

# verizon wireless

## ALBANY CROWN CASTLE SITE#: 814025 VERIZON WIRELESS JOB#: 2008316200 VERIZON WIRELESS SITE#: 123577 423 SAN PABLO AVENUE ALBANY, CA. 94706 COUNTY OF ALAMEDA



PROJECT INFORMATION:

ALBANY  
CROWN CASTLE SITE# 814025  
VERIZON WIRELESS JOB# 2008316200  
VERIZON WIRELESS SITE# 123577  
423 SAN PABLO AVENUE  
ALBANY, CA 94706

CURRENT ISSUE DATE:

10/07/10

ISSUED FOR:

100% CONSTRUCTION

REV.: -DATE: -DESCRIPTION: -BY:


COORDINATING ARCHITECT:

Architecture  
Civil Engineering  
Surveying  
Telecommunications

689 Tank Farm Road, Suite 140  
San Luis Obispo, California 93401  
Phone: (805) 544-9700  
www.omnidesigngroup.com  
email: omni@odgso.com

SEAL:



CONSULTANT:



DRAWN BY: \_\_\_\_\_ CHK: \_\_\_\_\_ APV.: \_\_\_\_\_

MPC SM TJR

SHEET TITLE:

TITLE SHEET

SHEET NUMBER: \_\_\_\_\_ REVISION: \_\_\_\_\_

**T-1**  
640-125A

**PROJECT DESCRIPTION**

VERIZON WIRELESS PROPOSES TO:  
REMOVE (4) EXISTING ANTENNAS, (2) PER SECTOR, FROM EXISTING HARDWARE ON EXISTING MONOPOLE  
INSTALL (4) NEW ANTENNAS, (2) PER SECTOR, MOUNTED TO EXISTING HARDWARE ON EXISTING MONOPOLE  
INSTALL (8) NEW COAXIAL CABLES, (4) PER SECTOR, FROM EXISTING EQUIPMENT TO NEW ANTENNAS

**VERIZON SIGNATURE BLOCK**

DISCIPLINE	SIGNATURE	DATE
SITE ACQUISITION	_____	_____
CONSTRUCTION	_____	_____
RADIO	_____	_____
MICROWAVE	_____	_____
TELCO	_____	_____
EQUIPMENT	_____	_____
PROJECT ADMINISTRATOR	_____	_____
WO ADMINISTRATOR	_____	_____

**PROJECT SUMMARY**

**LESSEE**  
VERIZON WIRELESS  
2785 MITCHELL DRIVE  
WALNUT CREEK, CA 94598  
CONTACT: WAYNE LOWELL  
PHONE: 925.279.6333  
FAX: 925.279.6365

**PROPERTY INFORMATION**  
OWNER: CROWN CASTLE  
ADDRESS: 5820 STONERIDGE MALL ROAD, SUITE 300 PLEASANTON, CA 94588  
PROPERTY CONTACT: VICTORIA PETERS  
PHONE: (925) 737-1005  
AREA OF CONSTRUCTION: N/A  
SHELTER OCCUPANCY TYPE: U  
CURRENT ZONING: N/A  
A.P.N.: 67-2827-12

ACCESSIBILITY REQUIREMENTS:  
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.

THE CENTER OF THE PROPOSED ANTENNAS AS SHOWN HEREON IS LOCATED AT THE FOLLOWING COORDINATES:  
NAD 83  
LATITUDE: N 37° 53' 49.73"  
LONGITUDE: W 122° 18' 01.89"

**PROJECT TEAM**

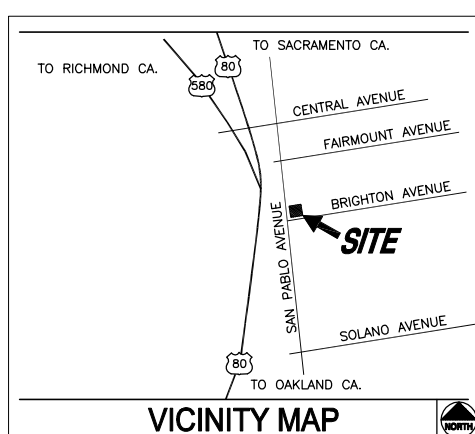
**ARCHITECT:**  
NAME: OMNI DESIGN GROUP, INC.  
ADDRESS: 689 TANK FARM ROAD, SUITE 140  
CITY, STATE, ZIP: SAN LUIS OBISPO, CA 93401  
PROJECT MANAGER: NICK BOCHE  
ARCHITECT: TOM REAY, C-19442  
PHONE: 805-544-9700  
FAX: 805-544-4327

**PROJECT MANAGER:**  
CONTACT: MARK GAGNE  
PHONE: (925) 737-1245

**CONSTRUCTION MANAGER:**  
CONTACT: TED CONGER  
PHONE: (925) 980-0098

**SHEET INDEX**

SHEET	DESCRIPTION	REV.
T-1	TITLE SHEET	
A-1	OVERALL SITE PLAN	
A-2	SITE PLAN	
A-3	SITE, EQUIPMENT, AND ANTENNA PLANS	
A-4	ELEVATIONS	
A-5	ELEVATIONS	
A-6	ANTENNA SPECIFICATIONS	



**DRIVING DIRECTIONS**

FROM THE INTERSECTION OF I-80 AND I-580 AT THE BAY BRIDGE IN BERKELEY TAKE I-80 EAST. FOLLOW I-80 ABOUT 5 MILES AND TAKE THE CENTRAL AVE. EXIT. TURN RIGHT AND FOLLOW CENTRAL AVE. ABOUT 0.5 MILES. TURN RIGHT ON SAN PABLO AVE. AND FOLLOW FOR ABOUT 0.5 MILES. SITE IS ON LEFT. TURN LEFT ON BRIGHTON AVE. GO ONE BLOCK AND TURN LEFT ON KAYS AVE. THEN TURN LEFT INTO BANK PARKING LOT.

