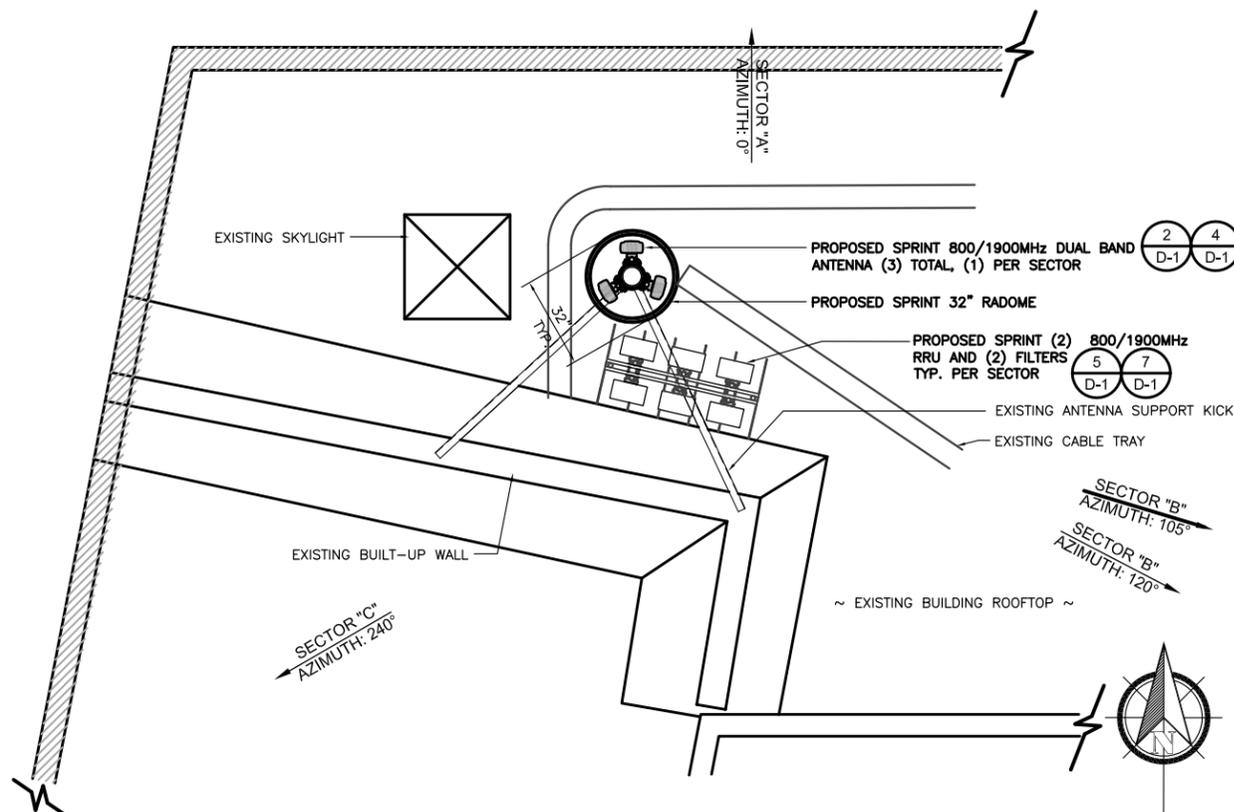
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SHEET TITLE
 ANTENNA LAYOUTS AND SCHEDULE

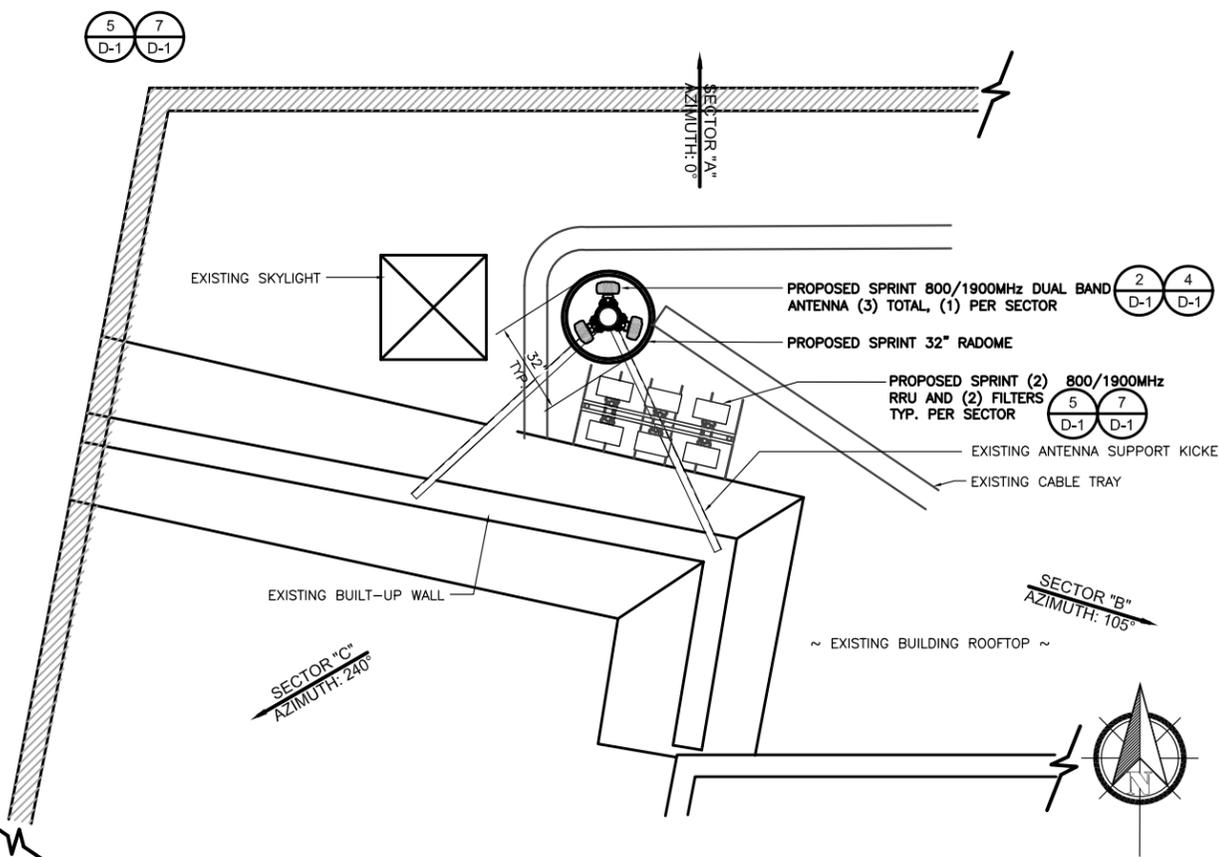
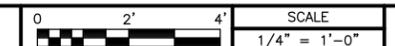
SHEET NUMBER
A-3



EXISTING ANTENNA LAYOUT



INTERIM ANTENNA LAYOUT



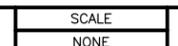
PROPOSED ANTENNA LAYOUT

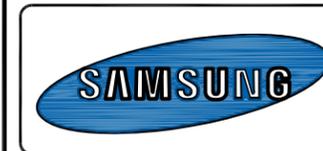


PROPOSED OPTIMAL ANTENNA AND TRANSMISSION CABLES REQUIREMENT (VERIFY WITH CURRENT EBTS)

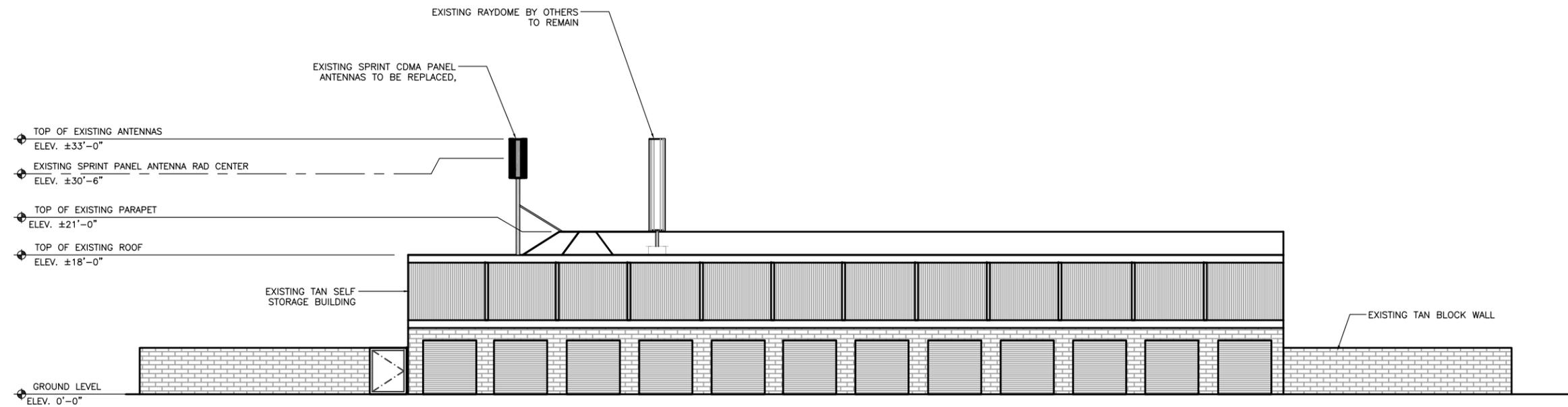
SECTOR	PROPOSED TECHNOLOGY	ANTENNA MODEL		ANTENNA AZIMUTH		RAD CENTER	TRANSMISSION LINE			
		EXISTING	PROPOSED	EXISTING	PROPOSED		LENGTH	TYPE(S)	CONVEYANCE	
ALPHA SECTOR	A1	800/1900 MHz	rr90-17-00dp	P90-15-XLPP-RR	0	0	30'	140'	FIBER & +48VDC	EXISTING CABLE TRAY
BETA SECTOR	B1	800/1900 MHz	rr90-17-00dp	1900_800_KMW_65_TYPE 1	120	105	30'	140'	FIBER & +48VDC	EXISTING CABLE TRAY
GAMMA SECTOR	C1	800/1900 MHz	rr90-17-00dp	P90-15-XLPP-RR	240	240	30'	140'	FIBER & +48VDC	EXISTING CABLE TRAY

