

Sprint



SITE NAME: SAN JOSE WATER DISTRICT
FLEURY STATION #244

SITE NUMBER: FS04XC191

SITE ADDRESS: 1220 PECTEN COURT
 MILPITAS, CA 95035

SITE TYPE: MONOPOLE (GROUND EQUIPMENT)

Attachment E

6580 SPRINT PARKWAY
 OVERLAND PARK, KANSAS 66251



BLACK & VEATCH

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

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

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

SHEET TITLE
 TITLE SHEET, SITE
 INFORMATION AND
 VICINITY MAP

SHEET NUMBER
T-1

SITE INFORMATION

SITE ADDRESS:
 1220 PECTEN COURT
 MILPITAS, CA 95035

PROPERTY OWNER:
 SAN JOSE WATER WORKS
 1221 SOUTH BASCOM AVE.
 SAN JOSE, CA 95128

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:
 092-08-018

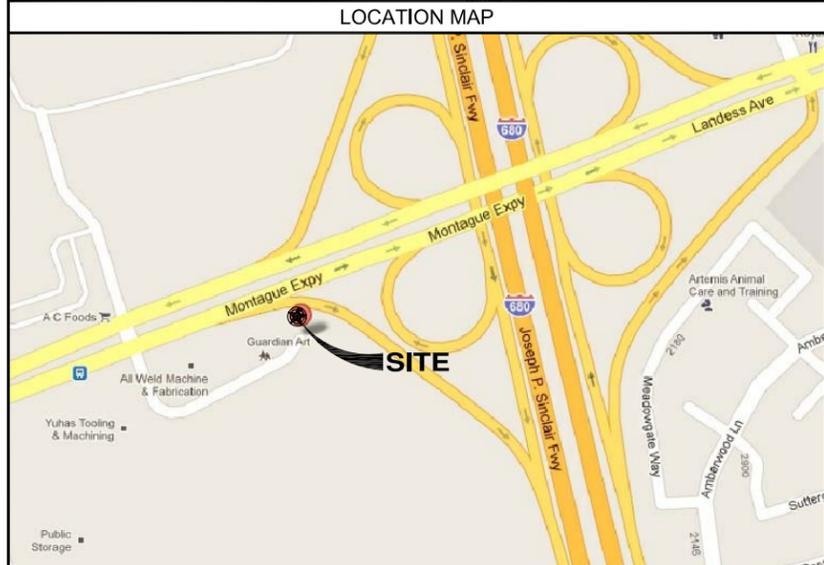
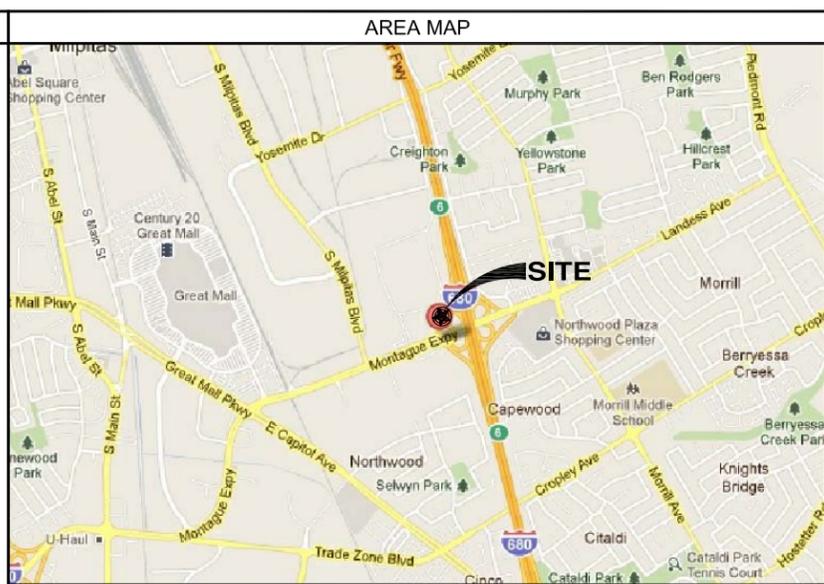
ZONING:
 M1

LATITUDE (NAD83):
 37° 24' 47.8182" N
 37.413283°

LONGITUDE (NAD83):
 122° 52' 54.987" W
 -122.881941°

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:

1. INSTALL (2) NEW EQUIPMENT CABINETS AND DECOMMISSION AND REMOVE (3) EXISTING EQUIPMENT CABINETS.
2. REPLACEMENT AND NEW INSTALLATION OF ANTENNAS TO BE MOUNTED ON EXISTING PIPE MOUNTS:
 - REMOVE (3) EXISTING ANTENNAS.
 - INSTALL (3) NEW SPRINT PANEL ANTENNAS ON NEW ANTENNA PIPE MOUNTS, AND (3) ANTENNAS IN THE FUTURE
3. INSTALL (6) NEW RRUS MOUNTED BEHIND ANTENNAS.
4. INSTALL (3) NEW FILTERS MOUNTED BEHIND ANTENNAS.
5. INSTALL NEW CABLING FROM EXISTING AND/OR NEW EQUIPMENT TO THE ANTENNAS ALONG THE EXISTING COAX PATH.
6. INSTALL FIBER OPTIC CABLES AND ASSOCIATED EQUIPMENT
7. INSTALL BROWN SLATS INTO EXISTING CHAIN LINK FENCE, PAINT MONOPOLE BROWN TO MATCH

DRIVING DIRECTIONS FROM NEAREST MAJOR AIRPORT

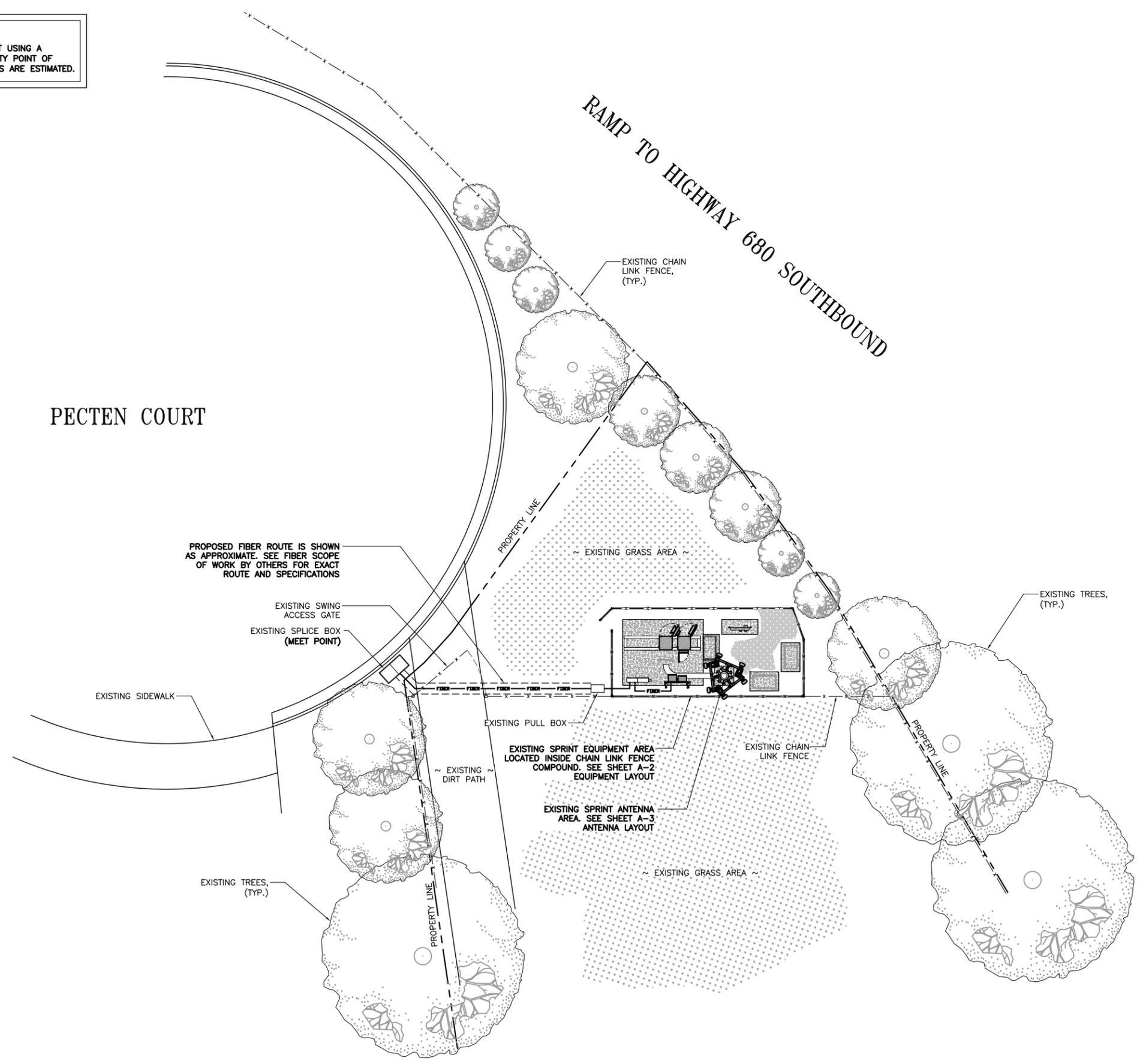
FROM SAN FRANCISCO INTERNATIONAL AIRPORT:

