



MILPITAS PLANNING COMMISSION AGENDA REPORT

PUBLIC HEARING

Meeting Date: April 11, 2011

APPLICATION: Conditional Use Permit Amendment No. UA12-0003, Black Dot Wireless

APPLICATION SUMMARY: A request to modify an existing wireless telecommunication facility to allow for the removal of three existing panel antennas and installation of three new panel antennas and associated ground mounted equipment. The project would also provide co-location for three future panel antennas.

LOCATION: 1220 Pecten Court (APN 92-08-018)
APPLICANT: Liz Johnson, Black Dot Wireless, 44632 Hwy 49 Ahwahnee, CA 943601
OWNER: San Jose Water Works, Care of: Accounting Department, 374 W. Santa Clara St., San Jose, CA 95113

RECOMMENDATION: **Staff recommends that the Planning Commission: Adopt Resolution No. 12-017 approving the project subject to conditions of approval.**

PROJECT DATA:
General Plan/
Zoning Designation: Manufacturing and Warehousing (MW)/Heavy Industrial (M2)
Overlay District: Site and Architectural Overlay
Specific Plan: N/A

Site Area: 1.00 Acre
Existing Structure Height: 50-feet
Existing Number of Antennas: 6
Proposed Number of Antennas: 9

CEQA Determination: Categorical Exempt Pursuant to Class 1, Section 15301 (Existing Facilities) of the California Environmental Quality Act.

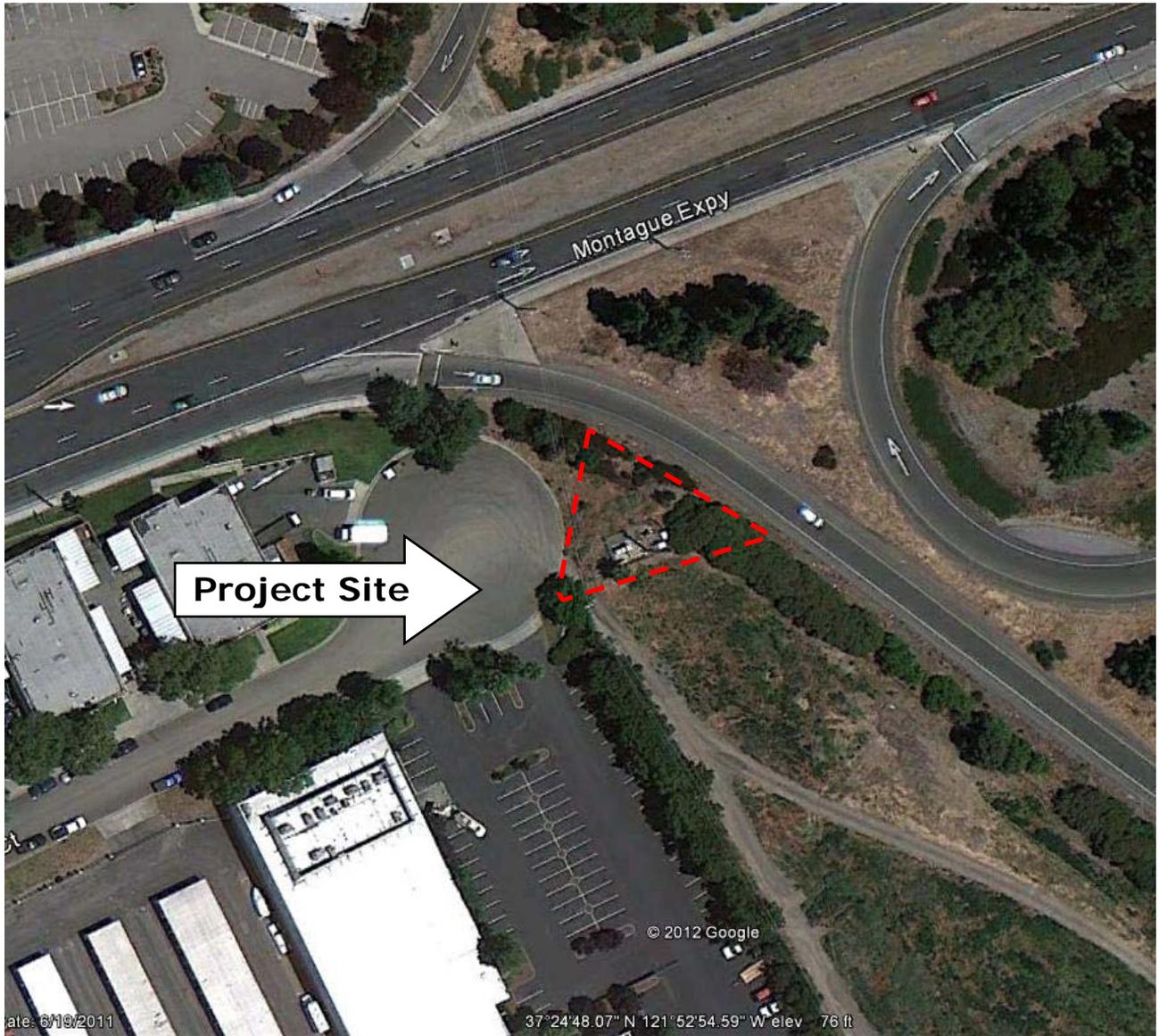
PLANNER: Cindy Hom, Assistant Planner

PJ: PJ 2803

ATTACHMENTS: A. Resolution/Conditions of Approval

- B. Project Plans
- C. Power Density Study
- D. Photo Simulations
- E. Telecommunication Questionnaire

LOCATION MAP



No scale

BACKGROUND

In December 1996, the Planning Commission approved the installation of a monopole wireless telecommunication facility on a vacant undeveloped parcel. The wireless telecommunication facility consisted of nine panel antennas and a 560 square foot equipment enclosure.

On February 15, 2012, Liz Johnson with Black Dot Wireless submitted a conditional use permit amendment application to remove and replace three existing Sprint panels and with three new panels that allow for 4th Generation (4G) technology and co-location for three future panels. The proposed 4G Technology has more bandwidth and services that allows for transmission of data such as high quality audio/video streaming over end to end Internet. The project proposal also includes replacement of ground mounted equipment cabinet within an existing chain-link equipment enclosure. The application is submitted pursuant to Milpitas Municipal Code (MMC) XI-10-13.09 (Wireless Communication Facilities). Wireless communication facilities and structures exceeding three stories or 35-feet in the industrial zones that are not considered stealth by definition require Planning Commission review and approval

PROJECT DESCRIPTION

The project site is a 1-acre vacant undeveloped parcel. The site is located at the southerly terminus of Pecten Court, adjacent to the Interstate 680 on-ramp. Surrounding land uses include industrial buildings and uses to the west and north, I-680 to the east and the remaining San Jose Water Company continues on to the south. A vicinity map of the subject site location is included on the previous page.

Development Standards

The project proposes no changes to the existing height of the existing 50-foot tall monopole, setbacks, and or lot coverage. There is no height restriction in the Heavy Industrial zone, however, any structure exceeding three stories or 35-feet in height must obtain Planning Commission approval. The proposed antenna panels would remain at the same antenna RAD height of 40-feet as the existing Sprint antennas. The project would be consistent with the height standard with approval of this conditional use permit.

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 1
General Plan Consistency

Policy	Consistency Finding
<i>Implementing Policies 2.a-I-7 Provide opportunities to expand employment, participate in partnerships with local business to facilitate communication, and</i>	The proposed project provides 4G technology that improves wireless service that supports surrounding businesses, residents, and facilitates communication.

<i>promote business retention.</i>	
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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 conditional uses in all zoning districts. The project is also consistent with the development standards for the Heavy Industrial zone.

The project is not anticipated to create any negative impacts to surrounding land uses in terms of noise, odors, or radio frequency emissions. The proposed facility will not minimize visual impacts in that the facility would be painted to will blend with the surrounding landscaping and that the equipment will be screened behind slatted fencing.

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.

Sprint is licensed by the FCC to operate specifically within the 800 MHz to 1900 MHz frequency bands. The effective radiate power (ERP) for various frequency bands are as follows:

- 800 MHz transmitter combined on site is 662 watts,
- 1600 MHz transmitter combined on site is 895 watts
- 1900 MHz transmitter combined on site it 6,929 watts

The emission from the proposed facility including other existing carriers is 6.30 % of the FCC's general public limit (1.12 percent of the FCC's occupational limit). The project fall below the most conservative standard for such radio frequency emissions and therefore complies with current FCC regulations. As a condition of approval, the applicant shall install signs to make people aware of the presence and locations of antennas and their associated fields.

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 project entails the removal three existing antennas and replacement of six panel antennas and associated ground mounted equipment at an existing wireless telecommunication facility.

Conclusion

The proposed facility will help provides for a reliable high speed wireless network that will enable businesses and individuals to access to the internet. The project will not be detrimental to public health or safety of persons working or residing in the neighborhood or materially injurious to public improvements and private properties in that it does not generate traffic, objectionable levels of noise, odors, or dust. The facility falls significantly below all state and federal regulations for emission of non-ionizing radiation. In addition, the general public will not able to access since the access is gated. As conditioned, appropriate signage will be displayed to inform workers and the general public about the presence and location of antennas and their associated fields.

RECOMMENDATION

STAFF RECOMMENDS THAT the Planning Commission adopt Resolution No. 12-017 approving Conditional Use Permit Amendment No. UA12-0003, subject to the attached Conditions of Approval.

Attachments:

- A. Resolution No. 12-017
- B. Project Plans
- C. Power Density Study
- D. Photo Simulations
- E. Telecommunication Questionnaire

RESOLUTION NO. 12-017

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF MILPITAS, CALIFORNIA, APPROVING CONDITIONAL USE PERMIT NO. UA12-0003, BLACK DOT WIRELESS, A REQUEST TO REMOVE AND REPLACE PANEL ANTENNAS AND ASSOCIATED GROUND-MOUNTED EQUIPMENT FOR AN EXISTING WIRELESS TELECOMMUNICATION FACILITY LOCATED AT 1220 PECTEN COURT.

WHEREAS, on February 15, 2012, a conditional use permit amendment application was submitted by Liz Johnson with Black Dot Wireless Inc., to remove and replace existing panel antennas and associated ground mounted equipment located at 1220 Pecten Court (APN 9208-018). The property is located within the Heavy Industrial Zoning District; 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 is categorically exempt; and

WHEREAS, on April 11, 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 Class 1, Section 15301 (Existing Facilities) and Class 3, Section 15303 (New Construction) in that the project entails the removal of three existing panel antennas and installation of three new panel antennas and associated ground mounted equipment. The project also proposes co-location for three future panel antennas that would be installed at a later date.

Section 3: The project is consistent with the Milpitas General Plan in that the project provides updated technology that improves wireless service that supports surrounding businesses, residents, and facilitates communication.

Section 4: The project conforms to the Milpitas Zoning Ordinance in that the project is permitted in the Heavy Industrial Zoning District with a conditional use permit. The project complies with the development standards in terms setbacks, lot coverage, and height. No additional parking is required considering the facility will be unmanned.

Section 5: The project will not be injurious or detrimental to property, improvements or to public health and safety in that it will not generate noise, odors, and will be within the

allowable radio frequency emissions threshold under federal law. As conditioned, the proposed facility will not create a negative visual impact or detract from the existing architecture in that the proposed wireless telecommunication facility will be painted to blend with surrounding landscaping. Associated equipment will be completed screen by a slatted chain link fence. .

Section 6: The Planning Commission of the City of Milpitas hereby approves Conditional Use Permit No. UA12-0003, Black Dot Wireless Inc., 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 April 11, 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 April 11, 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. UA12-0003, Black Dot Wireless Inc.
1220 PECTEN COURT (APN 92-08-018)
(Restated and revised original conditions)

Planning Division

1. The owner or designee shall develop the approved project in conformance with the plans approved by the Planning Commission on April 11, 2012, in accordance with these Conditions of Approval.