**CROWN CASTLE**

DISCIPLINE	SIGNATURE	DATE
SITE ACQUISITION	_____	_____
PLANNER	_____	_____
CONSTRUCTION	_____	_____
PROJECT MANAGER	_____	_____
UTILITY MANAGER	_____	_____
LANDLORD	_____	_____

**CODE COMPLIANCE**

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. NOTHING IN THE PLANS IS TO BE CONSIDERED TO BE PERMIT WORK NOT CONFORMING TO THESE CODES.

- CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25) 2007
- INTERNATIONAL BUILDING CODE 2006
- INTERNATIONAL MECHANICAL CODE 2006
- ANSI/EIA-222-G LIFE SAFETY CODE NFPA-101-1990
- CALIFORNIA PLUMBING CODE 2007
- NATIONAL ELECTRIC CODE 2005
- CALIFORNIA ELECTRIC CODE 2007
- LOCAL BUILDING CODE
- CITY/COUNTY ORDINANCES

**JURISDICTION**

JURISDICTION: CITY OF ALBANY  
PHONE: (510) 747-6800

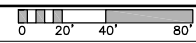
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NOTE:  
EXISTING CONDITIONS AND SITE DATA ARE BASED ON INFORMATION PROVIDED TO OMNI DESIGN GROUP BY CROWN CASTLE. SHOULD OBSERVED CONDITIONS VARY FROM THESE SHOWN HEREIN, NOTIFY OMNI DESIGN GROUP.

BOUNDARY SHOWN IS AN APPROXIMATION BASED ON APN MAPS AND INFORMATION PROVIDED BY OTHERS. NO BOUNDARY SURVEY WAS PERFORMED BY OMNI DESIGN GROUP.

**44** NORTH  
**OVERALL SITE PLAN**  
SCALE: 1"= 40'-0"



PROJECT INFORMATION:  
ALBANY  
CROWN CASTLE SITE# 814025  
VERIZON WIRELESS JOB# 2008316200  
VERIZON WIRELESS SITE# 123577  
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Civil Engineering  
Surveying  
Telecommunications  
489 Tank Farm Road, Suite 140  
San Luis Obispo, California 93401  
Phone: (805) 544-9700  
www.omnidesigngroup.com  
email: omni@odglo.com

SEAL:

CONSULTANT:  
**CROWN CASTLE**

DRAWN BY: JM    CHK: NB    APV.: TR

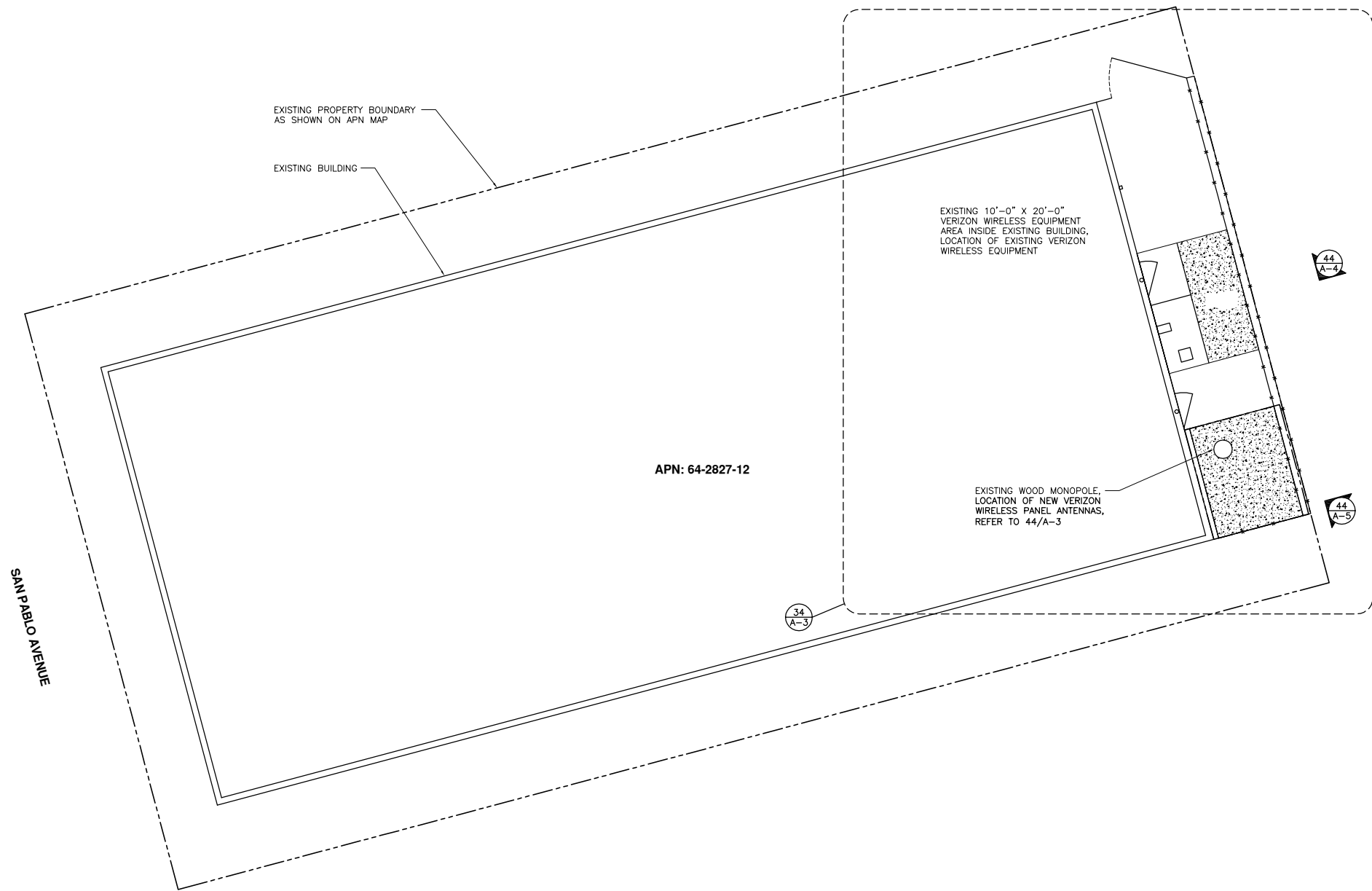
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OVERALL SITE PLAN