1. START AT E MILLBRAE AVE.
2. HEAD NORTH, KEEP RIGHT AT THE FORK
3. TAKE THE RAMP ONTO US-101 S
4. TAKE EXIT 396B TO MERGE ONTO CA-237 E TOWARD ALVISO/MILPITAS
5. TAKE EXIT 9B TO MERGE ONTO I-880 S TOWARD SAN JOSE
6. TAKE EXIT 7 FOR MONTAGUE EXPY
7. KEEP LEFT AT THE FORK TO CONTINUE TOWARD MONTAGUE EXPY
8. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MONTAGUE EXPY AND MERGE ONTO MONTAGUE EXPY
9. TURN RIGHT ONTO PECTEN CT
10. DESTINATION WILL BE ON THE RIGHT
11. 1200 PECTEN CT., MILPITAS, CA 95035

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 THIS PLANS ARE ESTIMATED.



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SHEET TITLE
 SITE PLAN

SHEET NUMBER
A-1

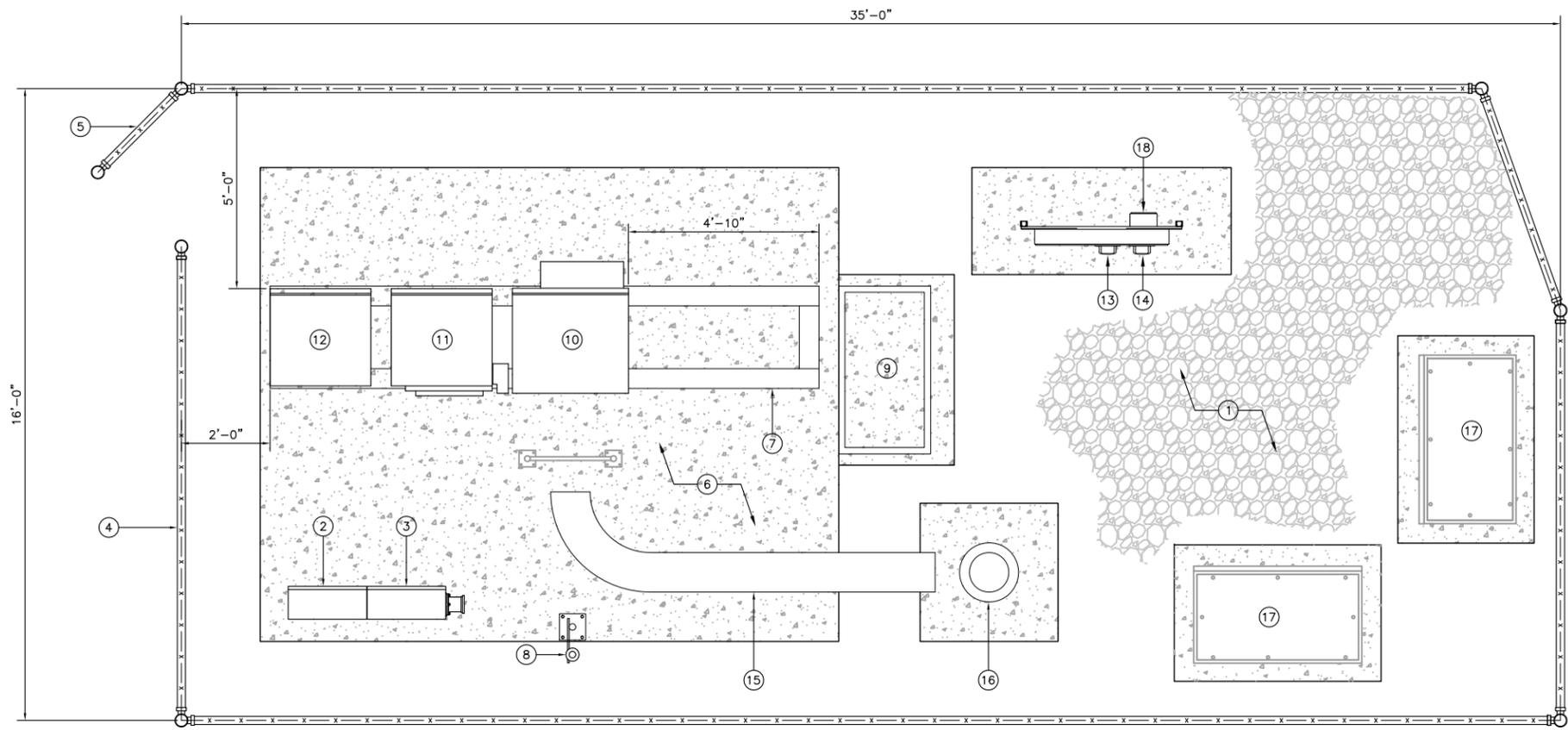




PROJECT NO:	
DRAWN BY:	JSP
CHECKED BY:	MM

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



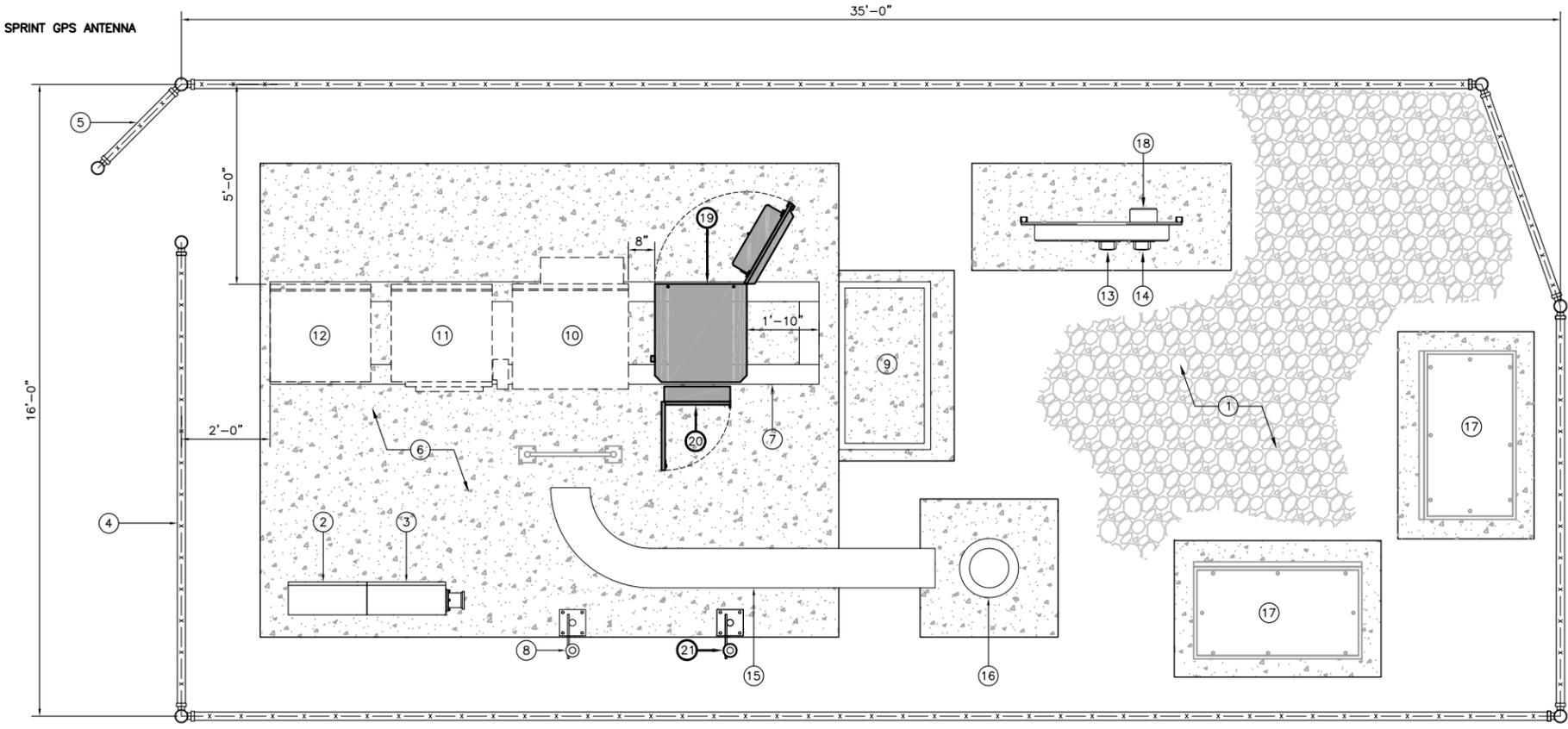
EXISTING EQUIPMENT LAYOUT PLAN

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

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- 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