ANTENNA SCHEDULE





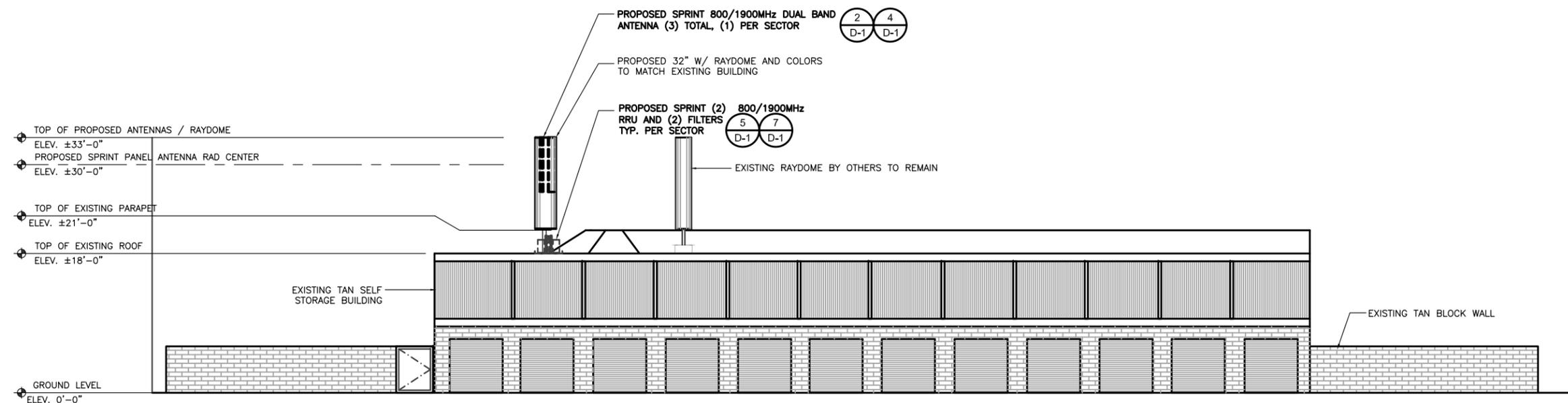
DRAWN BY: MG
CHECKED BY: MM



EXISTING WEST ELEVATION



1



PROPOSED WEST ELEVATION



2

REV	DATE	DESCRIPTION
3	4/11/12	ZONING DRAWING FOR ZAP
2	03/23/12	100% ZONING DRAWING-RRU
1	01/22/12	100% ZONING DRAWING
0	12/27/11	90% ZONING DRAWING

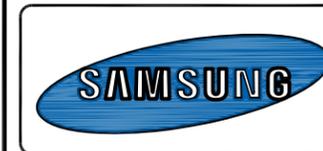
NOT TO BE USED FOR CONSTRUCTION

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FS04XC176
LOCK IT UP STORAGE
 15 WILSON WAY
 MILPITAS, CA 95035

SHEET TITLE
 ELEVATIONS

SHEET NUMBER
A-5



DRAWN BY: MG
CHECKED BY: MM

REV	DATE	DESCRIPTION
3	4/11/12	ZONING DRAWING FOR ZAP
2	03/23/12	100% ZONING DRAWING-RRU
1	01/22/12	100% ZONING DRAWING
0	12/27/11	90% ZONING DRAWING

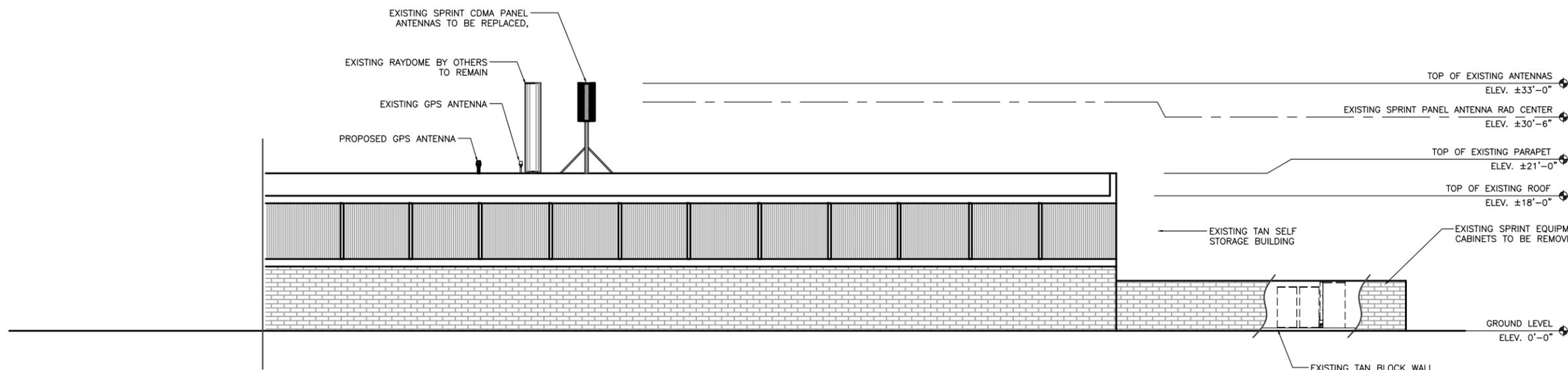
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 MILPITAS, CA 95035

