

Electrical

Power Supply	
Mains Power, Vac.	85 to 264
	115 or 230
Power consumption, watts	1150

Optical

Connectors	E2000/APC 8°
Optical return loss, dB	45 minimum
Fiber type, mm	Single mode E9/125
Optical link budget, dB	0 to 10
Composite input power @ OTRx master side, dBm	
1900 MHz	+5 composite
1700 / 2100 MHz	+5 composite

Interface

BTS Side	
Number of connectors	
1900 MHz	4
1700/2100 MHz	4
System optimized for BTS power, dBm	
	33
	43
Antenna Port	
Connector	7/16 Female
Output power	See band specification
Return loss, dB	15

1700/2100 MHz (AWS)

Frequency range, MHz	
Uplink	1710 to 1755
Downlink	2110 to 2155

Output power per carrier, dBm*

Number of Carriers	1	2	4	8
GSM	45	42	39	36
CDMA	45	42	39	36
UMTS	45	42	39	36
LTE	45	42**	39	36

Spurious emission < -13 dBm / 1 MHz

Adjacent channel power, dBc -48

DL output tolerance over frequency, dB ±1

DL output tolerance over temperature, dB 0.5***

Input ICP3, dBm

ICP3 optimized	-12
Noise figure optimized	-18

Noise figure, dB

ICP3 optimized	7
Noise figure optimized	11 max.
	4.5
	6 max.

1900 MHz (AWS)

Frequency range, MHz	
Uplink	1850 to 1915
Downlink	1930 to 1995

Output power per carrier, dBm*

Number of Carriers	1	2	4	8
GSM	45	42	39	36
CDMA	45	42	39	36
UMTS	45	42	39	36
LTE	45	42**	39	36

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Noise figure, dB

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	4.5
	6 max.

System Supervision and Control

Commands RF on/off

External control parts

Alarms Summary

Power Supply

Optical UL and DL failure

Temperature

Supervision Output power on a per-channel and per-band basis (optional)

Mechanical****

Height, width, depth mm (in) 817 x 245 x 218

(32.2 x 9.61 x 8.6)

Weight, kg (lb) 40 (88.2)