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

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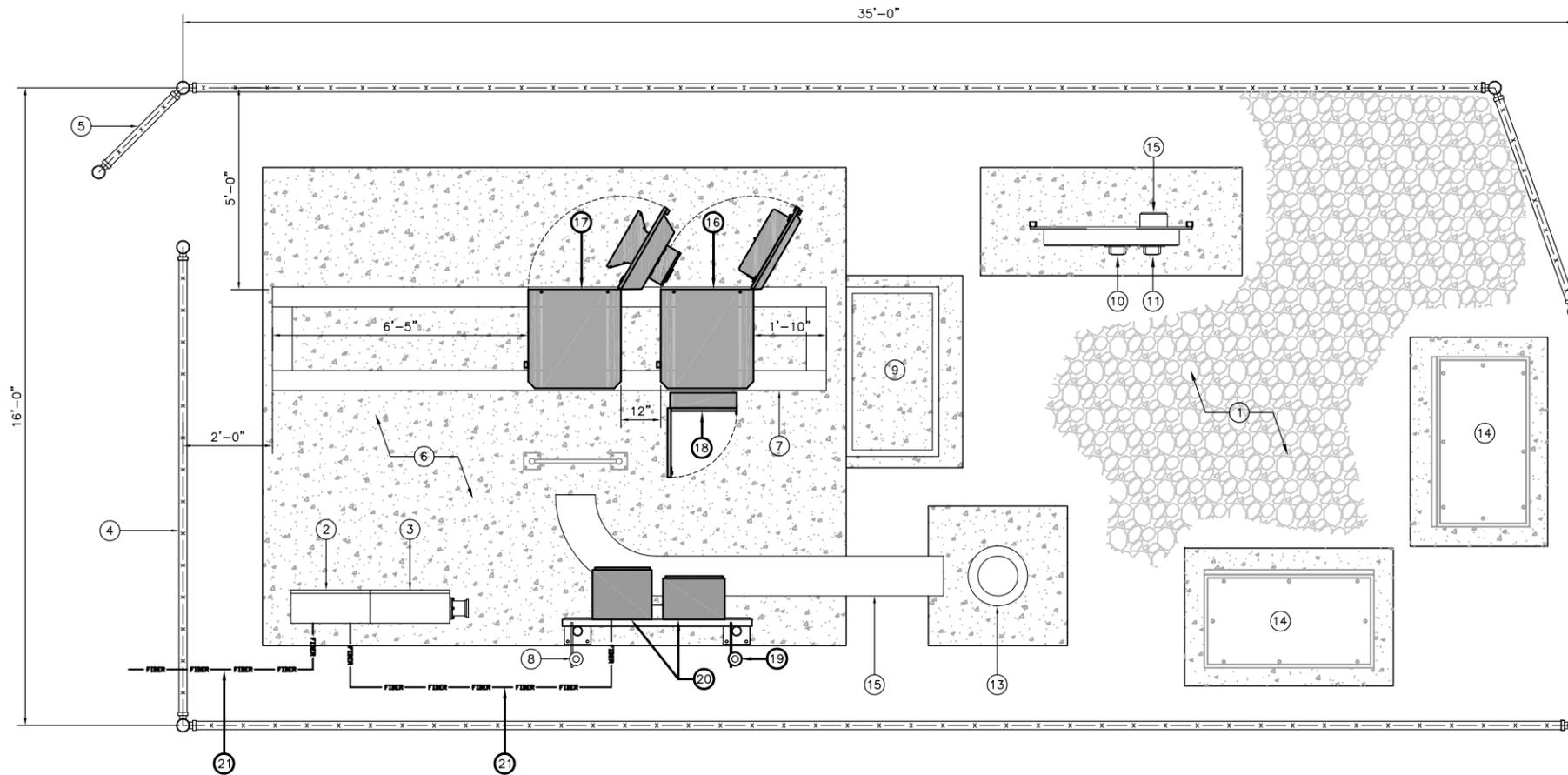
FS04XC191
SAN JOSE WATER DISTRICT
FLEURY STATION #244
1220 PECTEN COURT
MILPITAS, CA 95035

SHEET TITLE
EQUIPMENT LAYOUT PLANS

SHEET NUMBER
A-2

KEYED NOTES:

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- 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



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PROPOSED EQUIPMENT LAYOUT PLAN

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

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SHEET TITLE
EQUIPMENT LAYOUT PLAN