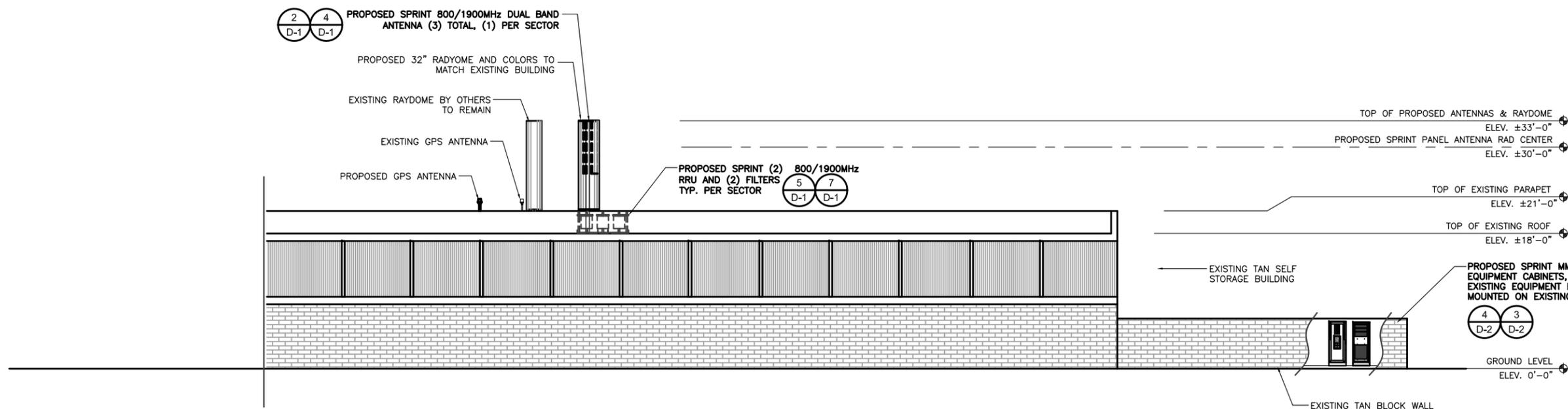
SHEET TITLE
 ELEVATIONS

SHEET NUMBER
A-4



EXISTING SOUTH ELEVATION

SCALE 1/8" = 1'-0" 1

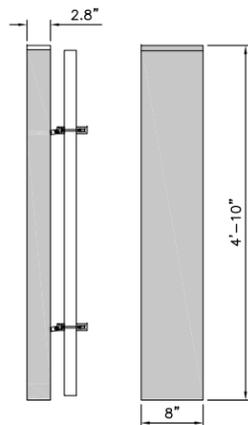


PROPOSED SOUTH ELEVATION

SCALE 1/8" = 1'-0" 2

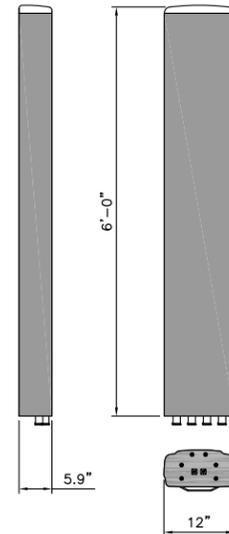
ANTENNA RR90-17-00DP

DIMENSIONS, HxWxD:
(56"x8"x2.8")
WEIGHT, WITH PRE-MOUNTED BRACKETS: 13.5 lbs
CONNECTOR: 7/16 DIN FEMALE



KMW ANTENNA 1900 800 KMW 65 TYPE 1

DIMENSIONS, HxWxD:
(72"x12"x5.9")
WEIGHT, WITH PRE-MOUNTED BRACKETS: 41.9 lbs
CONNECTOR: (6) 7/16 DIN FEMALE



EXISTING ANTENNA

SCALE
NONE

1

PROPOSED ANTENNA SPECIFICATIONS

SCALE
NONE

2

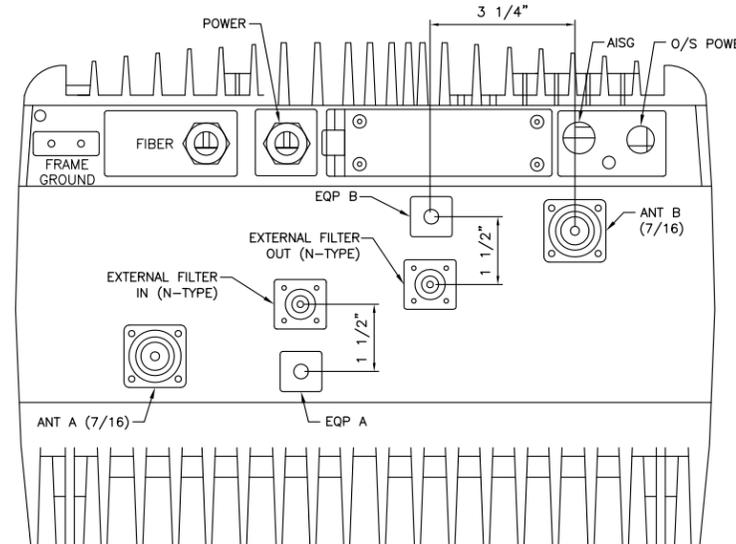
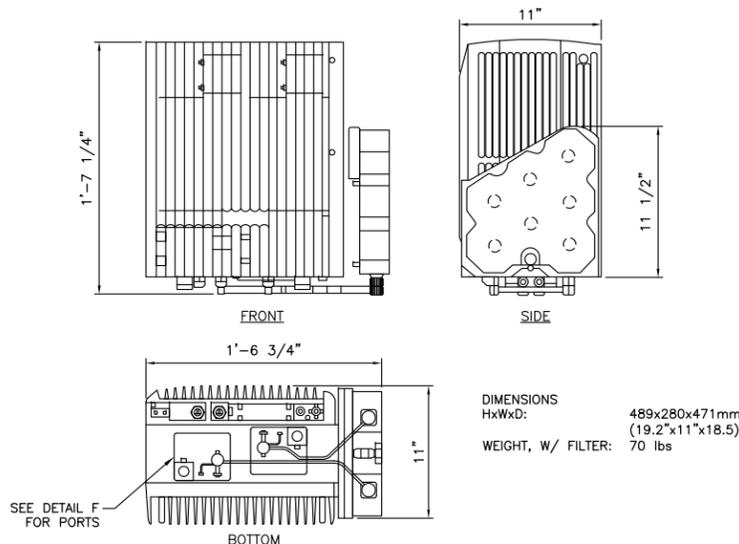
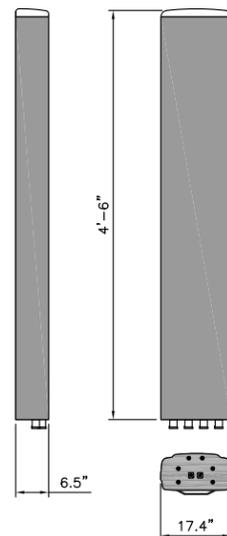
NOT USED

SCALE
NONE

3

POWERWAVE P90-15-XLPP-RR

DIMENSIONS, HxWxD:
(54"x17.4"x6.5")
WEIGHT, WITH PRE-MOUNTED BRACKETS: 64 lbs
CONNECTOR: (6) 7/16 DIN FEMALE



PROPOSED ANTENNA SPECIFICATIONS

SCALE
NONE

4

800MHZ RRU SPECIFICATIONS

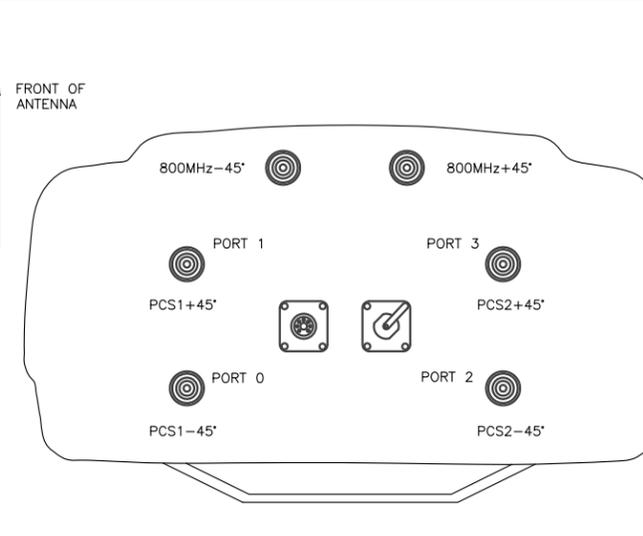
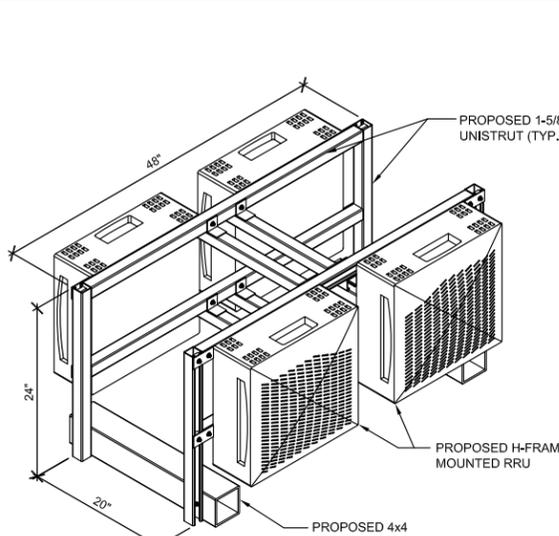
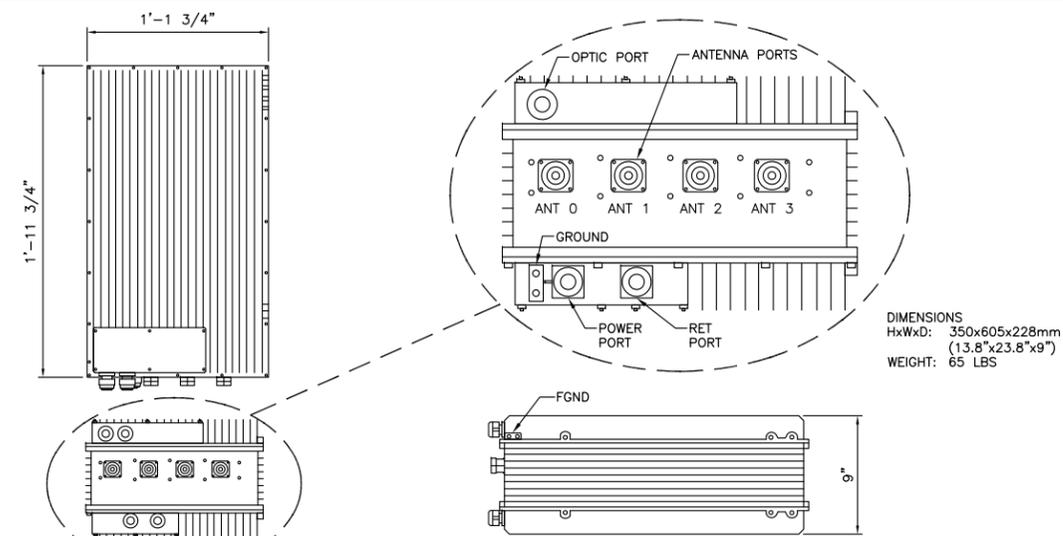
SCALE
NONE

5

800MHZ RRU FRONT VIEW

SCALE
NONE

6



1900 MHZ RRU SPECIFICATIONS

SCALE
NONE

7

RRU H-FRAME MOUNT

SCALE
N.T.S.

8

ANTENNA PORT CONFIGURATION

SCALE
NONE

9



DRAWN BY: MG
CHECKED BY: MM

REV	DATE	DESCRIPTION
3	4/11/12	ZONING DRAWING FOR ZAP
2	03/23/12	100% ZONING DRAWING-RRU
1	01/22/12	100% ZONING DRAWING
0	12/27/11	90% ZONING DRAWING

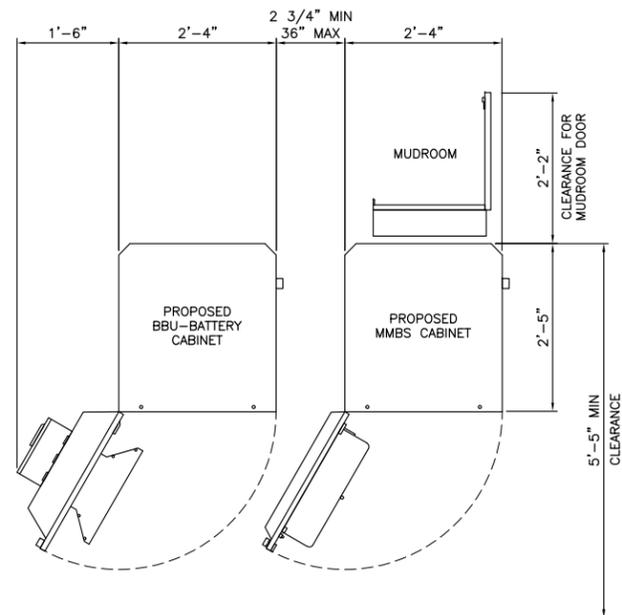
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LOCK IT UP STORAGE
15 WILSON WAY
MILPITAS, CA 95035