Any deviation from the approved site plan, floor plans, elevations, materials, colors, landscape plan, 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)**

2. Conditional Use Permit No. UA12-0003 shall become null and void if the project is not commenced within 18 months from the date of approval, pursuant to Section 64.06(2) of the Zoning Ordinance of the City of Milpitas. If the project requires the issuance of a building permit, the project shall be deemed to have commenced when the date of the building permit is issued and/or a foundation is completed, if a foundation is a part of the project. If the project does not require the issuance of a building permit, the project shall be deemed to have commenced when dedication of any land or easement is required or complies with all legal requirements necessary to commence the use, or obtains an occupancy permit, whichever is sooner. **(P)**

Pursuant to Section 64.06(1), the owner or designee shall have the right to request an extension of Conditional Use Permit No. UA12-0003 if said request is made, filed and approved by the Planning Commission prior to expiration dates set forth herein. **(P)**

3. The project shall be operated in accordance with all appropriate local, state and federal regulations and in conformance with the approved plans. **(P)**
4. The fencing of the equipment area shall include brown slats.
5. The color of the monopole and all existing and proposed antennas shall be painted a dark brown color. Paint colors shall be reviewed and approved by the Planning Division prior to installation of the structures, or prior to repainting of the structures. **(P)**

6. Prior to building permit issuance, the applicant/developer shall provide a landscaping and irrigation plan to allow for two trees and shrubbery to be planted around the equipment enclosure. (P)
7. The applicant shall perform annual inspections and perform necessary maintenance to ensure that the project maintains an aesthetic appearance in perpetuity. (P)
8. The applicant shall install appropriate signage or placard to inform workers and the general public about the presence and location of antennas and their associated fields. (P)
9. Private Job Account - If at the time of application for building permit there is a project job account balance due to the City for recovery of review fees, the review of permits will not be initiated until the balance is paid in full and there is at least 25% of the initial account balance maintained. (P)

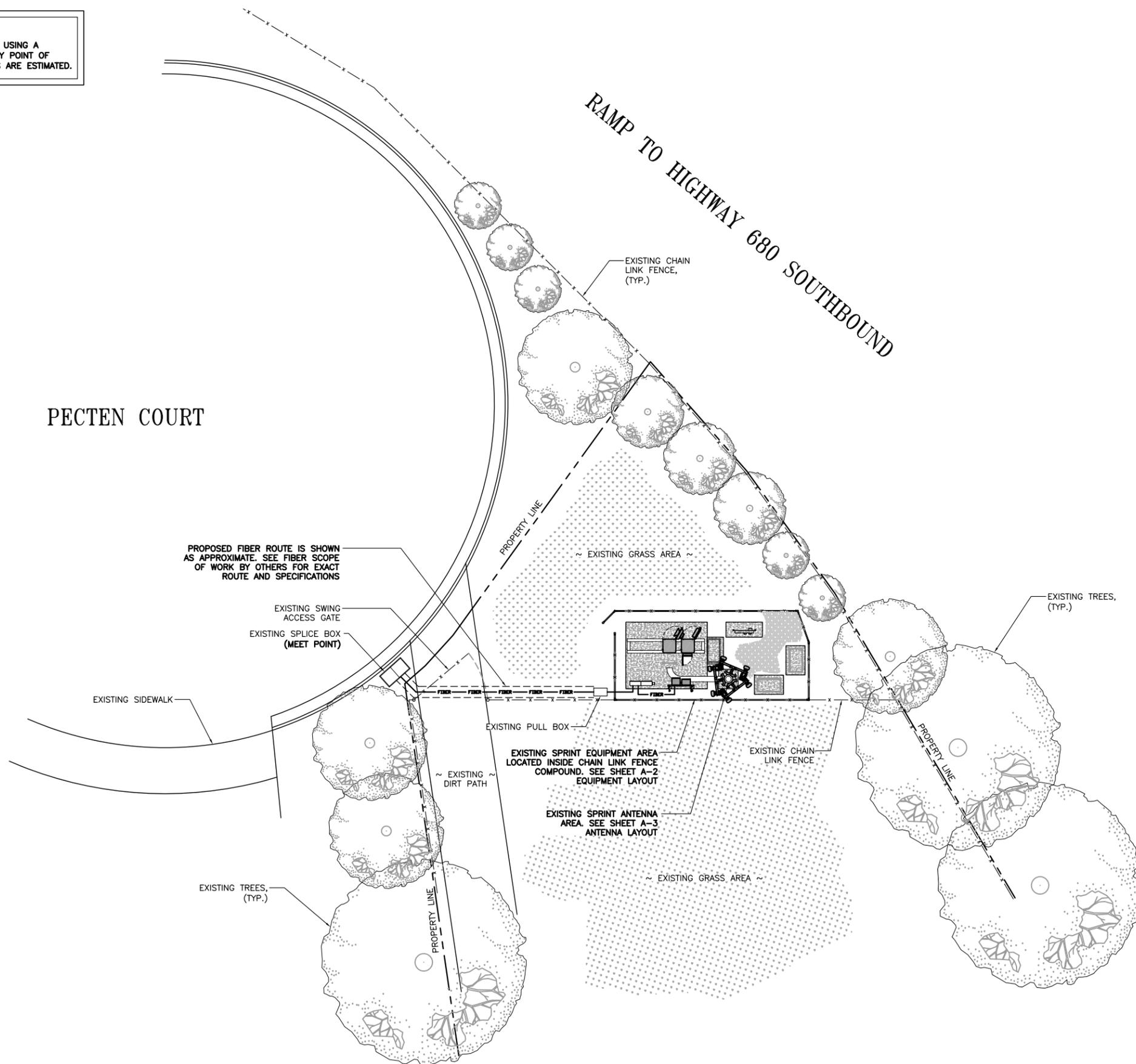
Planning = (P)

Engineering = (E)

Fire = (F)

Building = (B)

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 THIS PLANS ARE ESTIMATED.



PROJECT NO:	
DRAWN BY:	JSP
CHECKED BY:	MM

REV	DATE	DESCRIPTION
3	03/27/12	CITY COMMENTS
2	01/12/12	REMOVE 1.6 ANTENNA
1	12/12/11	100% ZONING DRAWING
0	11/09/11	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.

FS04XC191
 SAN JOSE WATER DISTRICT
 FLEURY STATION #244
 1220 PECTEN COURT
 MILPITAS, CA 95035

SHEET TITLE
 SITE PLAN

SHEET NUMBER
A-1

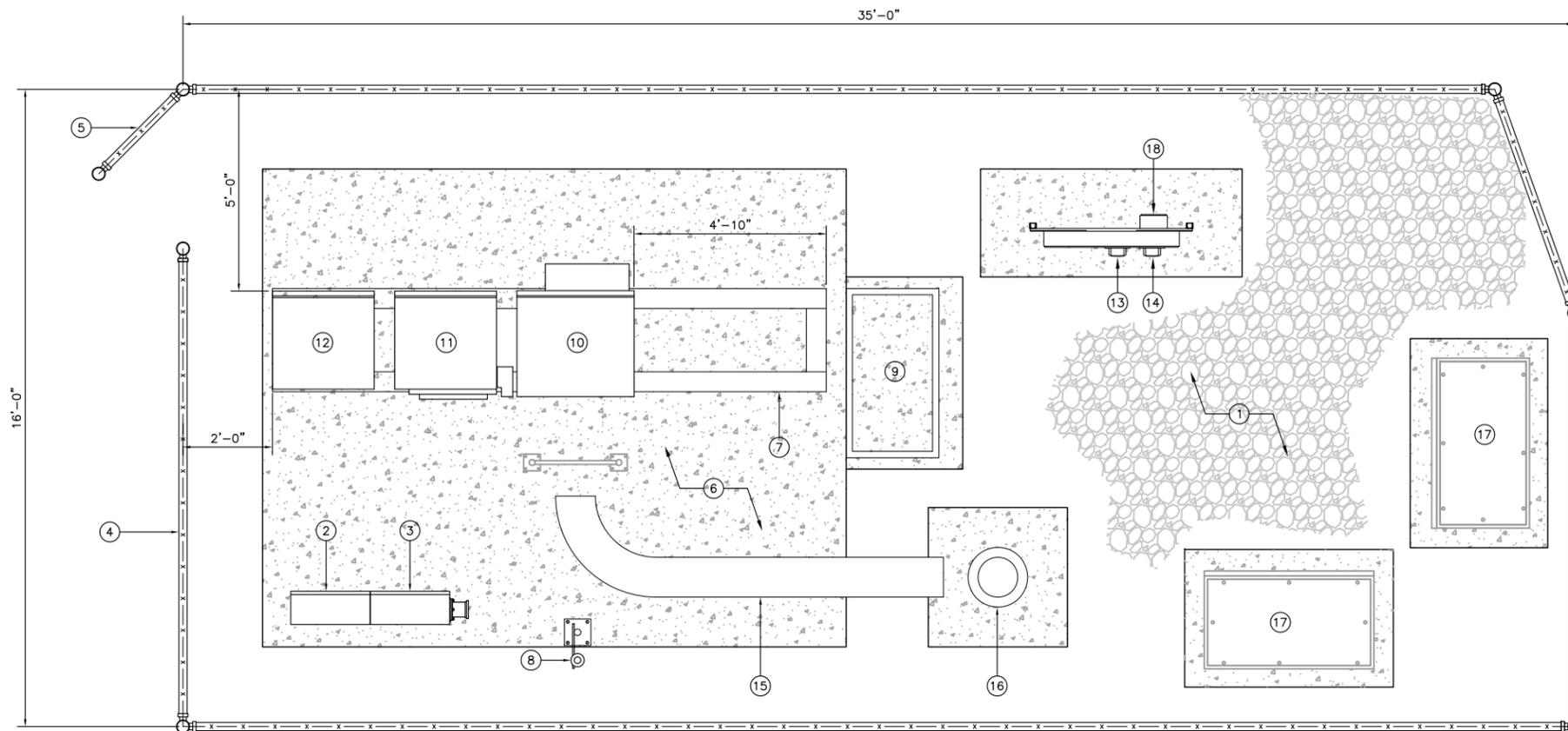




PROJECT NO:	
DRAWN BY:	JSP
CHECKED BY:	MM

KEYED NOTES:

- ① EXISTING GRAVEL AREA
- ② EXISTING SPRINT TELCO CABINET
- ③ EXISTING SPRINT 100A PPC CABINET TO BE UPGRADED TO 200A
- ④ EXISTING 6' HIGH CHAIN LINK FENCE
- ⑤ EXISTING 3' WIDE ACCESS GATE
- ⑥ EXISTING CONCRETE PAD
- ⑦ EXISTING STEEL BEAM SLEEPER
- ⑧ EXISTING SPRINT GPS ANTENNA
- ⑨ EXISTING EMPTY EQUIPMENT PAD
- ⑩ EXISTING SPRINT MODCELL EQUIPMENT CABINET
- ⑪ EXISTING SPRINT POWER CABINET
- ⑫ EXISTING SPRINT BBU CABINET
- ⑬ EXISTING SPRINT METER
- ⑭ EXISTING METER BY OTHERS
- ⑮ EXISTING SPRINT COAX CABLE TRAY
- ⑯ EXISTING MONOPOLE
- ⑰ EXISTING EQUIPMENT CABINET BY OTHERS
- ⑱ EXISTING DISCONNECT SWITCH

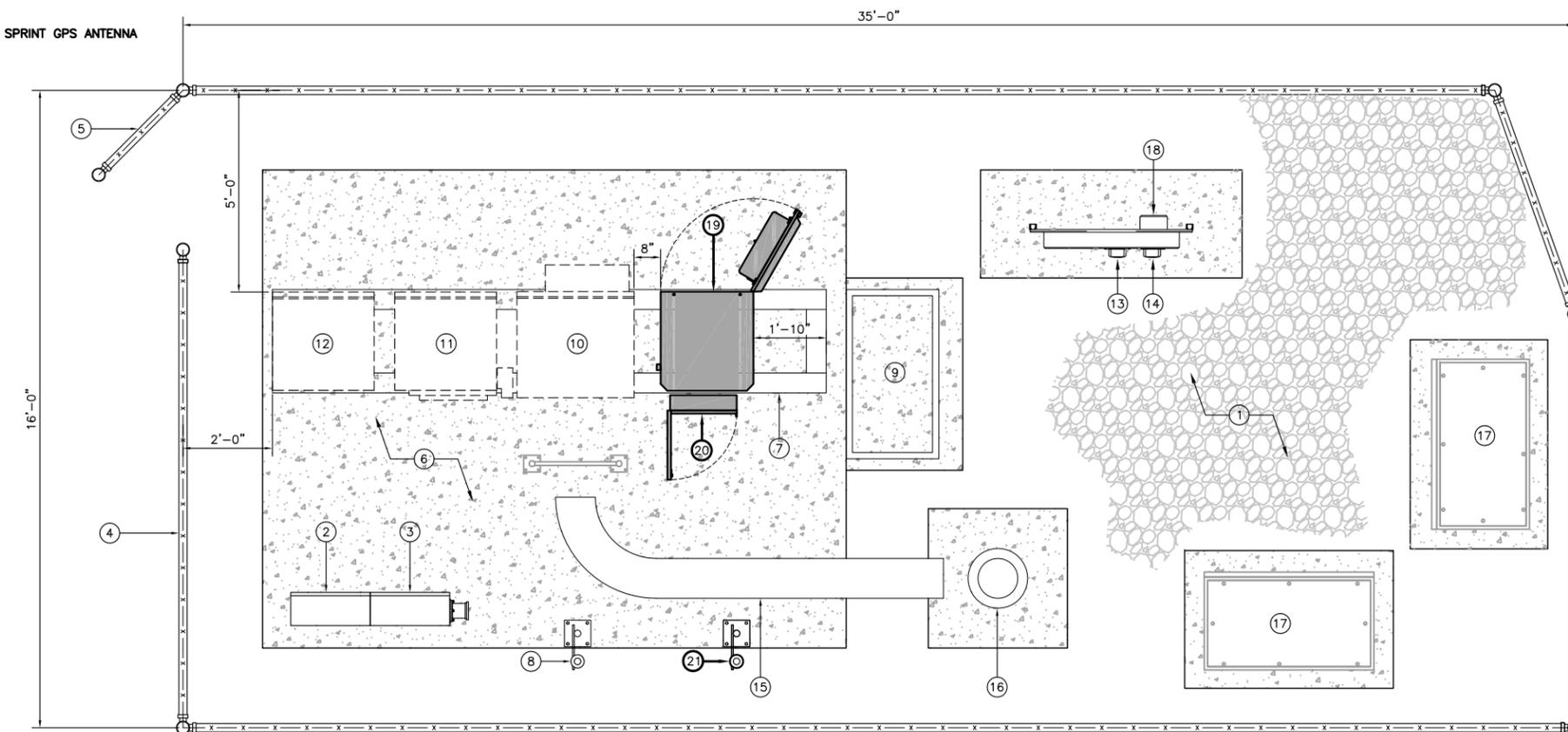


EXISTING EQUIPMENT LAYOUT PLAN

KEYED NOTES:

- ① EXISTING GRAVEL AREA
- ② EXISTING SPRINT TELCO CABINET
- ③ EXISTING SPRINT 100A PPC CABINET TO BE UPGRADED TO 200A
- ④ EXISTING 6' HIGH CHAIN LINK FENCE W/ PROPOSED BROWN SLATS INSTALLED
- ⑤ EXISTING 3' WIDE ACCESS GATE
- ⑥ EXISTING CONCRETE PAD
- ⑦ EXISTING STEEL BEAM SLEEPER
- ⑧ EXISTING SPRINT GPS ANTENNA
- ⑨ EXISTING EMPTY EQUIPMENT PAD
- ⑩ EXISTING SPRINT MODCELL EQUIPMENT CABINET TO BE REMOVED
- ⑪ EXISTING SPRINT POWER CABINET TO BE REMOVED
- ⑫ EXISTING SPRINT BBU CABINET TO BE REMOVED
- ⑬ EXISTING SPRINT METER
- ⑭ EXISTING METER BY OTHERS
- ⑮ EXISTING SPRINT COAX CABLE TRAY
- ⑯ EXISTING MONOPOLE
- ⑰ EXISTING EQUIPMENT CABINET BY OTHERS
- ⑱ EXISTING DISCONNECT SWITCH
- ⑲ PROPOSED SPRINT MMBS EQUIPMENT CABINET MOUNTED ON EXISTING STEEL SLEEPER
- ⑳ PROPOSED MUDROOM PANEL

⑲ PROPOSED SPRINT GPS ANTENNA



INTERIM EQUIPMENT LAYOUT PLAN

REV	DATE	DESCRIPTION
3	03/27/12	CITY COMMENTS
2	01/12/12	REMOVE 1.6 ANTENNA
1	12/12/11	100% ZONING DRAWING
0	11/09/11	90% ZONING DRAWING

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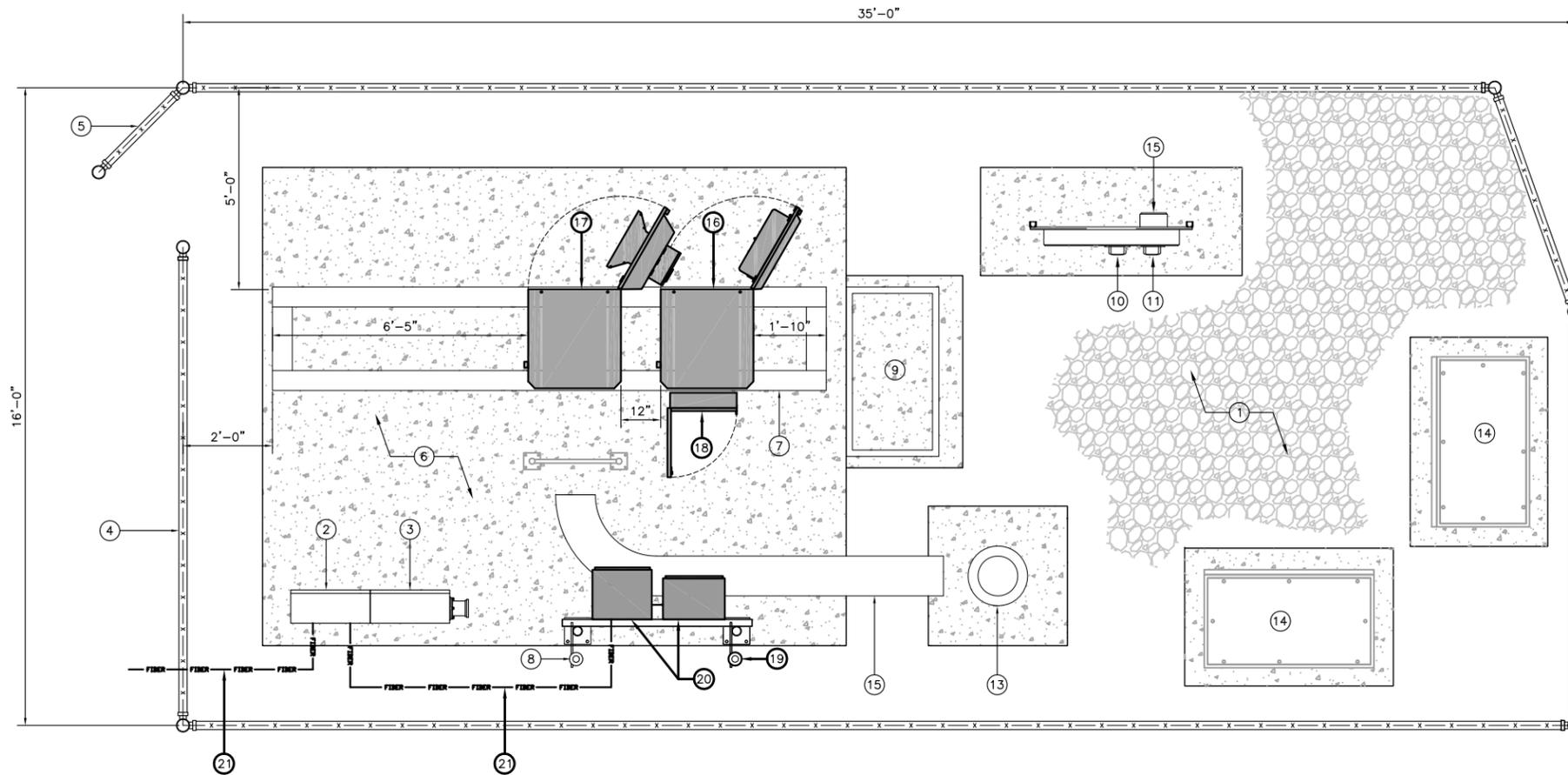
FS04XC191
SAN JOSE WATER DISTRICT
FLEURY STATION #244
1220 PECTEN COURT
MILPITAS, CA 95035

SHEET TITLE
EQUIPMENT LAYOUT PLANS

SHEET NUMBER
A-2

KEYED NOTES:

- ① EXISTING GRAVEL AREA
- ② EXISTING SPRINT TELCO CABINET
- ③ EXISTING SPRINT 100A PPC CABINET TO BE UPGRADED TO 200A
- ④ EXISTING 6' HIGH CHAIN LINK FENCE W/ PROPOSED BROWN SLATS INSTALLED
- ⑤ EXISTING 3' WIDE ACCESS GATE
- ⑥ EXISTING CONCRETE PAD
- ⑦ EXISTING STEEL BEAM SLEEPER
- ⑧ EXISTING SPRINT GPS ANTENNA
- ⑨ EXISTING EMPTY EQUIPMENT PAD
- ⑩ EXISTING SPRINT METER
- ⑪ EXISTING METER BY OTHERS
- ⑫ EXISTING SPRINT COAX CABLE TRAY
- ⑬ EXISTING MONOPOLE
- ⑭ EXISTING EQUIPMENT CABINET BY OTHERS
- ⑮ EXISTING DISCONNECT SWITCH
- ⑯ PROPOSED SPRINT MMBS EQUIPMENT CABINET MOUNTED ON EXISTING STEEL SLEEPER 3
D-2
- ⑰ PROPOSED SPRINT BBU EQUIPMENT CABINET MOUNTED ON EXISTING STEEL SLEEPER 4
D-2
- ⑱ PROPOSED MUDROOM PANEL
- ⑲ PROPOSED SPRINT GPS ANTENNA
- ⑳ PROPOSED F.T.P./NID AND UAM CABINET MOUNTED ON NEW H-FRAME
- ㉑ PROPOSED FIBER ROUTE IS SHOWN AS APPROXIMATE. SEE FIBER SCOPE OF WORK BY OTHERS FOR EXACT ROUTE AND SPECIFICATIONS



PROJECT NO:	
DRAWN BY:	JSP
CHECKED BY:	MM

REV	DATE	DESCRIPTION
3	03/27/12	CITY COMMENTS
2	01/12/12	REMOVE 1.6 ANTENNA
1	12/12/11	100% ZONING DRAWING
0	11/09/11	90% ZONING DRAWING

0 2' 4' SCALE
1/2" = 1'-0" **1**

PROPOSED EQUIPMENT LAYOUT PLAN

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FS04XC191
SAN JOSE WATER DISTRICT
FLEURY STATION #244
1220 PECTEN COURT
MILPITAS, CA 95035

SHEET TITLE
EQUIPMENT LAYOUT PLAN

SHEET NUMBER
A-2.1

NOT USED

SCALE NONE **2**



PROJECT NO:
 DRAWN BY: JSP
 CHECKED BY: MM

REV	DATE	DESCRIPTION
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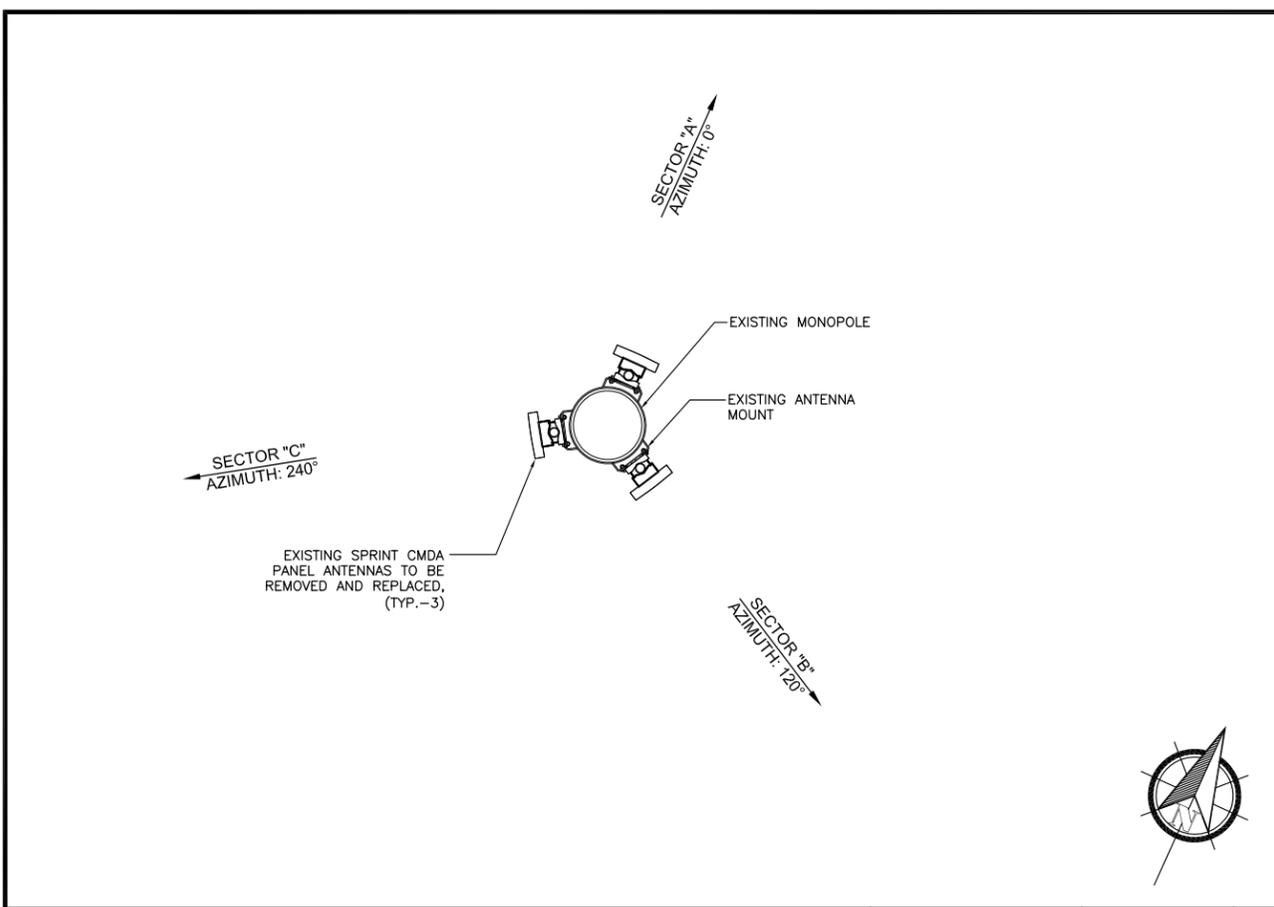
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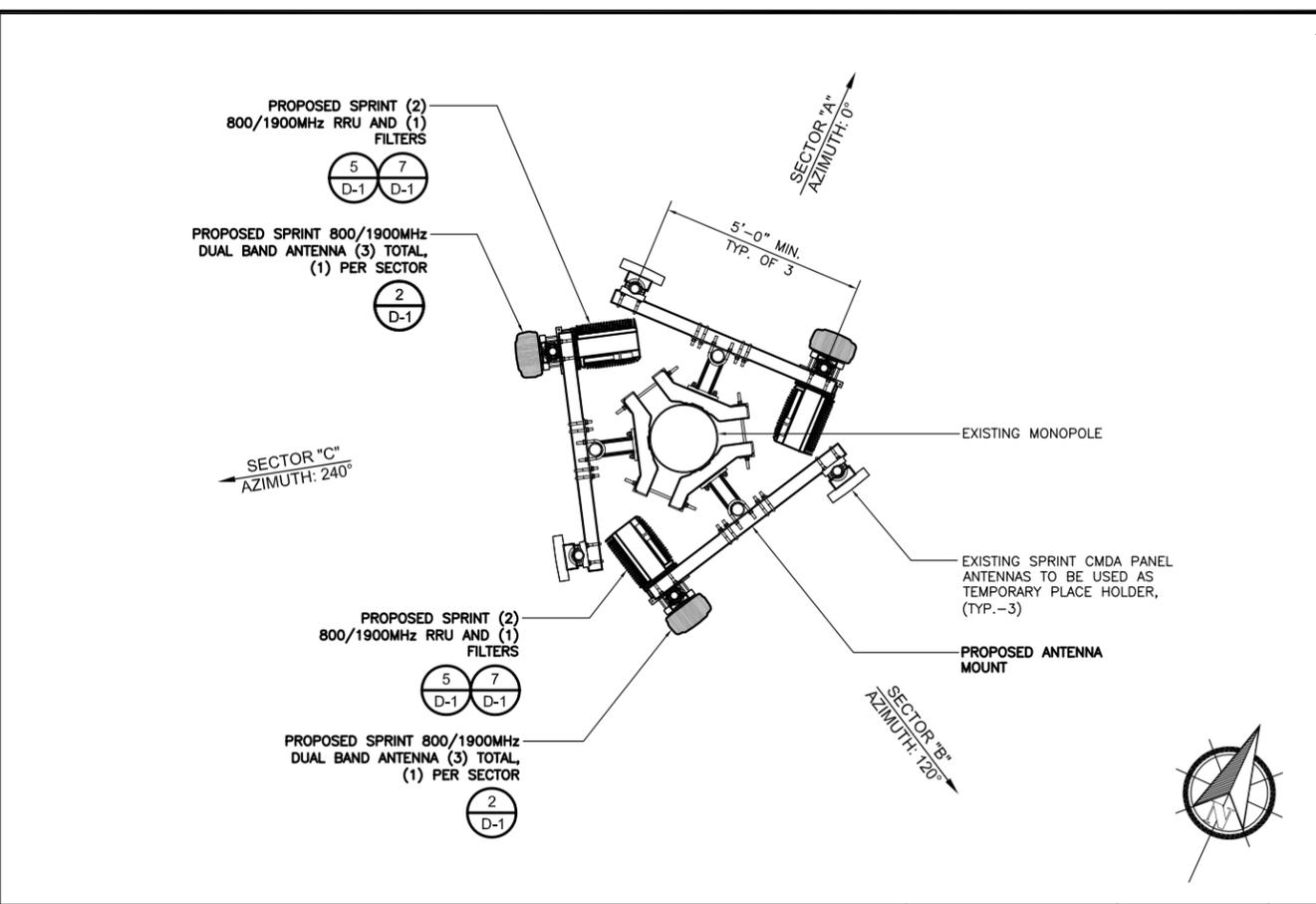
FS04XC191
 SAN JOSE WATER DISTRICT
 FLEURY STATION #244
 1220 PECTEN COURT
 MILPITAS, CA 95035