SHEET NUMBER
A-2.1

NOT USED

SCALE NONE 2



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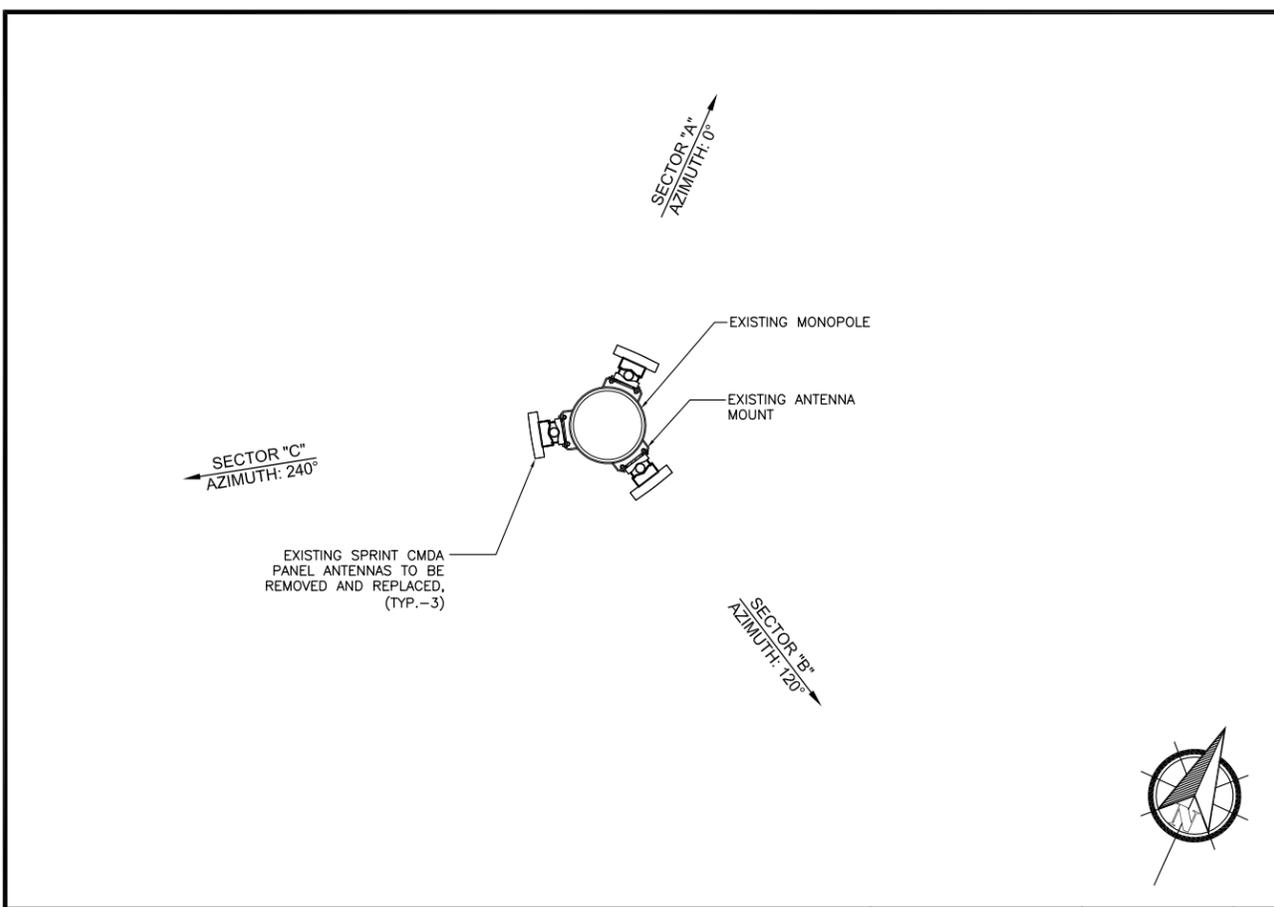
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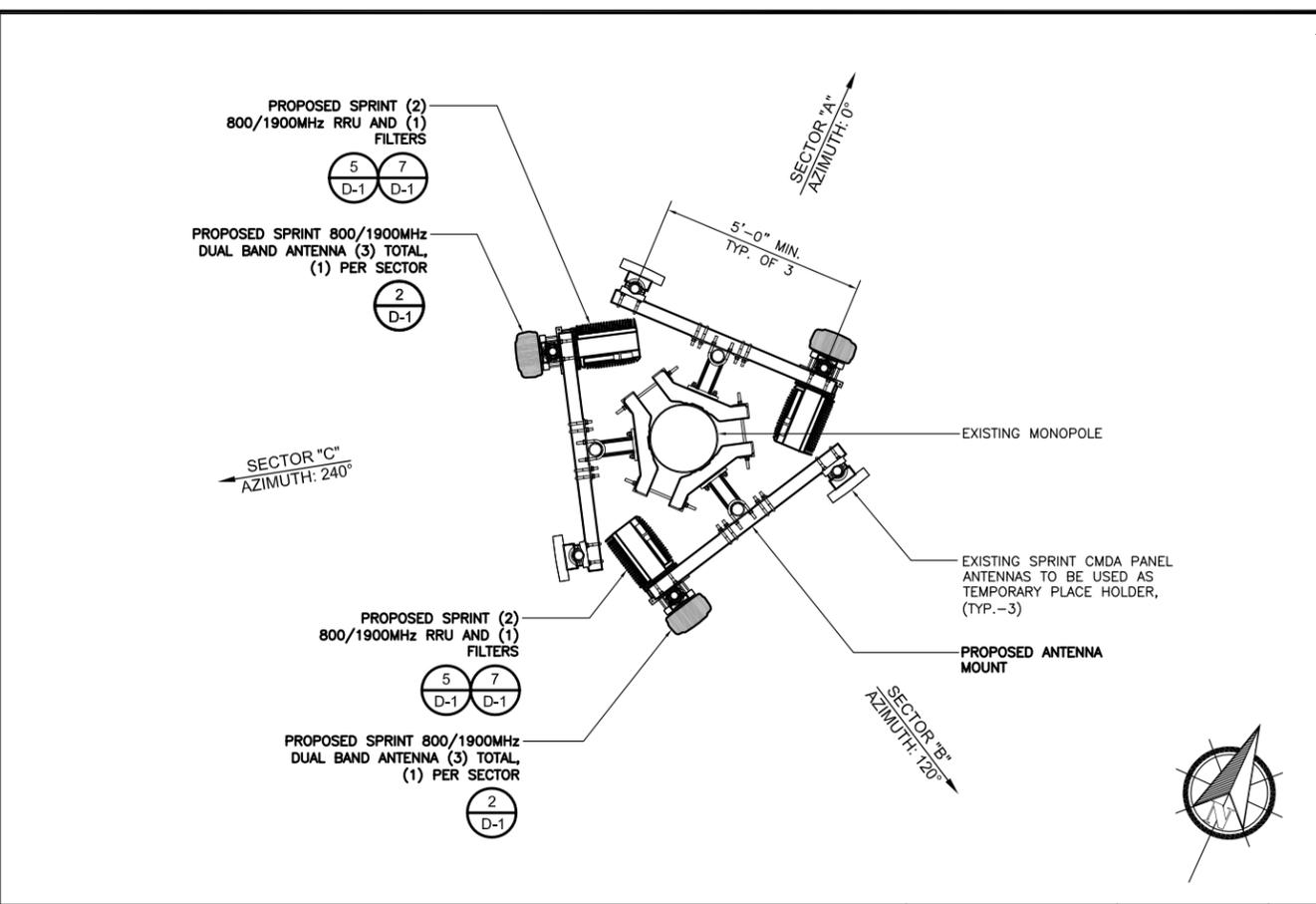
FS04XC191
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SHEET TITLE
 ANTENNA LAYOUTS AND SCHEDULE