SHEET TITLE
DETAILS

SHEET NUMBER
D-1



MMBS TYPICAL FLOOR PLAN

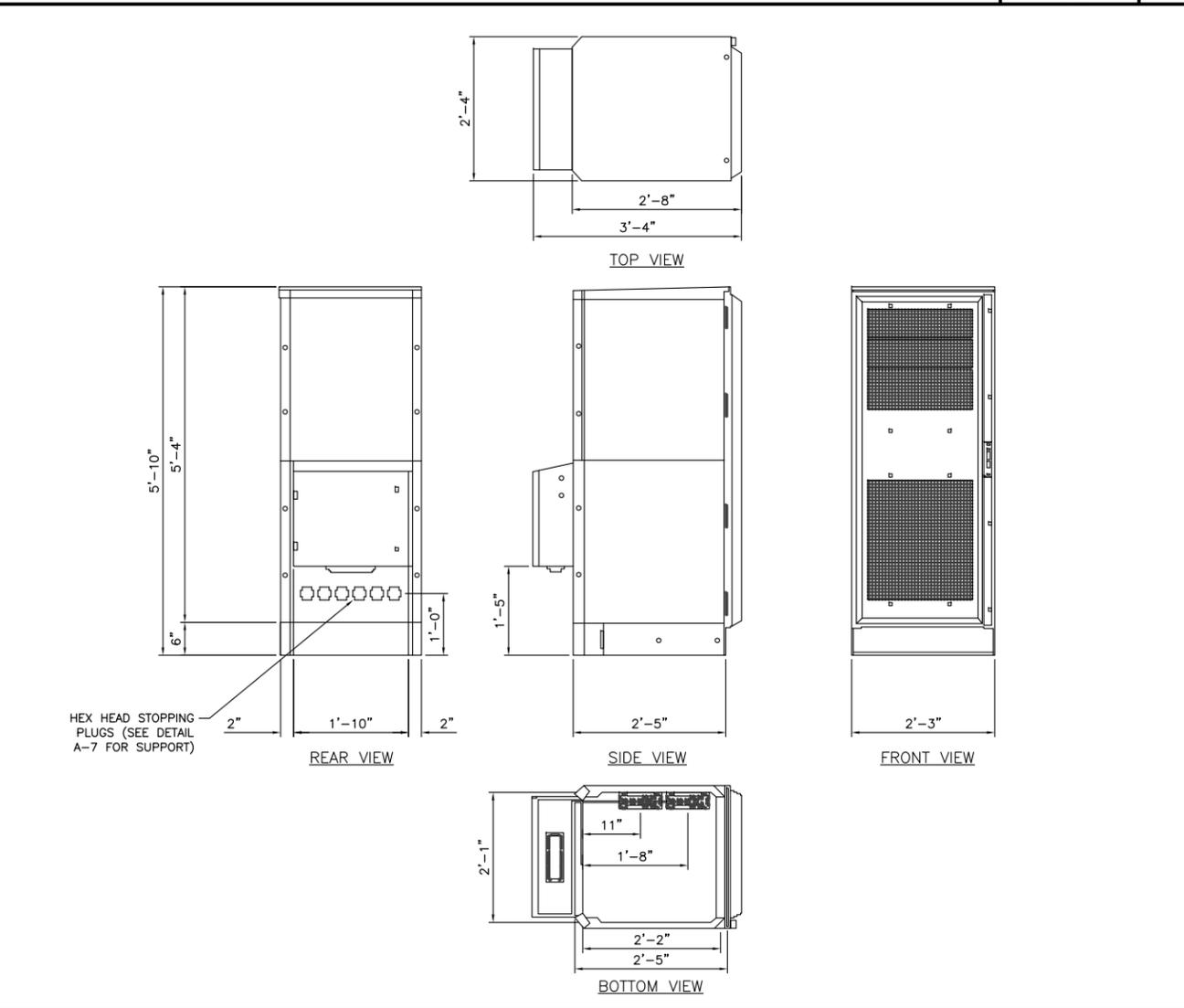
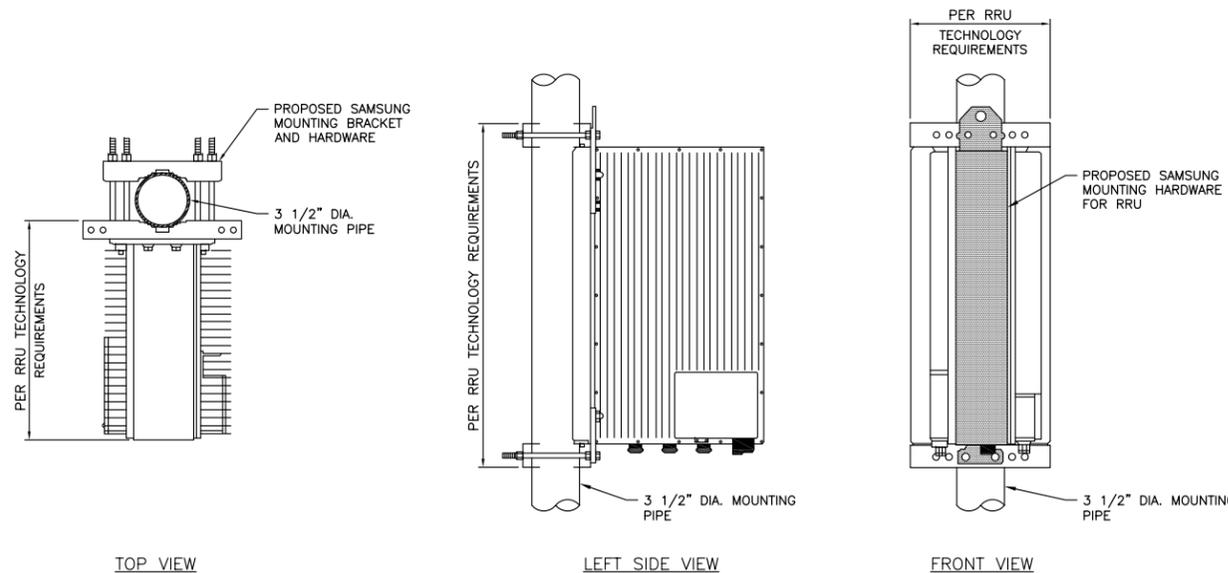
SCALE NONE

1

RRU POLE MOUNT INSTALLATION DETAIL

SCALE NONE

2



MMBS - MECHANICAL SPECIFICATIONS

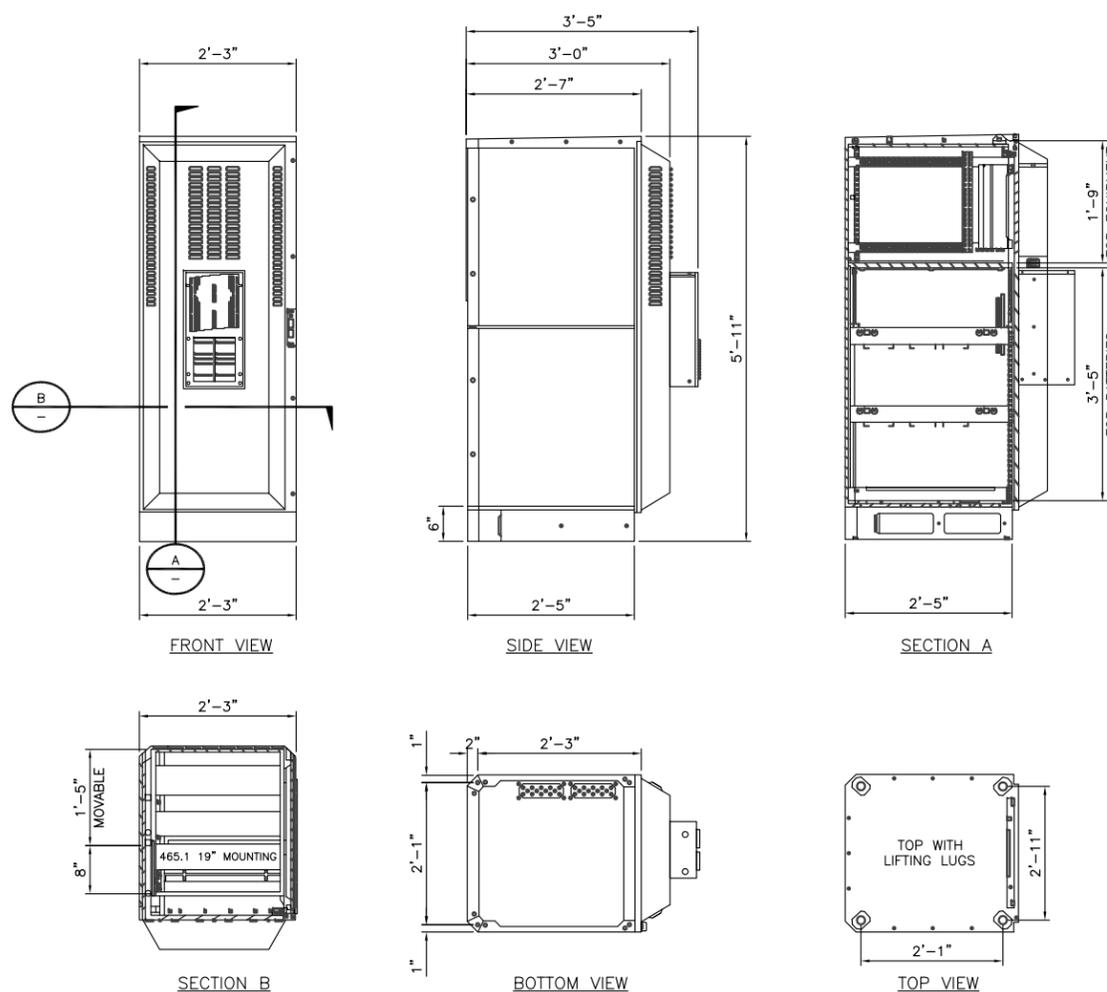
SCALE NONE

3

BBU - BATTERY CABINET

SCALE NONE

4



MMBS - MECHANICAL SPECIFICATIONS

SCALE NONE

3

BBU - BATTERY CABINET

SCALE NONE

4

DRAWN BY: MG
CHECKED BY: MM

REV	DATE	DESCRIPTION
3	4/11/12	ZONING DRAWING FOR ZAP
2	03/23/12	100% ZONING DRAWING-RRU
1	01/22/12	100% ZONING DRAWING
0	12/27/11	90% ZONING DRAWING