SHEET TITLE
 ANTENNA LAYOUTS AND SCHEDULE

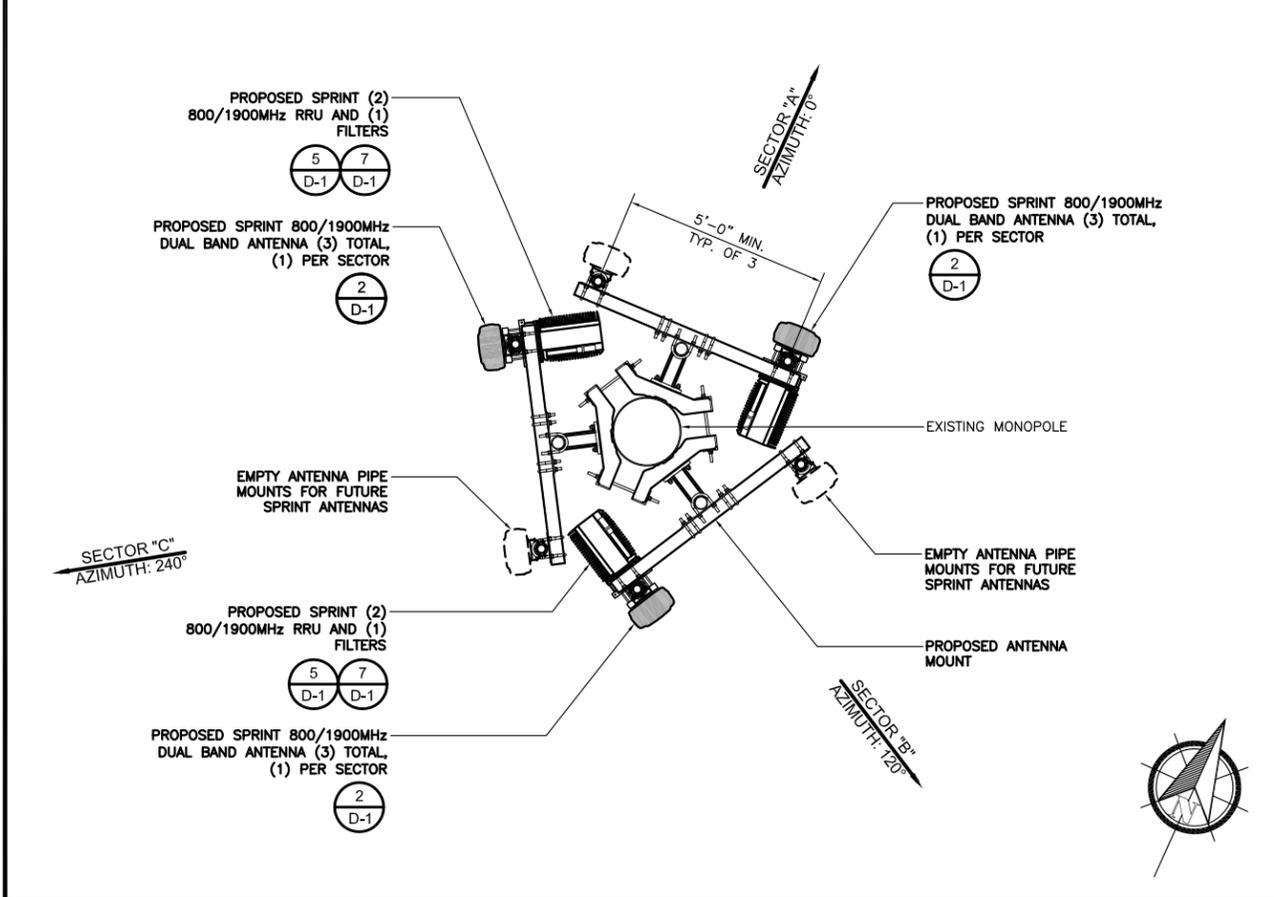
SHEET NUMBER
A-3



EXISTING ANTENNA LAYOUT 1



INTERIM ANTENNA LAYOUT 2



PROPOSED ANTENNA LAYOUT 3

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	ET-X-TS-90-14-90-17-IR	0	0	40'	60'	FIBER & +48VDC	EXISTING CABLE TRAY
BETA SECTOR	B1	800/1900 MHz	rr90-17-00dp	ET-X-TS-90-14-90-17-IR	120	120	40'	60'	FIBER & +48VDC	EXISTING CABLE TRAY
GAMMA SECTOR	C1	800/1900 MHz	rr90-17-00dp	ET-X-TS-72-16-65-19-IR	240	240	40'	60'	FIBER & +48VDC	EXISTING CABLE TRAY

ANTENNA SCHEDULE 4



BLACK & VEATCH

121 W EL PORTAL SUITE 102
SAN CLEMENTE, CA 92672 T: 619.997.4012

PROJECT NO:
DRAWN BY: JSP
CHECKED BY: MM

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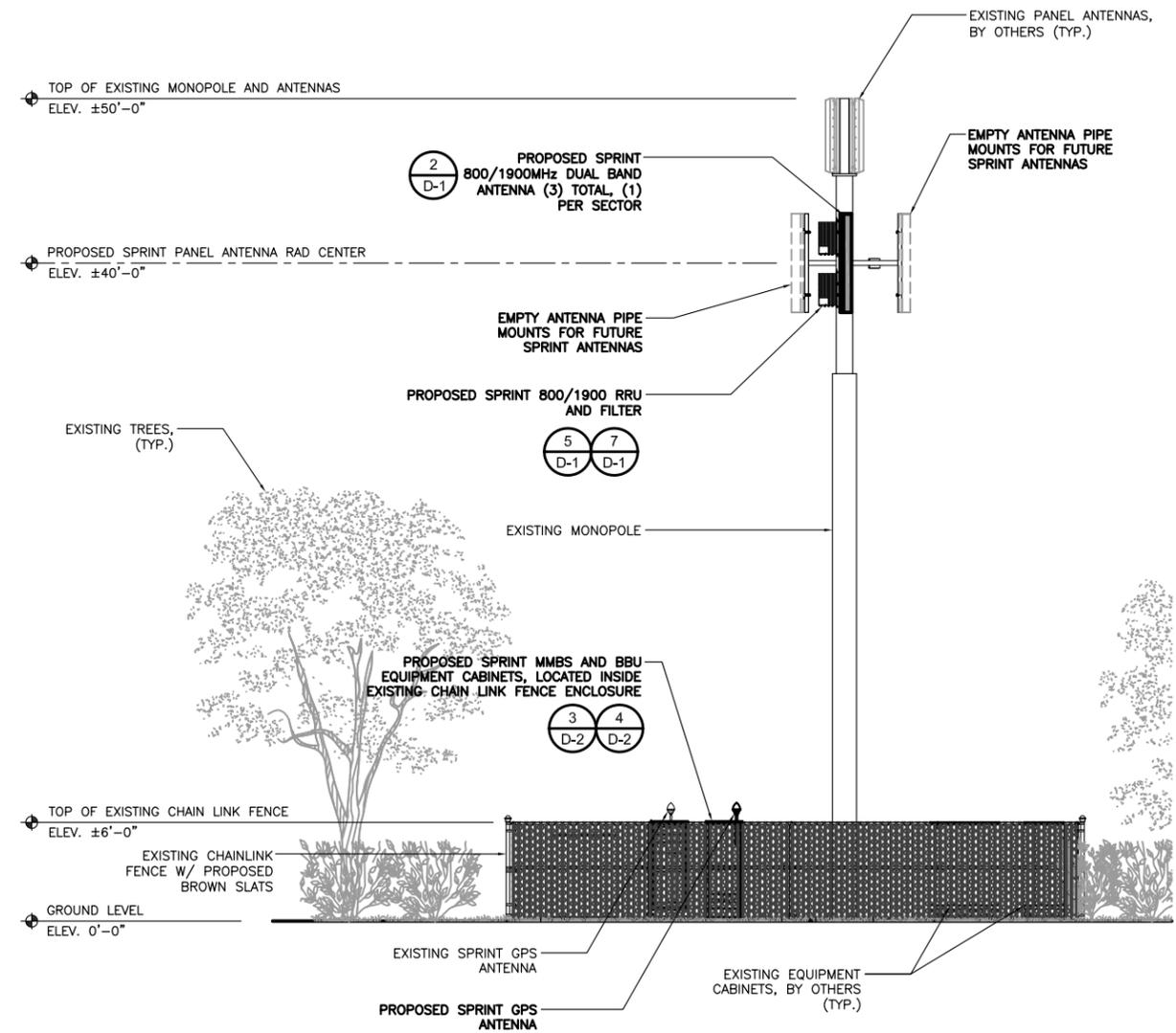
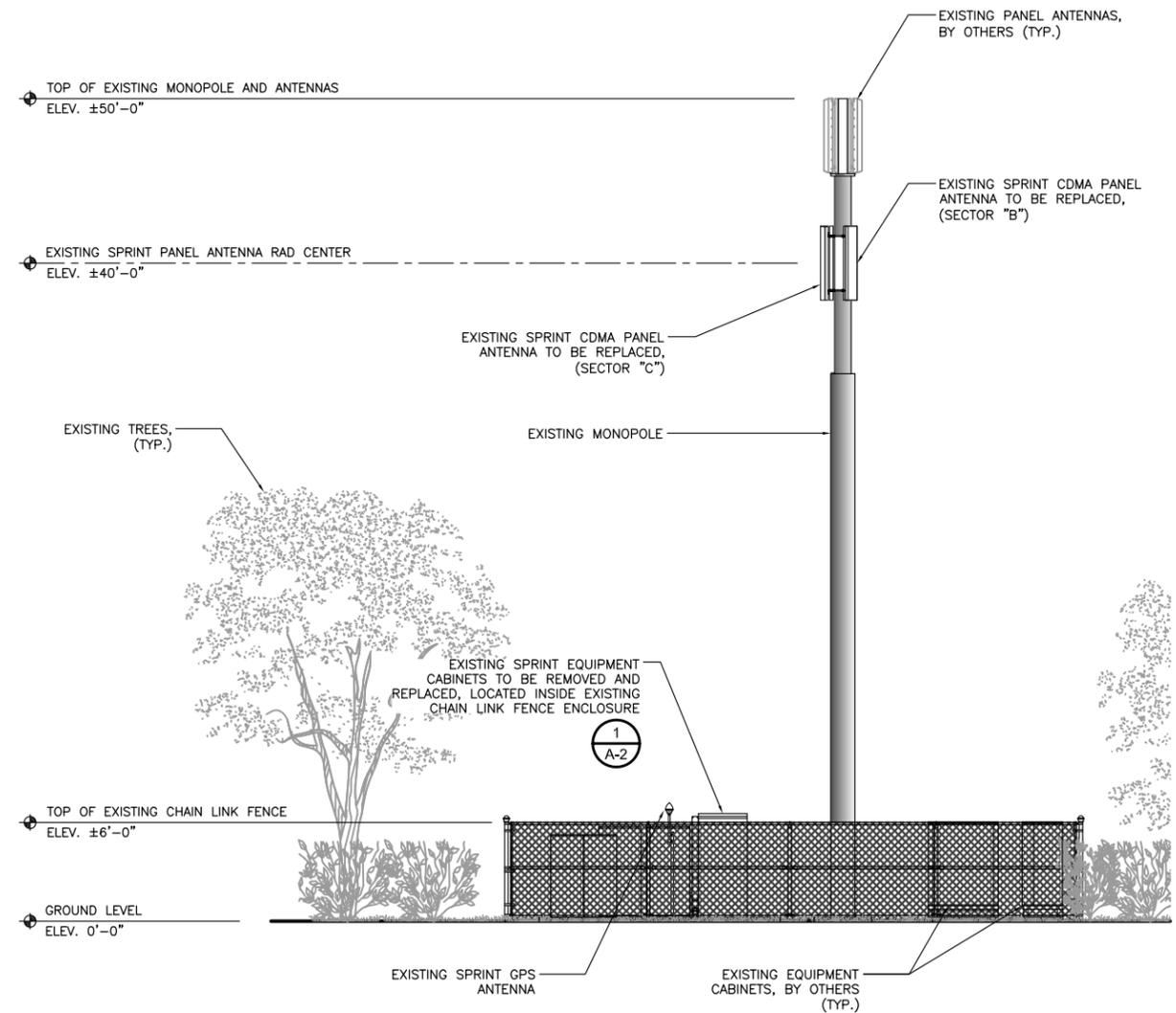
FS04XC191
SAN JOSE WATER DISTRICT
FLEURY STATION #244
1220 PECTEN COURT
MILPITAS, CA 95035