SHEET NUMBER: **A-1**    REVISION:  
640-125A

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**44**  
NORTH  
**SITE PLAN**  
SCALE: 3/16"=1'-0"



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email: omni@odglo.com

**SEAL:**

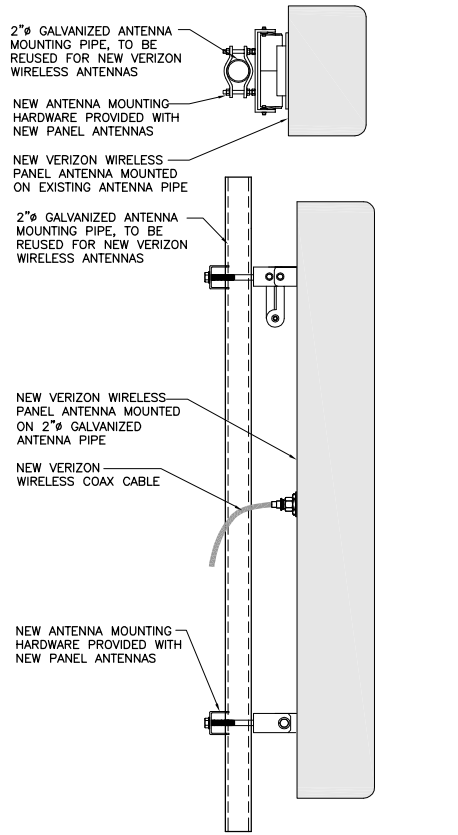
**CONSULTANT:**  
**CROWN CASTLE**

**DRAWN BY:** JM    **CHK:** NB    **APV.:** TR

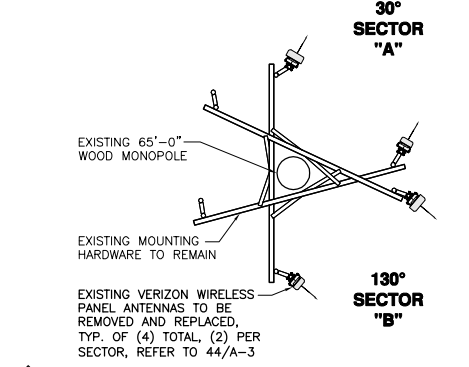
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SITE PLAN

**SHEET NUMBER:** **A-2**    **REVISION:** 640-125A

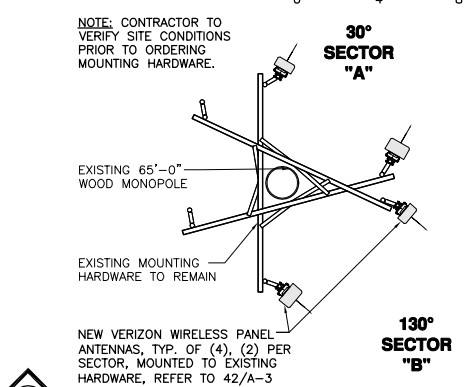
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42 ANTENNA MOUNTING DETAIL  
SCALE: 1 1/2"=1'-0"