Environmental

Operation temperature range -33° C to +50° C

Ingress protection RF part IP67

Fan part IP55

* Applicable to single modulation mode only

** 3db power reduction @ < 5MHz carrier bandwidth

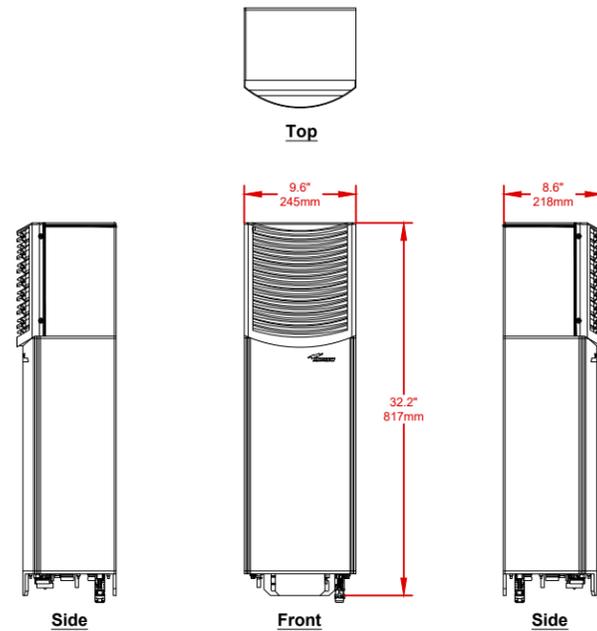
*** With active cooling

**** Spacing required 40 mm (1.58 in) around unit

***** With passive cooling maximum temperature +40° C

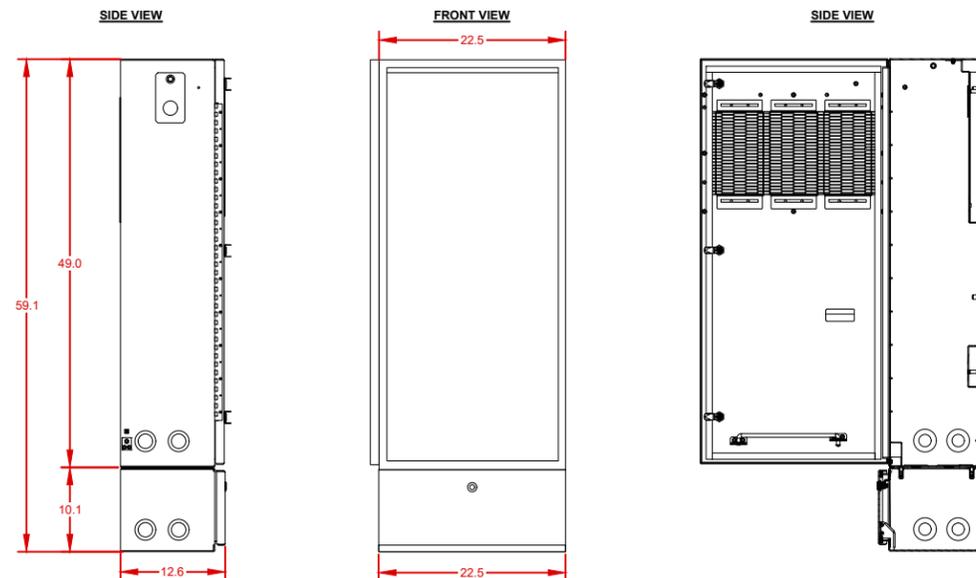
All figures are typical values.

ANDREW ION-M17HP/19HP
MULTI-BAND, MULTI-OPERATOR
REMOTE OPTICAL SYSTEM



1 SCALE N.T.S.

CISH-51 PEDESTAL

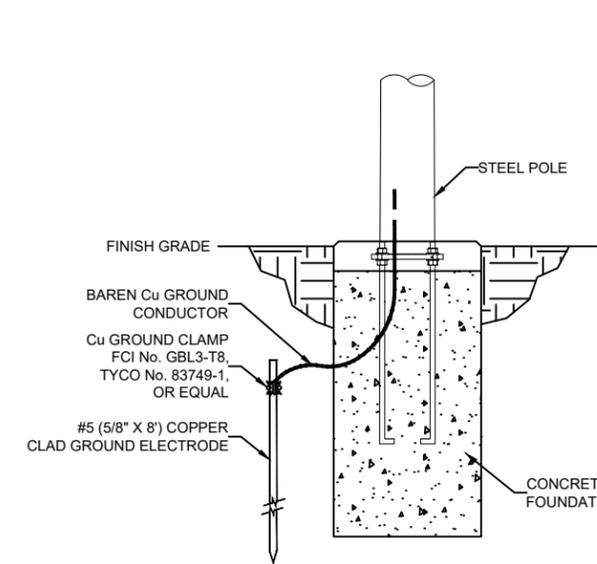


NOTES:
CUBE APPROX. WEIGHT W/PEDESTAL = 105 LBS

* ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

2 SCALE N.T.S.

GROUND ROD INSTALLATION FOR STEEL POLE
TYPICAL SECTION: N.T.S.



3 SCALE SCALE

ASG43m1

PHASE II
CROWN CASTLE PROJECT NO.
242727

CLIENT:
CROWN CASTLE
NG WEST LLC
300 SPECTRUM CENTER DR STE. 1200
IRVINE, CA 92618
www.crownncastle.com

PREPARED BY:
Coastal Communications
Telecommunications Engineering
5841 EDISON PLACE, SUITE 200
CARLSBAD, CA 92008
PHONE: (760) 929-0910
FAX: (760) 929-0936

