



Electromagnetic Energy (EME) FCC Compliance Report

Site FA #	14272794	Site Name	CRAN_CROWN CHAPPARRAL
US ID	184467	Site ID	PHX01_008
Street Address	5401 N. Scottsdale Rd	Latitude	33°30'50.2"N
City, State, Zip	Scottsdale, AZ 85250	Longitude	111°55'33.0"W
Site Type	Light Pole	Max MPE by AT&T	0.02 %
Area Classification	General Population	Report Type	Post-Study
Survey Date	11/28/2019	Survey Time	3:26 pm
Surveyed By	Joseph Kwofie	Report Creation	Anil Kumar S M
Report Review	Gourav Soni	Report Date	12/03/2019
Construction Drawing	PHX01_008_A_AE201_Rev 0 Stamped Final CD_10.28.2019		
RF Data Sheet	AZ-NM_ARIZONA_CRAN_RANM_PHX01_HUB03_2017-CRAN_CRAN-Build_vp975a_3901A0AGFC_14272794_184467_02-02-2018_As-Built-In-Progress_v1.00 (3)		
FCC & AT&T Compliance Status	<input type="checkbox"/> Compliant <input checked="" type="checkbox"/> Site will be compliant following the recommendations in Section 6		



Environmental Assessment Specialists, Inc.

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1 General Information

The Antenna Inventory Table ([Section 3](#)) shows all transmitting antennas on the site. The use of “Unknown” for an operator means the information with regard to the carrier, their FCC license and / or antenna information was not available. Generic values used as estimation for Effective Radiated Power (ERP) and antenna characteristics for unknown antennas. Z reference specifies the bottom of the antenna to the indicated level.

In this report, it is assumed that all antennas are operating at full power at all times. Software modeling was performed for all transmitting antennas located on the site. EAS has further assumed a 100% duty cycle and maximum radiated power. Obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. As a result, the predicted signal levels are more conservative (higher) than the actual signal levels will be from the measurement conclusions. In this report, all accessible areas that are within 30 feet radius of antennas are modeled and taken under consideration. The modeling software that EAS used to create this report is Roofmaster 19.9.7.19.

Roofmaster Data Sheet ([Section 5](#)) indicates Roofmaster exported data sheet that contains data used.

Statement of Compliance ([Section 6](#)) indicated detailed actions required to bring the site compliant to FCC and OSHA rules and regulations with regard to Human Exposure to Radio Frequency Radiation by use of AT&T RF signage, barriers and Demarcation Policy. The whole report is true and accurate to the best of Report Creator and Report Reviewer’s (mentioned in first page) knowledge.

Additional information about how the report is created and modeled is located in [Appendix A](#) and [Appendix B](#) of this report.

A survey was performed on 11/28/2019 to determine the RF emission levels present at the site. Measurements were performed on the areas considered accessible to the general population. The results of the measurements were the combined energy levels of AT&T antennas. To measure the RF emissions within the vicinity, EAS Inc., utilized NARDA E Field Probe Model EA5091, Frequency Range 300 KHz - 50 GHz with NARDA Electromagnetic Survey Meter Model NBM-550. Calibration was performed by Narda Safety Test Solutions on June 05, 2018 for a total interval of 24 month.

Relevant administrative and compliance–related information about the antenna site area is summarized in the table below:

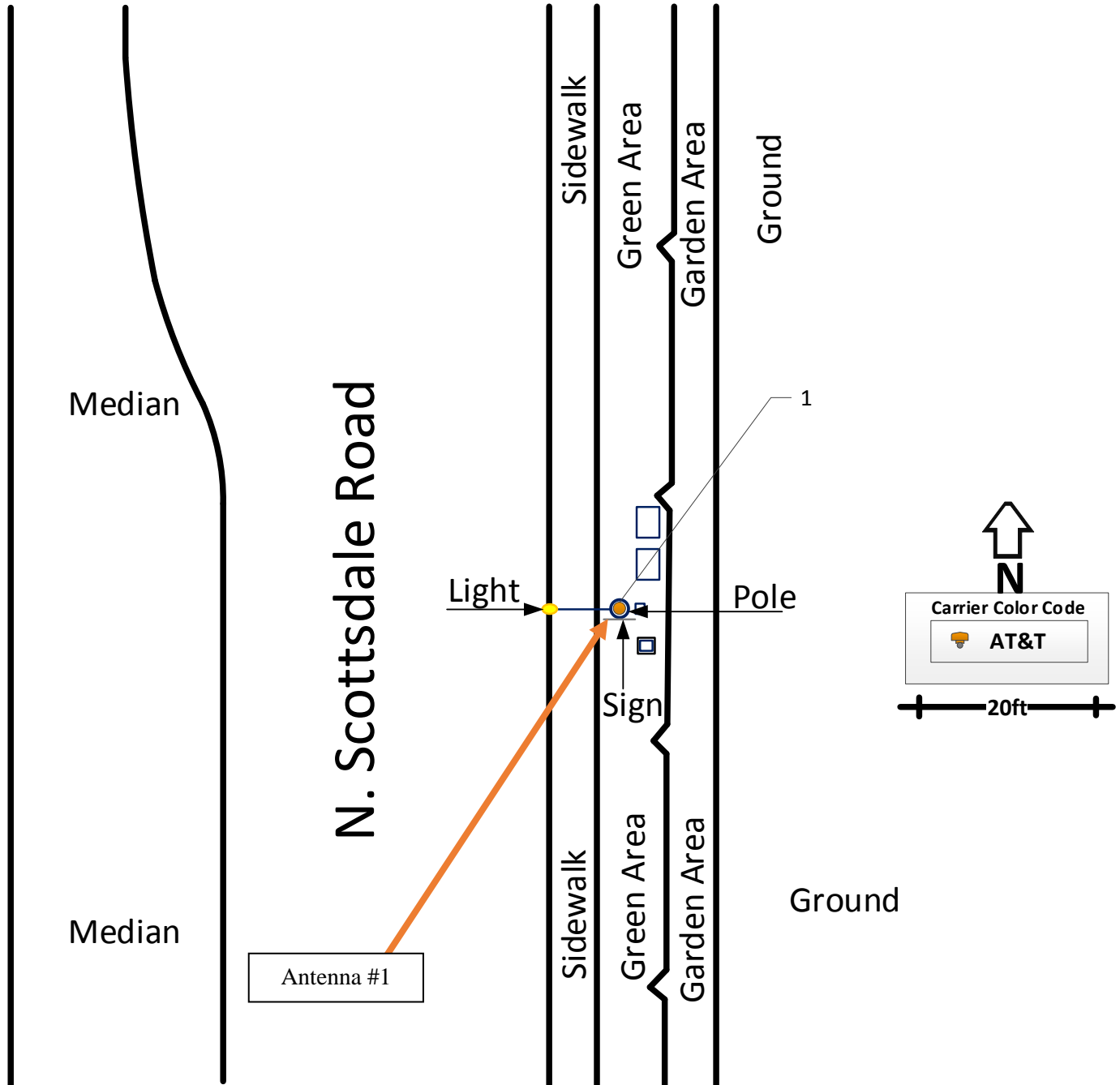
Access Method	Open Area	Collocation Status	<input type="checkbox"/> Collocated <input checked="" type="checkbox"/> Not Collocated
Access to Keys?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sky Conditions	<input checked="" type="checkbox"/> Sunny <input type="checkbox"/> Cloudy <input type="checkbox"/> Rainy
Door Locked?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Access Info	N/A		
Access to antennas locked?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	RF Sign(s) at Access point(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
RF Sign(s) @ antennas?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Barrier(s) @ sectors	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Site Predictive RF Modeling Summary

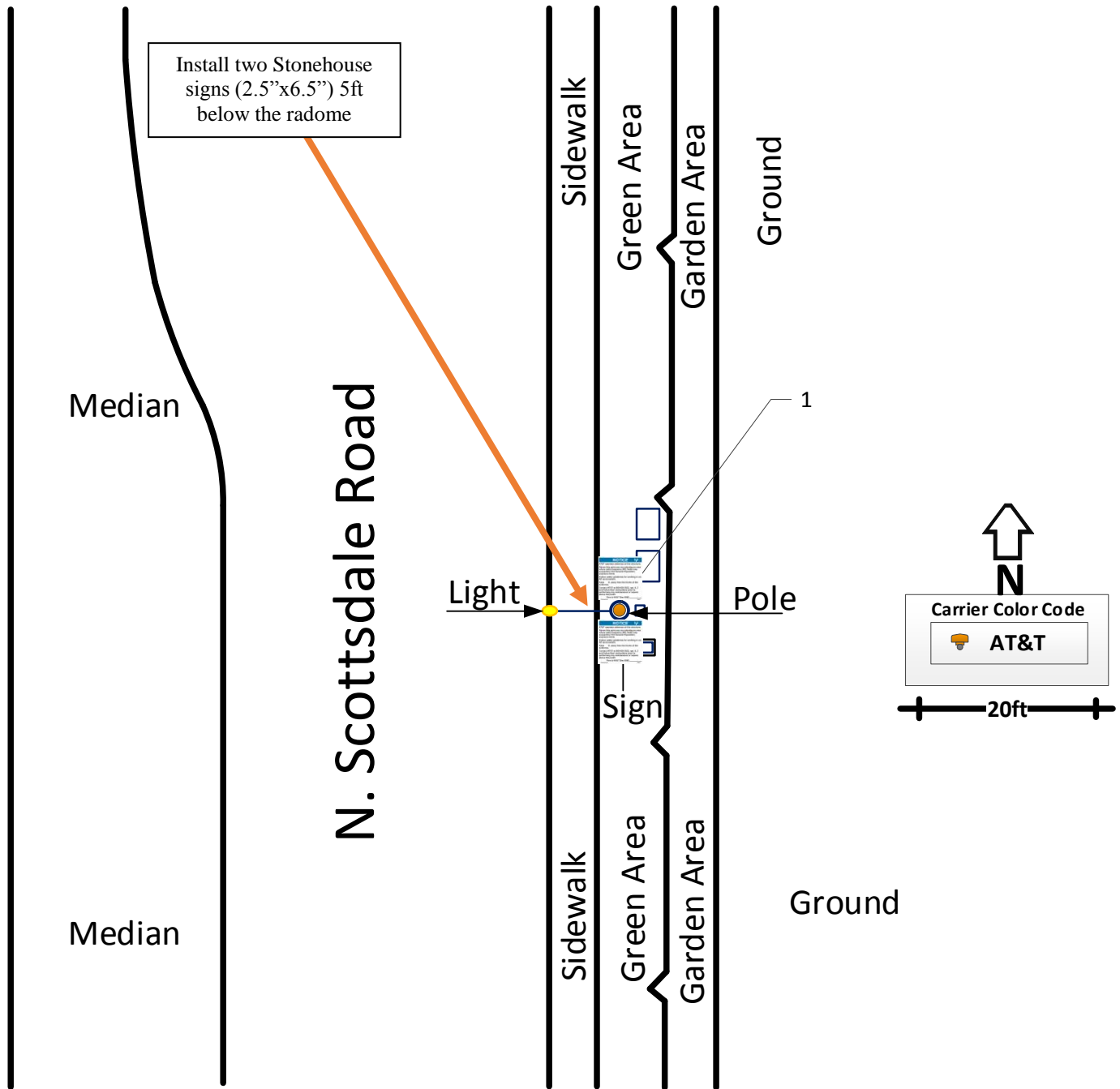
Max Predictive Spatial Average MPE% - Antenna level (General Public)	87.29 %
Max Predictive Spatial Average MPE% - Light level (General Public)	14.26 %
Max Predictive Spatial Average MPE% - Ground level (General Public)	0.02 %
Max Predictive Spatial Average MPE% - Speed Sign level (General Public)	0.04 %
Max Predictive Spatial Average MPE% - Bus Sign level (General Public)	0.03 %
Max Predictive Spatial Average MPE% - Bus Stop Sign level (General Public)	0.03 %
Overall Site Compliance	Will be compliant following the recommendations in Section 6

2 Site Scale Map

a. Existing Signs and Barriers (AT&T Only)



b. Signs and Barriers Required for Compliance (AT&T Only)



3 Antenna Inventory Table

Antenna ID	Operator	Antenna Type	Frequency (MHz)	Technology	ERP (Watts)	Gain (dBd)	Manufacturer	Model	Azimuth (deg.)	Aperture (ft.)	TX Count	H-BW (deg.)	X (ft)	Y (ft)	Z Antenna Level (ft)	Z Light Level (ft)	Z Ground Level (ft)	Z Speed Sign Level (ft)	Z Bus Sign Level (ft)	Z Bus Stop Sign Level (ft)
1	ATT	Pole	1900	LTE	96.83	6.85	ACE	ACOM-2F15D-12P R2	0	2	4	360	95.2	86.1	1	2.5	37.5	26.39	29.32	31.35
1	ATT	Pole	2100	LTE	96.83	6.85	ACE	ACOM-2F15D-12P R2	0	2	4	360	95.2	86.1	1	2.5	37.5	26.39	29.32	31.35
1	ATT	Pole	5200	LAA	2.16	3.35	ACE	ACOM-2F15D-12P R2	0	2	2	360	95.2	86.1	1	2.5	37.5	26.39	29.32	31.35

4 Site Photos

4.1. AT&T Proposed Location



4.2.Overall Site Photos



Site Overview



Site Overview



Site Overview



Site Overview



Site Overview



Site Overview



Site Overview



Site Overview

5 Site Area Measurements

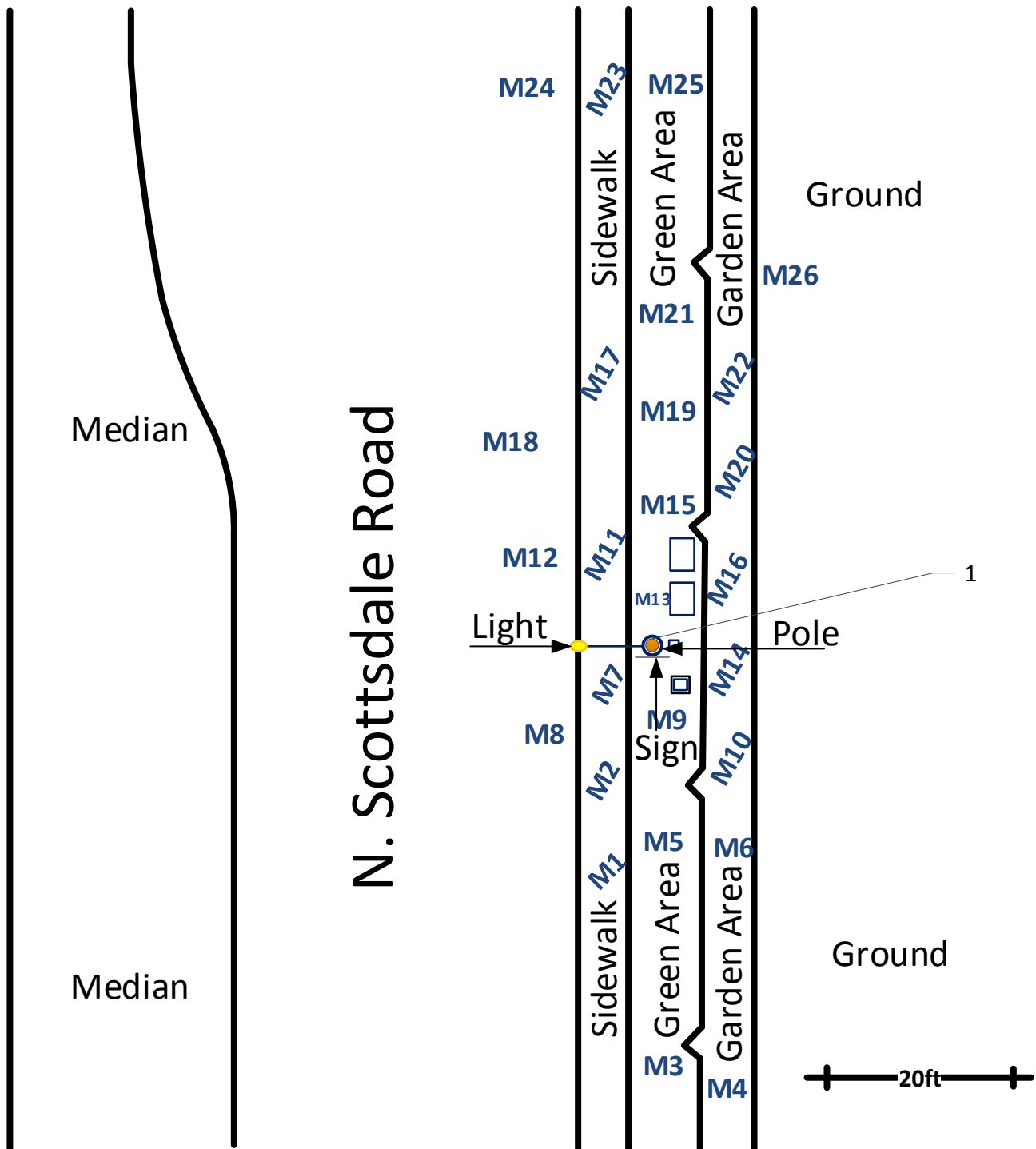
5.1. Site Measurements

The site survey crew has provided the sketch of the site location with a visual representation of the RF environment at the site and depict antenna locations and site structures. Next figure depicts the surveyed measurements in percentage of MPE limits for General Population standards. Percentages greater than 100% exceed the FCC MPE limits. These measurements depict the energy levels that can be encountered by an individual at the site.