SHEET TITLE
ELEVATIONS

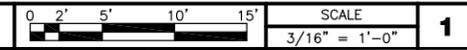
SHEET NUMBER
A-4

EXISTING MONOPOLE TO BE PAINTED BROWN AND BROWN SLATS WILL BE INSTALLED TO EXISTING CHAINLINK FENCE TO INCREASE

NOTE

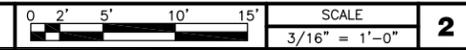


EXISTING SOUTH ELEVATION



1

PROPOSED SOUTH ELEVATION



2



BLACK & VEATCH



PROJECT NO:
DRAWN BY: JSP
CHECKED BY: MM

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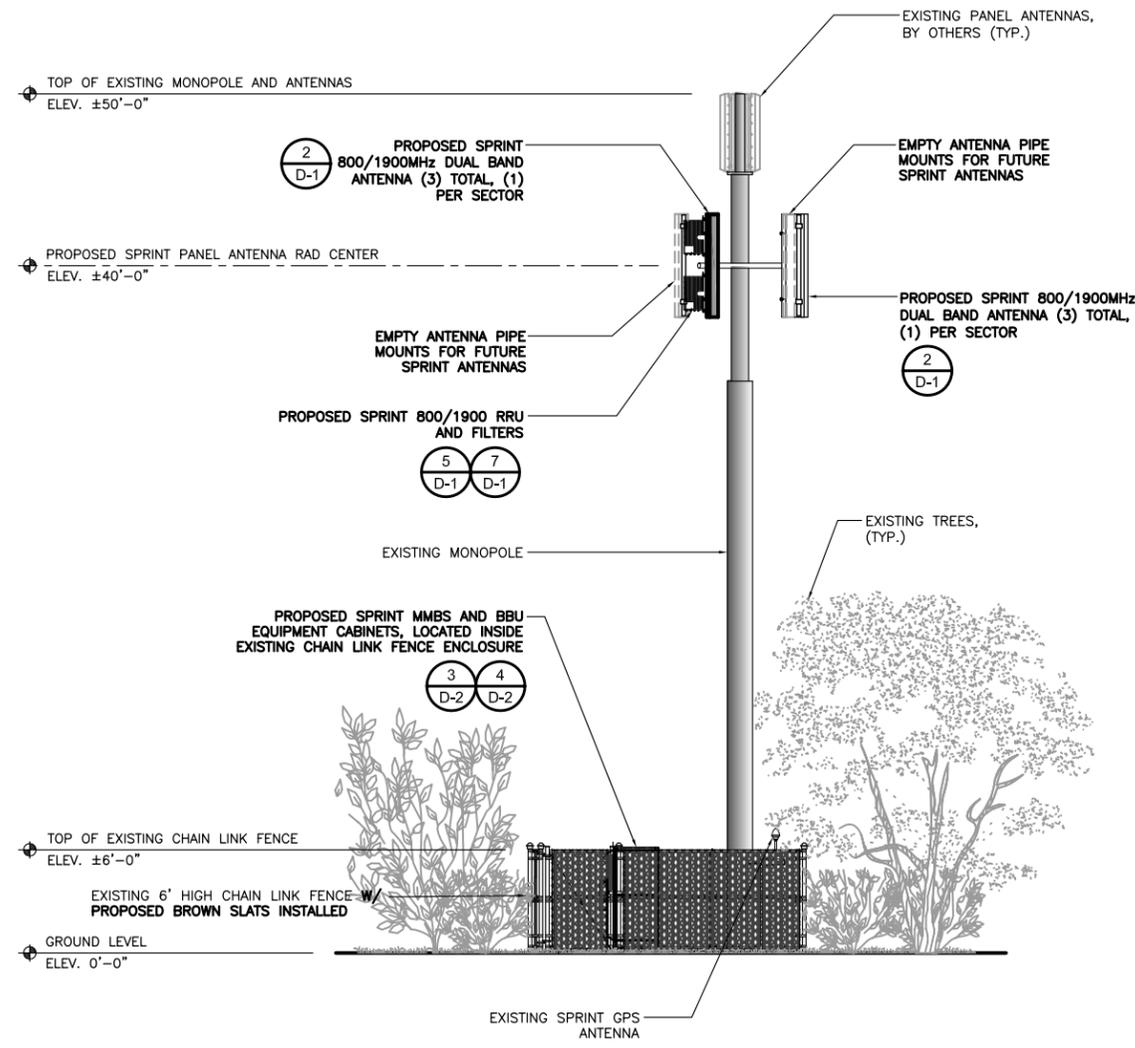
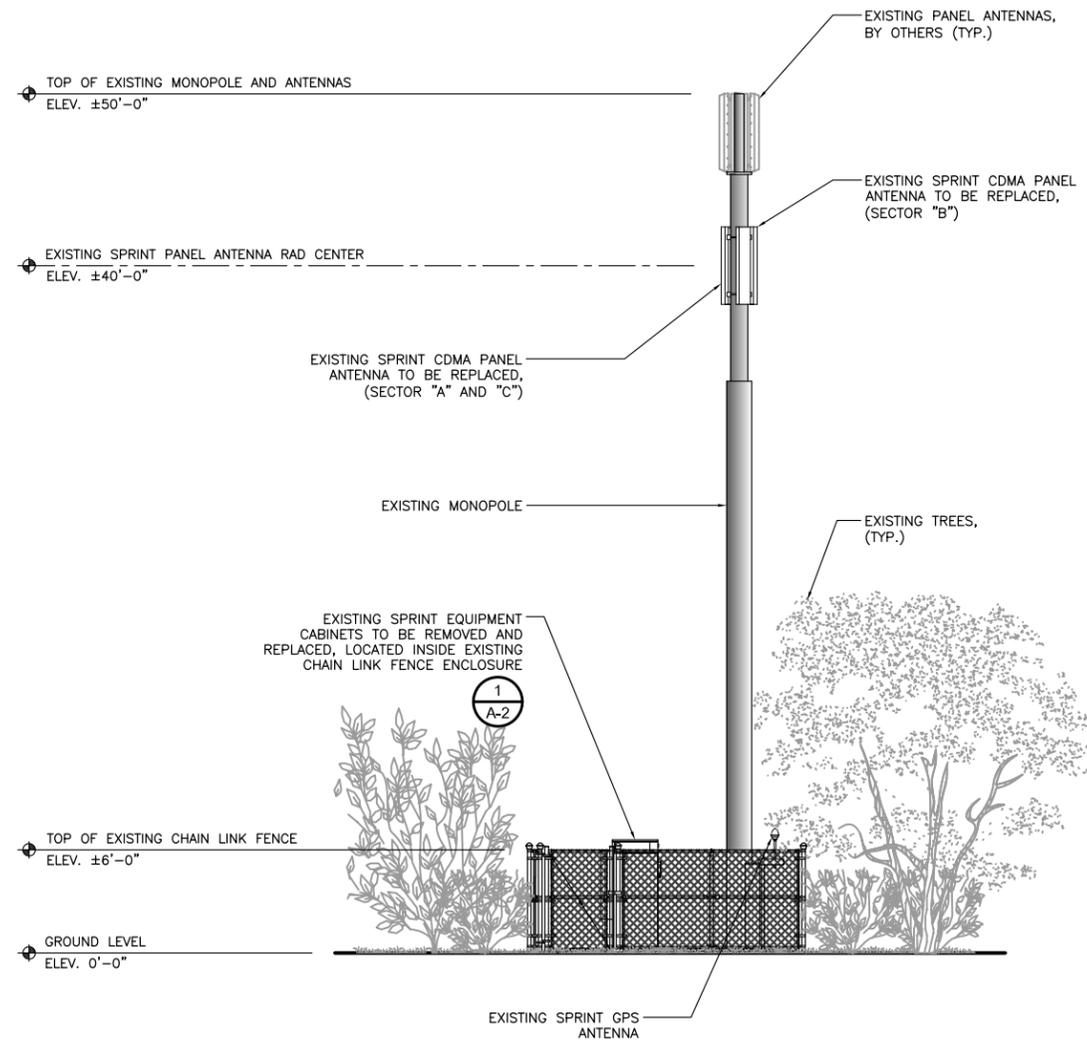
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SHEET TITLE
ELEVATIONS

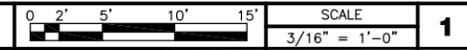
SHEET NUMBER
A-5

EXISTING MONOPOLE TO BE PAINTED BROWN AND BROWN SLATS WILL BE INSTALLED TO EXISTING CHAIN LINK FENCE TO INCREASE THE VISUAL AESTHETICS

NOTE



EXISTING WEST ELEVATION



1

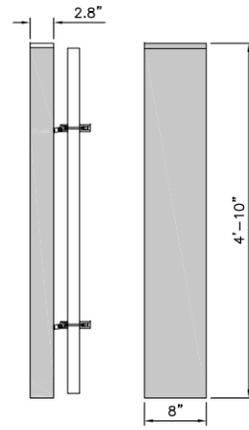
PROPOSED WEST ELEVATION



2

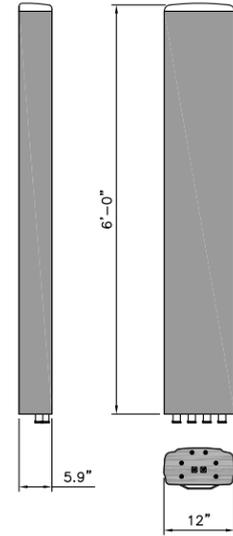
ANTENNA RR90-17-00DP

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



KMW ANTENNA ET-X-TS-72-16-65-19-iR

DIMENSIONS, HxWxD:
(72"x12"x5.9")
WEIGHT, WITH PRE-MOUNTED BRACKETS: 50 lbs
CONNECTOR: (6) 7/16 DIN FEMALE



PROJECT NO:	
DRAWN BY:	JSP
CHECKED BY:	MM

REV	DATE	DESCRIPTION
3	03/27/12	CITY COMMENTS
2	01/12/12	REMOVE 1.6 ANTENNA
1	12/12/11	100% ZONING DRAWING
0	11/09/11	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.