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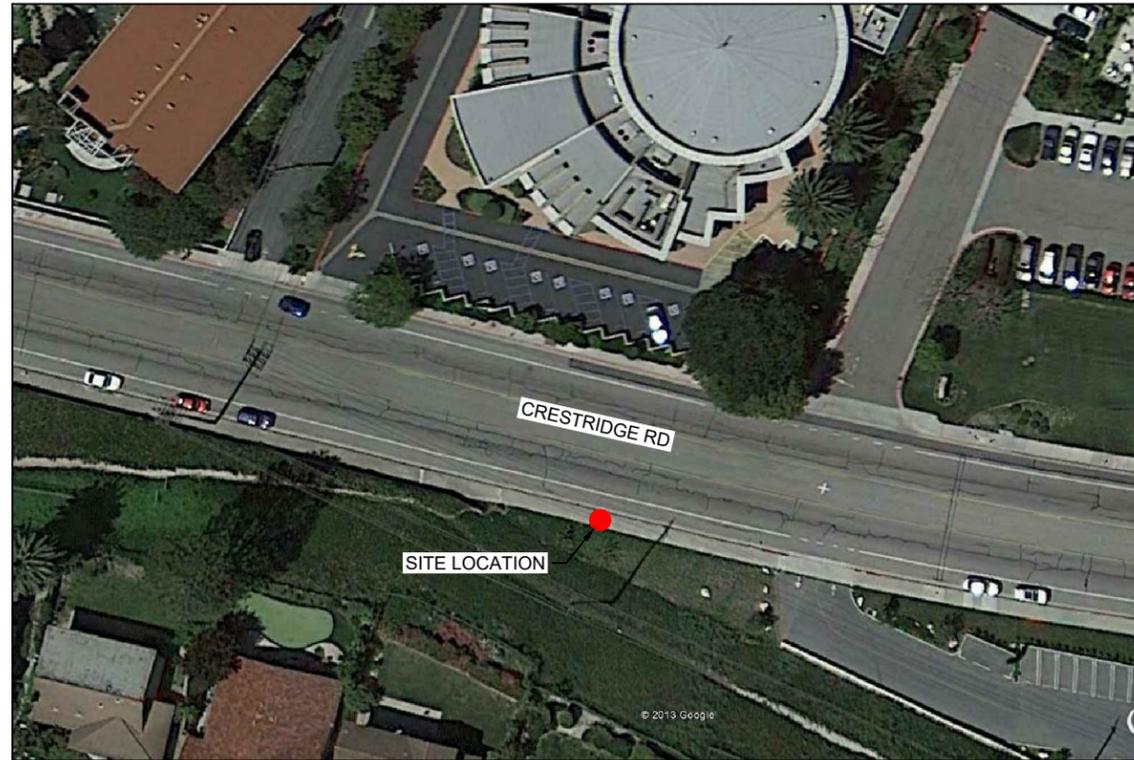
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1-800-227-2600
CALL AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
TICKET #

SITE RELOCATION	11-24-15
REVISION / ISSUE	DATE

SITE NAME & ADDRESS:
ASG43m1
ACROSS FROM
5721 CRESTRIDGE RD
RANCHO PALOS VERDES, CA

DETAILS & NOTES

DRAWN BY: RG	DRAFT DATE: 08/20/16	APPROVED BY: JT
SHEET NO. D-2		



A KEY MAP



B 12 O'CLOCK VIEW- FROM THE NORTHEAST



C 3 O'CLOCK VIEW FROM THE EAST



D 9 O'CLOCK VIEW- FROM THE NORTHWEST

ASG43m1

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SITE PHOTOS

DRAWN BY: RG DRAFT DATE: 08/20/16 APPROVED BY: JT
SHEET NO.