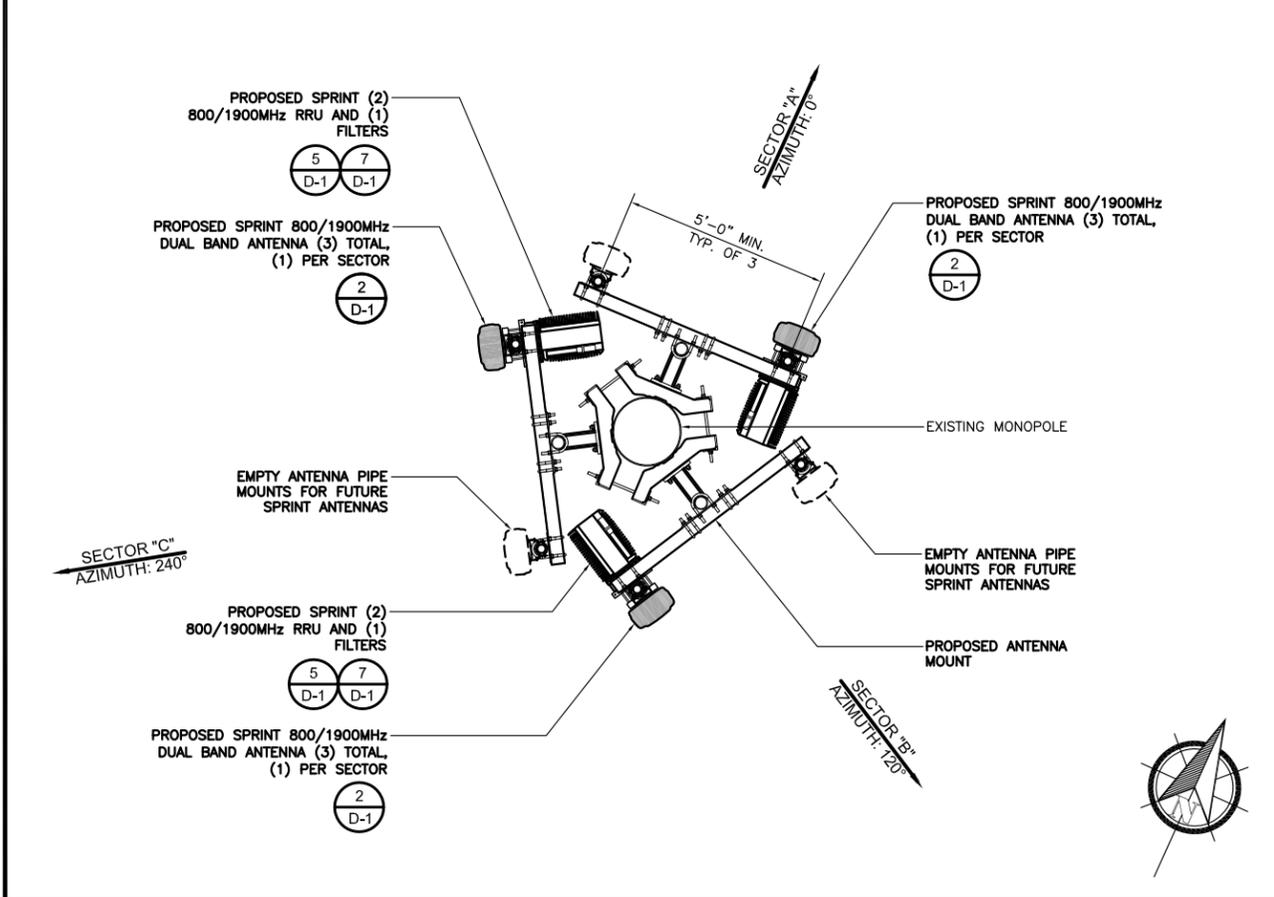
SHEET NUMBER
A-3



EXISTING ANTENNA LAYOUT 1/2" = 1'-0" SCALE



INTERIM ANTENNA LAYOUT 1/2" = 1'-0" SCALE



PROPOSED ANTENNA LAYOUT 1/2" = 1'-0" SCALE

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 SCALE NONE



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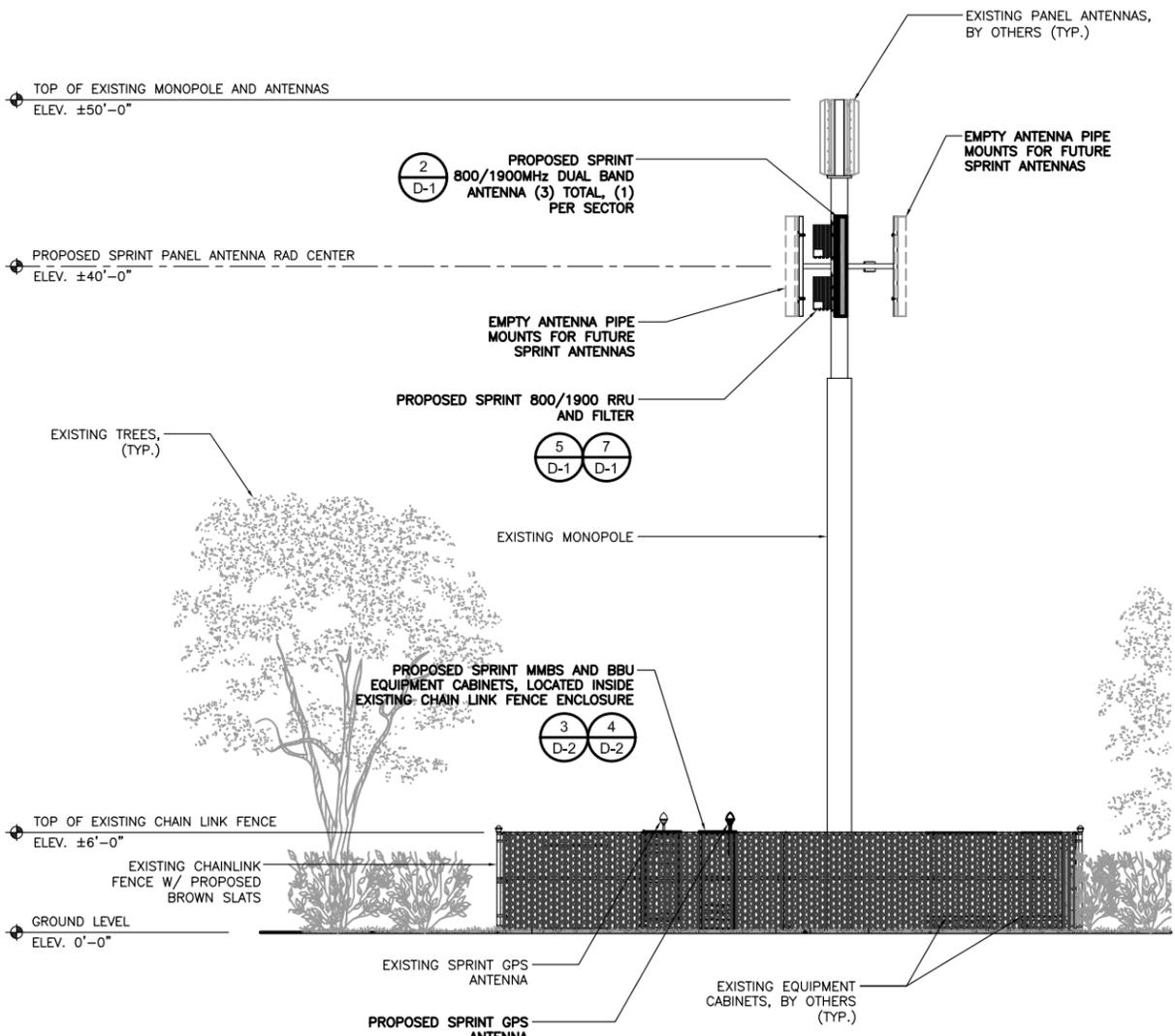
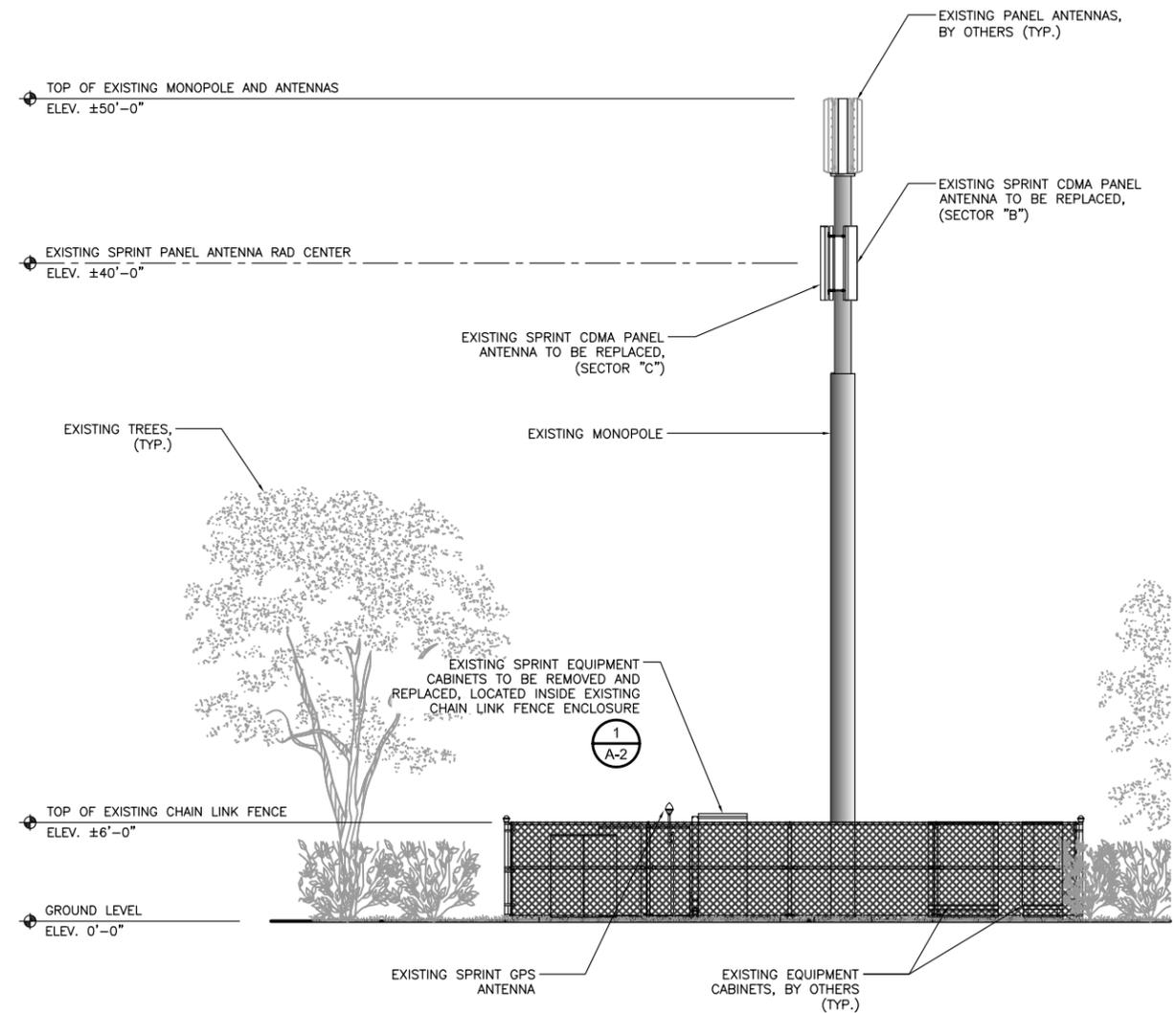
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SHEET TITLE
ELEVATIONS