Maximum value for General Population Standard based on Spatial Averaging: 0.0052%

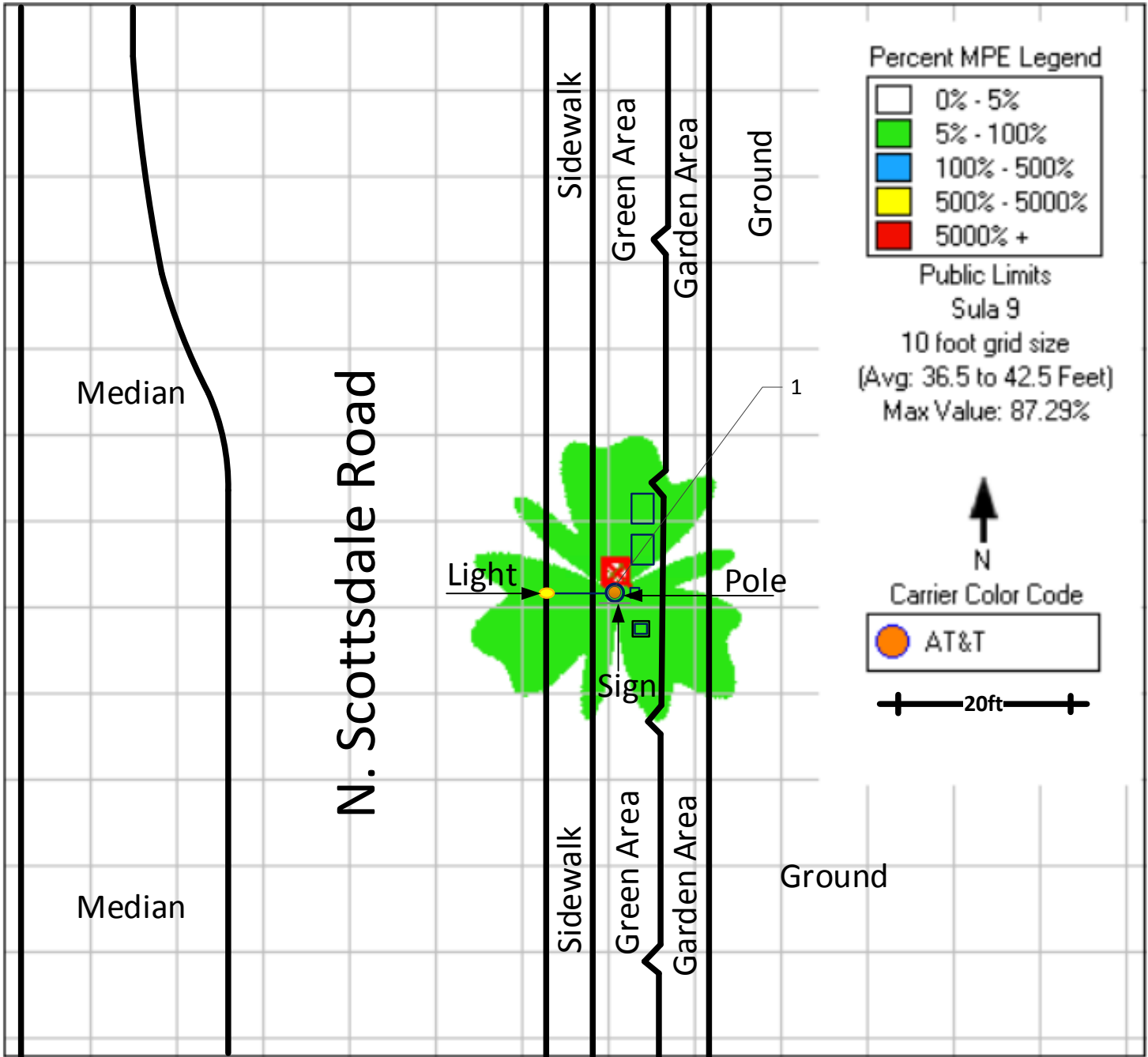
Maximum value for General Population Standard based on Maximum Spatial: 0.026%

Measurement Location	Spatial Average (%GP)	Spatial Max (%GP)
M1 - Ground	< 1	< 1
M2 - Ground	< 1	< 1
M3 - Ground	< 1	< 1
M4 - Ground	< 1	< 1
M5 - Ground	< 1	< 1
M6 - Ground	< 1	< 1
M7 - Ground	< 1	< 1
M8 - Ground	< 1	< 1
M9 - Ground	< 1	< 1
M10 - Ground	< 1	< 1
M11 - Ground	< 1	< 1
M12 - Ground	< 1	< 1
M13 - Ground	< 1	< 1
M14 - Ground	< 1	< 1
M15 - Ground	< 1	< 1
M16 - Ground	< 1	< 1
M17 - Ground	< 1	< 1
M18 - Ground	< 1	< 1
M19 - Ground	< 1	< 1
M20 - Ground	< 1	< 1
M21 - Ground	< 1	< 1
M22 - Ground	< 1	< 1
M23 - Ground	< 1	< 1
M24 - Ground	< 1	< 1
M25 - Ground	< 1	< 1
M26 - Ground	< 1	< 1

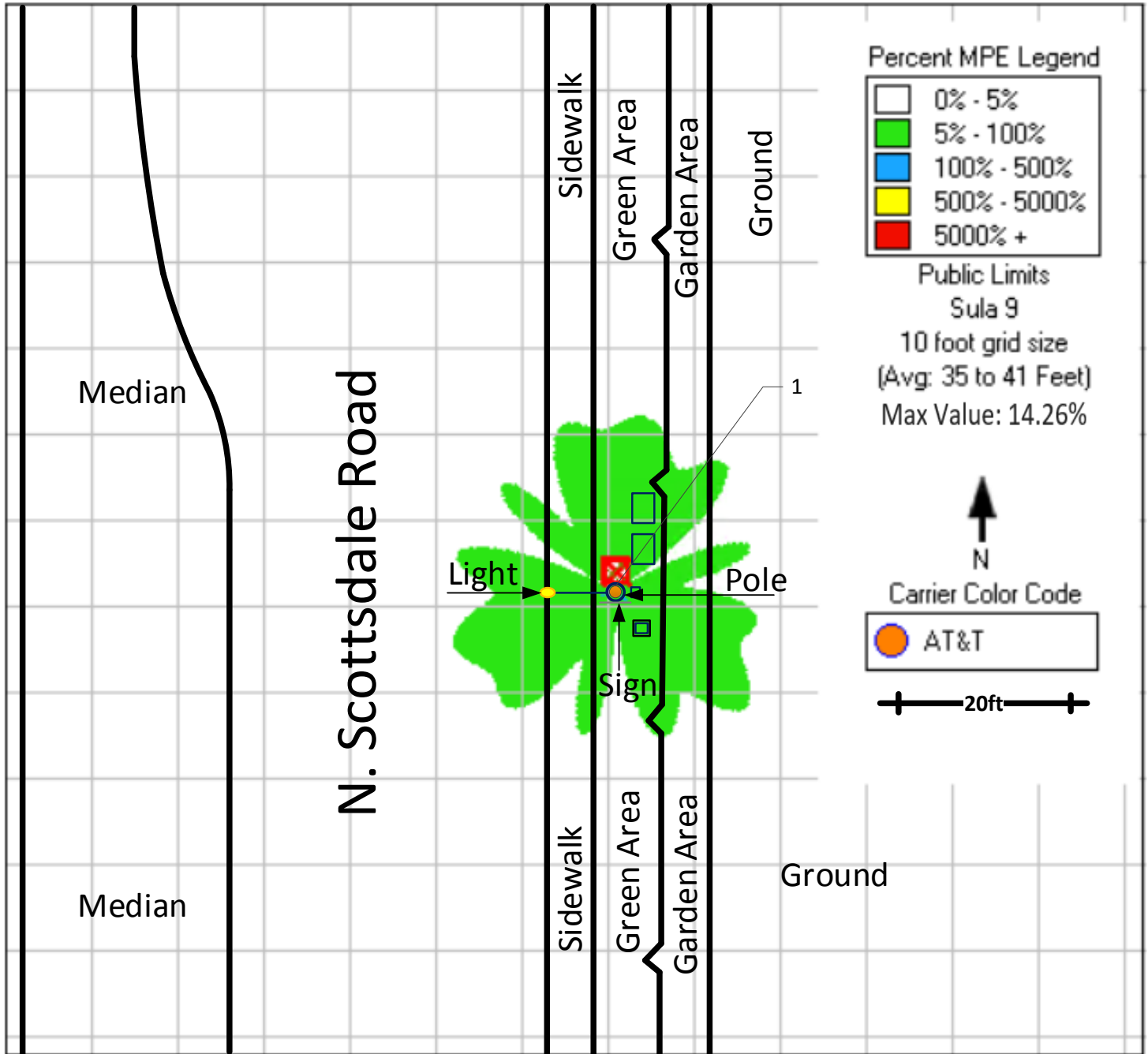


5.2. RF Predictive Modeling

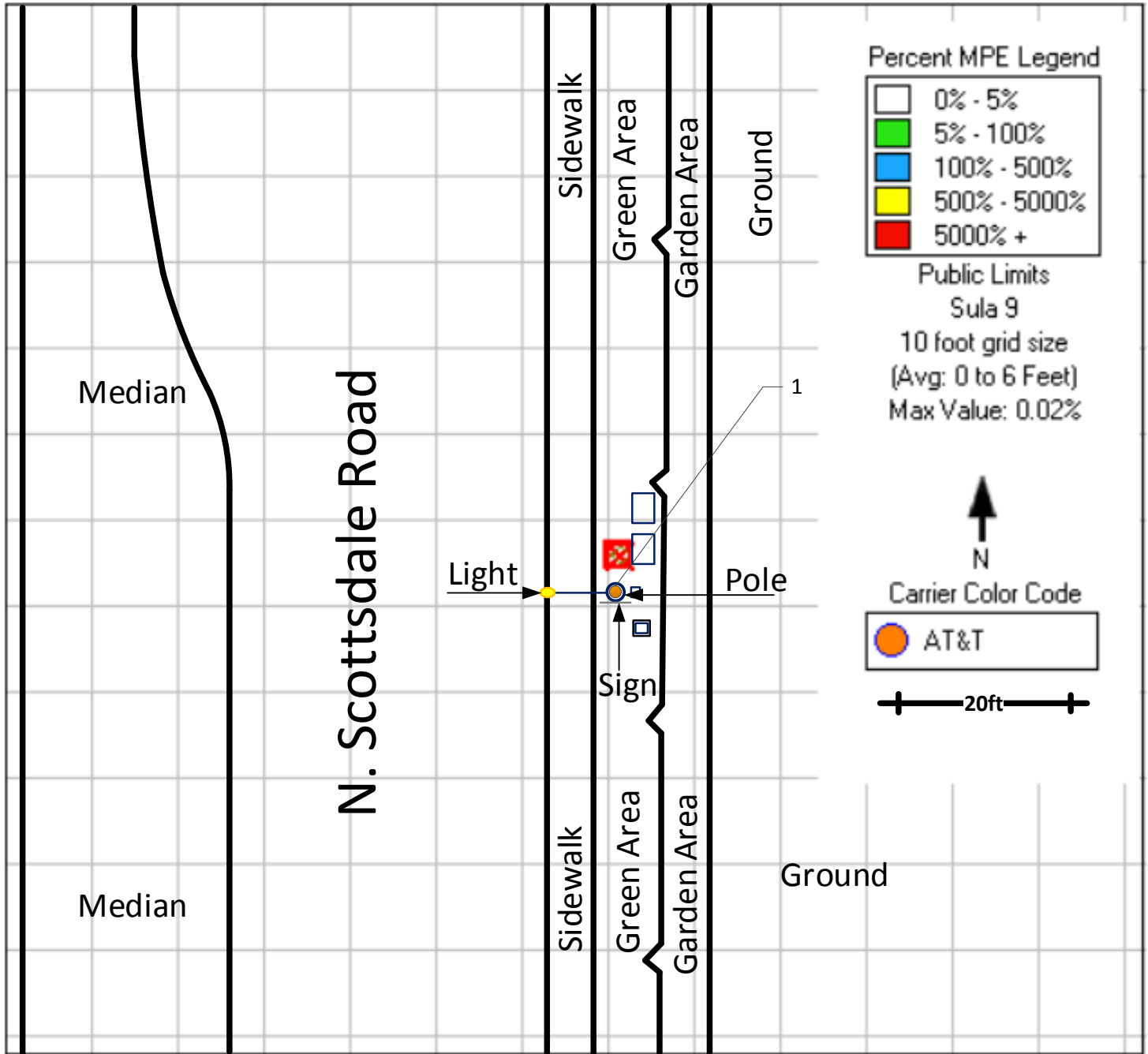
5.3.1 Antenna Level Modeling with AT&T Carriers Transmitting



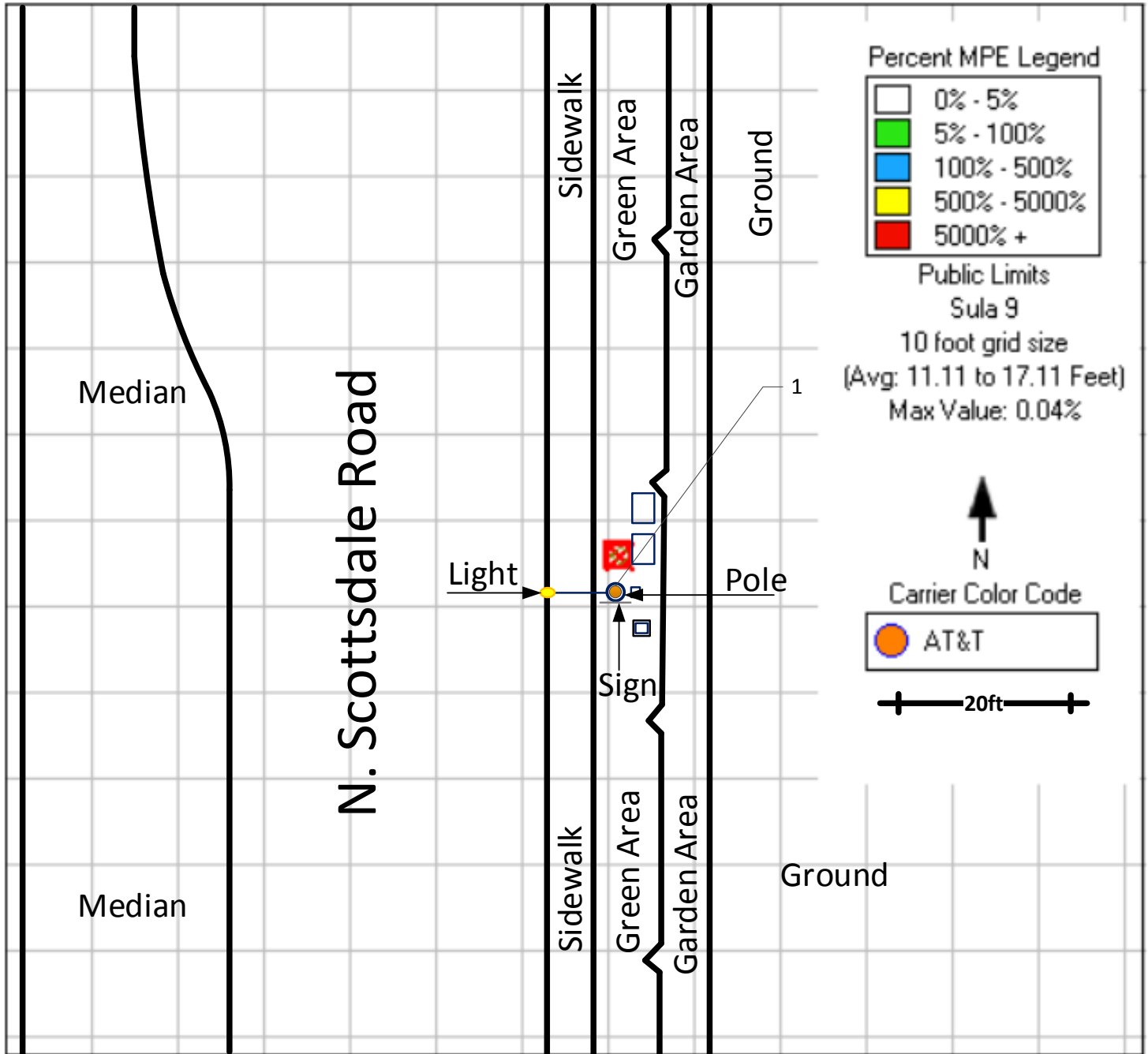
5.3.2 Light Level Modeling with AT&T Carriers Transmitting