FS04XC191
SAN JOSE WATER DISTRICT
FLEURY STATION #244
1220 PECTEN COURT
MILPITAS, CA 95035

SHEET TITLE
DETAILS

SHEET NUMBER
D-1

EXISTING ANTENNA

SCALE: NONE 1

PROPOSED ANTENNA SPECIFICATIONS

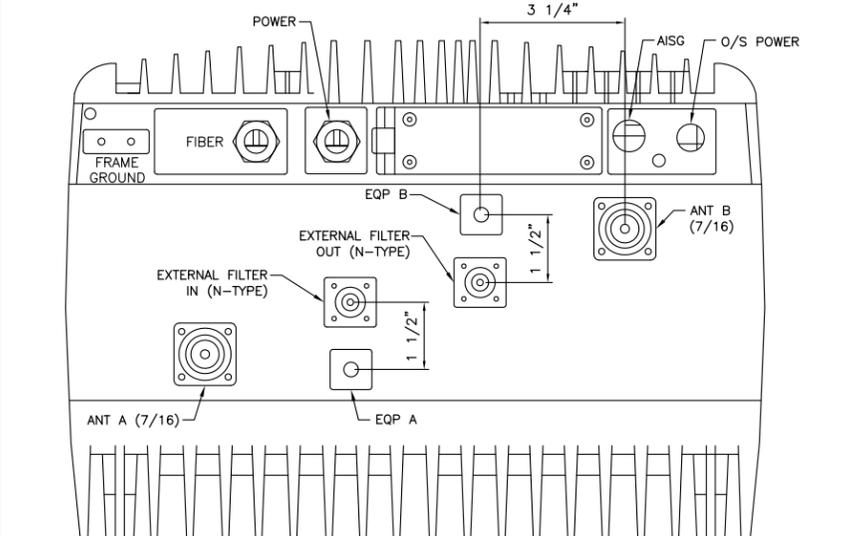
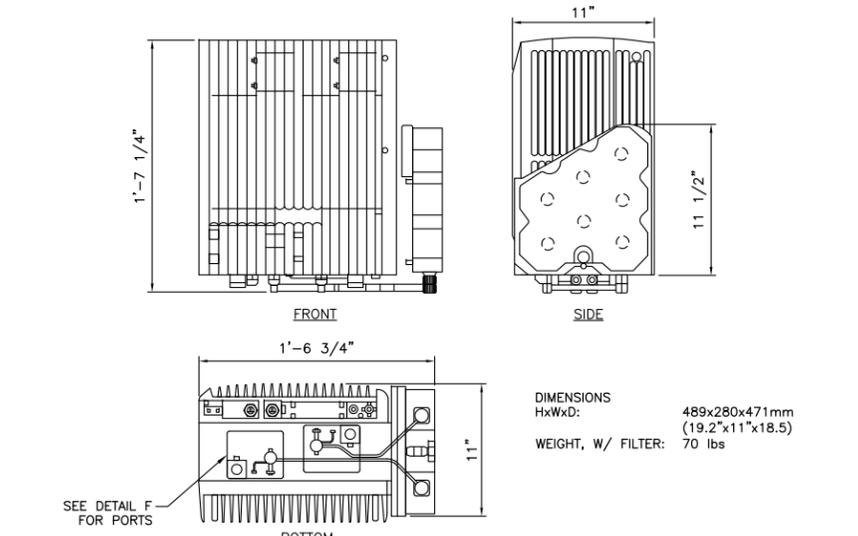
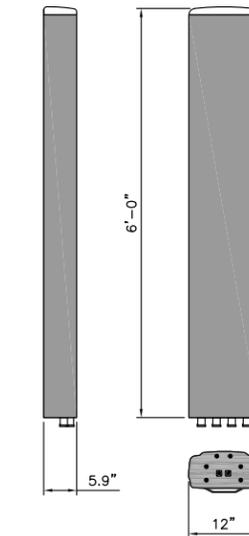
SCALE: NONE 2

NOT USED

SCALE: NONE 3

KMW ANTENNA ET-X-TS-90-14-90-17-iR

DIMENSIONS, HxWxD:
(72"x12"x5.9")
WEIGHT, WITH PRE-MOUNTED BRACKETS: 50 lbs
CONNECTOR: (6) 7/16 DIN FEMALE



PROPOSED ANTENNA SPECIFICATIONS

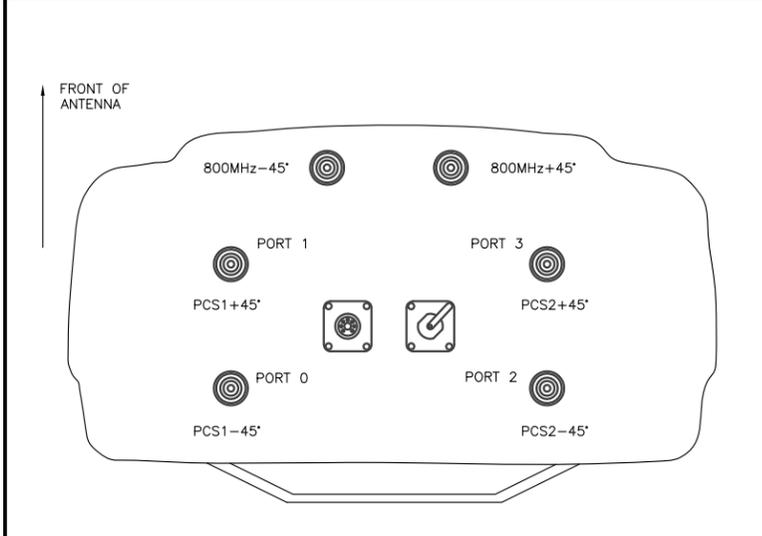
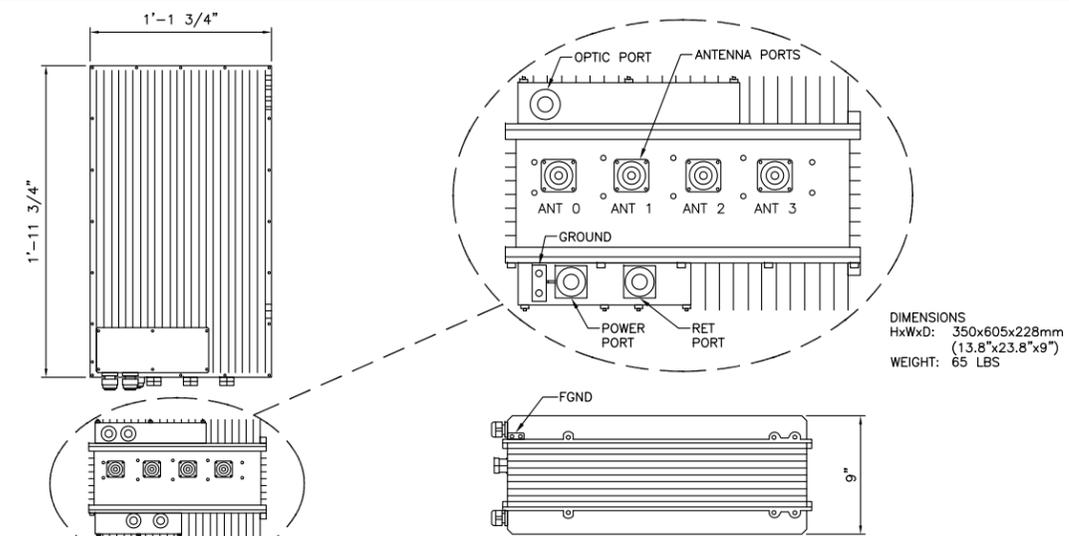
SCALE: NONE 4

800MHZ RRU SPECIFICATIONS

SCALE: NONE 5

800MHZ RRU FRONT VIEW

SCALE: NONE 6



1900 MHZ RRU SPECIFICATIONS

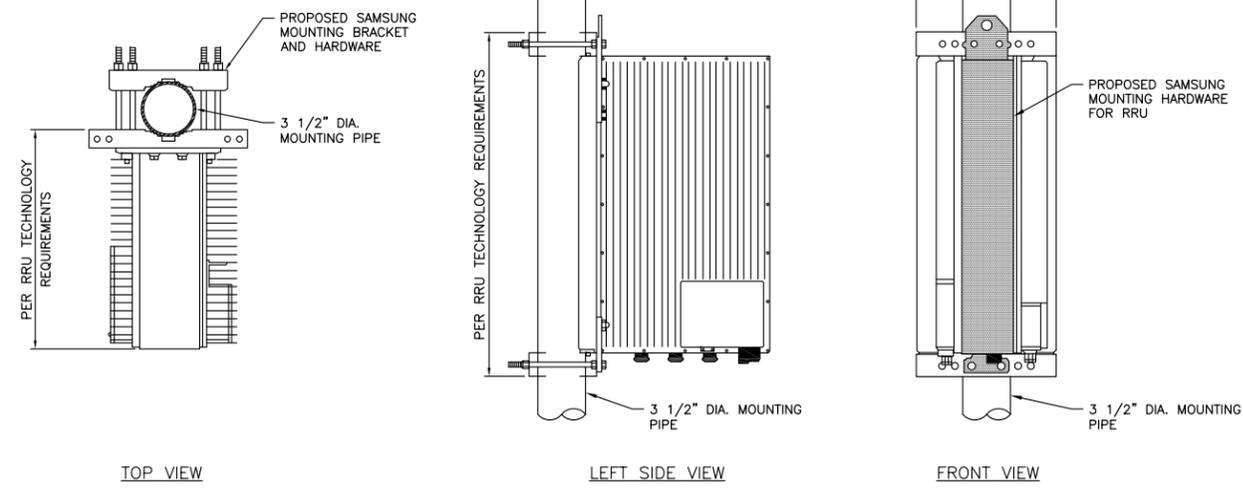
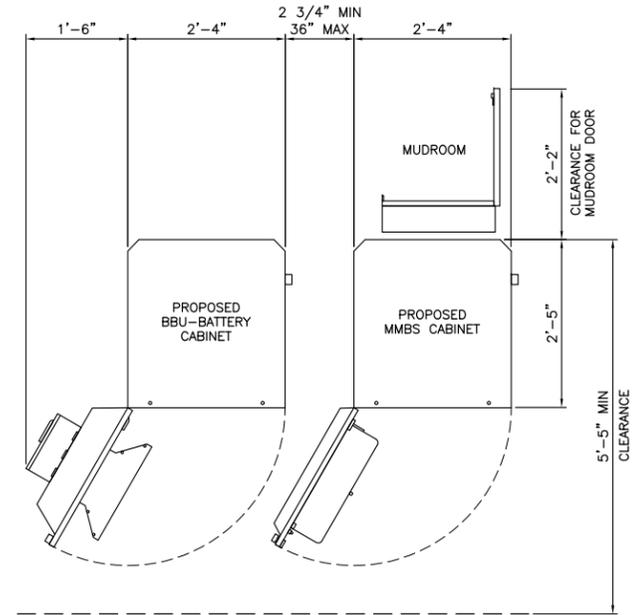
SCALE: NONE 7