43 EXISTING ANTENNA PLAN @ 59' AGL  
SCALE: 1/4"=1'-0"



44 NEW ANTENNA PLAN @ 59' AGL  
SCALE: 1/4"=1'-0"

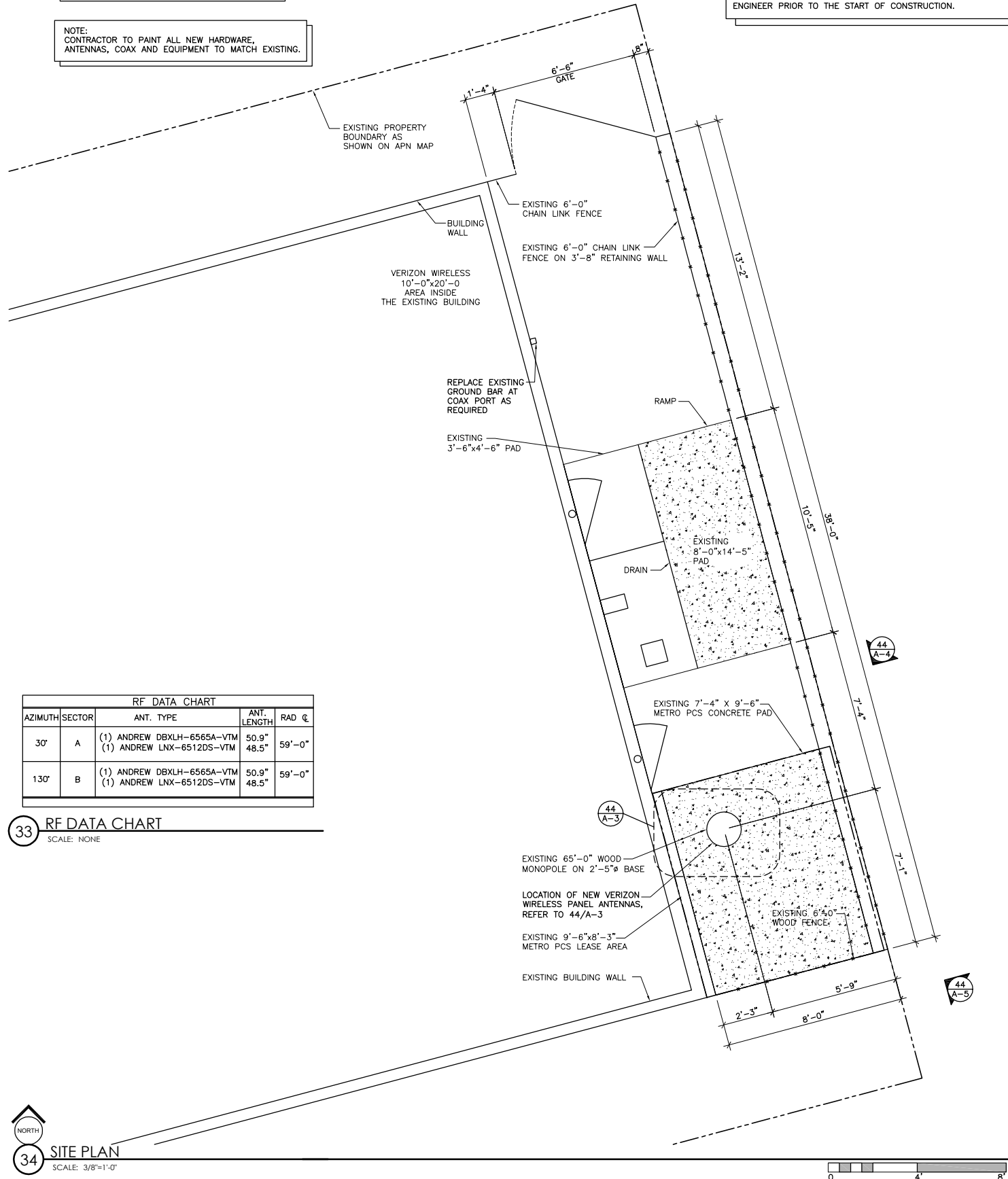
NOTE:  
CONTRACTOR TO MAKE USE OF EXISTING COAX AND ANTENNA MOUNTING HARDWARE IF POSSIBLE

BOUNDARY SHOWN IS AN APPROXIMATION BASED ON APN MAPS AND INFORMATION PROVIDED BY OTHERS. NO BOUNDARY SURVEY WAS PERFORMED BY OMNI DESIGN GROUP.

NOTE:  
CONTRACTOR TO PAINT ALL NEW HARDWARE, ANTENNAS, COAX AND EQUIPMENT TO MATCH EXISTING.

NOTE:  
EXISTING CONDITIONS AND SITE DATA ARE BASED ON INFORMATION PROVIDED TO OMNI DESIGN GROUP BY CROWN CASTLE. SHOULD OBSERVED CONDITIONS VARY FROM THESE SHOWN HEREIN, NOTIFY OMNI DESIGN GROUP.

NOTE:  
1. ALL AZIMUTHS REFERENCE TRUE NORTH. ALL ELEVATIONS REFERENCE ADJACENT GRADE.  
2. AZIMUTH SHOWN IS PRELIMINARY. CONTRACTOR SHALL INSTALL ANTENNAS TO CONFORM TO THE SITE BUILD FORM PROVIDED BY VERIZON WIRELESS.  
3. CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER SHOULD ANY VARIATION IN AZIMUTH, BETWEEN THAT INDICATED HEREIN AND THAT SPECIFIED ON THE SITE BUILD FORM, CREATE POSSIBLE IMPACT OR DEGRADATION OF SITE PERFORMANCE.  
4. VERIFY ANTENNA MAKE AND MODEL NUMBER WITH THE RF ENGINEER PRIOR TO THE START OF CONSTRUCTION.



RF DATA CHART				
AZIMUTH	SECTOR	ANT. TYPE	ANT. LENGTH	RAD Q.
30°	A	(1) ANDREW DBXLH-6565A-VTM	50.9"	59°-0"
		(1) ANDREW LNX-6512DS-VTM	48.5"	
130°	B	(1) ANDREW DBXLH-6565A-VTM (1) ANDREW LNX-6512DS-VTM	50.9" 48.5"	59°-0"

33 RF DATA CHART  
SCALE: NONE

34 SITE PLAN  
SCALE: 3/8"=1'-0"

NOTE:  
ALL MOUNTS AND ANTENNAS ARE TO MATCH EXISTING CONFIGURATION. THIS IS A LIKE FOR LIKE SWAP.