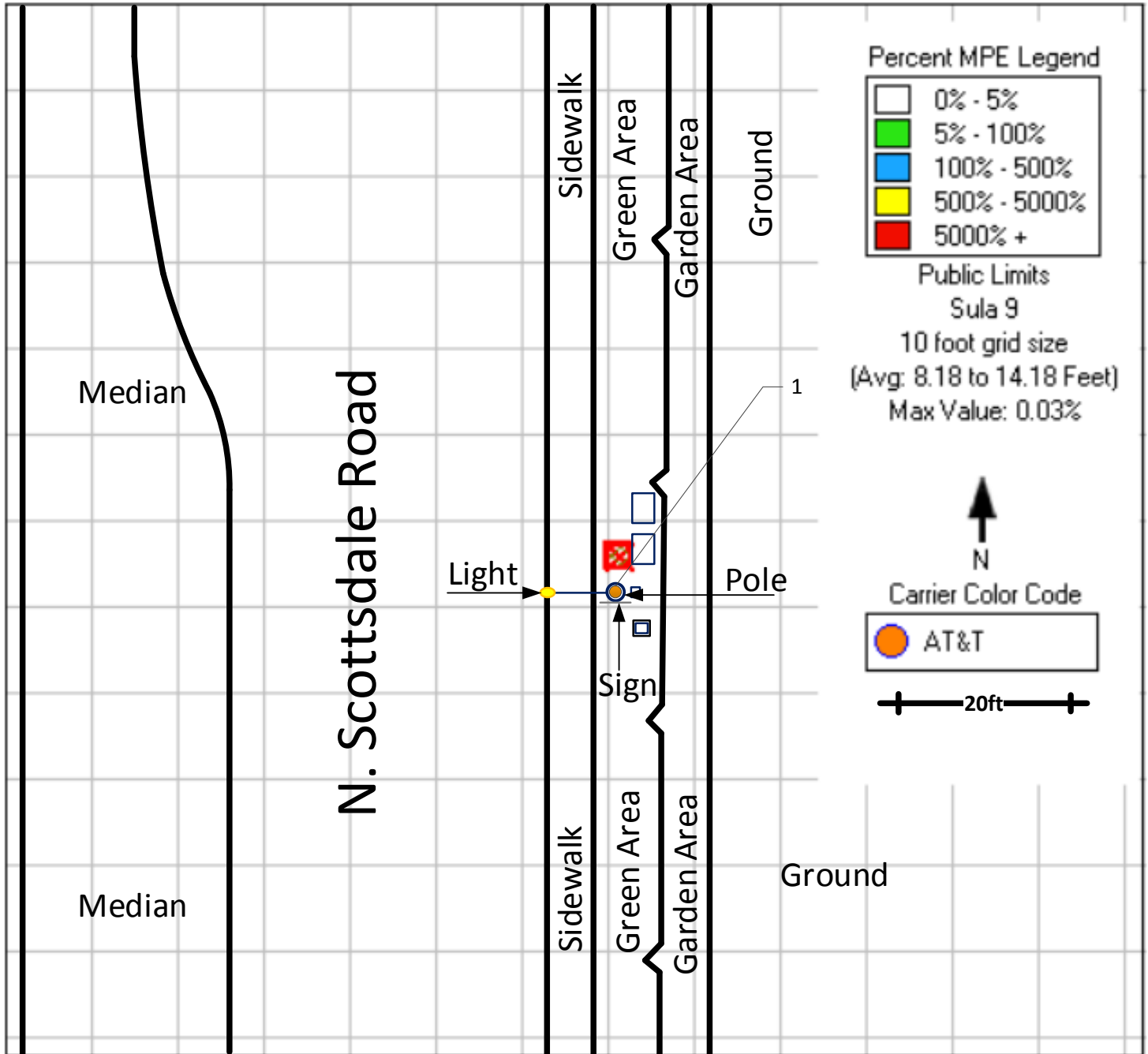
5.3.3 Ground Level Modeling with AT&T Carriers Transmitting



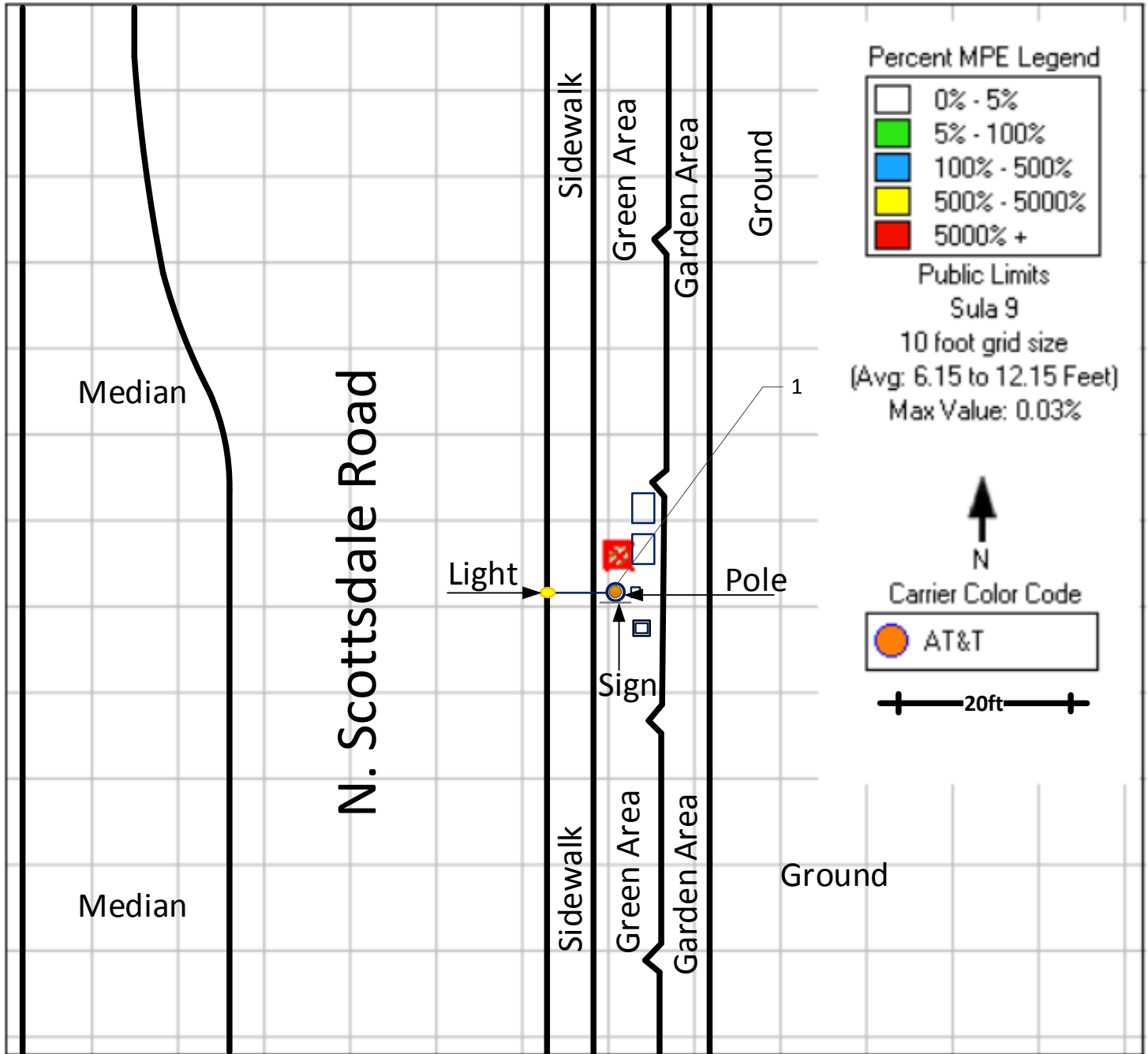
5.3.4 Speed Sign Level Modeling with AT&T Carriers Transmitting



5.3.5 Bus Sign Level Modeling with AT&T Carriers Transmitting



5.3.6 Bus Stop Sign Level Modeling with AT&T Carriers Transmitting



6 Roofmaster Data Sheet

Carrier	Antenna Number	Emitter Number	Pattern	Frequency	Power	Length	Azimuth(n)	Downtilt	Height(ft)	X(ft)	Y(ft)
AT&T	1	1	ACOM-2F15D-12P R2	1900	158.80854	0.6096	0	0	37.5	95.2	86.1
AT&T	1	2	ACOM-2F15D-12P R2	2100	158.80854	0.6096	0	0	37.5	95.2	86.1
AT&T	1	3	ACOM-2F15D-12P R2	5200	3.54686	0.6096	0	0	37.5	95.2	86.1

7 Statement of Compliance

At the time of our analysis, AT&T Mobility is required to take following action to fulfill their obligations to comply with the FCC's mandate as defines in OET-65.

7.1. Site Action requirements

Pole	Install two Stonehouse signs (2.5"x6.5") 5ft below the radome
AT&T Antenna	N/A

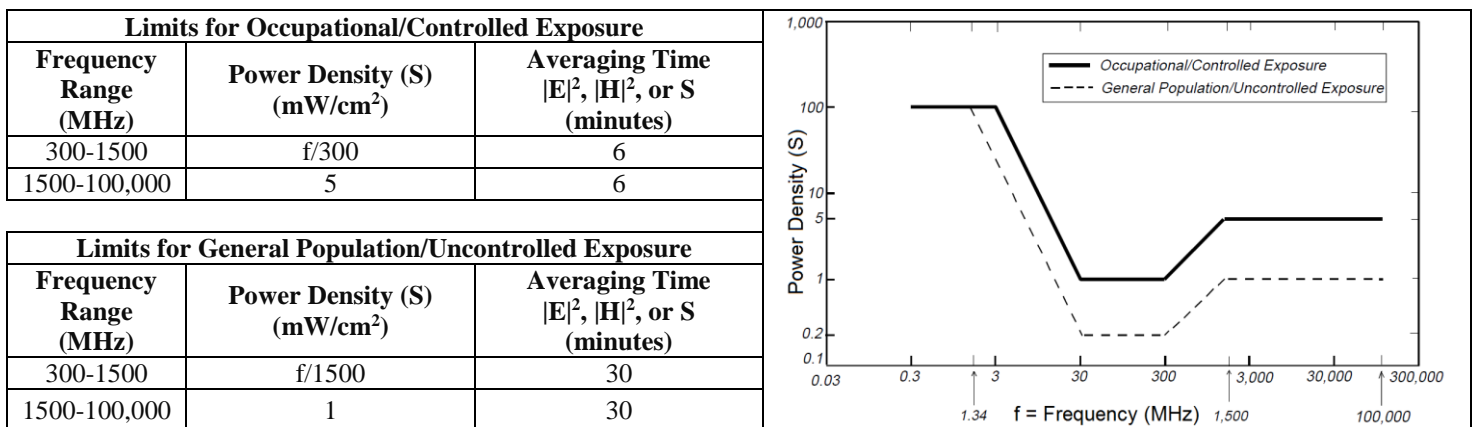
8 Appendix A

8.1. FCC Rules and Regulations

This appendix summarizes the policies, guidelines and requirements that were adopted by the FCC on August 1, 1996, amending Part 1 of Title 47 of the Code of Federal Regulations, and further amended by action of the Commission on August 25, 1997 (see 47 CFR Sections 1.1307(b), 1.1310, 2.1091 and 2.1093, as amended from FCC "OET Bulletin 65"). Commission actions granting construction permits, licenses to transmit or renewals thereof, equipment authorizations or modifications in existing facilities, require the preparation of an Environmental Assessment (EA), as described in 47 CFR Section 1.1311, if the particular facility, operation or transmitter would cause human exposure to levels of radiofrequency (RF) electromagnetic fields in excess of these limits. For exact language, see the relevant FCC rule sections.

The FCC-adopted limits for Maximum Permissible Exposure (MPE) are generally based on recommended exposure guidelines published by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3. Copyright NCRP, 1986, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, exposure limits for field strength and power density are also generally based on the MPE limits found in Section 4.1 of, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1-1992, Copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017, and approved for use as an American National Standard by the American National Standards Institute (ANSI). The exposure guidelines are based on thresholds for known adverse effects and they incorporate appropriate margin of safety. The federal health and safety agencies such as: the Environmental Protection Agency ("EPA"), the Food and Drug Administration ("FDA"), the National Institute on Occupational Safety and Health ("NIOSH") and the Occupational Safety and Health Administration ("OSHA") have also been actively involved in monitoring and investigating issues related to RF exposure.

The formulas used in Roofmaster 19.9.7.19 for calculating Power density is based on FCC "OET Bulletin 65", Section 2: PREDICTION METHODS, August 1997, Edition 97-01. Power density is converted to Maximum Permissible Exposure Limits (MPE Limits) based on Limits of General population/Uncontrolled Exposure and Limits of Occupational/Controlled Exposure presented in the following table generated from Appendix A of "OET Bulletin 65"



8.2. Safety Recommendations



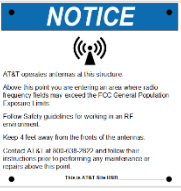
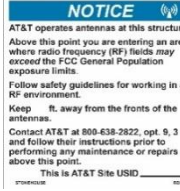




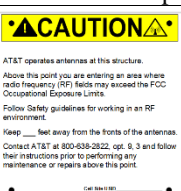


12.1.1. Occupational Safety and Health Administration (OSHA) Requirements

OSHA requires that those in the Occupational classification must complete training in RF Safety, RF Awareness, and Utilization of Personal Protective Equipment. OSHA also provides options for Hazard Prevention and Control:

Hazard Prevention	Control
<ul style="list-style-type: none"> Utilization of good equipment Enact control of hazard areas Limit exposures Employ medical surveillance and accident response 	<ul style="list-style-type: none"> Employ Lockout/Tag out Utilize personal alarms & protective clothing Prevent access to hazardous locations Develop or operate an administrative control program

12.1.2. RF Signage and Barriers

RF signs and preventive barriers have an important role in appropriately alerting a worker before entering into a potential RF exposure area. All RF signs should be abided by at all times.

					
Notice	Notice 2	Notice - Small Cells	Notice - Stonehouse	Caution	Caution 2
This sign indicates that RF emissions may exceed the FCC General Population MPE limit.	This sign is used as combination of Information sign and Notice sign	This sign indicates that RF emissions may exceed the FCC General Population MPE limit on the pole	This sign indicates that RF emissions may exceed the FCC General Population MPE limit on the pole	This sign indicates that RF emissions may exceed the FCC Occupational MPE limit.	This sign is used as combination of Information sign and Caution sign
					
Caution 2B	Caution 2C	Caution - Small Cells	Warning	Warning 1B	
This sign indicates that RF emissions may exceed the FCC Occupational MPE limit on the tower	This sign indicates that RF emissions may exceed the FCC Occupational MPE limit at side mounted antennas	This sign indicates that RF emissions may exceed the FCC Occupational MPE limit on the pole	This sign indicates that RF emissions may exceed at least 10x the FCC Occupational MPE limit.	This sign is used as combination of Information sign and Warning sign	

EAS, Inc. recommends coordinating with all wireless tenants before performing services in front of or near any transmitting antennas. During these activities, it may be appropriate to utilize Lockout/Tagout Procedures as specified in ATT-002-290-078, "RF Exposure: Responsibilities, Procedures & Guidelines" for scheduled outages to eliminate RF hazards during these activities.

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9 Appendix B

9.1. Contribution to Co-Located areas

Any wireless operator that contributes 5% or greater of the MPE limit in an area that is identified to be greater than 100% of the MPE limit is responsible taking corrective actions to bring the site into compliance. All co-located sites should have a separate 5% modeling that shows only AT&T antennas transmitting. This separate modeling indicates AT&T's contribution in all areas that is recognized to be greater %100 MPE limits.