NOT USED

SCALE: NONE 8

ANTENNA PORT CONFIGURATION

SCALE: NONE 9

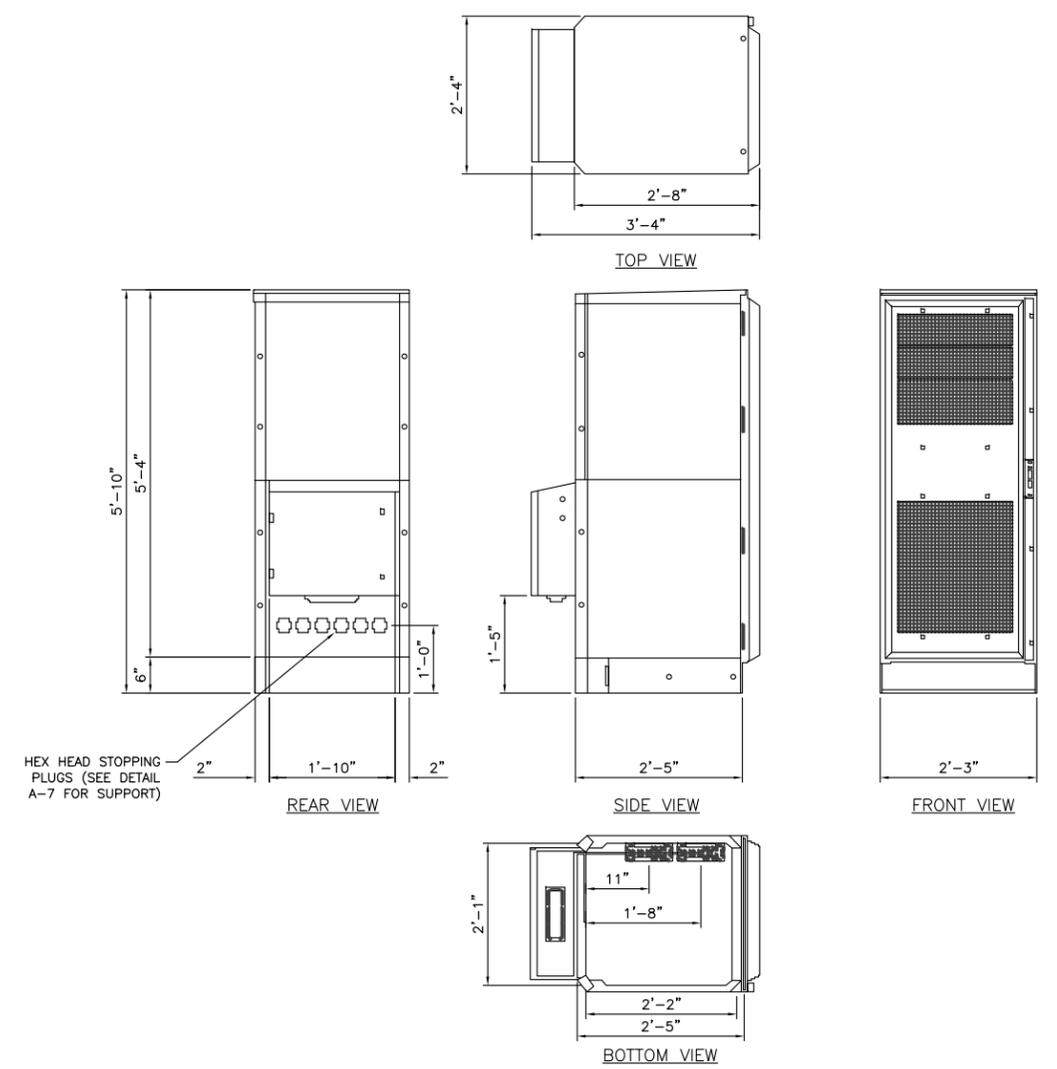


MMBS TYPICAL FLOOR PLAN

SCALE NONE **1**

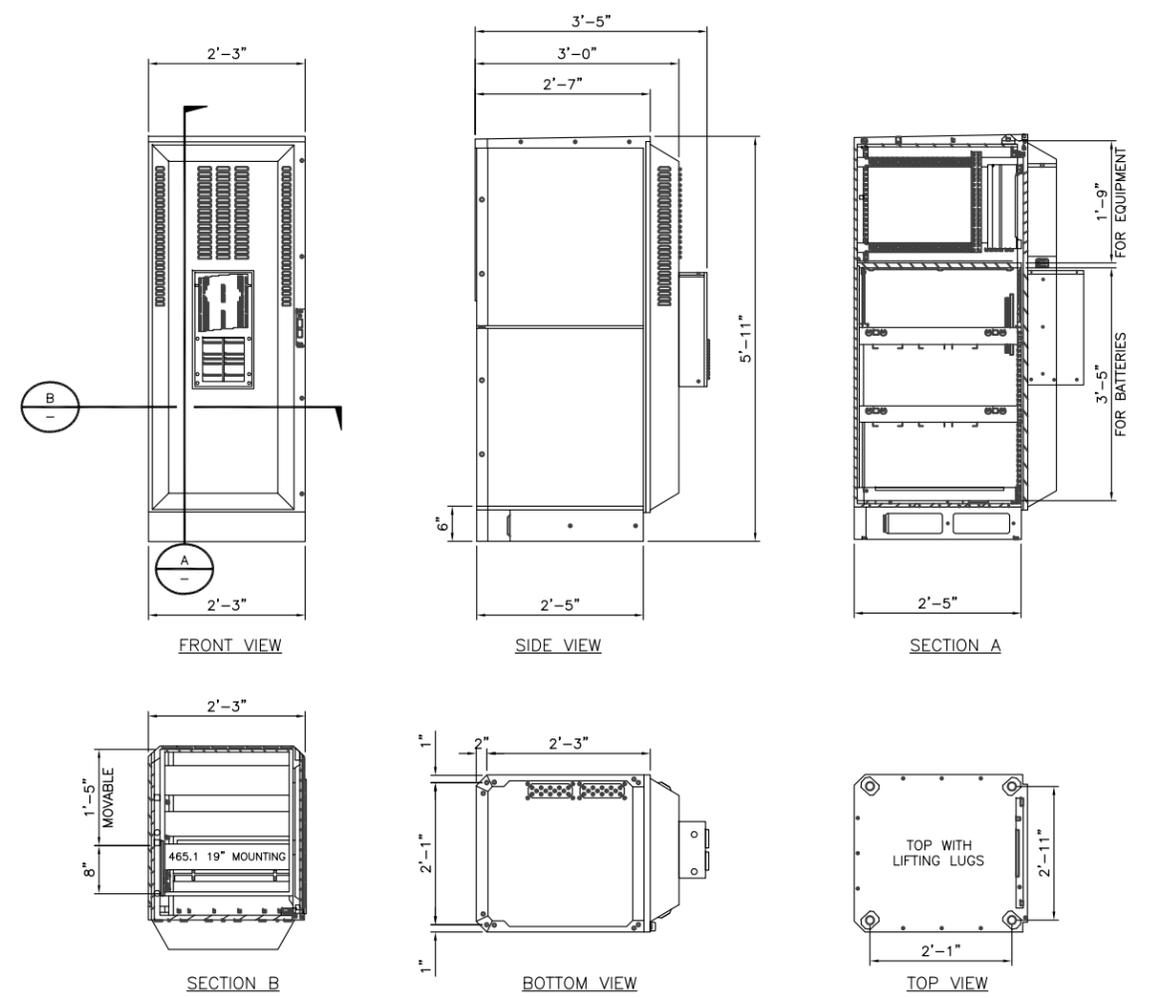
RRU POLE MOUNT INSTALLATION DETAIL

SCALE NONE **2**



MMBS - MECHANICAL SPECIFICATIONS

SCALE NONE **3**



BBU - BATTERY CABINET

SCALE NONE **4**

PROJECT NO:
DRAWN BY: JSP
CHECKED BY: MM

REV	DATE	DESCRIPTION
3	03/27/12	CITY COMMENTS
2	01/12/12	REMOVE 1.6 ANTENNA
1	12/12/11	100% ZONING DRAWING
0	11/09/11	90% ZONING DRAWING

NOT TO BE USED FOR CONSTRUCTION

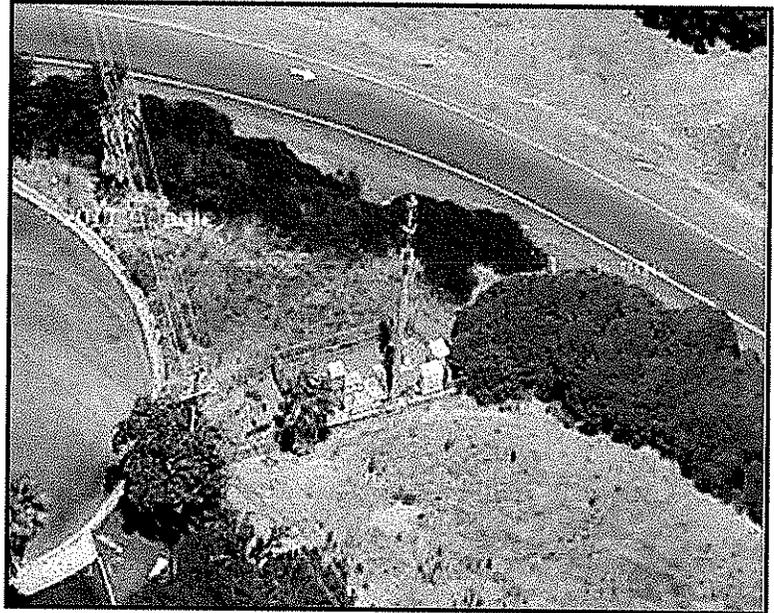
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

FS04XC191
SAN JOSE WATER DISTRICT
FLEURY STATION #244
1220 PECTEN COURT
MILPITAS, CA 95035

SHEET TITLE
DETAILS

SHEET NUMBER
D-2

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. FS04XC191
San Jose Water District
1220 Pecten Court
Milpitas, California 95035
Santa Clara County
37.413294; -122.881928 NAD83
monopole

EBI Project No. 62112344
December 19, 2011

RECEIVED

FEB 15 2012

**CITY OF MILPITAS
PLANNING DIVISION**

A Dds - 25 0m
 Acc Cd 35 00
 ACS Mt 29
 ADCTT 25
 ADEG 7
 AES
 AV

EBI
 CONSULTING
Creating Value for Your Business

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 FS04XC191 located at 1220 Pecten Court 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 replaced with six (6) proposed Sprint wireless telecommunication antennas on a monopole located at 1220 Pecten Court in Milpitas, California. There are three Sectors (A, B, and C) proposed to be replaced at the site, with two (2) antennas that may be re-installed per sector.

Based on drawings and aerial photography review an unknown carrier also has wireless antennas on the monopole. These antennas were included in the modeling analysis.

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

There are no antennas or facilities that are approved and not installed based on information provided to EBI and Sprint 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

Sprint proposes the removal of three (3) existing replaced with six (6) proposed Sprint wireless telecommunication antennas on a monopole located at 1220 Pecten Court in Milpitas, California. There are three Sectors (A, B, and C) proposed to be replaced at the site, with two (2) antennas 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 and one antenna transmitting in the 1600 MHz frequency range. The Sector A antennas will be oriented 0° from true north. The Sector B antennas will be oriented 120° from true north. The Sector C antennas will be oriented 265° from true north. The bottoms of the antennas will be 37 feet above ground level

Based on drawings and aerial photography review an unknown carrier also has wireless antennas on the monopole. These antennas were 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. The operating power for the purpose of modeling was assumed to be 20 Watts per transmitter and one (1) transmitter operating in the 1600 MHz frequency range. Additionally, for modeling purposes it was assumed to be 20 Watts per transmitter and six (6) transmitters operating at the 1900 MHz.

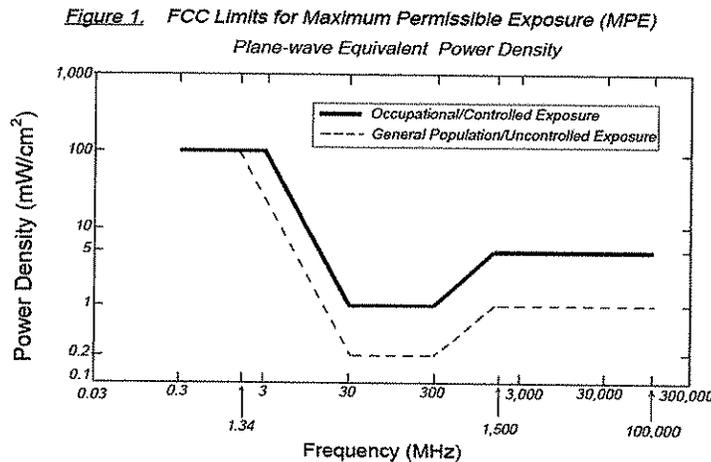
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6

(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



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.

6.0 TOTAL NUMBER OF WATTS PER INSTALLATION AND THE TOTAL NUMBER OF WATTS FOR ALL INSTALLATIONS ON THE BUILDING

The effective radiated power (ERP) for the 800 MHz transmitter combined on site is 662 Watts. The ERP for the 1600 MHz transmitters combined on site is 895 Watts. The ERP for the 1900 MHz transmitters combined on site is 6,929 Watts. The ERPs for other carriers on site was not provided.

7.0 PREFERRED METHOD OF ATTACHMENT OF PROPOSED ANTENNA WITH PLOT OR ROOF PLAN INCLUDING: DIRECTIONALITY OF ANTENNAS, HEIGHT OF ANTENNAS ABOVE NEAREST WALKING SURFACE, DISCUSS NEARBY INHABITED BUILDINGS

Based on the information provided to EBI, the information indicates that the proposed antennas are to be rack-mounted to the monopole, operating in the directions, frequencies, and heights mentioned in section 4.0 above. The area north of the monopole is shown as Montague Expressway. The area south of the monopole is shown as a large vacant lot. The area east of the Subject Property is shown as an on-ramp followed by Interstate 680. The area west of the monopole is a parking lot followed by commercial buildings approximately 110 feet west of the monopole.

8.0 ESTIMATED AMBIENT RADIO FREQUENCY FIELDS FOR THE PROPOSED SITE

Based on worst-case predictive modeling, there are no predicted areas on any accessible ground-level walking/working surface related to the proposed Sprint antennas that exceed the FCC's occupational or general public exposure limits at this site. At the nearest walking/working surfaces to the proposed Sprint antennas, the maximum power density is 5.60 percent of the FCC's general public limit (1.12 percent of the FCC's occupational limit). The composite exposure level from all other carriers existing on this site combined with Sprint's proposed antennas is 6.30 percent of the FCC's general public limit (1.26 percent of the FCC's occupational limit) at the nearest walking/working surface to each antenna. The inputs used in the modeling are summarized in the RoofView® export file presented in Appendix B.

There are no modeled areas on the ground that exceed the FCC's limits for general public or occupational exposure in front of the other carrier antennas.

9.0 SIGNAGE AT THE FACILITY IDENTIFYING ALL WTS EQUIPMENT AND SAFETY PRECAUTIONS FOR PEOPLE NEARING THE EQUIPMENT AS MAY BE REQUIRED BY THE APPLICABLE FCC ADOPTED STANDARDS (DISCUSS SIGNAGE FOR THOSE WHO SPEAK LANGUAGES OTHER THAN ENGLISH)

Signs are the primary means for control of access to areas where RF exposure levels may potentially exceed the MPE. It is recommended that additional signage be installed for the new antennas making people aware of the antennas locations. Also workers elevated above the roof or ground level should be made aware of the antennas locations. There are no fields in front of the proposed antennas and therefore barriers are not recommended.

Additionally, there are areas where workers elevated above the ground may be exposed to power densities greater than the general population and occupational limits. Workers and the general public should be informed about the presence and locations of antennas and their associated fields.

Additionally, access to this site is accomplished via a locked access gate as such, the general public is not able to access the rooftop.

10.0 STATEMENT ON WHO PRODUCED THIS REPORT AND QUALIFICATIONS

Please see the certifications attached in Appendix A below.

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 1600 MHz and 1900 MHz frequency ranges. 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

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 1220 Pecten Court in Milpitas, California.

EBI has conducted theoretical modeling to estimate the worst-case power density from Sprint antennas and the other carriers' existing 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, there are no modeled exposures on any accessible ground-level walking/working surface related to proposed equipment in the area that exceed the FCC's occupational and general public exposure limits at this site. As such, the proposed Sprint project is in compliance with FCC rules and regulations.