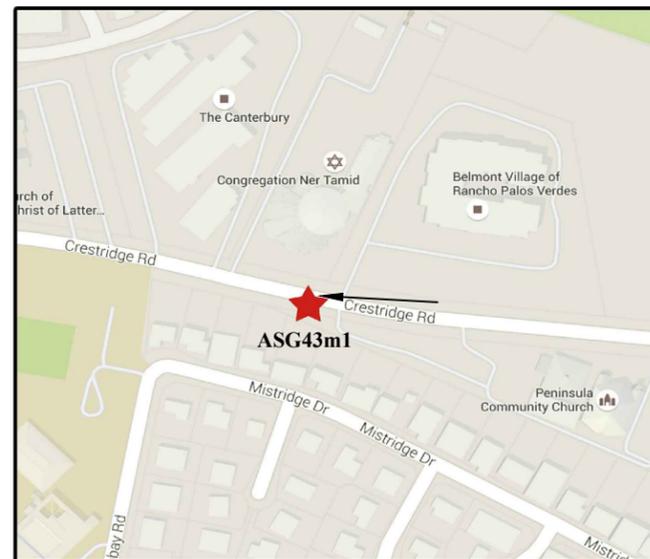
S-1



Existing Site



Proposed Site ASG43m1



Vicinity Map
LOOKING WEST

ASG43m1

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PHOTO SIM

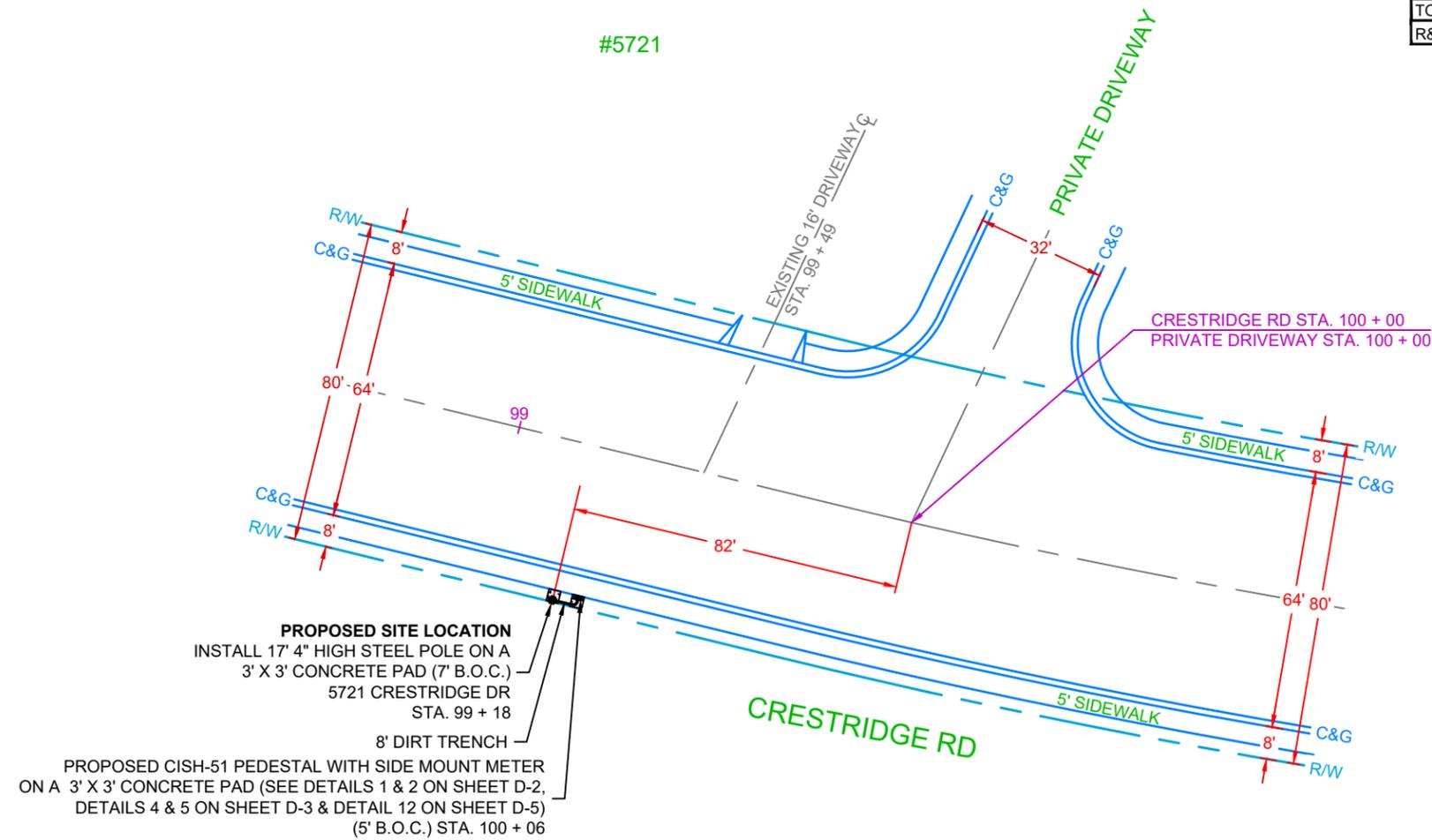
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NEW CONSTRUCTION

- INSTALL 17' 4" HIGH STEEL ON A 1' X 2' CONCRETE PAD.
- INSTALL CISH-51 PEDESTAL WITH (2) ML IONS INSIDE AND SIDE MOUNT POWER METER WITH DISCONNECT BOX.
- INSTALL (1) 24.1" ANTENNA #CUUX045X06F0000 ANTENNA WITH MOUNTING BRACKET #0900397/00.
- INSTALL 21.4" ANTENNA #HPA-65F-BUU-H2 ANTENNA WITH MOUNTING BRACKET #MBK-03.
- INSTALL VGR.