9.2. Occupational limits

Apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

9.3. General population limits

Apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure. (Those without significant and documented RF Safety & Awareness training)

9.4. Controlled Environment

Applies to environments that are restricted or “controlled” in order to prevent access from members of the General Population classification.

9.5. Uncontrolled Environment

Applies to environments that are unrestricted or “uncontrolled” that allow access from members of the General Population classification.

9.6. Generic Values

The use of “Unknown” for an operator means the information with regard to the carrier, their FCC license and / or antenna information was not available. Generic values used as estimation for Effective Radiated Power (ERP) and antenna characteristics for unknown antennas.

10 Certificate of Calibration

Narda Safety Test Solutions
 435 Moreland Road, Hauppauge, NY 11788
 Phone: 631-231-1700 · Fax: 631-231-1711
 E-mail: nardaeast@L-3com.com
 www.nardamicrowave.com



Calibration Certificate

Narda Safety Test Solutions hereby certifies that the referenced equipment has been calibrated by qualified personnel to Narda's approved procedures. The calibration was carried out within a certified quality management system conforming to ISO 9001.

The metrological confirmation system for test equipment complies with ISO 10012-1.

Object	EA5091 Electric Field Probe
Part Number (P/N)	2402/07B
Serial Number (S/N)	01086
Manufacturer	Narda Safety Test Solutions
Date of Calibration	Tue 05/Jun/2018
Results of Calibration	Test Results within Specification
Confirmation interval (recommended)	24 Months
Ambient Conditions	(23 +/- 4) °C (50 +/- 15) % RH
Calibration Procedure	Probe ATE Software, 990313 v3.0.2
Probe Definition File Set	990313-04 v1.05
Results Filed Under	01086_05Jun2018.xlsx

Hauppauge, NY

V. M.
 Calibrated by

6/6/18
 Quality Assurance

This certificate may only be published in full, unless permission for the publication of an approved extract has been obtained in writing from the Director of Quality Assurance.

Certificate No. 2402/07B-01086

Date of issue: Tue 05/Jun/2018

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Narda Safety Test Solutions GmbH
 435 Moreland Road, Hauppauge, NY 11788
 Phone: 631-231-1700 · Fax: 631-231-1711
 E-mail: nardaeast@L-3com.com
 www.nardamicrowave.com



Calibration Certificate

Narda Safety Test Solutions hereby certifies that the referenced equipment has been calibrated by qualified personnel to Narda's approved procedures. The calibration was carried out within a certified quality management system conforming to ISO 9001.

The metrological confirmation system for test equipment complies with ISO 10012-1.

Object	Broadband Field Meter NBM-550
Part Number (P/N)	2401/01B
Serial Number (S/N)	E-0306
Manufacturer	Narda Safety Test Solutions
Date of Calibration	2018-05-21
Results of Calibration	Test results within specifications
Confirmation interval (recommended)	24 months
Ambient conditions	(23 ± 3)°C (20 ... 60) % rel. humidity
Calibration procedure	2401-8700-00A

Hauppauge NY, 2018-05-22



 Calibrated by
 J. Woitulevich



 Quality Assurance

This certificate may only be published in full, unless permission for the publication of an approved extract has been obtained in writing from the Director of Quality Assurance.

Certificate No. NBM-550-E-0306-180521-1070

Date of issue: 2018-05-22

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11 Engineering Certification

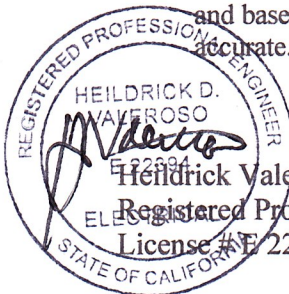
I, Heildrick Valeroso, P.E. State:

The stamp and signature on this page certifies the following:

- I am a Registered Professional Engineer in the state of California, license # E 22394 with expiration date of 9/30/2020
- That I am familiar with the Rules and Regulations of the Federal Communications Commission (FCC) as well as the regulations of the Occupational Safety and Health Administration (OSHA), both in general and specifically as they apply to the FCC Guidelines for Human Exposure to Radio-frequency Radiation.
- I reviewed the RFE-EME Compliance Report for the AT&T site

Site ID	PHX01 008
Site Name	CRAN CROWN CHAPPARRAL
Address	5401 N. Scottsdale Rd Scottsdale, AZ 85250

and based on supplied data and to the best of my knowledge I believe the Report to be true and accurate.



Heildrick Valeroso, P.E.
Registered Professional Engineer,
License # E 22394 Expiration date 9/30/2020

Date: 12/04/2019

AT&T MOBILITY
CRAN/ SMALL CELL RADIO FREQUENCY (RF)
SAFETY COMPLIANCE CERTIFICATION

21 MAY 2018

ANTENNA: ACE ACOM 2F15D-12P-R2

Band	700	850	PCS	AWS	WCS	5 GHz	mmw
Antenna Input Power (W)	0	0	20	20	0	1	0

PURPOSE OF THIS DOCUMENT

This document certifies that the AT&T Mobility Centralized Radio Access Network (CRAN) or Small Cell outdoor cell defined below meets Federal Communications Commission (FCC) RF safety compliance requirements specified in 47 CFR §1.1310, provided that the actions specified in the “Compliance Actions” and “Completing this Certification Document” sections of this document are completed before the CRAN or Small Cell is placed into service.

DEFINITION OF SMALL CELLS INCLUDED IN THIS CERTIFICATION

The small cell antenna and its operating parameters covered by this certification are:

- a) Antenna: ACE ACOM2F15D-12P-R2;
- b) Antenna centerline height: 20 feet above ground level (AGL) or higher;
- c) Transmission Frequencies: PCS band, AWS band, 5 GHz band;
- d) Maximum Total Power into Antenna: 20W at PCS band, 20W at AWS band, 1W 5 GHz;
- e) Antenna positioning: The antennas are mounted on tops or sides of poles/posts;
- f) Co-locators: No other emitters are on pole/post/mounting location;
- g) No accessible locations (e.g., other poles, apartment balconies) within 8 feet of the antenna at or near antenna level.

INVALIDATION OF THIS CERTIFICATION

This certification becomes invalid when:

- a) Antenna models other than the ACE ACOM2F15D-12P-R2 are deployed;
- b) Antenna centerline is lower than 20 feet AGL;
- c) Transmission frequencies other than: PCS band, AWS band, 5 GHz band;
- d) Total input power to antenna exceeds: 20W at PCS band, 20W at AWS band, 1W 5 GHz;
- e) The antenna positioning is changed;
- f) Other emitters become co-located on the pole/post;
- g) There are accessible locations (e.g., other poles, apartment balconies) within 8 feet of the antenna at or near antenna level.

The CRAN or Small Cell team managing the cell(s) to which this certification applies must inform HQ RAN when any of the listed changes occur and request a new certification study

RF SAFETY COMPLIANCE ANALYSIS

RF safety compliance was computationally evaluated using computational modeling contained in the FCC's OET Bulletin 65. A worst-case analysis in which peak power was transmitted 100% of the time was assumed. The results are based on the FCC's maximum permissible exposure limits for the general population.

Exposure predictions based on the antenna and RF data stated above indicate that a separation distance of 2 (two) feet must be kept from the nearest point of the ACE ACOM2F15D-12P-R2 antenna that is deployed alone on the pole/post.

COMPLIANCE ACTIONS

Leasing Agreements

In anticipation of inquiries and concerns of employees, contract workers, and others that may gain proximity to the antennas (collectively, "Covered Persons"), leasing agreements will include language that obligates site owners to:

- 1) Show the antennas to all Covered Persons, as necessary;
- 2) Instruct all Covered Persons to remain at least 2 (two) feet from the antennas;
- 3) Instruct all Covered Persons to inform the pole/post owner if there is a need to get closer than 2 (two) feet from the antennas;
- 4) Instruct all Covered Persons to coordinate work near the antennas with the pole/post owner;
- 5) Contact AT&T at the number provided in the lease to arrange for the appropriate antenna(s) to be de-energized when needed if Covered Persons must work near the antennas, to provide confirmation to the Covered Persons when the antenna(s) have been de-energized, and to inform AT&T when it's safe to restore energy to the antennas.

Upon any RF modifications to a site, AT&T must also reassess the technical parameters of the small cells identified above to confirm continued compliance with the FCC exposure limits.

Signage Actions

- 1) Two AT&T 2.5" x 6.5" Notice decals must be placed opposite each other around the bottom of the antenna radome. The Notice decal text must specify that a distance of 2 (two) feet must be kept from the antenna. The drawing in Appendix D of this document illustrates signage placement. Other options for deployment of signage may be discussed with HQ if the pole/post owner refuses to allow signage to be posted on the pole or if other obstacles arise. The sign will inform the person of the potential for high exposure levels and provide a phone number to call and arrange for power to be removed from the antennas for the duration of work.
- 2) The pole/post owner should advise all employees that AT&T antennas are located on some poles/posts and that the guidance provided by the signs should be followed.
- 3) The CRAN or Small Cell team managing the cell(s) must upload this letter into Filenet for each pole/post site as confirmation that RF safety signage has been properly installed.

COMPLETING THIS CERTIFICATION DOCUMENT

Review the CRAN and Small Cell RF Safety Compliance Job Aid for assistance with completing this certification letter. The job aid may be retrieved from the RAN HQ RF Safety SharePoint using the link in Appendix C.

Actions to be taken by the HQ RF Safety Compliance Team

The HQ RF Safety Compliance Team will collaborate with the small cells team to address new issues with signage formatting, deployments, etc., as those issues arise during small cell deployment.

Actions to be taken by the AT&T Market Site Acquisition PM (AMSAP)

The AMSAP shall complete the section below for each site. However, the AMSAP may account for multiple sites/nodes by entering USIDs, FA#,s, and addresses for each in the spaces below.

CRAN or Small Cell USID: 184506,184514,184509,184515,184510,184516

CRAN or Small Cell FA# 14272794

Address: Northland Dr. & 73RD St. Scottsdale AZ, 85251 | 5001 N. Scottsdale RD. Scottsdale AZ, 85251 | Scottsdale Road & Vista Drive, Scottsdale AZ, 85250 | 5401 Scottsdale Road. Scottsdale AZ, 85250 | Scottsdale RD & Jackrabbit Rd. Scottsdale AZ, 85250 | Scottsdale RD and Chaparral. Phoenix Az,85 | 5401 N Scottsdale RD, Scottsdale AZ, 85250 |

Name of CRAN or Small Cell POC: Ajay Sawant

Phone: 4804444835

Date of certification:

Signature



Title RF Engineer

Upon completing the information above and signing, the AMSAP will upload the completed CL as instructed in Appendix B below.

Actions to be taken by the Mobility C&E National PMO

The Mobility C&E National PMO shall upload a copy of the uncompleted CL into a SharePoint location managed by the Mobility C&E National PMO.

APPENDIX A: Accessing the CRAN and Small Cell Certification Library

A library of previously-issued CLs may be consulted to determine whether one of them is applicable to a new deployment.

Use this link to access previously issued certification letters: [CRAN/Small Cells Certification Letters](#).

Contact Jan Wise (hw8938) to request access for the CL s/p link above.

1. If all the conditions in a CL are congruent with the conditions for a prospective new deployment, the CL may be applied according to guidance given in the main body of this document.
2. If changes, e.g., increase in power, to an existing CL would appear to make it applicable to a new deployment, a request for modification may be made to HQ.
3. If no usable CLS are found in the library, a request for a new CL must be made through HQ

APPENDIX B: Naming Conventions for Uploading Completed CLs into Filenet.

CLs completed by the field must be uploaded into Filenet using the following naming convention:

1. Certification letters will be uploaded into Filenet with Doc ID “RS102”
2. If the multiple site/node option is used, the completed CL must be uploaded into all applicable locations.
3. Following file naming convention will be used for CLs when uploading into Filenet
 - a. **RFS Cert_SC_FA_USID_MMDDYY** (Applies to Small Cells)
 - b. **RFS Cert_CRAN_FA_USID_MMDDYY** (Applies to CRAN)
4. Certification letters shall be uploaded into Filenet by C&E or its vendor.

APPENDIX C: RAN HQ RF Safety SharePoint Link

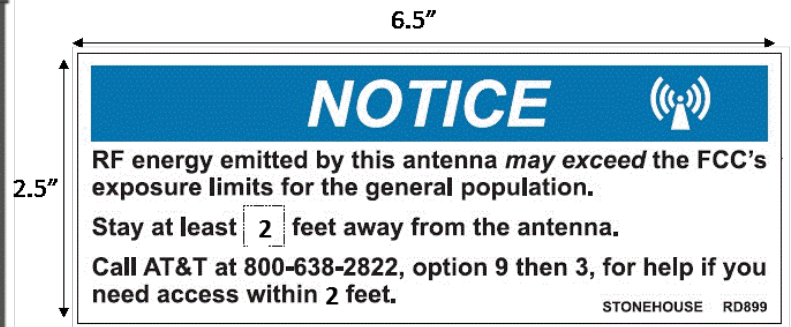
The RAN HQ RF Safety SharePoint link may be consulted to access:

1. CRAN and Small Cell compliance certification process PowerPoint presentation
2. CRAN and Small Cell RF Safety Compliance job aid

[Small Cells CRAN Compliance Documents](#)

APPENDIX D: Placement of RF Safety Signage.

Signage can be ordered from Stonehouse Signs, Inc., according to the guidance in Section 6.2, "Stonehouse Signs Ordering Process (CRAN)," in ATT-790-202-062 DAS (Distributed Antenna System) and CRAN (Centralized Radio Access Network) Signage Standard." Use this link to access the document:
<http://apex.web.att.com/bookview/bookview.jsp?bookname=ATT-790-202-062&fulltext>



Place two NOTICE decals opposite each other around the bottom of the antenna radome.



December 15, 2020

Mr. George Burton
Planner
Town of Paradise Valley
6401 E Lincoln Drive
Paradise Valley, AZ 85253

cc: NPE RAN RF Safety (gl6887@att.com)

Subject: AT&T RF Safety Policy

Dear Mr. Burton,

You have been identified as the owner, manager, or operator of a property where AT&T is proposing and will maintain cell sites. As you may know, cell sites operate using radio frequency ("RF") energy and exposure to this energy is regulated by the Federal Communications Commission ("FCC"). This letter is intended to inform you of AT&T's RF Safety Plan for complying with those regulations at these sites. An RF Safety Plan may include signs to minimize exposure to RF energy, education about the potential for RF exposure and how to avoid it, or a program for entry to areas where RF exposure could occur.

AT&T's RF Safety Policy. This policy requires a qualified RF safety engineer to periodically review AT&T's cell sites to confirm compliance with FCC RF exposure rules (see Exhibit A). For some sites, alerting signs (see Exhibit A) are needed to restrict the public or workers access to RF energy beyond maximum permissible levels. These Alerting signs (i.e. Notice, Caution, or Warning) may notify workers and the public that may have access to areas near the antennas of the presence and risks of RF energy. AT&T periodically conducts audits to evaluate their continued presence and integrity. Where appropriate, these preventative measures should also be combined with the entry restrictions discussed below, such as locks at all access points. The sections below explain the RF Safety Plan for these sites.

Site Exposure Mitigation. Our most current review of AT&T sites (refer to table in below section) indicates that the following signs are required at the cell site on your property to ensure compliance with FCC RF Safety rules

- 1) Two AT&T 2.5" x 6.5" Notice decals must be placed opposite each other around the bottom of the antenna radome. The Notice decal text must specify that a distance of 2 (two) feet must be kept from the antenna. The drawing in Exhibit B of this document illustrates signage placement. Other options for deployment of signage may be discussed with HQ if the pole/post owner refuses to allow signage to be posted on the pole or if other obstacles arise. The sign will inform the person of the potential for high exposure levels and provide a phone number to call and arrange for power to be removed from the antennas for the duration of work.
- 2) The pole/post owner should advise all employees that AT&T antennas are located on some poles/posts and that the guidance provided by the signs should be followed.
- 3) The CRAN or Small Cell team managing the cell(s) must upload this letter into FileNet for each pole/post site as confirmation that RF safety signage has been properly installed.



AT&T or its site vendor will contact you to arrange a time for the placement of the above signs and to discuss controlling access to the cell site area. AT&T will incur all costs pertaining to the installation of any RF Safety signs.

Master FA Number	Antenna USID	Site Name	Antenna Location	Antenna Latitude (Decimal)	Antenna Longitude (Decimal)
14806281	184514	PHX01_008	5303 N Scottsdale Rd	33.513944	-111.925836
14806283	184515	PHX01_010	5391 N Scottsdale Rd	33.515319	-111.925819

Should the Landlord decline AT&T's proposed posting of Alerting Signage, then the following RF Safety Plan shall be followed by the Landlord.