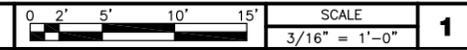
SHEET NUMBER
A-4

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

NOTE

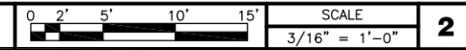


EXISTING SOUTH ELEVATION



1

PROPOSED SOUTH ELEVATION



2



BLACK & VEATCH



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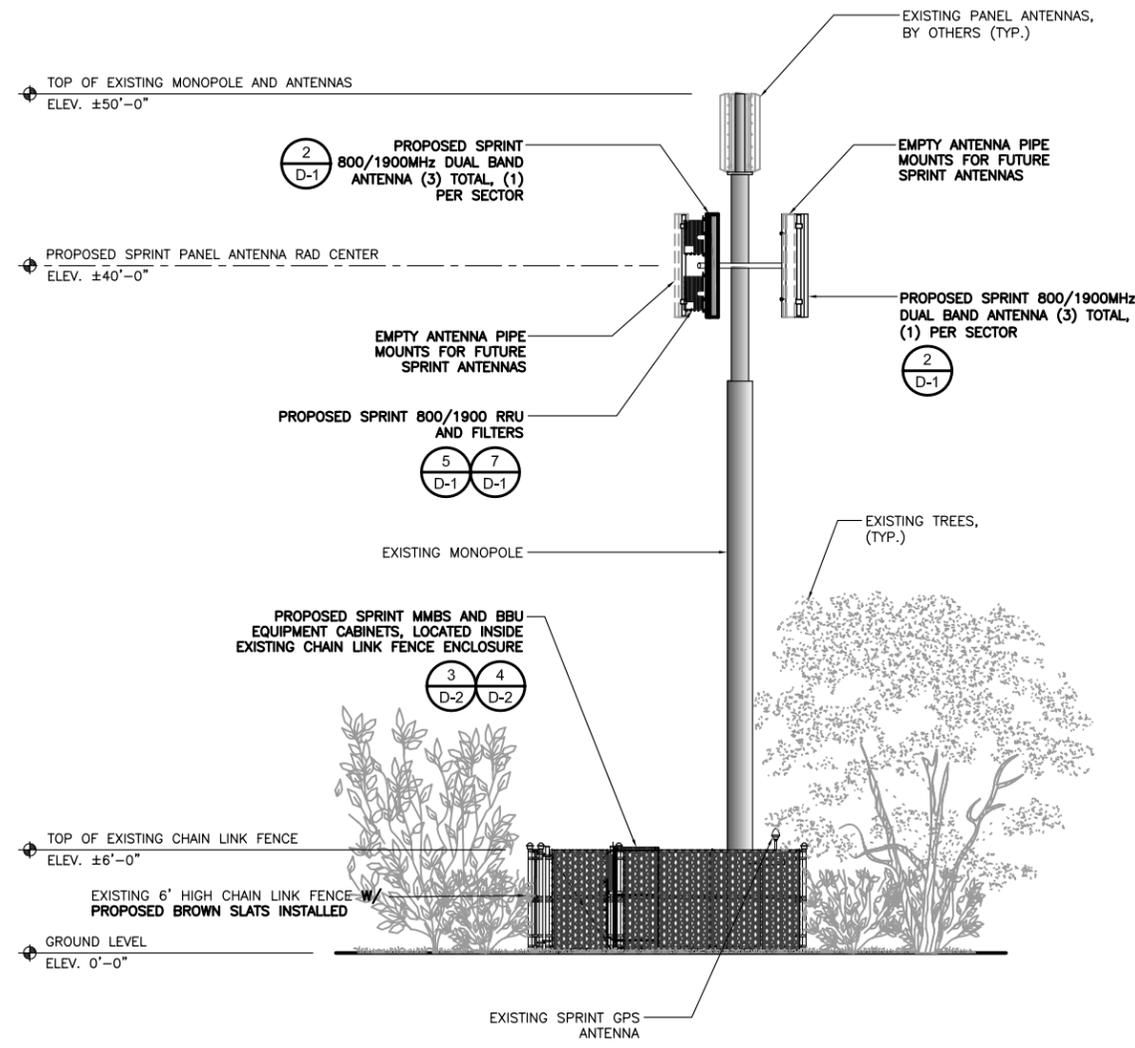
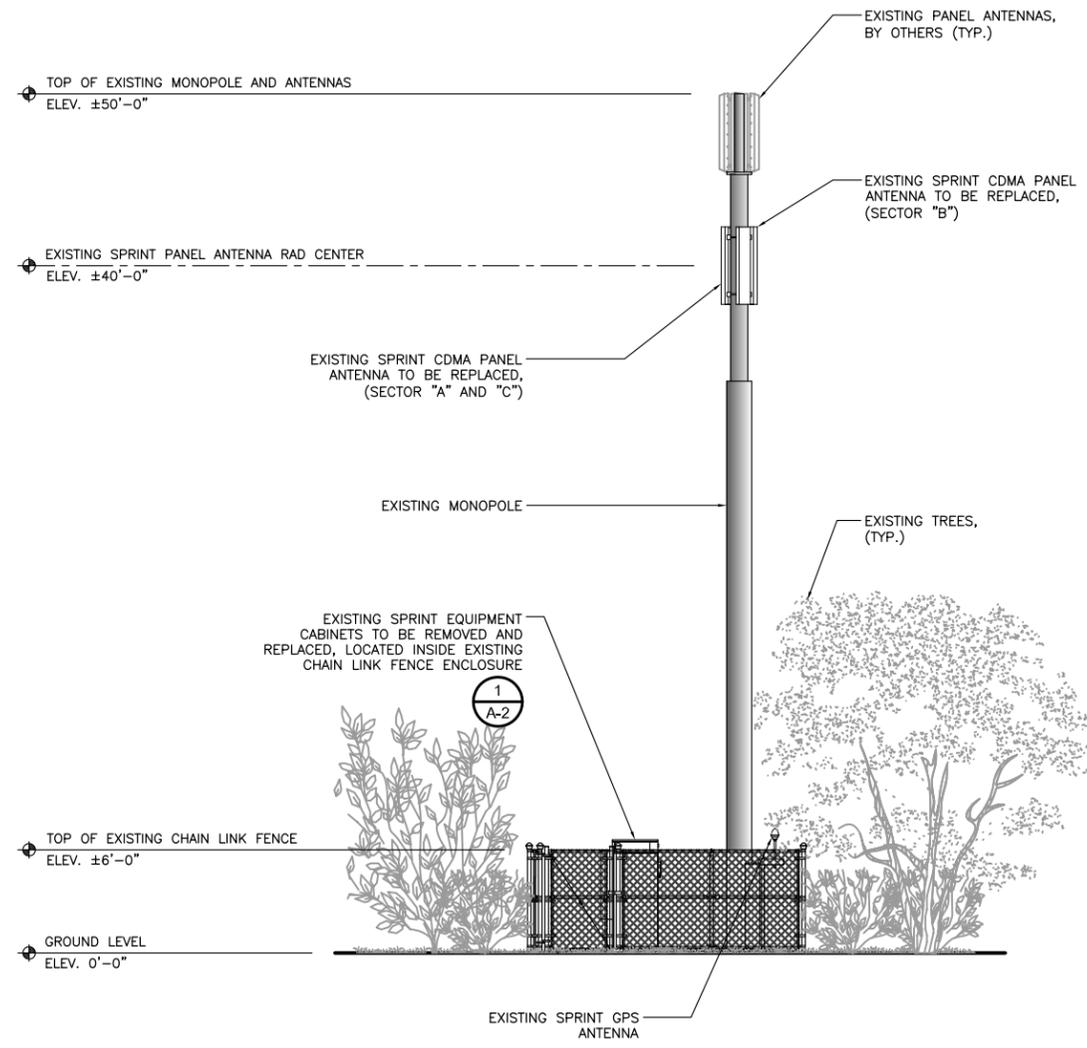
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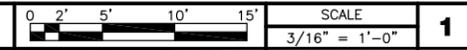
SHEET NUMBER
A-5