NODE COORDINATE	
LATITUDE:	33.76786
LONGITUDE:	-118.37683

FOOTAGE TOTALS	
ASPHALT TRENCH	0
PUNCH THRU	0
DIRT TRENCH	8'
BORE	0
TOTAL	8'
R&R TOTAL SWP	18' SQ. FT.



NORTH



SCALE: 1" = 40'

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RANCHO PALOS VERDES, CA

POLE PROFILE

DRAWN BY:	DRAFT DATE:	APPROVED BY:
RG	08/20/16	JT
SHEET NO.		
P-1		

A ANTENNA DETAILS

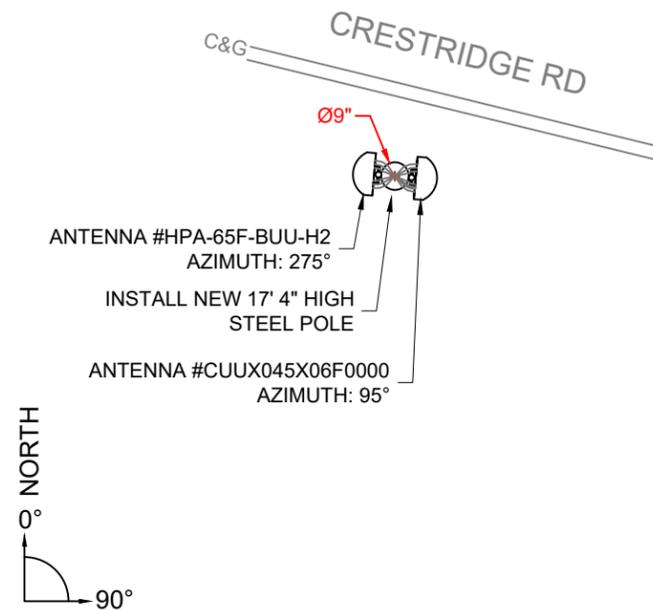
SCALE: 1:5