These steps below should be followed by employees, contract workers, and others (Covered Persons) that may gain proximity to the antennas.

1. Ensure all authorized personnel working near antennas have certified RF Safety training
2. Personnel working near antennas should carry Personal RF Exposure Monitoring Device
3. Instruct all Covered Persons to remain at least (2) two feet from the antennas;
4. Instruct all Covered Persons to inform the pole/post owner if there is a need to get closer than (2) two feet from the antennas;
5. Instruct all Covered Persons to coordinate work near the antennas with the pole/post owner

If the above steps are not possible then proceed with the Site Shut-Down procedure below:

Site Shut-down Procedure

- a. Instruct all persons that may need to ascend the pole to contact the owner prior to ascending the pole;
- b. Call the AT&T Network Operations Center at 1-800-638-2822 (**Option 9 and 3**) to arrange for turning off power to the antennas. Provide the FA (at top of letter). Please allow 2 weeks' notice.
- c. Wait for confirmation from the NOC (Network Operations Center) that the antennas are de-energized before permitting the workers to ascend the pole;
- d. Inform the NOC (Network Operations Center) when the workers have left pole.

Upon any RF modifications to a site, AT&T must also reassess the technical parameters of the CRAN/Small cells identified above to confirm continued compliance with the FCC exposure limits.



Please sign below and return to me acknowledging receipt of this letter and your agreement to follow these processes to control entry to the area where AT&T's antennas are located. Please do not hesitate to contact me if you have any additional questions.

Sincerely,


Landlord Name (printed)


Landlord Signature

Date



Exhibit A
RF Safety Information
AT&T Cell Sites on Third Party Property

NOTICE 	
AT&T operates antennas at this structure.	
Above this point you are entering an area where radio frequency (RF) fields <i>may</i> exceed the FCC General Population exposure limits.	
Follow safety guidelines for working in an RF environment.	
Keep ft. away from the fronts of the antennas.	
Contact AT&T at 800-638-2822, opt. 9, 3 and follow their instructions prior to performing any maintenance or repairs above this point.	
This is AT&T Site USID _____	
ET-001-B-0002	R03092

CAUTION 	
AT&T operates antennas at this structure.	
Above this point you are entering an area where radio frequency (RF) fields <i>may</i> exceed the FCC Occupational exposure limits.	
Follow safety guidelines for working in an RF environment.	
Keep ft. away from the fronts of the antennas.	
Contact AT&T at 800-638-2822, opt. 9, 3 and follow their instructions prior to performing any maintenance or repairs above this point.	
Cell Site USID _____	
ET-001-B-0002	R03092

RF Exposure. Guidance on the potential risks of exposure to RF emissions can be found in the FCC's publication OET 56-Questions and Answers about Biological Effects and Potential Hazards of Radiofrequency Electromagnetic Fields (1999), which may be accessed via this link: http://transition.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet56/oet56e4.pdf. The FCC's RF exposure rules are at 47 CFR §1.1307(b) and can be accessed at: http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&tpl=/ecfrbrowse/Title47/47cfrv1_02.tpl.



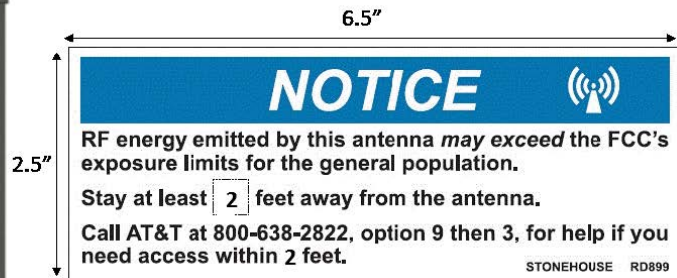
Exhibit B
Placement of RF Safety Signage.

Small Cells_CRAN Compliance Documents

Signage can be ordered from Stonehouse Signs, Inc., according to the guidance in Section 6.2, "Stonehouse Signs Ordering Process (CRAN)," in ATT-790-202-062

DAS (Distributed Antenna System) and CRAN (Centralized Radio Access Network) Signage Standard." Use this link to access the document:

<http://apex.web.att.com/bookview/bookview.jsp?bookname=ATT-790-202-062&fulltext>



Place two NOTICE decals opposite each other around the bottom of the antenna radome.

Table 1. LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

(B) Limits for General Population/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
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz

*Plane-wave equivalent power density

NOTE 1: *Occupational/controlled* limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2: *General population/uncontrolled* exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

STREET LIGHT SITE LICENSE AGREEMENT

This Site License Agreement is made pursuant to the Master License Agreement for Wireless Attachments to APS Streetlight Poles ("Master License Agreement"), Master License Agreement Number JU19-003, between Arizona Public Service Company and New Cingular Wireless PCS, LLC a Delaware limited liability company ("Licensee") dated August 13, 2019. This Site License Agreement is governed by the provisions of the Master License Agreement, the provisions of which are specifically incorporated herein by this reference, and remains in effect only as long as the Master License Agreement remains in effect.

1. Licensee site name and number: PHX01 008 A
2. Streetlight Pole number: 10
3. Licensee site legal description: Paradise Valley Right of Way adjacent to APN 173-17-011, 5401 N Scottsdale Road, Paradise Valley
4. Site Latitude and Longitude (Approximate): 33.513944 -111.925836
5. Commencement Date: 4/13/2020
6. Fees: [REDACTED]
7. Term: one (1) five (5) year term
8. Renewal Options: four (4) additional five (5) year renewals possible
9. Ownership of underlying fee: Town of Paradise Valley
10. APS contact for emergencies: 602-371-7171
11. Licensee contact for emergencies: 800-638-2822, option 9, then 3
12. Description of Communications Facility: Pico Design consisting of one 35' replacement light pole with one antenna mounted on top in concealment housing, three RRH units below antenna in concealment housing, one power meter pedestal, one fiber meet vault, one electrical pull box.
13. Provide detailed drawing of streetlight Pole showing proposed installation including attachment points for all equipment, dimensional specifications, cabling, etc. See Attached Construction Drawings
14. List each piece of equipment, including make, model number, size and weight. Attach manufacturer specification sheets for each. See Attached Equipment Cut Sheets

15. Input power requirements (watts, kwh per month):
1.5
- a. Grounding of wireless attachment (please describe): See Construction Drawings Sheet G-1-Grounding Plan and Sheet G-2-Grounding Details
16. Radio Frequency Emissions: PCS MHz E+F+C3+C4 (20Mhz) E-ULTRA Band 2, AWS1 A (10MHz) Band 4, LAA Unlicensed (5 GHz) Band 46 39 GHz
17. Maximum ERP level: 50W
18. Will the Wireless installation identified above, as installed, comply fully with the RFR exposure limitations as specified by the Federal Communications Commission at 47 C.F.R. §1.1310 (or its successor regulation) and any state RFR standards?
- Yes X
- No
19. Special provisions, if any (site specific): Power meter/equipment cabinets to be located within Town of Paradise Valley ROW adjacent to new light pole.

LICENSEE

ARIZONA PUBLIC SERVICE COMPANY

By: 

By: 

Name: Sarah Kuo

Name: Ryan Jagels

Title: Area Mgr. Const. ENG

Title: Supv Const Program Mgmt

Date: 03/26/2020

Date: 4/13/2020



AT&T SITE ID: CRAN_RANM: PHX01_008_A

LAT/LOG: 33.513944, -111.925836

CROSS STREETS: N SCOTTSDALE RD & E VISTA DR

LIGHT POLE ADDRESS: 5401 N SCOTTSDALE RD SCOTTSDALE, AZ 85250

SERVICES ADDRESS: 5303 N SCOTTSDALE RD SCOTTSDALE, AZ 85250

POLE NUMBER: 10

UTILITY JOB #: WA433461

PROJECT TEAM

CLIENT REPRESENTATIVE

COMPANY: SMARTLINK, LLC
ADDRESS: 4501 N. MOUNTAIN VIEW, SUITE 200
CITY: STATE: ZIP:
CONTACT: JIMMY L. HARRIS
PHONE: (480) 444-6666
FAX: (480) 444-6667

PROJECT OWNER

COMPANY: AT&T
ADDRESS: 1555 WEST UNIVERSITY DRIVE
CITY: STATE: ZIP:
CONTACT: SHARON HARRIS
PHONE: (480) 444-6666
FAX: (480) 444-6667

PROFESSIONAL OF RECORD

COMPANY: STATE 48 DEVELOPMENT CONSULTING
ADDRESS: 1555 WEST UNIVERSITY DRIVE, SUITE 110
CITY: STATE: ZIP:
CONTACT: DARRIN MENDOZA
PHONE: (480) 444-6666
FAX: (480) 444-6667

SURVEYOR

COMPANY: SMART CONSULTING
ADDRESS: 4501 N. MOUNTAIN VIEW, SUITE 200
CITY: STATE: ZIP:
CONTACT: JIMMY L. HARRIS
PHONE: (480) 444-6666
FAX: (480) 444-6667

PROPERTY OWNER

COMPANY: TOWN OF PARADISE VALLEY
ADDRESS: 6801 E. LINCOLN DR. PARADISE VALLEY, AZ 85020
CITY: STATE: ZIP:
PHONE: (480) 444-6666

POWER COMPANY

COMPANY: APS
ADDRESS: 1555 WEST UNIVERSITY DRIVE
CITY: STATE: ZIP:
PHONE: (480) 444-6666

GENERAL NOTES

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND CONDITIONS ON THE JOB SITE AND SHALL BE RESPONSIBLE FOR ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED TO MAINTAIN THE FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

SITE INFORMATION

LATITUDE: 33.513944
LONGITUDE: -111.925836
LAT/LOG: 33.513944, -111.925836
APN: 100-100-0000
CURRENT ZONING: RSM
ZONING JURISDICTION: TOWN OF PARADISE VALLEY
COUNTY: MARICOPA COUNTY

PROJECT DESCRIPTION

THE PROJECT WILL BE COMPLETED BY THE CONTRACTOR. THE PROJECT WILL BE COMPLETED BY THE CONTRACTOR. THE PROJECT WILL BE COMPLETED BY THE CONTRACTOR. THE PROJECT WILL BE COMPLETED BY THE CONTRACTOR. THE PROJECT WILL BE COMPLETED BY THE CONTRACTOR. THE PROJECT WILL BE COMPLETED BY THE CONTRACTOR. THE PROJECT WILL BE COMPLETED BY THE CONTRACTOR. THE PROJECT WILL BE COMPLETED BY THE CONTRACTOR. THE PROJECT WILL BE COMPLETED BY THE CONTRACTOR. THE PROJECT WILL BE COMPLETED BY THE CONTRACTOR.



AT&T SITE ID: CRAN_RANM: PHX01_008_A

LAT/LOG: 33.513944, -111.925836

CROSS STREETS: N SCOTTSDALE RD & E VISTA DR

LIGHT POLE ADDRESS: 5401 N SCOTTSDALE RD SCOTTSDALE, AZ 85250

SERVICES ADDRESS: 5303 N SCOTTSDALE RD SCOTTSDALE, AZ 85250

POLE NUMBER: 10

UTILITY JOB #: WA433461

VICINITY MAP



SITE PHOTO



DRIVING DIRECTIONS

FROM AT&T OFFICE: 1555 WEST UNIVERSITY DRIVE, MESA, AZ 85201-4819
HEAD EAST TOWARD W UNIVERSITY DR. TURN LEFT TOWARD W UNIVERSITY DR. TURN RIGHT ONTO N PRIDE RD. USE THE MIDDLE 2 LANES TO
HEAD EAST TOWARD W UNIVERSITY DR. TURN LEFT TOWARD W UNIVERSITY DR. TURN LEFT ONTO E CHAPARRAL RD. TURN RIGHT ONTO N SCOTTSDALE RD
ARRIVE AT SITE ON RIGHT HAND SIDE (SEE NOTE).

CODE COMPLIANCE

BUILDING CODE: INTERNATIONAL BUILDING CODE 2015
ELECTRICAL CODE: NATIONAL ELECTRICAL CODE 2014
LIGHTNING PROTECTION CODE: NFPA 780, 2011 LIGHTNING PROTECTION CODE
SUBCONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AND STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.



Know what's below.
Call before you dig.

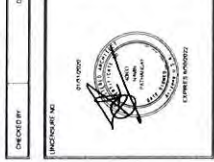
TO OBTAIN LOCATION OF PARTICIPANTS
UNDERGROUND FACILITIES BEFORE
YOU DIG IN ARIZONA, CALL ARIZONA 811
TOLL FREE 1-800-782-5348 OR
WWW.AZ811.COM
ARIZONA STATUTE
SECTION 18-101
WORKING DAYS NOTICE
BEFORE YOU EXCAVATE



THE INFORMATION CONTAINED IN THIS LIST OF DRAWINGS IS THE PROPERTY OF AT&T. IT IS TO BE USED FOR THE PROJECT AND NOT FOR ANY OTHER PURPOSE. IT IS TO BE USED FOR THE PROJECT AND NOT FOR ANY OTHER PURPOSE. IT IS TO BE USED FOR THE PROJECT AND NOT FOR ANY OTHER PURPOSE.



NO.	DATE	DESCRIPTION
1	10/1/14	ISSUED FOR PERMIT
2	10/1/14	ISSUED FOR PERMIT
3	10/1/14	ISSUED FOR PERMIT
4	10/1/14	ISSUED FOR PERMIT
5	10/1/14	ISSUED FOR PERMIT
6	10/1/14	ISSUED FOR PERMIT
7	10/1/14	ISSUED FOR PERMIT
8	10/1/14	ISSUED FOR PERMIT
9	10/1/14	ISSUED FOR PERMIT
10	10/1/14	ISSUED FOR PERMIT



AT&T SITE ID:
CRAN_RANM:
PHX01_008_A
5303 N SCOTTSDALE RD
SCOTTSDALE, AZ 85250

TITLE SHEET

T-1

GROUNDING NOTES

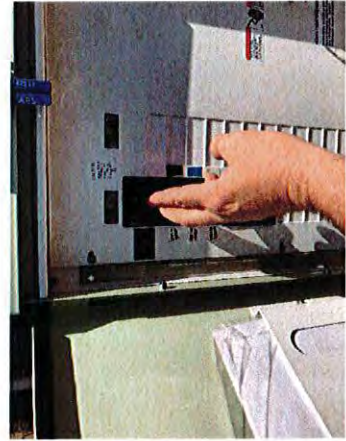
1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY AND INSTALL THE LIGHTNING PROTECTION SYSTEM AS DESIGNED AND INSTALLED FOR STREET COMPLIANCE WITH THE NEC AS ADAPTED BY THE SUBCONTRACTOR TO THE LOCAL CODES AND THE LOCAL ELECTRICAL CODE AND GENERAL COMPLIANCE WITH THE IEC AND ITC ADAPTING OR STANDARDS, THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVISE THE ENGINEER OF ANY VIOLATIONS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL LIGHTING ELECTRODE SYSTEMS INCLUDING THE COMMUNICATION RADIOLIGHTING PROTECTION, AND ACTUATOR (GESS) SHALL BE BORED TO THE REQUIRED DEPTH AND THE BORED RODS SHALL BE MORE CORROSION-RESISTANT IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM EARTH FAULT-LEVEL POTENTIAL RESISTANCE TESTS ON THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL EARTH RODS AS REQUIRED TO ACHIEVE A RESISTANCE OF 5 OHMS OR LESS. THE EARTH RODS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND THE LOCAL ELECTRICAL CODE. A TESTING OF FACILITY GROUNDING FOR GROUND RESISTANCE SHALL BE REQUIRED.
4. METAL RAILWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUNDING CONDUCTOR. STANDED CORROD CONDUCTOR WITH GREEN INSULATION, USED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BITS EQUIPMENT.
5. EACH BITS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUNDING CONDUCTOR. STANDED CORROD OR LARGER FOR INDOOR BITS 2 AWG STANDED EQUIPMENT GROUNDING SHALL BE USED.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIMONY COATINGS (I.E. CONDUCTIVE GEL OF PASTE SHA) WILL BE USED ON ALL COMPRESSION AND BARE TIED GROUND CONNECTIONS.
8. ESE BARELY BAKING CONNECTIONS SHALL BE EXOTHERMICALLY WELDED IN BOXED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR.
9. ALUMINUM CONDUCTING OR CONFEYER GALV STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL, METAL RODS, FRAMES AND SUPPORTS SHALL BE BENDED TO THE GROUND RING IN ACCORDANCE WITH THE NEC. THE BENDING FITTING SHALL BE PROVIDED AND MADE EXTERNALLY CONTINUOUS WITH LISTED BENDING FITTINGS OR ROLLING RINGS. THE DISCONTINUITY WITH THE GROUND WHERE THE APPROVED GROUNDING TYPE CONDUIT CLAMPS.
11. CONDUCTORS USED IN THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE SUTED THROUGH METAL OBJECTS THAT FORM A SHIELD AROUND THE CONDUCTOR SUCH AS METALIC OBJECTS, METAL SUPPORT CLIPS OR METAL RINGS. THE CONDUCTORS SHALL BE INSTALLED IN A MANNER THAT WILL BE CONDUCT TO MEET CODE REQUIREMENTS OF LOCAL CODES. NONMETALIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED WHERE USE OF METAL CONDUIT IS UNAVAILABLE. NON-METALIC CONDUIT PROHIBITED BY LOCAL CODES. THE GROUNDING CONDUIT SHALL BE BENDED TO EACH END OF THE METAL CONDUCTOR.
12. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND THE LOCAL ELECTRICAL CODE. THE STANDARD THE WIRE SIZE OF THE USED GROUNDING SYSTEM SHALL BE BORED TO THE REQUIRED DEPTH AND THE BORED GROUND RINGS SHALL BE CHANGED FROM 4 INCH TO 6 INCH IN A DIRECTION. THE MINIMUM LENGTH OF THE GROUND RODS SHALL BE INCREASED FROM 4 FEET TO 10 FEET.