2785 MITCHELL DR.  
WALNUT CREEK, CA 94598

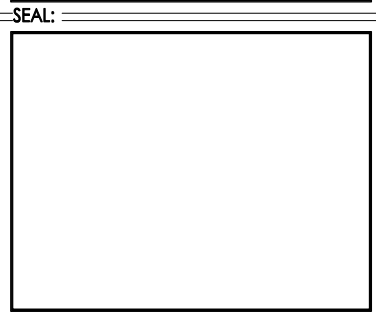
PROJECT INFORMATION:  
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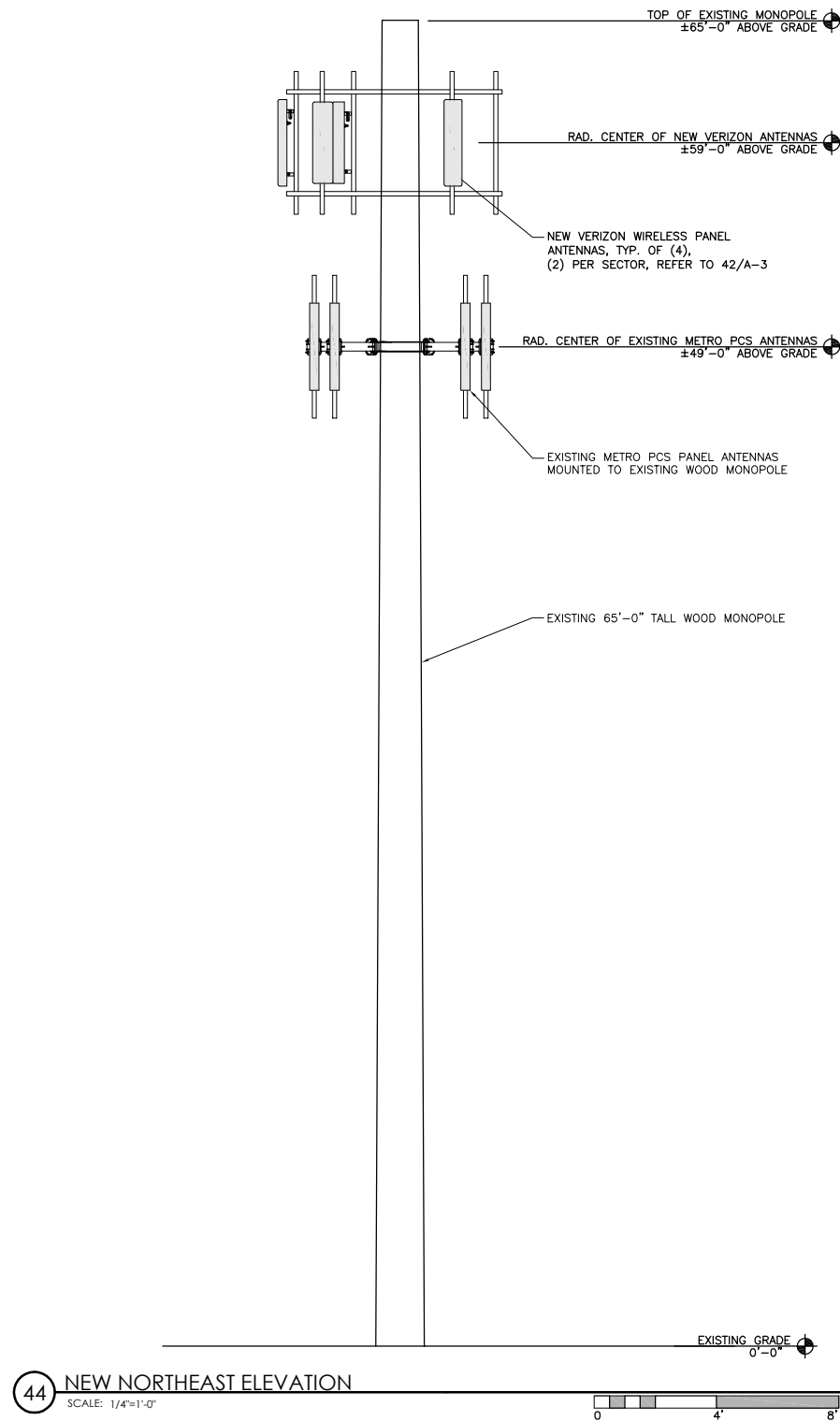
CONSULTANT:  
CROWN CASTLE