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

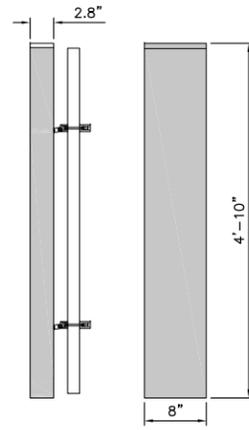
PROPOSED WEST ELEVATION



2

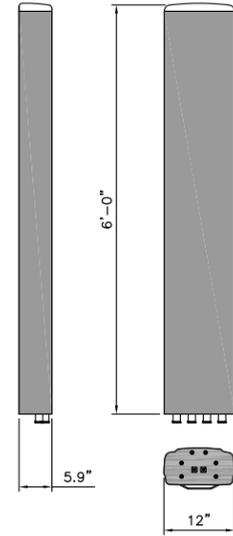
ANTENNA RR90-17-00DP

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



EXISTING ANTENNA

SCALE
NONE

1

PROPOSED ANTENNA SPECIFICATIONS

SCALE
NONE

2

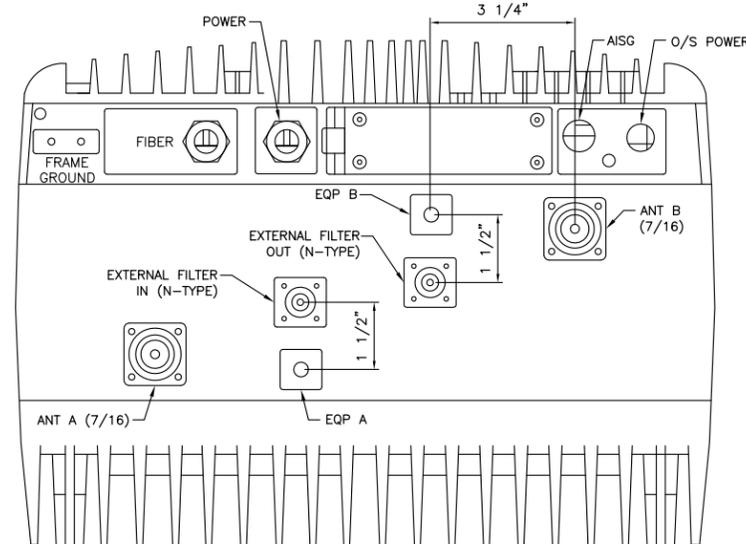
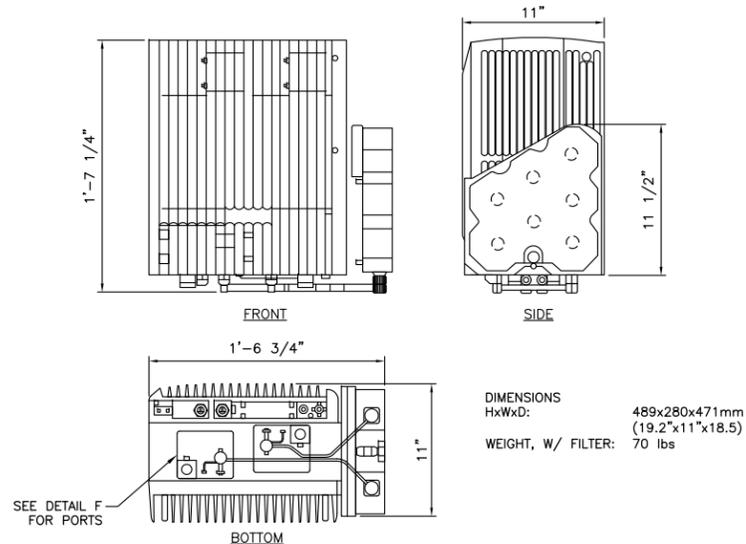
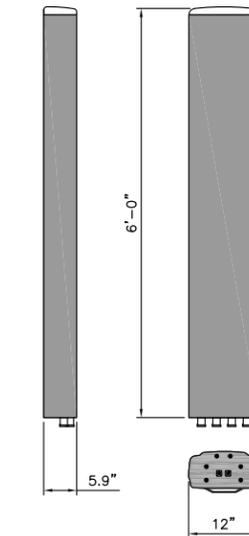
NOT USED

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

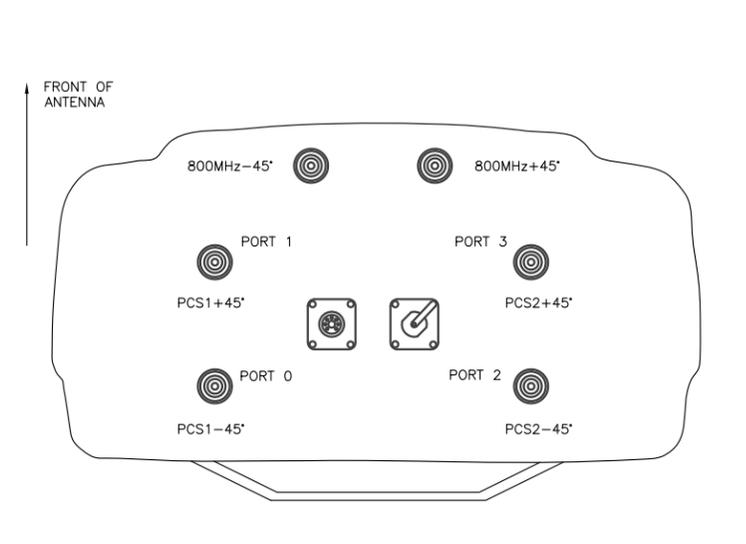
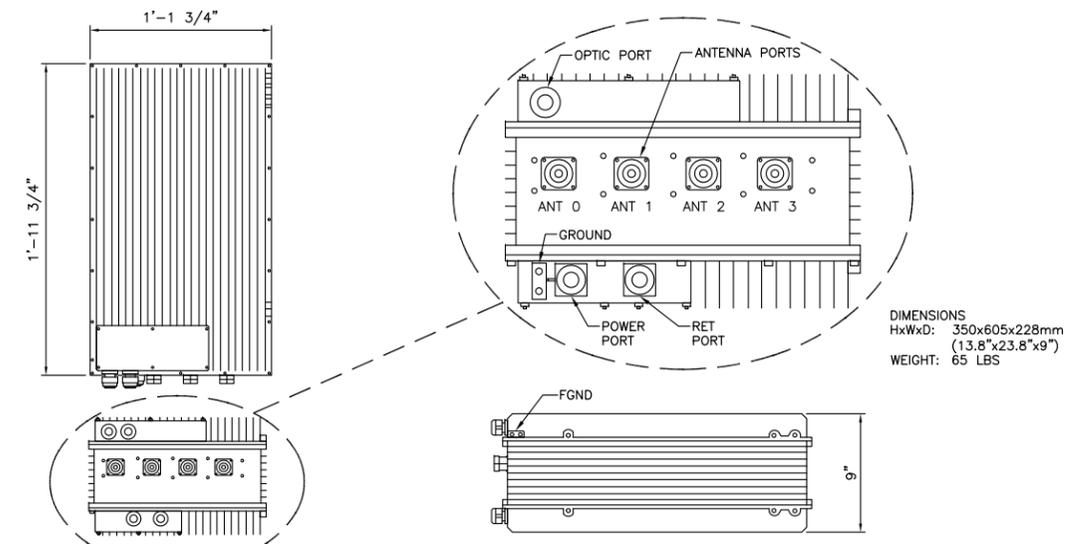
SCALE
NONE

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



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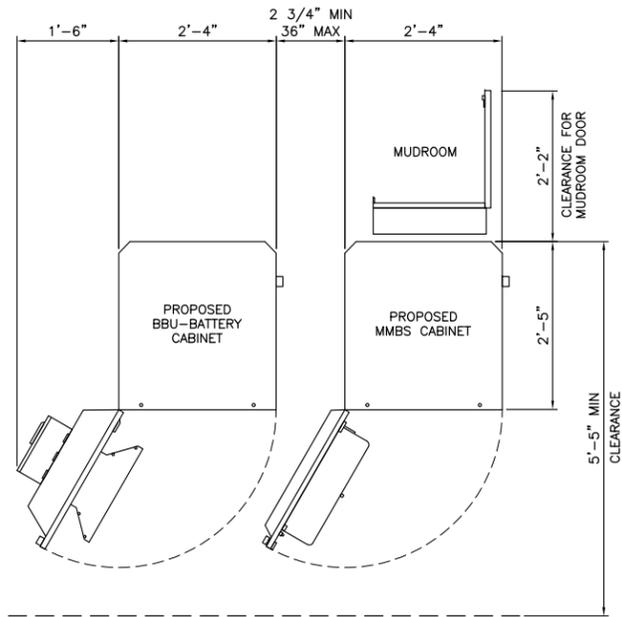
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DETAILS