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LOCK IT UP STORAGE
15 WILSON WAY
MILPITAS, CA 95035

SHEET TITLE
DETAILS

SHEET NUMBER
D-2





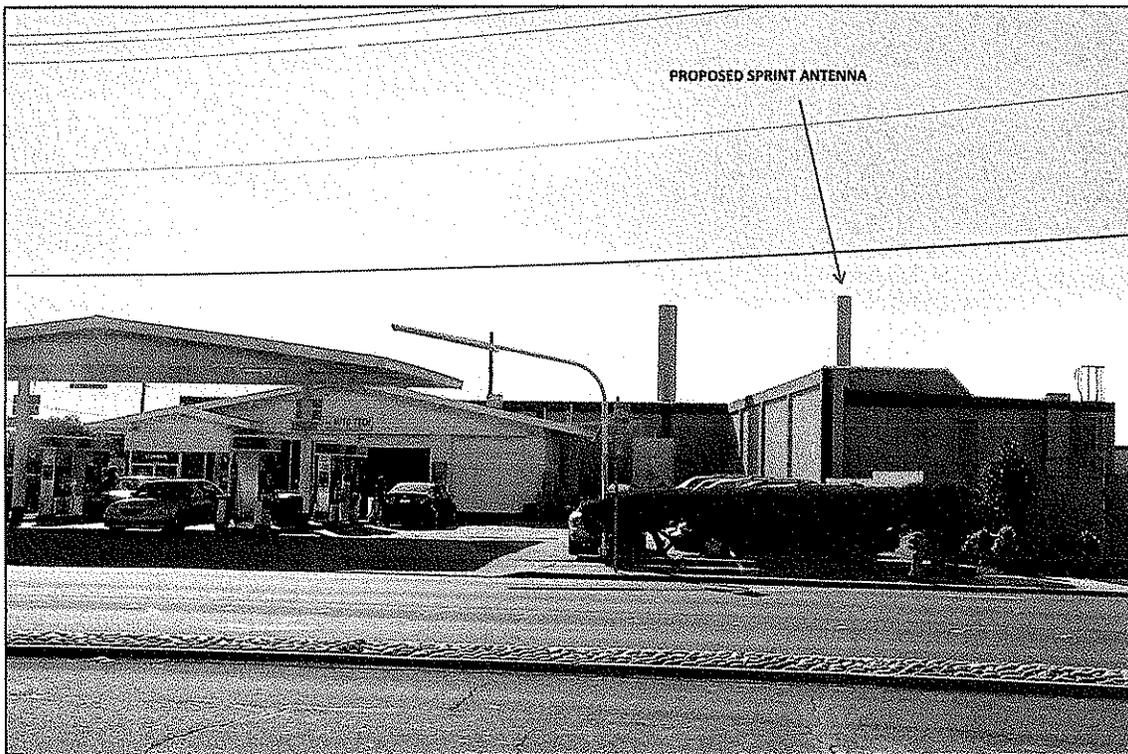
SITE NUMBER: FS04XC176

15 DIXON LANDING ROAD, MILPITAS, CA 95035

SITE NAME: LOCK IT UP STORAGE



EXISTING



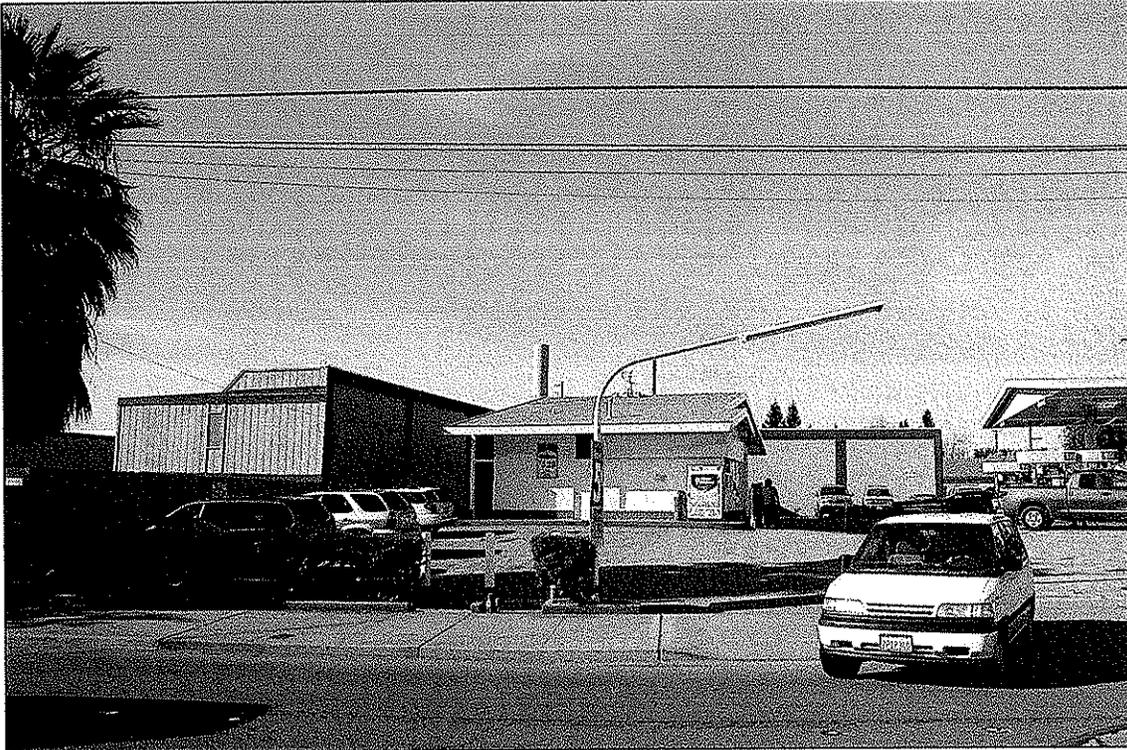
PROPOSED EAST ELEVATION



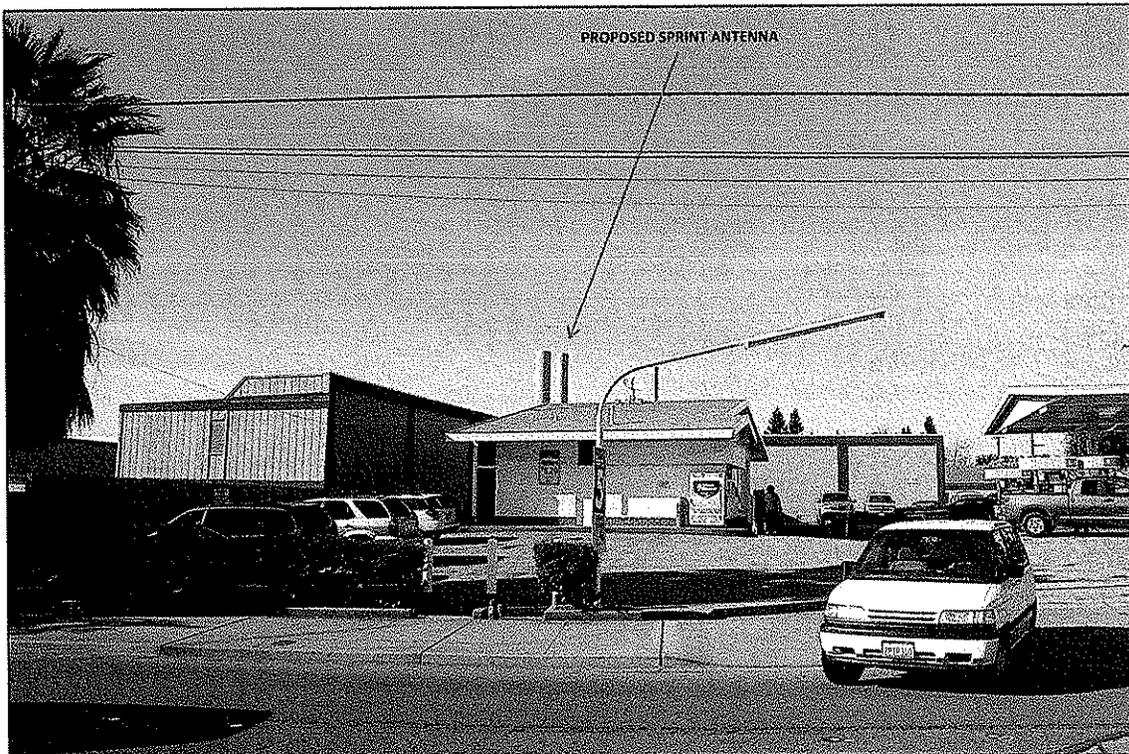
SITE NUMBER: FS04XC176

15 DIXON LANDING ROAD, MILPITAS, CA 95035

SITE NAME: LOCK IT UP STORAGE



EXISTING



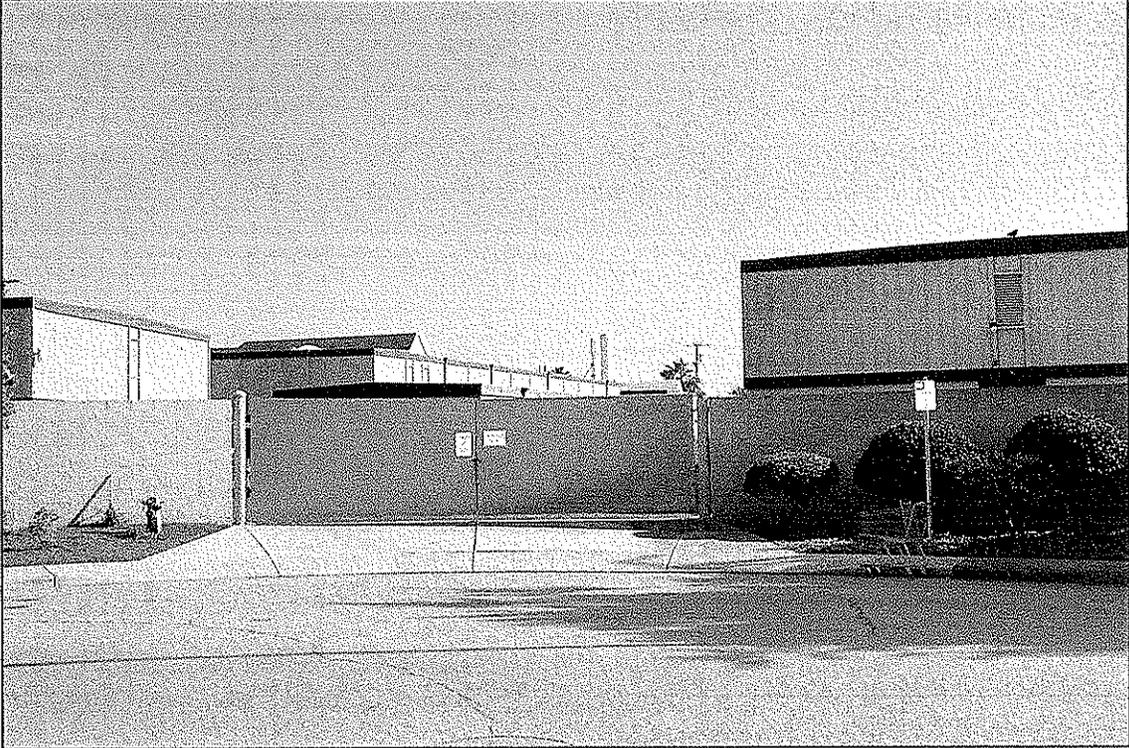
PROPOSED SOUTH EAST ELEVATION



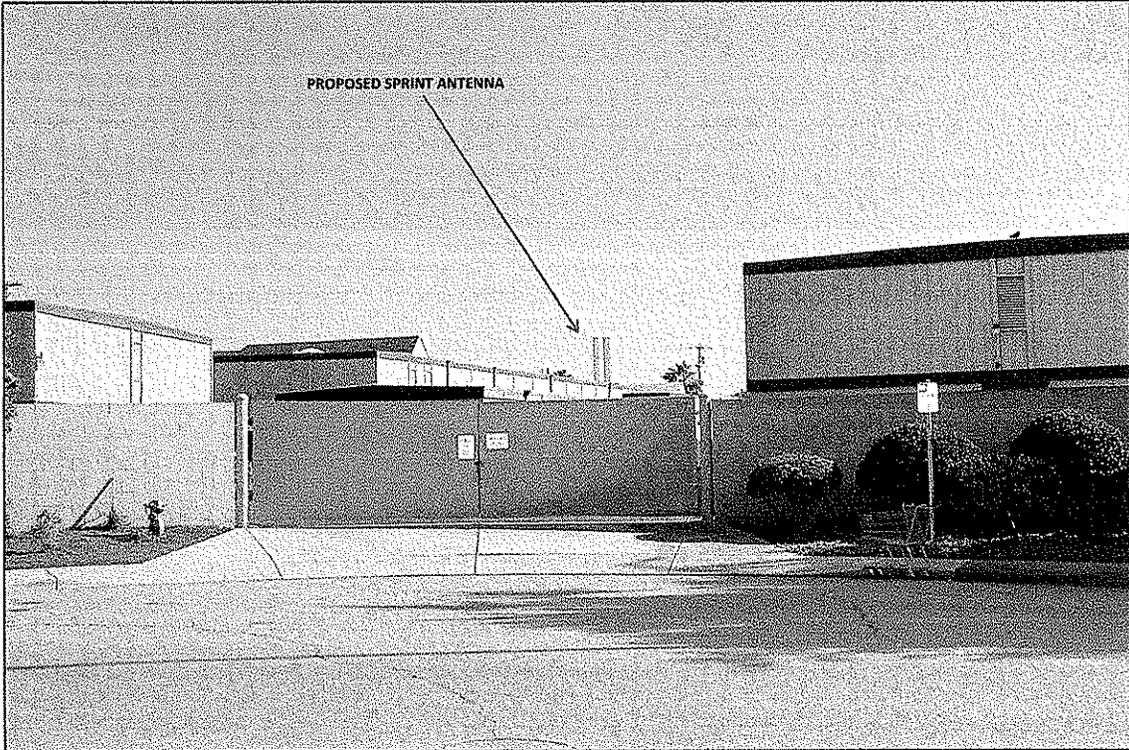
SITE NUMBER: FS04XC176

15 DIXON LANDING ROAD, MILPITAS, CA 95035

SITE NAME: LOCK IT UP STORAGE



EXISTING



PROPOSED NORTH EAST ELEVATION

Sprint

Sprint – Network Supplier Performance Management
KSOPHD0204
6220 Sprint Parkway
Overland Park, KS 66251

October 5, 2011

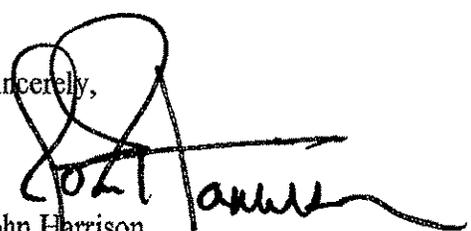
Subject: FCC Licenses for Sprint Mobile Broadband Services

To Whom It May Concern:

Sprint is presently undertaking a project to modify existing equipment at our cell site facilities to keep pace with customer demands for enhanced wireless voice and data services. Sprint currently holds nearly 40,000 spectrum licenses issued by the FCC authorizing operations in multiple frequency bands. As part of this effort, Sprint intends to deploy frequencies across multiple Sprint-owned spectrum bands, as well as the 1.6 Ghz band which is licensed to LightSquared by the FCC. Sprint has entered into a spectrum lease agreement with LightSquared. Sprint will own, operate and maintain all of the cell site equipment used to transmit/receive the 1.6 MHz leased spectrum.

For your reference we have provided a copy of the applicable FCC license (Call Sign: S2358) which was first granted to LightSquared on March 1, 2010.

Sincerely,



John Harrison
Vice President

PCS SITE AGREEMENT

ORIGINAL

FS04XC176

Site Name Lock It Up Storage Milpitas

Site I.D. fs06xc176

1. Property and Use. Owner is the owner of the real property and improvements described in Exhibit A ("Property") and hereby leases to Sprint Spectrum, L.P., a Delaware limited partnership ("SSLP"), the site described below:

[Check appropriate box(es)]

- Real property consisting of approximately 350 square feet of land;
Building interior space consisting of approximately square feet;
Building exterior space for attachment of antennas;
Building exterior space for placement of base station equipment;
Tower antenna space;
Space required for cable runs to connect PCS equipment and antennas,