DRAWN BY: JM CHK: NB APV.: TR

SHEET TITLE:  
SITE AND ANTENNA LAYOUT PLAN

SHEET NUMBER: A-3 REVISION:  
640-125A

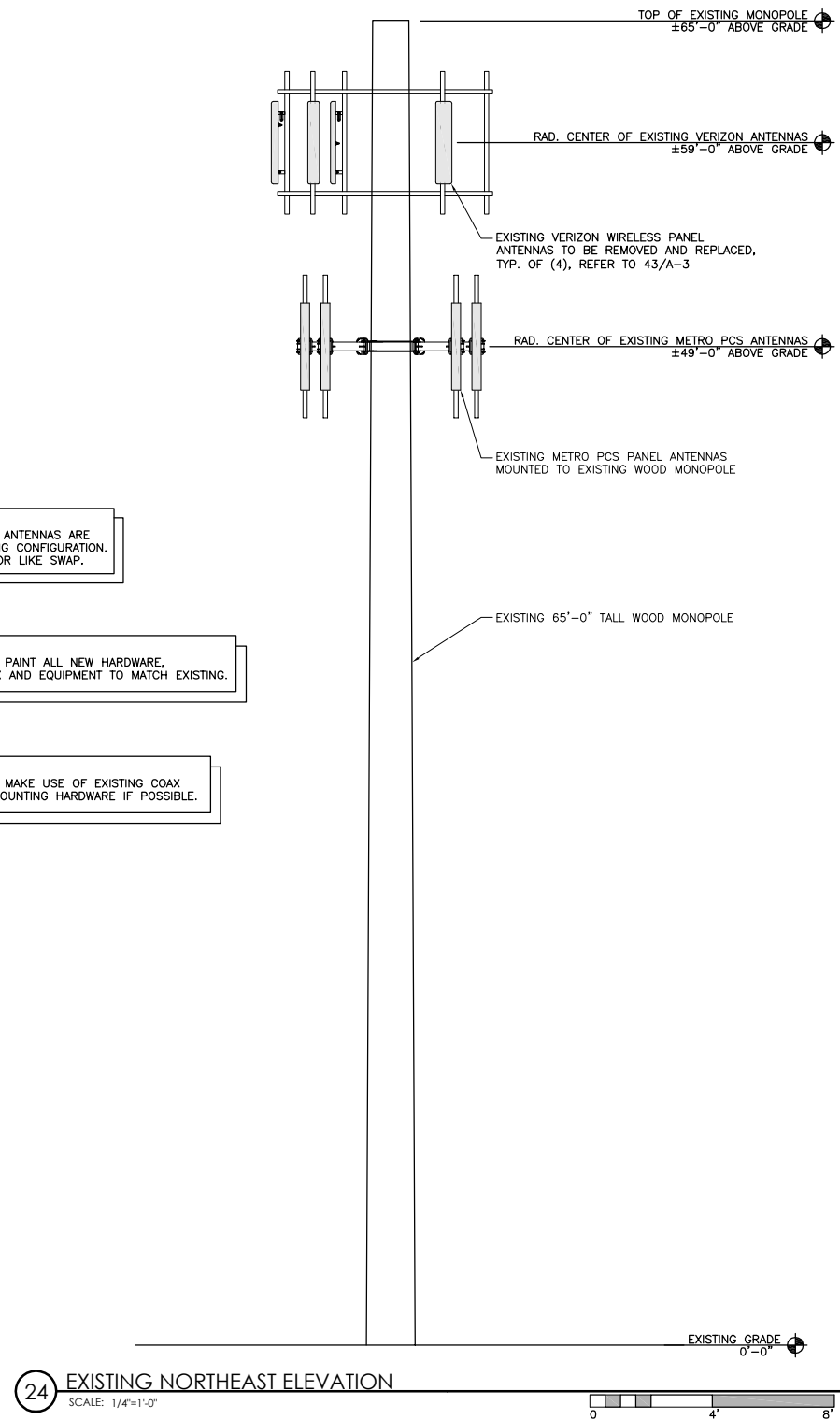
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NOTE:  
ALL MOUNTS AND ANTENNAS ARE TO MATCH EXISTING CONFIGURATION. THIS IS A LIKE FOR LIKE SWAP.

NOTE:  
CONTRACTOR TO PAINT ALL NEW HARDWARE, ANTENNAS, COAX AND EQUIPMENT TO MATCH EXISTING.

NOTE:  
CONTRACTOR TO MAKE USE OF EXISTING COAX AND ANTENNA MOUNTING HARDWARE IF POSSIBLE.




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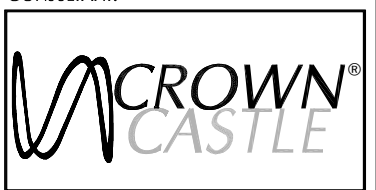
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100% CONSTRUCTION

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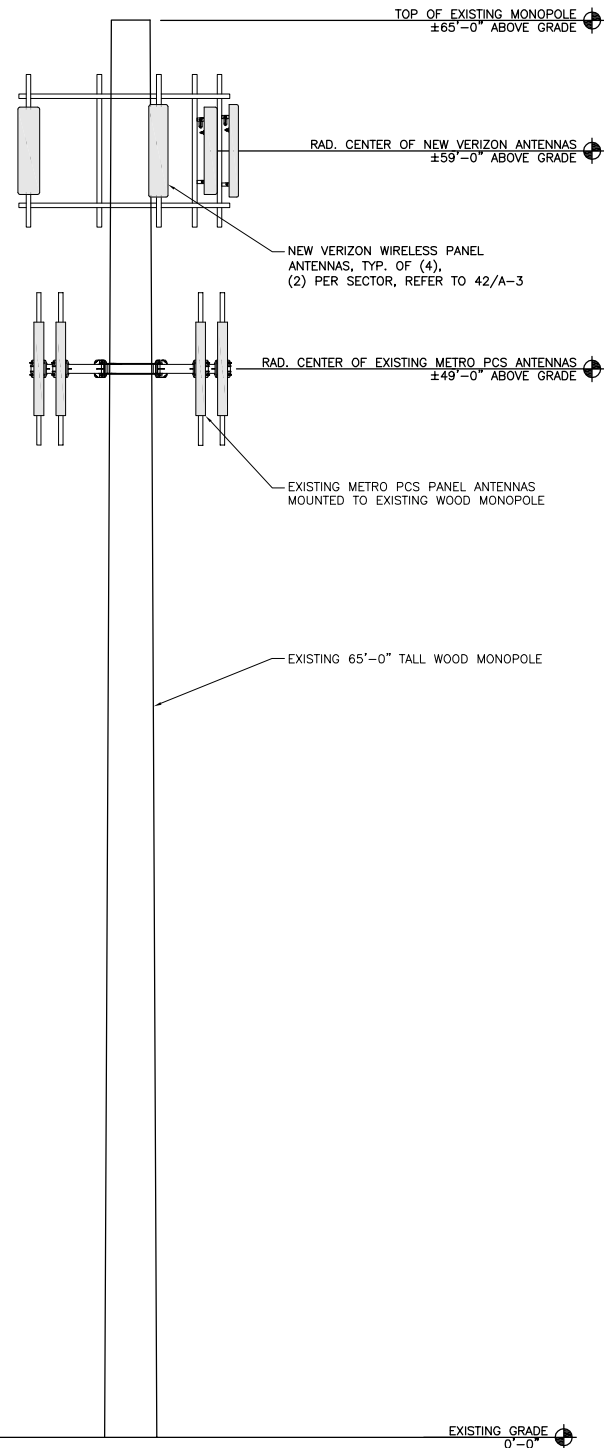
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SHEET TITLE:  
ELEVATIONS