- [illegible]

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EMERGENCY SHUTDOWN PROCEDURES:

1. VEHICULAR ACCIDENT CAUSING DAMAGE TO POLE ONLY.
2. AT THE END OF CABLED 1055.
3. UNLATCH AND OPEN CABINET (PHOTO 2).
4. TURN BREAKER LABEL "MAIN" TO THE OFF POSITION (PHOTO 3).
5. CALL AUST 1 (BROOKLYN OPTION 3, THEN 2).
6. REFERENCE SITE NUMBER LOCATED ON THE EQUIPMENT CASE.
7. AN ATTY TECHNICIAN WILL BE DISPATCHED TO ASSESS THE DAMAGE.
8. AN ATTY TECHNICIAN WILL BE DISPATCHED TO ASSESS THE DAMAGE.
9. VEHICULAR ACCIDENT CAUSING DAMAGE TO EQUIPMENT CASE.
10. UNLATCH AND OPEN CABINET 1055.
11. UNLATCH AND OPEN CABINET (PHOTO 2).
12. TURN BREAKER LABEL "MAIN" TO THE OFF POSITION (PHOTO 3).
13. CALL AUST AT 800-638-7422, OPTION 8, THEN 3.
14. REFERENCE SITE NUMBER LOCATED ON THE EQUIPMENT CASE.
15. AN ATTY TECHNICIAN WILL BE DISPATCHED TO ASSESS THE DAMAGE.
16. VEHICULAR ACCIDENT CAUSING DAMAGE TO UTILITY WIRE WITH CABLE.
17. CALL 902-227-THUNDER (OR 902-227-7261).
18. REFERENCE ADDRESS LOCATION OF IMPACTED UTILITY.
19. UTILITY COMPANY WILL RELEASE A TECHNICIAN TO ASSESS THE DAMAGE.
20. CALL AUST 1 (BROOKLYN OPTION 3, THEN 2).
21. REFERENCE SITE NUMBER LOCATED ON THE EQUIPMENT CASE.
22. AN ATTY TECHNICIAN WILL BE DISPATCHED TO ASSESS THE DAMAGE.

[illegible]



8502 E. VIA DE VENTURA, SUITE 220
SCOTTSDALE, AZ 85258

PHX01_008_A

5401 N. SCOTTSDALE ROAD
SCOTTSDALE, AZ 85250
MARICOPA COUNTY

ISSUED FOR:			
DATE	1/15/16	1/15/16	1/15/16
BY	AL	AL	AL
CHKD	AL	AL	AL
APP'D	AL	AL	AL
DATE	1/15/16	1/15/16	1/15/16

430 E. SOUTH-50th AVE
TEMPE, ARIZONA 85282
PH: (480) 855-4072
www.ambitconsulting.us

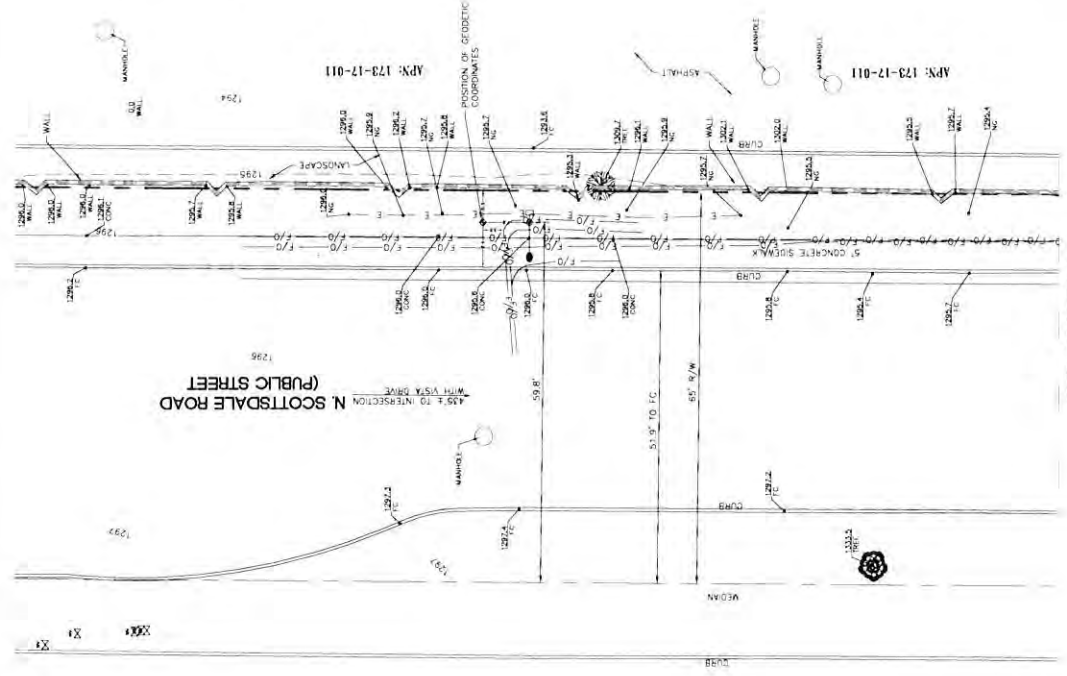
ambit consulting

SEAL

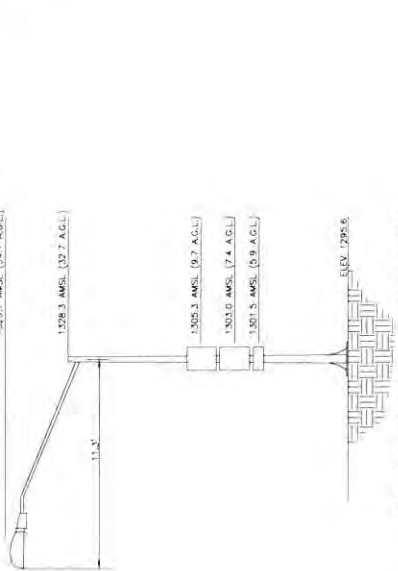
EXPIRES 03/31/2020

THIS SEAL IS VALID FOR THE PERIOD OF 180 DAYS FROM THE DATE OF ISSUANCE. IT IS NOT VALID FOR ANY OTHER PROJECT OR FOR ANY OTHER PURPOSE.

SHEET NUMBER: **LS-1**
REVISION: **C**



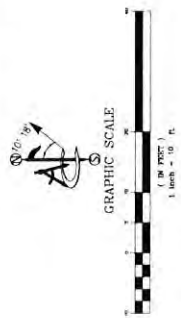
SEE SHEET 2



STREET LIGHT DETAIL N.T.S.

LEGEND

CONCRETE MANSUET UNIT
WALL
RIGHT OF WAY
CURB
NATURAL GRADE
WATER VALVE
UTILITY MANHOLE
WATER TREE
ELECTRIC LINE
FIBER OPTIC LINES
CABLES
DRAINAGE
ROOT OF WAY LINES
MAJOR CONTOUR INTERVAL
MINOR CONTOUR INTERVAL



SURVEY DATE
01/15/2016 AND 05/11/2016

BASIS OF BEARING
BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM ARIZONA STATE PLANE ZONE 12N. ALL BEARINGS WERE OBTAINED BY GPS OBSERVATIONS.

BENCHMARK
SURVEY POINTS TRANSFERRED FROM GPS-BASED ORTHOMETRIC HEIGHTS BY APPLICATION OF ANS-1010 TYPE MODELED SEPARATIONS TO ELLIPSOID HEIGHTS. THE TRANSFERRED SURVEY POINTS WERE OBTAINED FROM ARIZONA HEIGHT MODERNIZATION PROJECT DATA. ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD83.

FLOOD ZONE
THIS PROJECT APPEARS TO BE LOCATED WITHIN FLOOD ZONE. FOR MORE INFORMATION, CONTACT THE ARIZONA DEPARTMENT OF WATER RESOURCES, 1001 N. GAVELIN AVENUE, PHOENIX, AZ 85004. MAP ID: #040121700, DATED 10/16/2013.

UTILITY NOTES
SURVEY DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THAT THE UTILITIES SHOWN ARE ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR REPLACEMENT OF ANY UTILITIES DAMAGED DURING CONSTRUCTION.

NOTES
NO CONFLICT WITH AMERICAN TELEPHONE COMPANY PER BLUESTAKE. NO CONFLICT WITH ARIZONA POWER AND LIGHT COMPANY PER BLUESTAKE. NO CONFLICT WITH ARIZONA POWER AND LIGHT COMPANY PER BLUESTAKE. NO CONFLICT WITH ARIZONA POWER AND LIGHT COMPANY PER BLUESTAKE. NO CONFLICT WITH ARIZONA POWER AND LIGHT COMPANY PER BLUESTAKE.

SURVEYOR'S NOTES
SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE ISSUED. ANY RIGHT OF WAY SHOWN HEREON IS PLOTTED FROM INFORMATION PROVIDED BY OTHERS AND DOES NOT CONSTITUTE A BOUNDARY SURVEY. TO BE ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES. A TITLE REPORT WAS NOT PROVIDED AT THE TIME THE SURVEY WAS PREPARED.

LESSOR'S LEGAL DESCRIPTION
PARADISE VALLEY RIGHT OF WAY
ADJACENT TO APN: 173-17-011

POSITION OF SCOTTSDALE COORDINATE SYSTEM (NAD83)
LONGITUDE: 111° 55' 33.07" (-111.925835° WEST (NAD83))
GROUND ELEVATION: 1296.11' (NAVD83)

 smartlink

END E VIA DE VENTURA. SUITE 2

State 48
Development Consulting

WWW.STATE48CONSULTING.COM
4801 E. VIA DE VENTURA SUITE 100
SCOTTSDALE, AZ 85258

[illegible]

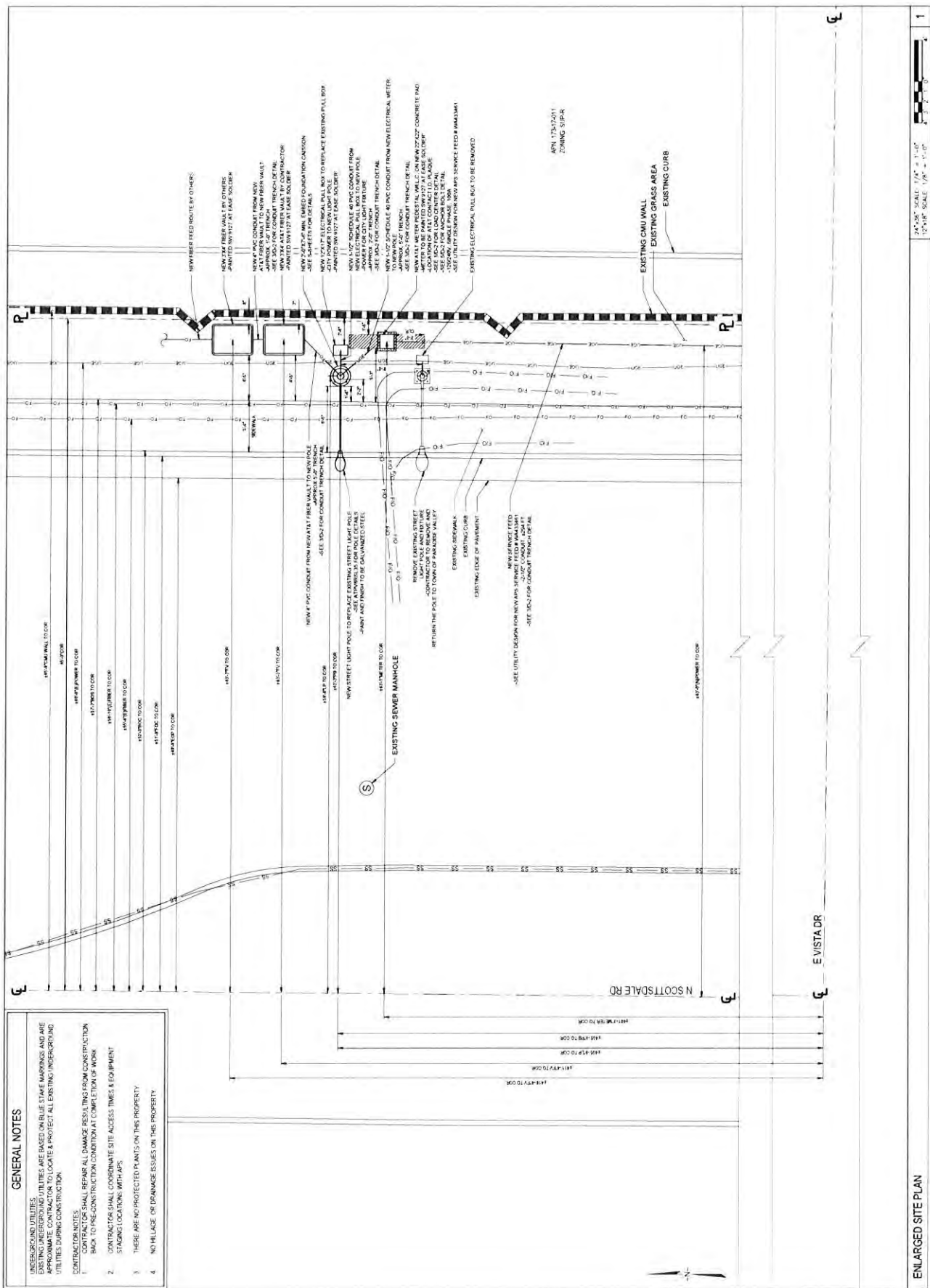
1000



AT&T SITE ID:
CRAN_RANM:
PHX01_008_A
5303 N SCOTTSDALE RD
SCOTTSDALE AZ 85250

ENLARGED SITE PLAN

A-2





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8000 STATE AVE. SUITE 200
DART MOUNTAIN, VA 22026
SCOTTSDALE, AZ 85204
480-342-7477 480-342-7447

Expt. no.	Date	Discipline
1	18/11/14	Maths
2	19/11/14	Current Computer
3	20/11/14	
4	21/11/14	
5	22/11/14	
6	23/11/14	
7	24/11/14	
8	25/11/14	
9	26/11/14	
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100	25/02/15	