in the location(s) on the Property more particularly described on Exhibit B ("Site") together with a non-exclusive easement for reasonable access thereto and to the appropriate, in the discretion of SSLP, source of electric and telephone facilities. The Site will be used by SSLP for the purpose of installing, removing, replacing, maintaining and operating, at its expense, a personal communications service system facility ("PCS"), including, without limitation, related antenna equipment and fixtures. SSLP will use the Site in a manner which will not unreasonably disturb the occupancy of Owner's other tenants.

Owner agrees to permit SSLP free ingress and egress to the Site to conduct such surveys, structural strength analysis, subsurface boring tests and other activities of a similar nature as SSLP may deem necessary at the sole cost of SSLP.

2. Term. The term of this Agreement (the "Initial Term") is five years, commencing on the earlier of (a) the date which is 30 days after the issuance of a building permit for installation of the PCS, or (b) the first day of the month following commencement of construction of the PCS ("Commencement Date"). This Agreement will be automatically renewed for four additional terms (each a "Renewal Term") of five years each, unless SSLP provides Owner notice of intention not to renew not less than ninety days prior to the expiration of the Initial Term or any Renewal Term.

3. Rent. Rent will be paid annually in advance beginning on the Commencement Date and on each anniversary of it. The annual rent will be prorated for partial years to be prorated. The annual rent for each Renewal Term will be the annual rent in effect for the final year of the Initial Term or prior Renewal Term, as the case may be, increased by twenty percent (20%).

4. Title and Quiet Possession. Owner represents and agrees (a) that it is the Owner of the Site; (b) that it has the right to enter into this Agreement; (c) that the person signing this Agreement has the authority to sign; (d) that SSLP is entitled to access to the Site at all times and to the quiet possession of the Site throughout the Initial Term and each Renewal Term so long as SSLP is not in default beyond the expiration of any cure period; and (e) that Owner shall not have unsupervised access to the Site or to the PCS equipment.

5. Assignment/Subletting. SSLP will not assign or transfer this Agreement or sublet all or any portion of the Site without the prior written consent of Owner, which consent will not be unreasonably withheld, delayed or conditioned; provided, however, SSLP may assign or sublet without Owner's prior written consent to its general partner or to any party controlling, controlled by or under common control with SSLP or to any party which acquires substantially all of the assets of SSLP.