SHEET NUMBER: A-4    REVISION: 640-125A

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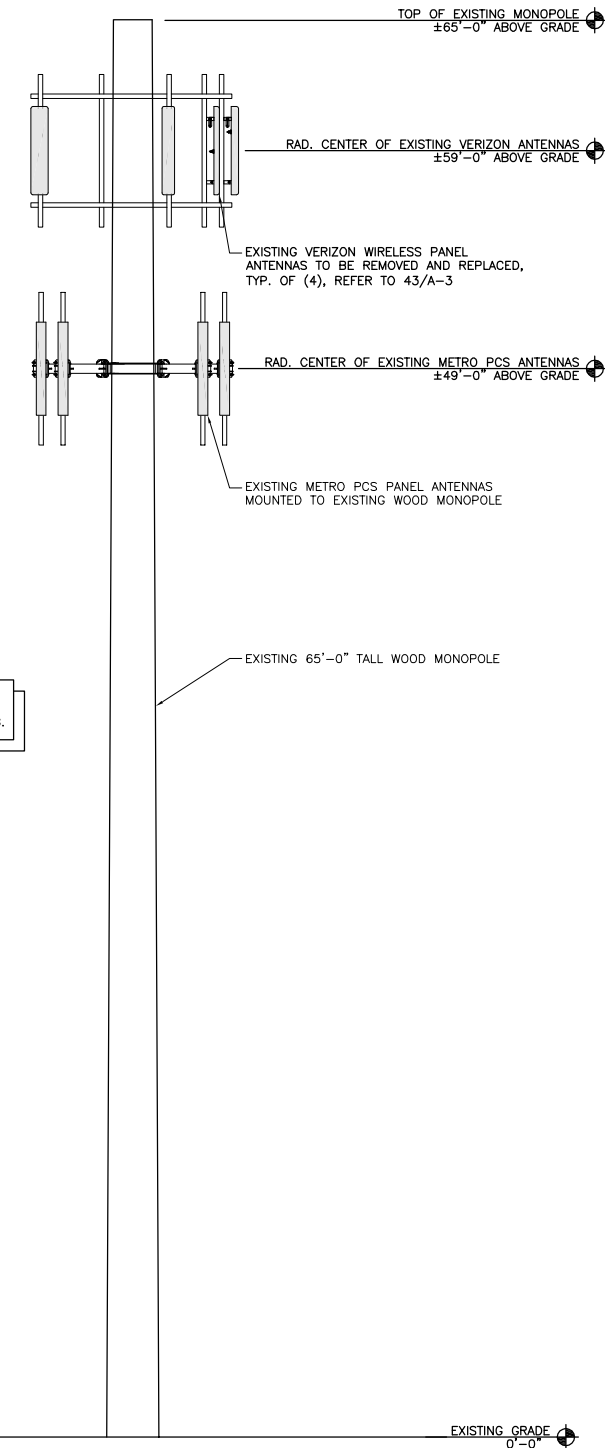


44 NEW SOUTHEAST ELEVATION  
SCALE: 1/4"=1'-0"  
0 4 8

NOTE:  
ALL MOUNTS AND ANTENNAS ARE  
TO MATCH EXISTING CONFIGURATION.  
THIS IS A LIKE FOR LIKE SWAP.

NOTE:  
CONTRACTOR TO PAINT ALL NEW HARDWARE,  
ANTENNAS, COAX AND EQUIPMENT TO MATCH EXISTING.

NOTE:  
CONTRACTOR TO MAKE USE OF EXISTING COAX  
AND ANTENNA MOUNTING HARDWARE IF POSSIBLE.



24 EXISTING SOUTHEAST ELEVATION  
SCALE: 1/4"=1'-0"  
0 4 8



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SEAL:

CONSULTANT:  
**CROWN CASTLE**

DRAWN BY: JM    CHK.: NB    APV.: TR

SHEET TITLE:  
ELEVATIONS

SHEET NUMBER: A-5    REVISION:  
640-125A

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## Product Specifications



**LNK-6512DS-VTM**  
DualPol® Antenna, 698-896 MHz, 65° horizontal beamwidth, RET compatible variable electrical tilt



- Excellent choice to maximize both coverage and capacity in suburban and rural applications
- Ideal choice for site collocations and tough zoning restrictions
- Extended elevation tilt for maximum flexibility in urban core areas
- Remote beam tilt management is an optional feature using Andrew's Teletilt® system

### CHARACTERISTICS

#### General Specifications

Antenna Type DualPol®  
Brand DualPol® | Teletilt®  
Operating Frequency Band 698 - 896 MHz