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MMBS TYPICAL FLOOR PLAN

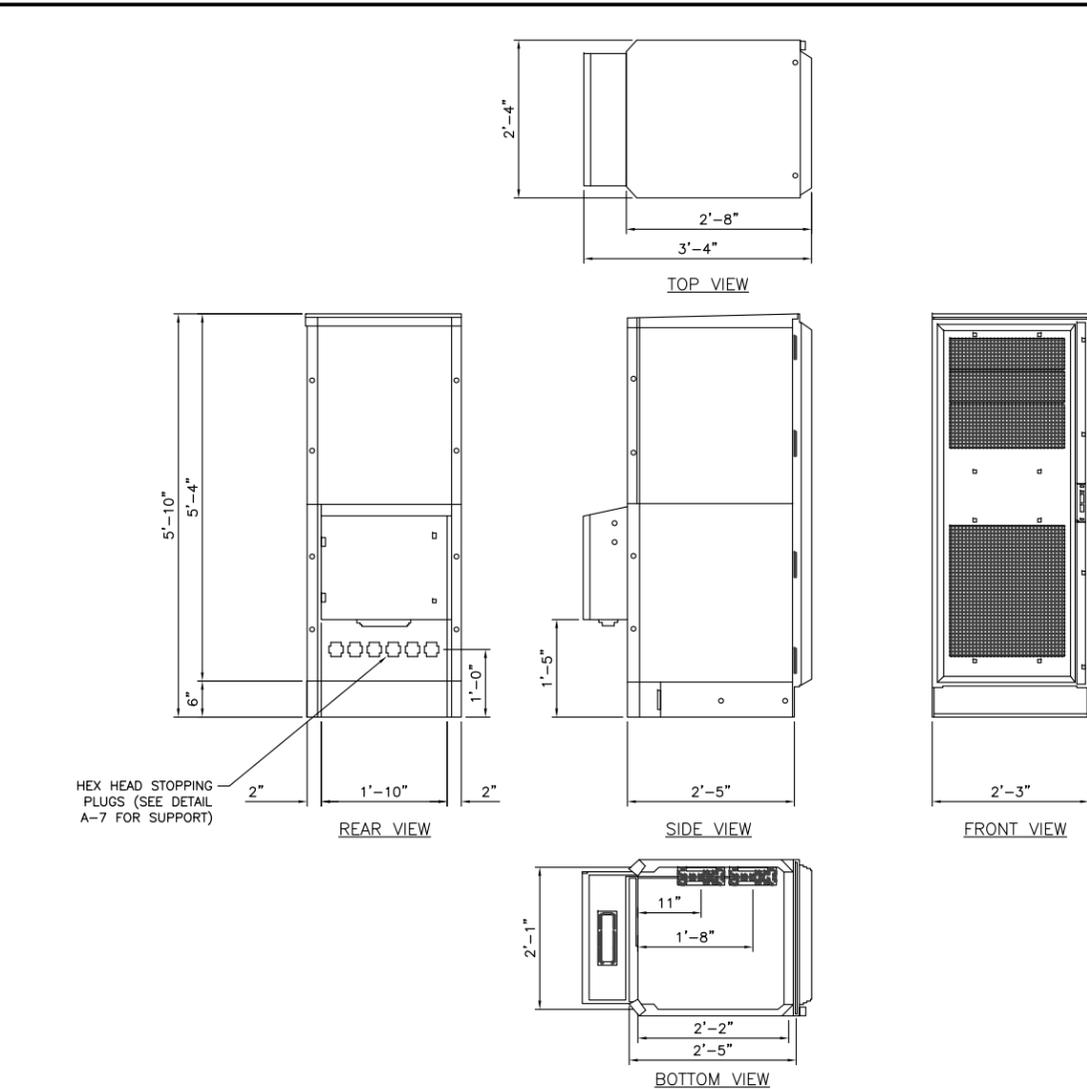
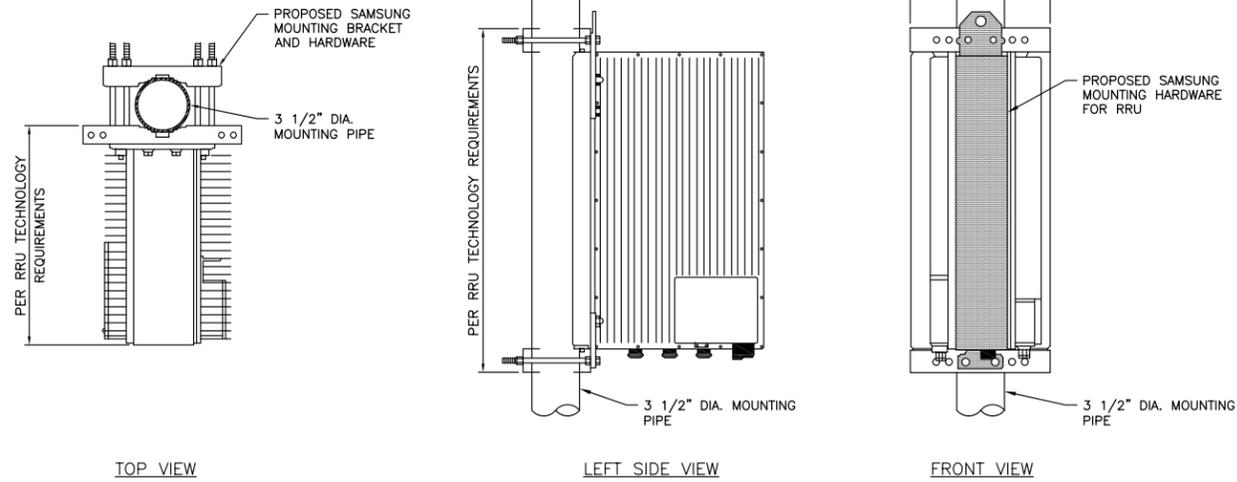
SCALE NONE

1

RRU POLE MOUNT INSTALLATION DETAIL

SCALE NONE

2



MMBS - MECHANICAL SPECIFICATIONS

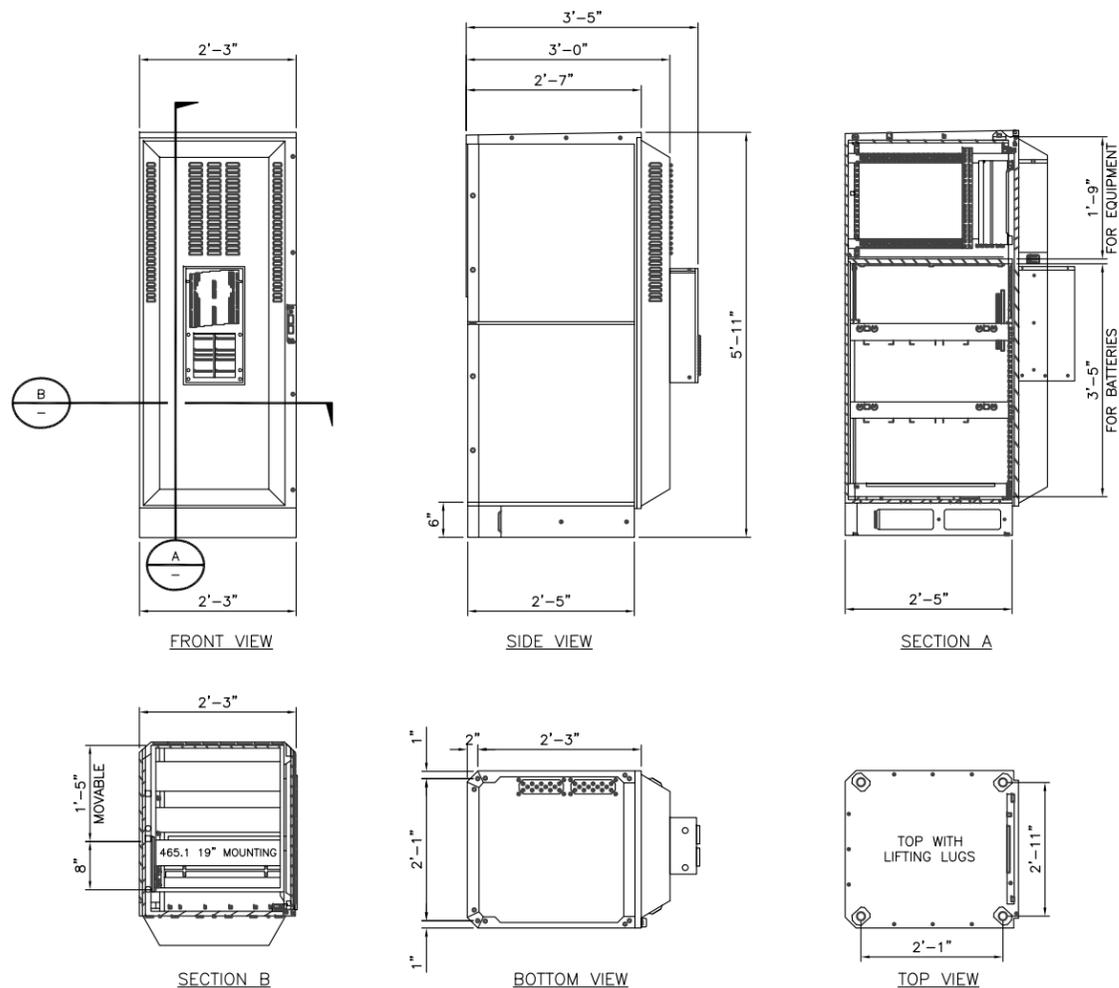
SCALE NONE

3

BBU - BATTERY CABINET

SCALE NONE

4



MMBS - MECHANICAL SPECIFICATIONS

SCALE NONE

3

BBU - BATTERY CABINET

SCALE NONE

4



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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