6. Notices. All notices must be in writing and are effective when deposited in the U.S. mail, certified and postage prepaid, to the address set forth below or as otherwise provided by law.

7. Improvements. SSLP may, at its expense, make such improvements on the Site as it deems necessary from time to time for the operation of a transmitter site for wireless voice and data communications. Owner agrees to cooperate with SSLP with respect to obtaining any required zoning approvals, or other governmental approvals or permits for the Site and such improvements. Upon termination or expiration of this Agreement, SSLP may remove its equipment and improvements and will restore the Site to the condition existing on the Commencement Date, except for ordinary wear and tear.

8. Compliance with Laws. Owner represents that the Property (including the Site), and all improvements located thereon, are and shall remain in substantial compliance with building, life/safety, disability and other laws, codes and regulations of applicable governmental authorities. SSLP will substantially comply with all applicable laws directly relating to SSLP's operation of the PCS and the improvements constructed by SSLP at the Site.

9. Interference. SSLP will resolve technical interference problems with other equipment that is located at the Site as of the Commencement Date or with any equipment that SSLP attaches to the Site from time to time in its sole discretion. Owner will not permit the installation of any future equipment which results in technical interference problems with SSLP's then existing equipment.

10. Utilities. Owner represents that utilities adequate for SSLP's use of the Site are available. SSLP will pay for all utilities used by it at the Site. Owner will cooperate with SSLP in SSLP's efforts to obtain utilities from any location provided by Owner or the servicing utility.

11. Termination. SSLP may terminate this Agreement at any time by notice to Owner without further liability if SSLP does not obtain all permits, consents, easements, non-disturbance agreements, or other approvals (collectively, "approval") reasonably desired by SSLP or required from any governmental authority or any third party related to or reasonably necessary to operate the PCS system, or if any such approval is canceled, expires or is withdrawn or terminated, or if Owner

Version 3.0

fails to have proper ownership of the Site or authority to enter into this Agreement, or if SSLP, for any other reason, in its sole discretion, determines that it will be unable to use the Site for its intended purpose. Upon termination, all prepaid rent shall be retained by Owner.

12. Default. If either party is in default under this Agreement for a period of (a) ten days following receipt of notice from the non-defaulting party with respect to a default which may be cured solely by the payment of money, or (b) thirty days following receipt of notice from the non-defaulting party with respect to a default which may not be cured solely by the payment of money, then, in either event, the non-defaulting party may pursue any remedies available to it against the defaulting party under applicable law, including, but not limited to, the right to terminate this Agreement. If the non-monetary default may not reasonably be cured within a thirty day period, this Agreement may not be terminated if the defaulting party commences action to cure the default within such thirty day period and proceeds with due diligence to fully cure the default.

13. Indemnity. Owner and SSLP each indemnifies the other against and holds the other harmless from any and all costs (including reasonable attorney's fees) and claims of liability or loss which arise out of the use and/or occupancy of the Site by the indemnifying party. This indemnity does not apply to any claims arising from the sole negligence or intentional misconduct of the indemnified party.

14. Hazardous Substances. Owner represents that it has no knowledge after reasonable inquiry, of any substance, chemical or waste (collectively, "substance") on or under the Site or Property that is identified as hazardous, toxic or dangerous in any applicable federal, state or local law or regulation. SSLP shall not introduce or use any such substance on the Site in violation of any applicable law. Owner shall indemnify and hold SSLP harmless from and against all claims, actions, damages, fines, liabilities, costs and expenses (including attorneys and expert fees) arising, directly or indirectly, from the presence of any substance on, under or around the Property or the Site (including any migration) unless and until Owner conclusively proves said substance was actually brought onto the Property or Site by SSLP's affirmative acts (as opposed to failure to act). This obligation to indemnify SSLP shall include damages, costs and expenses incurred in connection with any investigation, cleanup, remediation, monitoring, removal or restoration related to the presence of any substance. This indemnity shall survive the expiration or termination of this lease.

15. Miscellaneous. (a) This Agreement applies to and binds the heirs, successors, executors, administrators and assigns of the parties to this Agreement; (b) This Agreement is governed by the laws of the State in which the Site is located; (c) If requested by SSLP, Owner agrees promptly to execute and deliver to SSLP a recordable Memorandum of this Agreement in the form of Exhibit C; (d) This Agreement (including the Exhibits) constitutes the entire agreement between the parties and supersedes all prior written and verbal agreements, representations, promises or understandings between the parties. Any amendments to this Agreement must be in writing and executed by both parties; (e) If any provision of this Agreement is invalid or unenforceable with respect to any party, the remainder of this Agreement or the application of such provision to persons other than those as to whom it is held invalid or unenforceable, will not be affected and each provision of this Agreement will be valid and enforceable to the fullest extent permitted by law; and (f) The prevailing party in any action or proceeding in court or mutually agreed upon arbitration proceeding to enforce the terms of this Agreement is entitled to receive its reasonable attorney's fees and other reasonable enforcement costs and expenses from the non-prevailing party.

The following Exhibits are attached to and made a part of this Agreement: Exhibit A, B, C and D.

OWNER: D/M Associates

By: [Signature]

Its: General Partner

Address: 275 Saratoga Avenue, Suite 105, Santa Clara, Ca 95050

Date: 7-24-96

SPRINT SPECTRUM, L.P. a Delaware limited partnership

By: [Signature] DIRECTOR

Its: 4883 CHABOT DRIVE, SUITE 100, PLEASANTON, CA 94588

Address: Date: 7/24/96

See attached Continuation of Owner Signatures

* Please see attached First Amendment to PCS Site Agreement. 2/19/96

City of Milpitas
Planning Division
455 E. Calaveras Blvd.
Milpitas, CA 95035
(408) 586-3279

Questionnaire for Telecommunication Facility Providers

All applicants requesting to install telecommunications facilities within the City of Milpitas must complete this questionnaire as part of their use permit application submittal.

Applicant Name: Liz Johnson - Black Dot Wireless for Sprint/Nextel
Applicant Address: 44632 Hwy. 49, Ahwahnee, CA 93601
Applicant Phone: 559-642-2353 Applicant Fax: 559-642-2037
Applicant e-mail address: liz@sti.net

Location of Project: 15 Wilson Way aka 15 Dixon Landing Rd.

Is this an existing facility or a Co-Location? Yes No Previous Owner: _____

If yes, are you using the same technology? Yes No

Date previously approved by the Telecommunications Commission: 11-13-96

Provide a brief description of project (Telecommunications Facility): Replacing antennas on rooftop, adding coax, remote radio units and related equipment. Adding radome to conceal antennas. Replacing & removing cabinets.

1. Please indicate below the frequency range you plan to use?

- VHF Low-Band (30-50 Mhz or 72-76 Mhz)
- VHF High-Band (136-174 Mhz or 220-222 Mhz)
- UHF or T-Band (406-420 Mhz or 450-470 Mhz or 470-512 Mhz)
- 800 or 900 Mhz Band (800-960 except 900 Mhz Spread Spectrum)
- 900 Mhz Spread Spectrum (902-928 Mhz)
- Other than specified above (State frequency band in Mhz). Describe: 800 MHz & 1900 MHz

2. Please indicate below the channel/system proposed for use?

- A single channel
- Multiple channel
- A frequency agile system
- A spread spectrum system
- Other: _____

3. Please indicate below the frequency range you plan to use?

- Narrow band (± 5 Khz or less deviation)
- Broad band (greater than ± 5 Khz deviation)
- Spread Spectrum
- Other: 1930.625 - 1940.625; 1850.625 - 1860.625; 862 - 869; 817 - 824 MHz

4. What will the effective radiated power (ERP) be when all channels at your proposed site are radiating?
500 Watts for 800 MHz; 3500 Watts for 1900
5. Will the site be in compliance with current ANSI radiation health standards? Yes No
6. What horizontal radiation pattern is planned for this project?
 Omnidirectional
 X Sected
 Directional (provide half power beam width) _____
7. What will the vertical radiation angle (half power beam width) be for your proposed antenna(s)?
5° - 1900 MHz; 12° - 800 MHz
8. How high above the local terrain (e.g., surrounding structures) will the center of radiation of your proposed antenna(s) be? 30 feet
9. How close to your proposed project is the nearest roadway 135' feet/miles and, if elevated, what is the roadway's height above the local terrain? N/A feet
10. How close to your proposed project is the nearest regularly occupied building and how high is the top floor above local terrain? 265' - 1 story
11. What is the distance to the nearest existing radio communications or broadcast antenna(s) if less than 1/2 mile? None feet/miles. If known, identify owner/operator: _____
12. What is the status of your FCC license grant? Active
 (Include a copy of the license with submittal of this questionnaire.)

NOTE: The below listed items are required by the applicant as part of this submittal if required to go to the Telecommunications Commission:

- a) Provider's build-out map* showing all sites anticipated within Milpitas (see question no. 2)
- b) Photo simulations** of antenna(s) as viewed from at least three surrounding view points. Show "worst case" vantage points.
- c) List of all sites that were investigated** for a particular search ring and the reasons why they were discarded. Include names and phone numbers of persons contacted regarding potential sites.
- d) Copy of applicants Power Density Study* (see item no. 4).

* 20 copies (Telecommunication Commission)
 ** 35 copies (Telecommunication Commission & Planning Commission)

Back of
Telecommunication Questionnaire

REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.



Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: LIGHTSQUARED SUBSIDIARY LLC

ATTN: MR JEFFREY J CARLISLE
 LIGHTSQUARED SUBSIDIARY LLC
 10802 PARKRIDGE BLVD
 RESTON, VA 20191

Call Sign S2358	File Number
Radio Service TC - MSS Ancillary Terrestrial Component (ATC) Leasing	

FCC Registration Number (FRN): 0005883996

Grant Date 03-01-2010	Effective Date 03-01-2010	Expiration Date 11-13-2025	Print Date
Market Number NWA255	Channel Block	Sub-Market Designator 0	
Market Name U.S. and Possessions			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select "License Search". Follow the instructions on how to search for license information.