3	DECEMBER
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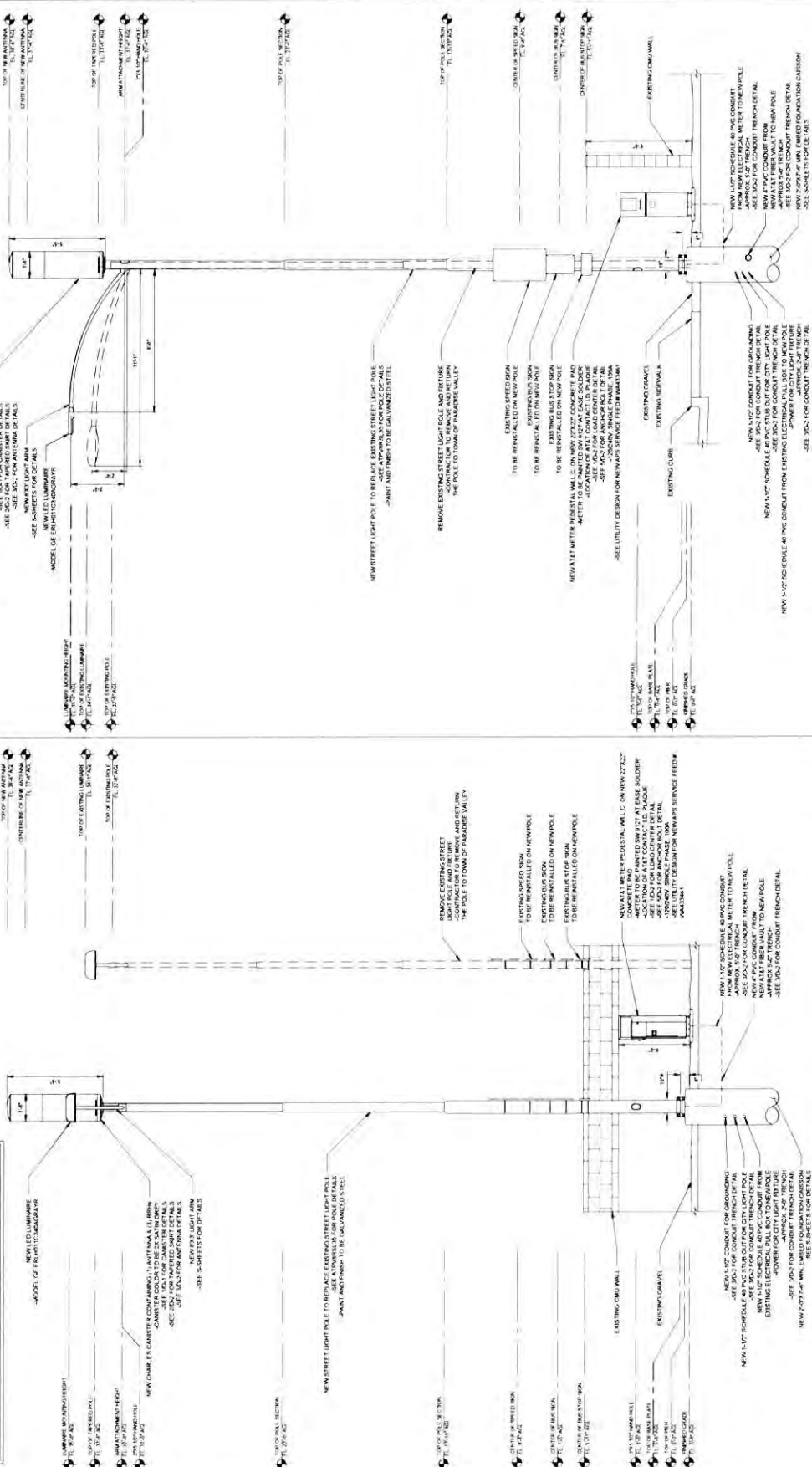
AT&T SITE ID:
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5303 N SCOTTSDALE RD
SCOTTSDALE AZ 85250

ELEVATIONS

A-3

UNDERGROUND UTILITIES
EXISTING UNDERGROUND UTILITIES ARE BASED ON BLUE STAKE MARKINGS AND ARE
APPROXIMATE. CONTRACTOR TO LOCATE & PROTECT ALL EXISTING UNDERGROUND
UTILITIES DURING CONSTRUCTION.

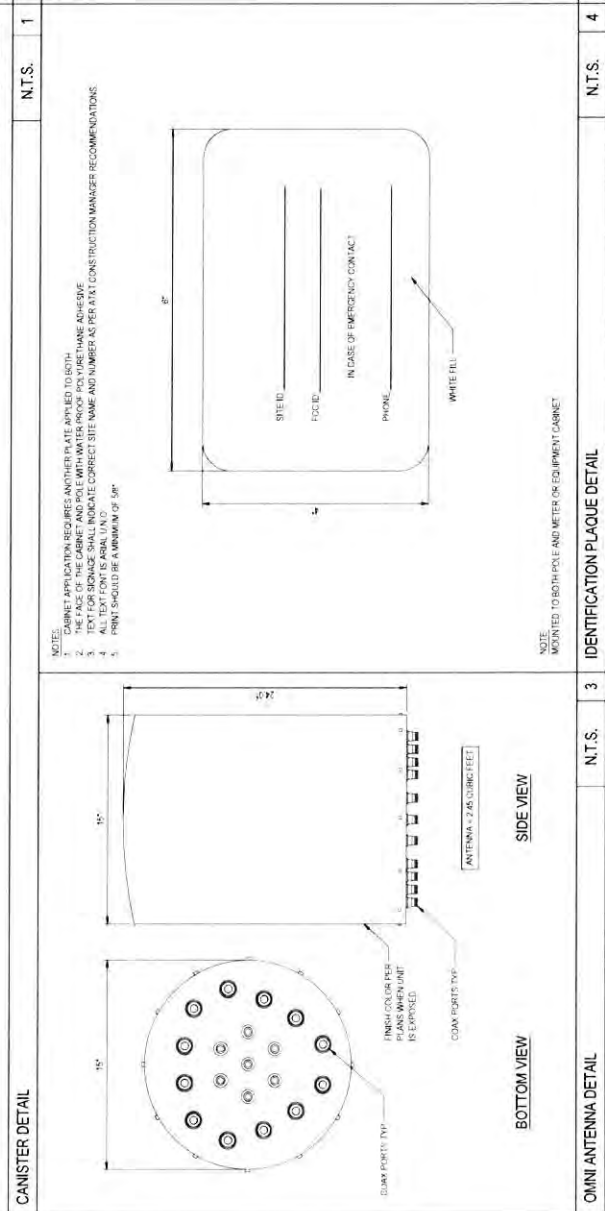
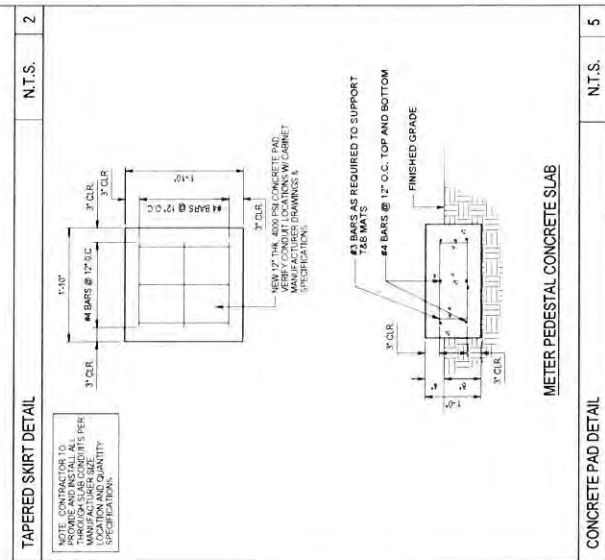
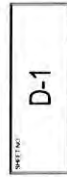
- | | |
|---|---|
| 1 | CONTRACTOR NOTES |
| 2 | CONTRACTOR SHALL REPAIR ALL DAMAGE RESULTING FROM CONSTRUCTION BACK TO PRE-CONSTRUCTION CONDITION AT COMPLETION OF WORK |
| 3 | CONTRACTOR SHALL COORDINATE SITE ACCESS TIMES & EQUIPMENT STAGING LOCATIONS WITH APS |
| 4 | THERE ARE NO PROTECTED PLANTS ON THIS PROPERTY |
| 5 | NO HILLAGE OR DRAINAGE ISSUES ON THIS PROPERTY |



PROPOSED AND EXISTING WEST ELEVATION

PROPOSED AND EXISTING SOUTH ELEVATION

74" x 36" SCALE: 3/8" = 1'-0"
 1" = 10' SCALE: 3/8" = 1'-0"





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Development Consulting

WWW.STATE48CONSULTING.COM
801 E. MAIN ST. SUITE 100
SCOTTSDALE, AZ 85256
800-420-7877

[illegible]

Number of days	24
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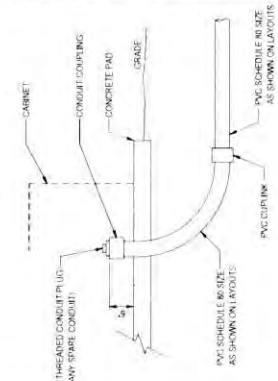
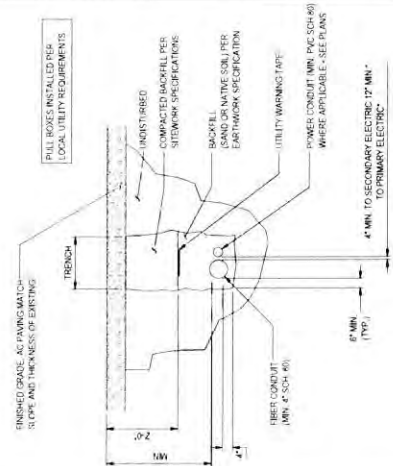
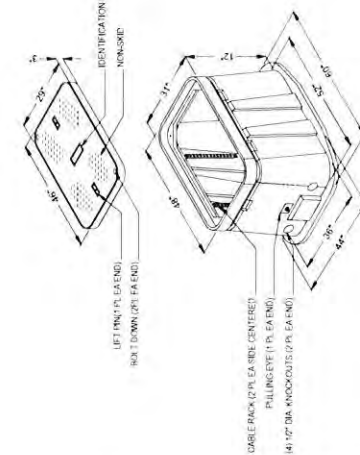
AT&T SITE ID:
CRAN_RANM:
PHX01_008_A
5303 N SCOTTSDALE RD
SCOTTSDALE, AZ 85250

CANISTER DETAILS

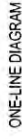
D-2



METER CABINET WITH LOAD CENTER DETAIL

[illegible]

NOTE
SLAB NOT TO EXCEED 4" ABOVE GRADE

[illegible]

PANEL SCHEDULE(PICO)

- ELECTRICAL INSTALLATION NOTES:**
1. WIRING, HALWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS IN THE NEC AND TELLING.
 2. ALL WIRING SHALL BE IDENTIFYING CABLE. THIS SYSTEM IS REQUIRED TO SUPPORT THE AIRCRAFT TRANSPORT CATEGORY CABLE. THE NEW AIRCRAFT TRANSPORT CATEGORY CABLE SHALL BE IDENTIFYING CABLE. THIS SYSTEM IS REQUIRED TO SUPPORT THE AIRCRAFT TRANSPORT CATEGORY CABLE. THE NEW AIRCRAFT TRANSPORT CATEGORY CABLE SHALL BE IDENTIFYING CABLE.
 3. ALL CIRCUITS SHALL BE IDENTIFIED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE AIRCRAFT TRANSPORT CATEGORY CABLE.
 4. CABLES SHALL NOT BE ROUTED THROUGH INTERACTIVE CABLE TRAY RUNS.
 5. EACH END OF EVERY POWER, GROUNDING AND 110V CONDUIT SHALL BE LABELED WITH THE CIRCUIT IDENTIFICATION AND ELECTRICAL TYPE INFORMATION. THIS INFORMATION SHALL BE LABELED WITH THE CIRCUIT IDENTIFICATION AND ELECTRICAL TYPE INFORMATION. THIS INFORMATION SHALL BE LABELED WITH THE CIRCUIT IDENTIFICATION AND ELECTRICAL TYPE INFORMATION.
 6. ALL CIRCUITS SHALL BE IDENTIFIED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE AIRCRAFT TRANSPORT CATEGORY CABLE.
 7. ALL CIRCUITS SHALL BE IDENTIFIED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE AIRCRAFT TRANSPORT CATEGORY CABLE.
 8. ALL CIRCUITS SHALL BE IDENTIFIED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE AIRCRAFT TRANSPORT CATEGORY CABLE.
 9. ALL CIRCUITS SHALL BE IDENTIFIED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE AIRCRAFT TRANSPORT CATEGORY CABLE.
 10. POWER, CONTROL, AND EQUIPMENT GROUNDING MUST BE IDENTIFIED WITH APPROPRIATE CIRCUTING TOOL. TO REMAIN, SHARP EDGES, UNIFORM PROFILES, THE WIRING.
 11. ALL CIRCUITS SHALL BE IDENTIFIED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE AIRCRAFT TRANSPORT CATEGORY CABLE.
 12. ALL CIRCUITS SHALL BE IDENTIFIED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE AIRCRAFT TRANSPORT CATEGORY CABLE.
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 28. ALL CIRCUITS SHALL BE IDENTIFIED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE AIRCRAFT TRANSPORT CATEGORY CABLE.
 29. ALL CIRCUITS SHALL BE IDENTIFIED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE AIRCRAFT TRANSPORT CATEGORY CABLE.
 30. ALL CIRCUITS SHALL BE IDENTIFIED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE AIRCRAFT TRANSPORT CATEGORY CABLE.

[illegible]

GENERAL NOTES

UNDERGROUND UTILITIES
EXISTING UNDERGROUND UTILITIES ARE BASED ON BLUE STATE MARKINGS AND ARE APPROXIMATE. CONTRACTOR TO LOCATE & PROTECT ALL EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION.

CONTRACTOR NOTES

- CONTRACTOR SHALL REPAIR ALL DAMAGE RESULTING FROM CONSTRUCTION BACK TO PRE-CONSTRUCTION CONDITION AT COMPLETION OF WORK.
- CONTRACTOR SHALL COORDINATE SITE ACCESS TIMES & EQUIPMENT STAGING LOCATIONS WITH APT.
- THERE ARE NO PROTECTED PLANTS ON THIS PROPERTY.
- NO HILLAGE OR DRAINAGE ISSUES ON THIS PROPERTY.

1740 WEST UNIVERSITY DRIVE
SUITE 400
SCOTTSDALE, AZ 85250

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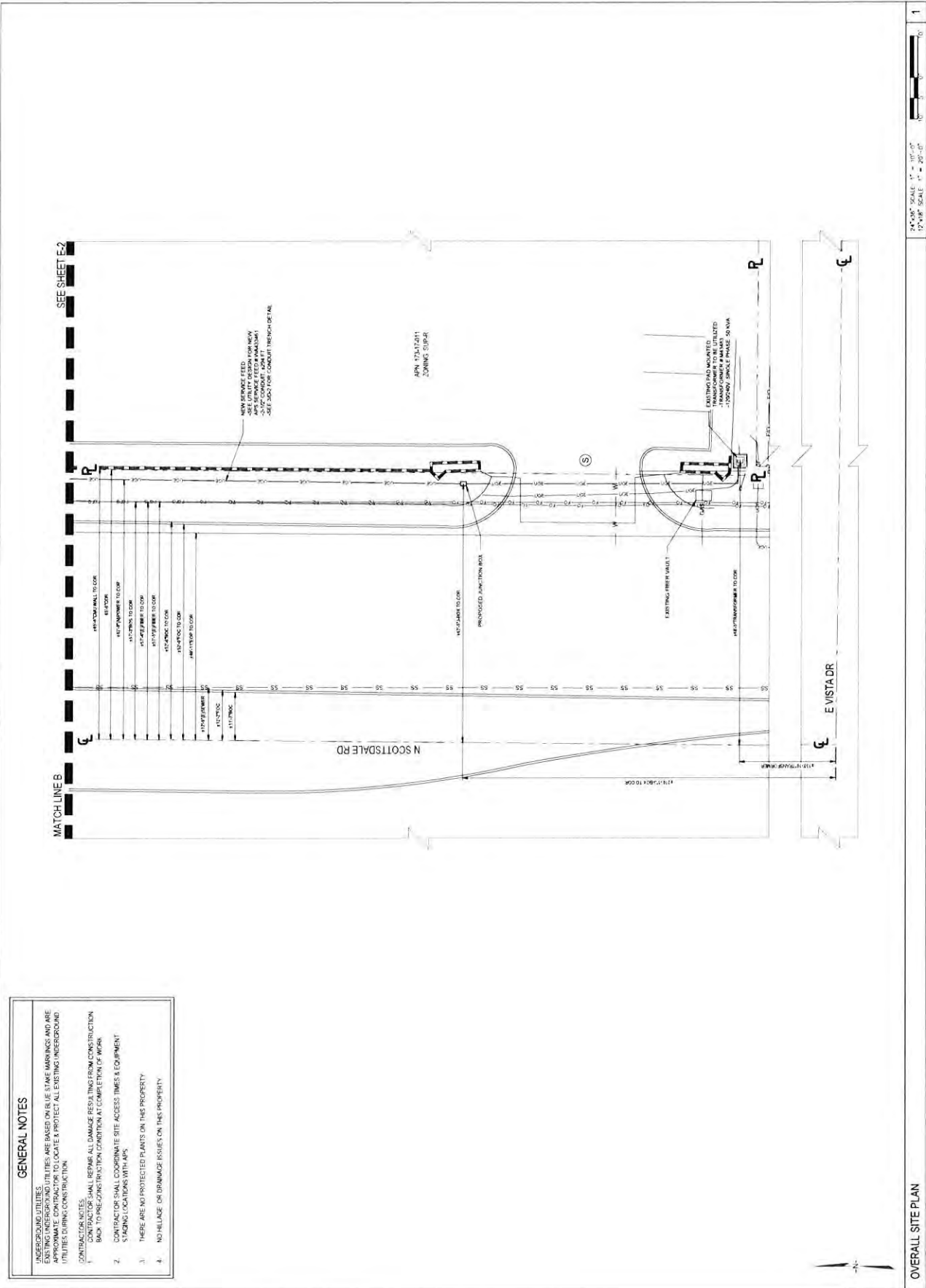
DESIGNED BY
State 48
Development Consulting
www.state48.com
1740 WEST UNIVERSITY DRIVE
SUITE 400
SCOTTSDALE, AZ 85250