B 12 O'CLOCK VIEW

SCALE: 1:5

B 3 O'CLOCK VIEW

SCALE: 1:5

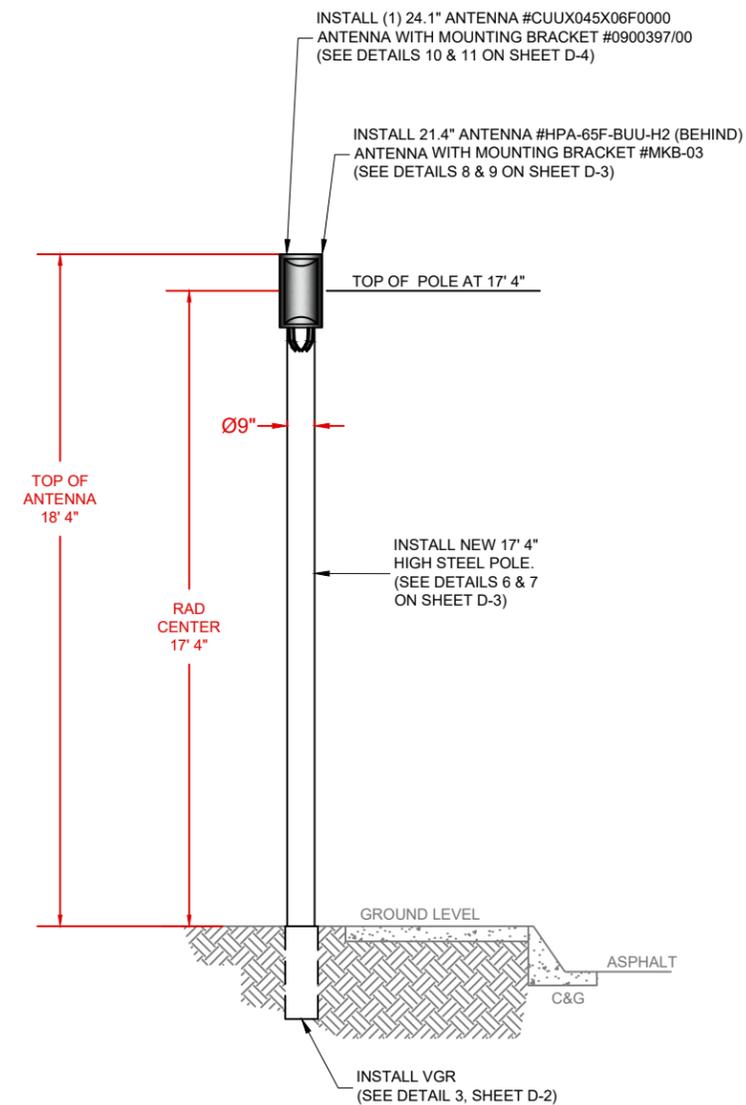
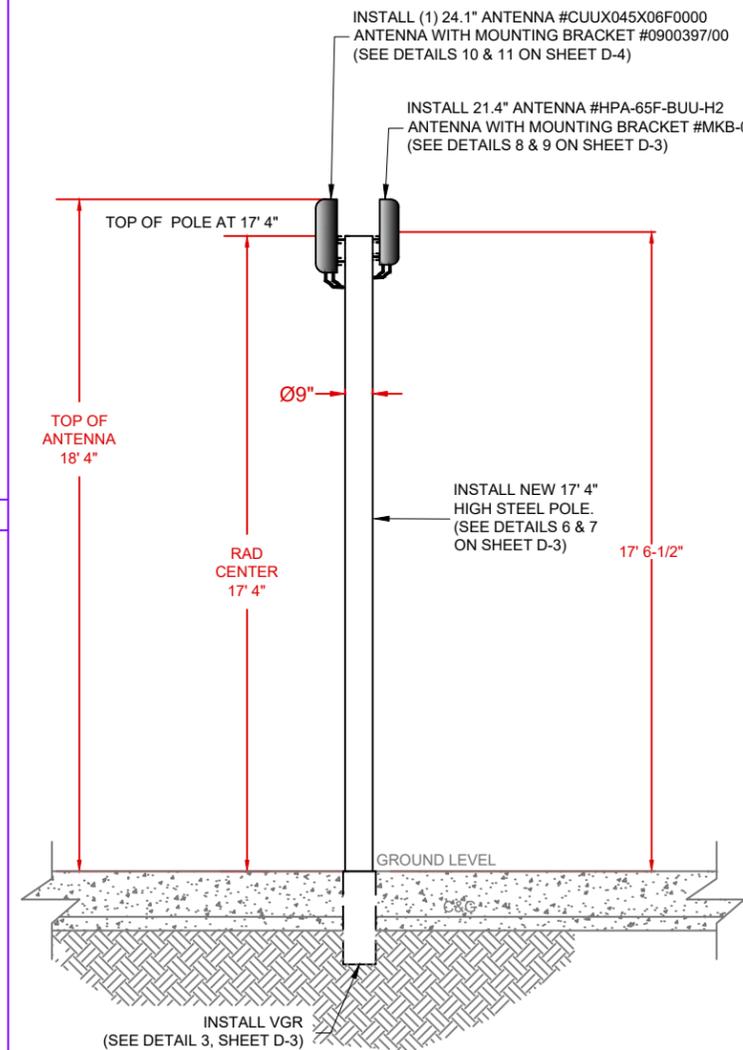


NOTES:

POLE ID: N/A

TOP OF POLE: 17' 4"
TOP OF ANTENNA: 18' 4"
RAD CENTER: 17' 4" & 7' 6-1/2"
AZIMUTH: 95° & 275°

ANTENNAS TO BE PAINTED TO MATCH POLE.



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SITE PLAN

DRAWN BY: RG DRAFT DATE: 08/20/16 APPROVED BY: JT

SHEET NO. P-2