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

Appendix A

Certifications

RF-EME Compliance Report
EBI Project No. 62112344

Site No. FS04XC191
End of Pecten Court, Milpitas, California

Reviewed and Approved by:



A handwritten signature in black ink, appearing to read "H. Stockinger", written over the bottom right portion of the professional seal.

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.

EBI Consulting

Preparer Certification

I, Darrell Barrick, 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.

Darrell J. Barrick

Appendix B
Roofview® Export File

Map, Settings, Antenna, and Symbol Data Table .. Exported from workbook -> Roof View RF Template_Sprint Cor
 Done on 12/19/2011 at 12:12:49 PM.
 Use this format to prepare other data sets for the RoofView workbook file.
 You may use as many rows in this TOP header as you wish.
 The critical point are the cells in COLUMN ONE that read 'Start...' (eg. StartMapDefinition)
 If used, these (4) headers are required to be spelled exactly, as one word (eg. StartMapDefinition)
 The very next row will be considered the start of that data block.
 The first row of the data block can be a header (as shown below), but this is optional.
 When building a text file for import, Add the Map info first, then the Antenna data, followed by the symbol data.
 All rows above the first marker line 'Start...' will be ignored, no matter how many there are.
 This area is for you use for documentation.
 End of help comments.

You can place as much text here as you wish as long as you don't place it below
 the Start Map Definition row below the blue line.
 You may insert more rows using the Insert menu.
 Should you need additional lines to document your project, simply insert additional rows
 by highlighting the row number adjacent to the blue line below and then clicking on the Insert menu
 and selecting rows.

StartMapDefinition		Roof Max X	Roof Max Y	Map Max X	Map Max Y	Offset	X Offset	Number of envelope	List Of Areas														
StartMapDefinition		170	160	180	170	10	10	1	SUS41:5FK	SUS41:5FK	SUS41:5FK	SUS41:5FK	SUS41:5FK	SUS41:5FK	SUS41:5FK	SUS41:5FK	SUS41:5FK	SUS41:5FK	SUS41:5FK	SUS41:5FK	SUS41:5FK	SUS41:5FK	SUS41:5FK
Standard	Method	Uptime	Scale	Factor	Low Thr	Low Color	Mid Thr	Mid Color	Hi Thr	Hi Color	Over Color	Ap Ht	Mult	Ap Ht Method									
4	2	3	1	100	1	500	4	S000	2	3	1.5	1											
StartAntennaData																							
It is advisable to provide an ID (ant 1) for all antennas																							
ID	Name	Freq (MHz)	Trans Power	Trans Count	Coax Len	Coax Type	Other Loss	Input Power	Calc Power	Mfg	Model	X (ft)	Y (ft)	Z (ft)	Type	Aper (ft)	dBd Gain	BWdth Pt Dir	Uptime Profile	ON flag			
SPT A1	Sprint	800	20	1	3	1/2 LDF	0.5		17.53194	KMW	ET-X-TS-90-14-90-17-IR	16	22	37	6	11.9	90;0	90;0	90;0	ON*			
SPT A1	Sprint	1900	20	2	3	1/2 LDF	0.5		35.06388	KMW	ET-X-TS-90-14-90-17-IR	16	22	37	6	14.9	90;0	90;0	90;0	ON*			
SPT A1	Sprint	1900	20	4	3	1/2 LDF	0.5		70.12776	KMW	ET-X-TS-90-14-90-17-IR	16	22	37	6	14.6	90;0	90;0	90;0	ON*			
SPT A2	Sprint	1600	20	1	3	1/2 LDF	0.5		17.53194	KMW	H2-X-LU-90-16-IR	20	21	37	6	13.9	90;0	90;0	90;0	ON*			
SPT B1	Sprint	800	20	1	3	1/2 LDF	0.5		17.53194	KMW	ET-X-TS-90-14-90-17-IR	20	18	37	6	11.9	90;120	90;120	90;120	ON*			
SPT B1	Sprint	1900	20	2	3	1/2 LDF	0.5		35.06388	KMW	ET-X-TS-90-14-90-17-IR	20	18	37	6	14.9	90;120	90;120	90;120	ON*			
SPT B1	Sprint	1900	20	4	3	1/2 LDF	0.5		70.12776	KMW	ET-X-TS-90-14-90-17-IR	20	18	37	6	14.6	90;120	90;120	90;120	ON*			
SPT B2	Sprint	1600	20	1	3	1/2 LDF	0.5		17.53194	KMW	H2-X-LU-90-16-IR	17	15	37	6	13.9	90;120	90;120	90;120	ON*			
SPT C1	Sprint	800	20	1	3	1/2 LDF	0.5		17.53194	KMW	ET-X-TS-72-16-65-19-IR	14	16	37	6	14.9	72;240	72;240	72;240	ON*			
SPT C1	Sprint	1900	20	2	3	1/2 LDF	0.5		35.06388	KMW	ET-X-TS-72-16-65-19-IR	14	16	37	6	16.9	65;240	65;240	65;240	ON*			
SPT C1	Sprint	1900	20	4	3	1/2 LDF	0.5		70.12776	KMW	ET-X-TS-72-16-65-19-IR	14	16	37	6	16.9	65;240	65;240	65;240	ON*			
SPT C2	Sprint	1600	20	1	3	1/2 LDF	0.5		17.53194	KMW	H2-X-LU-65-17-IR	13	20	37	6	15.4	65;240	65;240	65;240	ON*			
UNK1 A	Unknown	850	100	1				3	50.11872	Unknown	Unknown	17	20	46.5	3.5	12	63;0	63;0	63;0	ON*			
UNK1 B	Unknown	850	100	1				3	50.11872	Unknown	Unknown	17	17	46.5	3.5	12	63;120	63;120	63;120	ON*			
UNK1 C	Unknown	850	100	1				3	50.11872	Unknown	Unknown	15	18	46.5	3.5	12	63;240	63;240	63;240	ON*			
StartSymbolData																							
Sym	Map Mark	Roof X	Roof Y	Map Label	Description (notes for this table only)																		
Sym		5	35	AC Unit	Sample symbols																		
Sym		14	5	Roof Access																			
Sym		45	5	AC Unit																			
Sym		45	20	Ladder																			



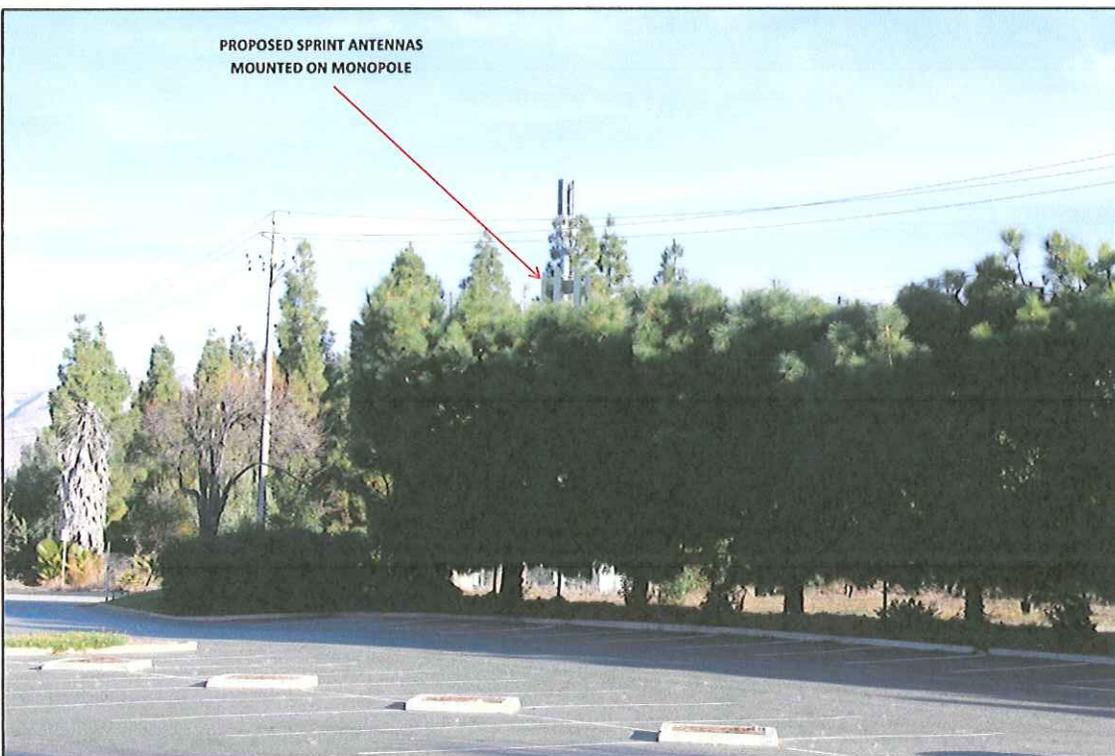
SITE NUMBER: FS04XC191

1220 PECTEN COURT, MILPITAS, CA 95035

SITE NAME: SAN JOSE WATER DISTRICT FLEURY STATION #244



EXISTING



PROPOSED SOUTH ELEVATION



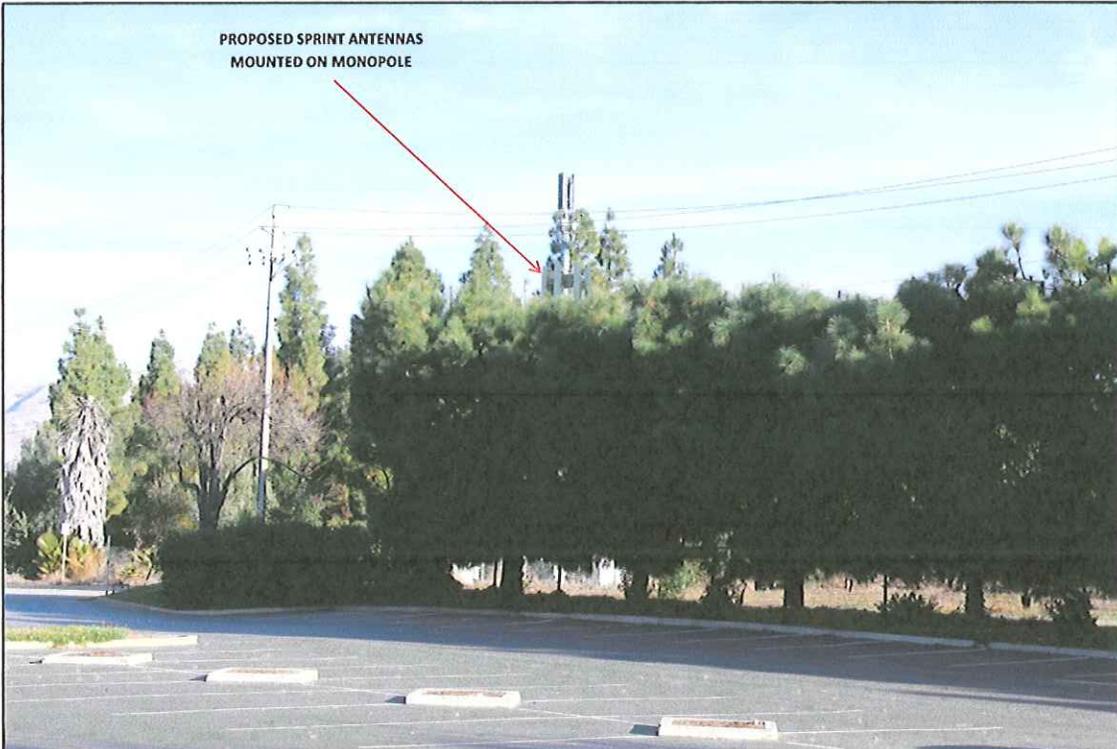
SITE NUMBER: FS04XC191

1220 PECTEN COURT, MILPITAS, CA 95035

SITE NAME: SAN JOSE WATER DISTRICT FLEURY STATION #244



EXISTING



PROPOSED SOUTH ELEVATION



SITE NUMBER: FS04XC191

1220 PECTEN COURT, MILPITAS, CA 95035

SITE NAME: SAN JOSE WATER DISTRICT FLEURY STATION #244



EXISTING



PROPOSED NORTH WEST ELEVATION

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: Sprint/Nextel - Liz Johnson for Black Dot Wireless

Applicant Address: 44632 Hwy. 49, Ahwahnee, CA 93601

Applicant Phone: 559-642-2353 Applicant Fax: 559-642-2037

Applicant e-mail address: liz@stinct

Location of Project: 1220 Pecten Court, Milpitas

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

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

Date previously approved by the Telecommunications Commission: 12-11-96

Provide a brief description of project (Telecommunications Facility): Adding and removing antennas on existing 50' monopole. UP# 1379 & 1380 allowed for to panel antennas for Sprint. There are 3 antennas existing -- Sprint will add 3 in Phase I and remove 3 in Phase II.

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

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**CITY OF MILPITAS
 PLANNING DIVISION**

4. What will the effective radiated power (ERP) be when all channels at your proposed site are radiating?
500 Watts for 800 MHz; 3,500 Watts for 1900 MHz
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
 Sectored
 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? 40' feet
9. How close to your proposed project is the nearest roadway 64' to freeway on ramp 160' to Montague 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? 224' to bldg. - 2 story bldg.
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