#### Electrical Specifications

Frequency Band, MHz	698-806	806-896
Beamwidth, Horizontal, degrees	65	65
Gain, dBi	12.0	12.3
Gain, dBd	14.1	14.4
Beamwidth, Vertical, degrees	19.0	17.0
Beam Tilt, degrees	0-15	0-15
Upper Sidelobe Suppression (USLS), typical, dB	17	18
Front-to-Back Ratio at 180°, dB	28	28
Isolation, dB	30	30
VSWR   Return Loss, db	1.4:1   15.6	1.4:1   15.6
Intermodulation Products, 3rd Order, 2 x 20 W, dbc	-150	-150
Input Power, maximum, watts	400	400
Polarization	±45°	±45°
Impedance, ohms	50	50
Lightning Protection	dc Ground	dc Ground

www.commscope.com/andrew

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6/16/2009

## Product Specifications



**LNK-6512DS-VTM**

### Mechanical Specifications

Color	Light gray
Connector Interface	7-16 DIN Female
Connector Location	Bottom
Connector Quantity	2
Wind Loading, maximum	375.9 N @ 100 mph 84.5 lbf @ 100 mph
Wind Speed, maximum	241.4 km/h   150.0 mph

### Dimensions

Depth	181.0 mm   7.1 in
Length	1232.0 mm   48.5 in
Width	301.0 mm   11.9 in
Net Weight	12.6 kg   27.8 lb

### Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 1.1 Actuator LNK-6512DS-R2M  
Model with Factory Installed AISG 2.0 Actuator LNK-6512DS-A1M  
RET System Teletilt®

### Included Products



DownTilt Mounting Kit for panel Antennas

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## Product Specifications



**DBXLH-6565A-VTM**

DualPol® Dual Band Antenna, 824-960 MHz and 1710-2180 MHz, 65° horizontal beamwidth, RET compatible variable electrical tilt



- Two DualPol® antennas under one radome
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Each antenna is independently capable of field adjustable electrical tilt
- Fully compatible with Andrew Teletilt® remote control system

### CHARACTERISTICS

#### General Specifications

Antenna Type DualPol® dual band  
Brand DualPol® | Teletilt®  
Operating Frequency Band 1710 - 2180 MHz | 824 - 960 MHz

#### Electrical Specifications

Frequency Band, MHz	824-896	870-960	1710-1880	1850-1990	1920-2180
Beamwidth, Horizontal, degrees	68	65	65	63	61
Gain, dBi	11.9	12.2	14.4	14.7	14.9
Gain, dBd	14.0	14.3	16.5	16.8	17.0
Beamwidth, Vertical, degrees	16.0	15.0	7.2	6.8	6.5
Beam Tilt, degrees	0-15	0-15	0-8	0-8	0-8
Upper Sidelobe Suppression (USLS), typical, dB	16	18	15	15	15
Front-to-Back Ratio at 180°, dB	25	25	28	28	27
Isolation, dB	25	30	30	30	30
VSWR   Return Loss, db	1.4:1   15.6	1.5:1   14.0	1.5:1   14.0	1.4:1   15.6	1.5:1   14.0
Intermodulation Products, 3rd Order, 2 x 20 W, dbc	-150	-150	-150	-150	-150
Input Power, maximum, watts	300	300	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance, ohms	50	50	50	50	50
Lightning Protection	dc Ground	dc Ground	dc Ground	dc Ground	dc Ground

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4/16/2010

## Product Specifications



**DBXLH-6565A-VTM**

### Mechanical Specifications

Color	Light gray
Connector Interface	7-16 DIN Female
Connector Location	Bottom
Connector Quantity	4
Wind Loading, maximum	402.2 N @ 150 km/h 90.4 lbf @ 150 km/h
Wind Speed, maximum	201.0 km/h   124.9 mph

### Dimensions

Depth	132.0 mm   5.2 in
Length	1294.0 mm   50.9 in
Width	269.0 mm   10.6 in
Net Weight	14.2 kg   31.3 lb

### Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 1.1 Actuator DBXLH-6565A-R2M  
Model with Factory Installed AISG 2.0 Actuator DBXLH-6565A-A2M  
RET System Teletilt®

### Regulatory Compliance/Certifications

Agency Classification  
RoHS 2002/95/EC Compliant by Exemption  
China RoHS SJ/T 11364-2006 Above Maximum Concentration Value (MCV)



### INCLUDED PRODUCTS

- **600899A-2**  
DownTilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members

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4/16/2010



### PROJECT INFORMATION:

**ALBANY**  
**CROWN CASTLE SITE# 814025**  
VERIZON WIRELESS JOB# 2008316200  
VERIZON WIRELESS SITE# 123577  
423 SAN PABLO AVENUE  
ALBANY, CA 94706

### CURRENT ISSUE DATE:

10/07/10

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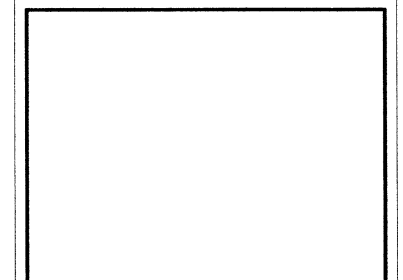
### REV.: DATE: DESCRIPTION: BY:

REV.	DATE	DESCRIPTION	BY

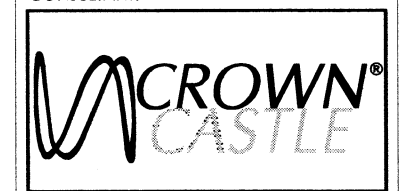
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### CONSULTANT:



### DRAWN BY: CHK.: APV.:

JM	NB	TR
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### SHEET TITLE:

ANTENNA SPECIFICATIONS

### SHEET NUMBER: REVISION:

**A-6**  
640-125A