Radio Frequency – Electromagnetic Energy (RF-EME) Compliance Report



Prepared for:
Sprint Nextel
c/o Black & Veatch Corporation
2999 Oak Rd. Suite 910
Walnut Creek, CA 94597

Site No. FS04XC176
Lock-It-Up Storage
15 Wilson Way
Milpitas, California 95035
Santa Clara County
37.457871; -121.912051 NAD83
rooftop

EBI Project No. 62120499
March 16, 2012



EXECUTIVE SUMMARY

Purpose of Report

EnviroBusiness Inc. (dba EBI Consulting) has been contracted by Sprint Nextel to conduct radio frequency electromagnetic (RF-EME) modeling for Sprint Site FS04XC176 located at 15 Wilson Way in Milpitas, California to determine RF-EME exposure levels from existing and proposed Sprint wireless communications equipment at this site. As described in greater detail in Section 11.0 of this report, the Federal Communications Commission (FCC) has developed Maximum Permissible Exposure (MPE) Limits for general public exposures and occupational exposures. This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields.

This report contains a detailed summary of the RF EME analysis for the site.

This document addresses the compliance of Sprint's proposed transmitting facilities independently and in relation to all collocated facilities at the site.

1.0 LOCATION OF ALL EXISTING ANTENNAS AND FACILITIES AND EXISTING RF LEVELS

This project involves the removal of three (3) existing antennas to be replaced with three (3) proposed Sprint wireless telecommunication antennas on a rooftop located at 15 Wilson Way in Milpitas, California. There are three Sectors (A, B, and C) proposed to be replaced at the site, with one (1) antenna that may be re-installed per sector.

Based on drawings, there is a radome containing an unknown carrier's antennas on the rooftop occupied by the Sprint antennas. Review of aerial photography did not identify the radome or any other carrier's antennas. These antennas were not included in the modeling analysis.

2.0 LOCATION OR ALL APPROVED (BUT NOT INSTALLED) ANTENNAS AND FACILITIES AND EXPECTED RF LEVELS FROM THE APPROVED FACILITIES

Although a radome containing antennas was identified on the rooftop in the drawings, EBI was unable to identify the locations and quantity of antennas within the radome. As such, the modeling is prepared using only Sprint's identified antennas at the time of this report.

3.0 NUMBER AND TYPES OF WTS WITHIN 100 FEET OF THE PROPOSED SITE AND ESTIMATES OF CUMULATIVE EMR EMISSIONS AT THE PROPOSED SITE

With the exception of the antennas mentioned in Section 1.0, there are no other Wireless Telecommunication Service (WTS) sites observed within 100 feet of the proposed site.

4.0 LOCATION AND NUMBER OF THE SPRINT ANTENNAS AND BACK-UP FACILITIES PER BUILDING AND NUMBER AND LOCATION OF OTHER TELECOMMUNICATION FACILITIES ON THE PROPERTY

This project involves the removal of three (3) existing antennas to be replaced with three (3) proposed Sprint wireless telecommunication antennas on a rooftop located at 15 Wilson Way in Milpitas, California. There are three Sectors (A, B, and C) proposed to be replaced at the site, with one (1) antenna that may be re-installed per sector. In each sector, there is proposed to be one antenna transmitting in the 800 MHz and the 1900 MHz frequency ranges. The Sector A antenna will be oriented 0° from true north. The Sector B antenna will be oriented 105° from true north. The Sector C antenna will be oriented 240° from true north. The bottoms of the Sector A and B antennas will be 9 feet above the rooftop and the bottom of the Sector C antenna will be 6 feet above the rooftop.

Based on drawings, there is a radome containing an unknown carrier's antennas on the rooftop occupied by the Sprint antennas. Review of aerial photography did not identify the radome or any other carrier's antennas. These antennas were not included in the modeling analysis.

5.0 POWER RATING FOR ALL EXISTING AND PROPOSED BACKUP EQUIPMENT SUBJECT TO THE APPLICATION

The operating power for modeling purposes was assumed to be 20 Watts per transmitter for the 800 MHz antenna and there will be one (1) transmitter operating at this frequency. Additionally, for modeling purposes it was assumed to be 20 Watts per transmitter and five (5) transmitters operating at the 1900 MHz.

11.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS

The FCC has established Maximum Permissible Exposure (MPE) limits for human exposure to Radiofrequency Electromagnetic (RF-EME) energy fields, based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc. (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general public/uncontrolled exposure limits for members of the general public.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general public/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

General public/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Table I and Figure I (below), which are included within the FCC's OET Bulletin 65, summarize the MPE limits for RF emissions. These limits are designed to provide a substantial margin of safety. They vary by frequency to take into account the different types of equipment that may be in operation at a particular facility and are "time-averaged" limits to reflect different durations resulting from controlled and uncontrolled exposures.

The FCC's MPEs are measured in terms of power (mW) over a unit surface area (cm²). Known as the power density, the FCC has established an occupational MPE of 5 milliwatts per square centimeter (mW/cm²) and an uncontrolled MPE of 1 mW/cm² for equipment operating in the 1900 MHz frequency range. For the Sprint equipment operating at 800 MHz, the FCC's occupational MPE is 2.66 mW/cm² and an uncontrolled MPE of 0.53 mW/cm². These limits are considered protective of these populations.

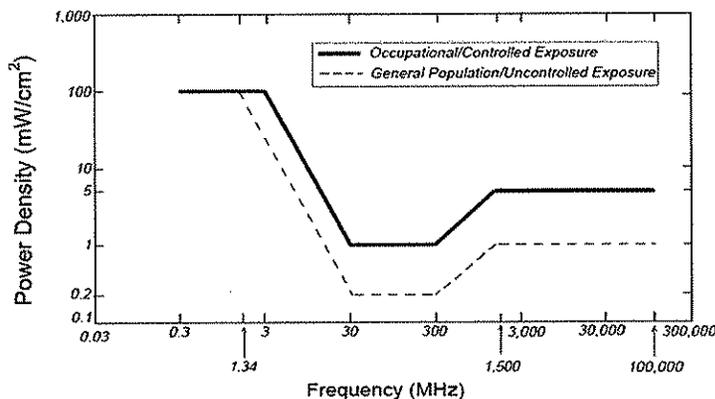
Table I: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6

Table I: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
1,500-100,000	--	--	5	6
(B) Limits for General Public/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

f = Frequency in (MHz)

* Plane-wave equivalent power density

Figure 1. FCC Limits for Maximum Permissible Exposure (MPE)
 Plane-wave Equivalent Power Density



Based on the above, the most restrictive thresholds for exposures of unlimited duration to RF energy for several personal wireless services are summarized below:

Personal Wireless Service	Approximate Frequency	Occupational MPE	Public MPE
Personal Communication (PCS)	1,950 MHz	5.00 mW/cm ²	1.00 mW/cm ²
Cellular Telephone	870 MHz	2.90 mW/cm ²	0.58 mW/cm ²
Specialized Mobile Radio	855 MHz	2.85 mW/cm ²	0.57 mW/cm ²
Most Restrictive Freq. Range	30-300 MHz	1.00 mW/cm ²	0.20 mW/cm ²

MPE limits are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

Personal Communication (PCS) facilities used by Sprint in this area operate within a frequency range of 800-1900 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of areas directly in front of the antennas.

Statement of Compliance

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

12.0 LIMITATIONS

This report was prepared for the use of Sprint Nextel. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by EBI are based solely on the information provided by the client. The observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to EBI so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made

13.0 SUMMARY AND CONCLUSIONS

EBI has prepared this Radiofrequency Emissions Compliance Report for the proposed Sprint telecommunications equipment at the site located at 15 Wilson Way in Milpitas, California.

EBI has conducted theoretical modeling to estimate the worst-case power density from Sprint antennas to document potential MPE levels at this location and ensure that site control measures are adequate to meet FCC and OSHA requirements. As presented in the preceding sections, based on worst-case predictive modeling, the worst-case emitted power density may exceed the FCC's general public limit within approximately 2 feet of the proposed Sprint antennas at the main roof level. Modeling also indicates that the worst-case emitted power density does not exceed the FCC's occupational limit in front of the proposed Sprint antennas at the main roof level.

Signage is recommended at the site as presented in Section 9.0. Posting of the signage and installation of the recommended barriers brings the site into compliance with FCC rules and regulations.

Appendix A

Certifications

Reviewed and Approved by:



A handwritten signature in black ink that reads "H. Stockinger".

Herbert J. Stockinger, PE
Senior Engineer

Note that EBI's scope of work is limited to an evaluation of the Radio Frequency – Electromagnetic Energy (RF-EME) field generated by the antennas and broadcast equipment noted in this report. The engineering and design of the building and related structures, as well as the impact of the antennas and broadcast equipment on the structural integrity of the building, are specifically excluded from EBI's scope of work.

Preparer Certification

I, Glenn Gould, state that:

- I am an employee of EnviroBusiness Inc. (d/b/a EBI Consulting), which provides RF-EME safety and compliance services to the wireless communications industry.
- I have successfully completed RF-EME safety training, and I am aware of the potential hazards from RF-EME and would be classified "occupational" under the FCC regulations.
- I am familiar with the FCC rules and regulations as well as OSHA regulations both in general and as they apply to RF-EME exposure.
- I have reviewed the data provided by the client and incorporated it into this Site Compliance Report such that the information contained in this report is true and accurate to the best of my knowledge.



Appendix B
Roofview® Export File