NO.	DATE	DESCRIPTION
1	10/11/11	ISSUED FOR PERMIT
2	11/11/11	CLIENT COMMENTS

AT&T SITE ID:
CRAN_RANM:
PHX01_008_A
5303 N SCOTTSDALE RD
SCOTTSDALE, AZ 85250

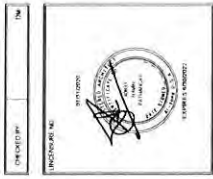
SHEET TITLE
SITE POWER PLAN

SHEET NO.
E-2.1





NO.	DATE	DESCRIPTION
1	11/11/11	ISSUE FOR PERMIT
2	11/11/11	CLIENT COMMENTS
3	11/11/11	CLIENT COMMENTS
4	11/11/11	CLIENT COMMENTS
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20	11/11/11	CLIENT COMMENTS



AT&T SITE ID
CRAN RANM
PHX01_008_A
5302 N SCOTTSDALE RD
SCOTTSDALE AZ 85250

GROUNDING
DETAILS

G-2

NOTE:

- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
- ALL GROUNDING CONDUCTORS #4 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
- GROUND BARS LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
- ALL BELOW GRADE CONNECTIONS EPOXY/HEMIC WELD TYPE ABOVE GRADE CONNECTIONS EPOXY/HEMIC WELD TYPE.
- GROUND RINGS SHALL BE LOCATED A MINIMUM OF 3" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE, WHICHEVER IS DEEPER.
- INSTALL GROUND CONDUCTORS AND GROUND RODS MINIMUM OF 1/4" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING OR FENCE.
- EPOXY/HEMIC WELD GROUND CONNECTION TO FENCE POST, TREST WITH A COLD GALVANIZED SPRAY 4 GROUND BARS, A EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS. ALL GROUNDING WIRE SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. ALL GROUNDING WIRE SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
- MAIN GROUND BUS BAR WIRE LOCATED NEAR THE BASE OF THE MAST/EQUIPMENT CABINET(S) SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
- OBSEIVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE, GROUNDING.
- GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURERS' RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).

GROUNDING NOTES

2

N.T.S.

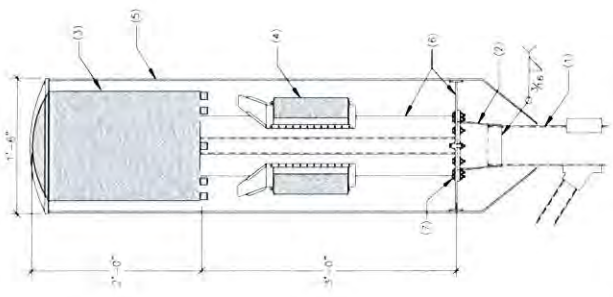
GROUNDING DETAIL

1

N.T.S.

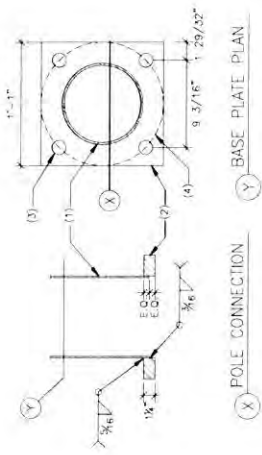
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N.T.S.



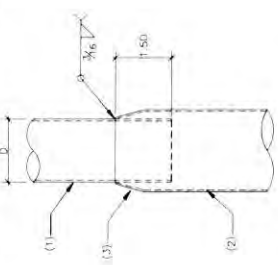
1. STEEL POLE PER ELEVATION,
2. STEPPED POLE REDUCER WITH FLANGE PLATE PER DETAIL 101,
3. ANTENNA,
4. RADIO EQUIPMENT,
5. SHROUD BY CHARLES INDUSTRIES,
6. SHROUD PLATE ASSEMBLY PROVIDED BY CHARLES INDUSTRIES,
7. (12) 5/8" DIA. A307 THRU-BOLT WITH WASHER EACH SIDE.

100 TOP OF POLE ASSEMBLY



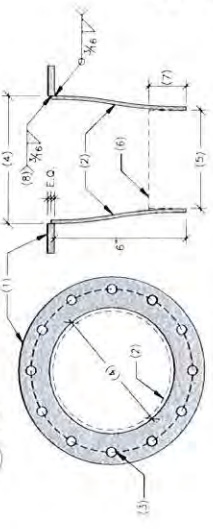
1. STEEL MONOPOLE BASE,
2. 1 1/4" x 1 1/4" - 1/4" STEEL BASE PLATE,
3. 1 1/4" x 1 1/4" HOLES FOR ANCHOR BOLTS,
4. 1 1/4" DIA. BOLT CIRCLE.

101 POLE CONNECTION



1. STEEL MONOPOLE BASE,
2. 1 1/4" x 1 1/4" - 1/4" STEEL BASE PLATE,
3. 1 1/4" x 1 1/4" HOLES FOR ANCHOR BOLTS,
4. 1 1/4" DIA. BOLT CIRCLE.

102 BASE PLATE & BASE PLATE CONNECTION



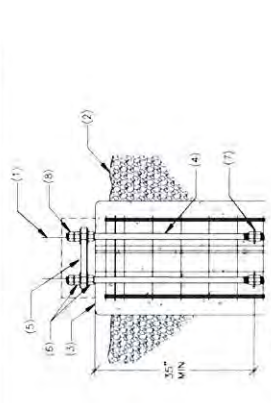
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2. 1 1/4" x 1 1/4" - 1/4" STEEL BASE PLATE,
3. 1 1/4" x 1 1/4" HOLES FOR ANCHOR BOLTS,
4. 1 1/4" DIA. BOLT CIRCLE.

103 FLANGE PLAN

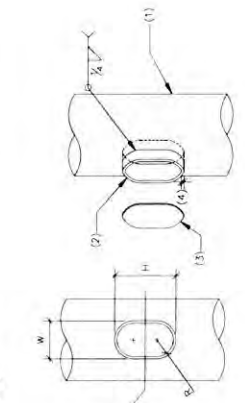
104 REDUCER SECTION

1. 9-1/8" OD x 5/8" THICK STEEL PLATE,
2. 3/16" THICK POLE SECTION - DRMP TO ACCOMMODATE DIMENSIONS SHOWN,
3. (12) 1/2" DIA. HOLES ON A 8-9/16" BOLT CIRCLE,
4. 8-5/8" DIA. HOLES TO ACCEPT CRIMPED SECTION,
5. 8-5/8" DIA. HOLES TO ACCEPT CRIMPED SECTION,
6. 2" MIN. SPACING,
7. 2" MIN. SPACING,
8. (4) WELDS, 2" LONG - EQUALLY SPACED.

105 STEPPED POLE REDUCER W/ FLANGE



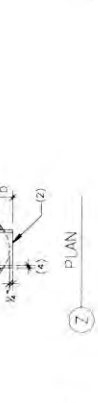
1. STEEL MONOPOLE BASE,
2. 1 1/4" x 1 1/4" - 1/4" STEEL BASE PLATE,
3. 1 1/4" x 1 1/4" HOLES FOR ANCHOR BOLTS,
4. 1 1/4" DIA. BOLT CIRCLE.



1. STEEL MONOPOLE BASE,
2. 1 1/4" x 1 1/4" - 1/4" STEEL BASE PLATE,
3. 1 1/4" x 1 1/4" HOLES FOR ANCHOR BOLTS,
4. 1 1/4" DIA. BOLT CIRCLE.

107 ELEVATION

108 ISOMETRIC

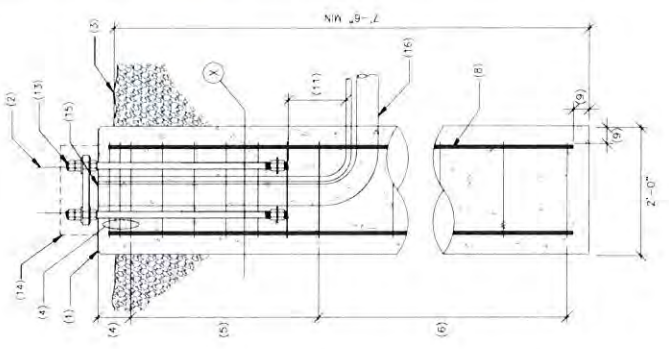


1. STEEL MONOPOLE BASE,
2. 1 1/4" x 1 1/4" - 1/4" STEEL BASE PLATE,
3. 1 1/4" x 1 1/4" HOLES FOR ANCHOR BOLTS,
4. 1 1/4" DIA. BOLT CIRCLE.

109 PLAN

HAND HOLE SCHEDULE				
MARK	HEIGHT (H)	WIDTH (W)	DEPTH (D)	RADIUS (R)
HH-1	5 1/2 IN	4 IN	2 IN	1 1/4 IN
HH-2	5 1/2 IN	5 IN	2 IN	1 1/4 IN

110 HAND HOLE SCHEDULE



1. STEEL MONOPOLE BASE,
2. 1 1/4" x 1 1/4" - 1/4" STEEL BASE PLATE,
3. 1 1/4" x 1 1/4" HOLES FOR ANCHOR BOLTS,
4. 1 1/4" DIA. BOLT CIRCLE.

111 CONCRETE DRILLED PIER

112 SECTION

1. CONCRETE DRILLED PIER,
2. STEEL MONOPOLE BASE,
3. 1 1/4" x 1 1/4" - 1/4" STEEL BASE PLATE,
4. 1 1/4" x 1 1/4" HOLES FOR ANCHOR BOLTS,
5. #3 TIES AT 6" O.C. - CONTINUED PAST ANCHOR BOLT EMBEDMENT,
6. #3 TIES AT 12" O.C. MAX FOR REMAINDER OF PIER DEPTH,
7. LAP TIES 12" MIN. STAGGER LAPS 180°,
8. #4 LONGITUDINAL BARS EQUALLY SPACED,
9. #4 LONGITUDINAL BARS EQUALLY SPACED,
10. CONTRACTOR TO BIND VERTICAL RUN OF CONDUIT TOGETHER SUCH THAT BOUND CONDUIT RUN DOES NOT EXCEED 7" DIA. CIRCLE, PLACE VERTICAL RUN IN CENTER OF DRILLED PIER,
11. ALTERNATE CONDUIT APPROACH,
12. ANCHOR RODS AND ANCHORAGE PER DETAIL 102,
13. SQUARE BASE COVER,
14. SQUARE BASE COVER,
15. SQUARE BASE COVER,
16. CONDUIT SIZE AND QUANTITY PER BELOW. INSTALL PER AIA&T AND CITY STANDARDS.

112 SECTION

1. CONCRETE DRILLED PIER,
2. STEEL MONOPOLE BASE,
3. 1 1/4" x 1 1/4" - 1/4" STEEL BASE PLATE,
4. 1 1/4" x 1 1/4" HOLES FOR ANCHOR BOLTS,
5. #3 TIES AT 6" O.C. - CONTINUED PAST ANCHOR BOLT EMBEDMENT,
6. #3 TIES AT 12" O.C. MAX FOR REMAINDER OF PIER DEPTH,
7. LAP TIES 12" MIN. STAGGER LAPS 180°,
8. #4 LONGITUDINAL BARS EQUALLY SPACED,
9. #4 LONGITUDINAL BARS EQUALLY SPACED,
10. CONTRACTOR TO BIND VERTICAL RUN OF CONDUIT TOGETHER SUCH THAT BOUND CONDUIT RUN DOES NOT EXCEED 7" DIA. CIRCLE, PLACE VERTICAL RUN IN CENTER OF DRILLED PIER,
11. ALTERNATE CONDUIT APPROACH,
12. ANCHOR RODS AND ANCHORAGE PER DETAIL 102,
13. SQUARE BASE COVER,
14. SQUARE BASE COVER,
15. SQUARE BASE COVER,
16. CONDUIT SIZE AND QUANTITY PER BELOW. INSTALL PER AIA&T AND CITY STANDARDS.

113 DRILLED PIER FOUNDATION



ATPV8RSL35
SMALL CELL LIGHT POLE
MULTI-USE DESIGN
PARADISE VALLEY, AZ

REV. ISSUED DATE
D. ISSUED FOR PERMIT 09 05 19



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400 S. GILBERT ST. SUITE 100
GILBERT, AZ 85234
WWW.CALIBER-ENGINEERING.COM
FOR: 480.501.1234 ENG. MEN

POLE DETAILS
S2 0



ATPV8RSL35
SMALL CELL LIGHT POLE
MULTI-USE DESIGN
PARADISE VALLEY, AZ

REV. 000001 DATE 01/10/19
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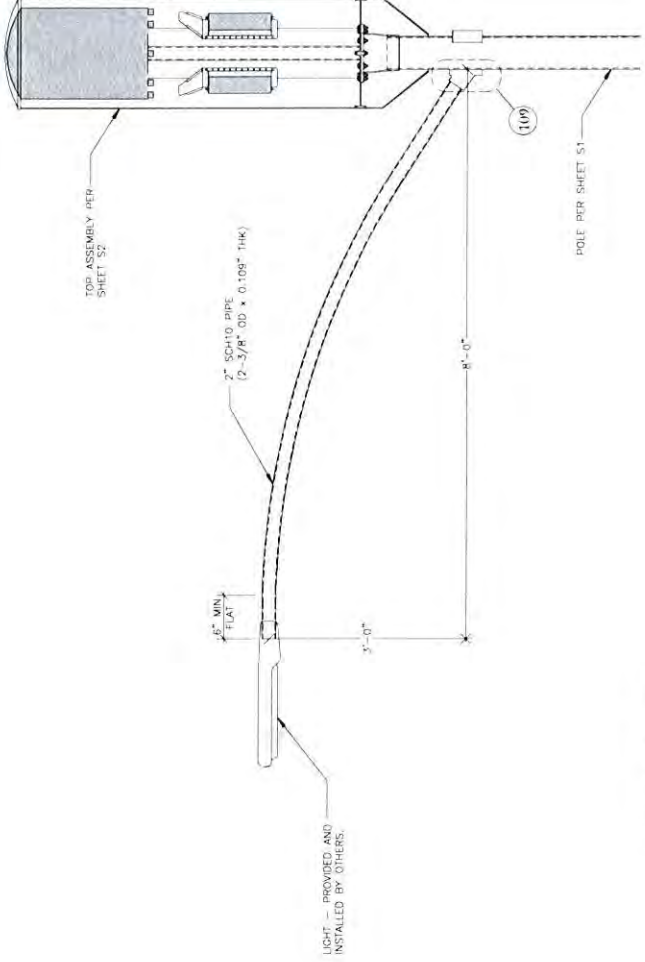
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480.292.0400
WWW.CALIBER-ENG.COM

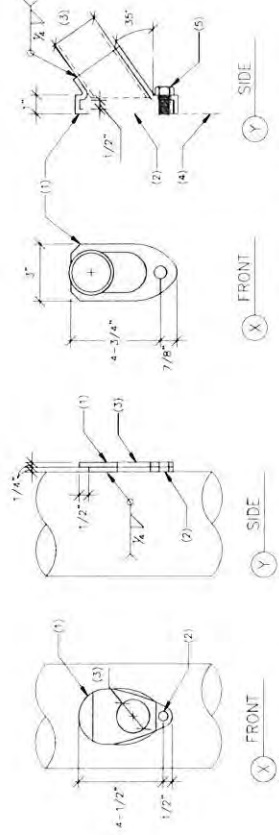
1008 19.0001 ENG. MEN

LIGHT MAST DETAILS

S3 0



108 LUMINAIRE MAST
NTS



1. APS SIMPLEX FITTING SHOE
2. 1/2\"/>
1. APS SIMPLEX FITTING FOOT (MIN 1/4\"/>

110 FITTING SHOE
NTS

109 FITTING FOOT
NTS

TOTAL TREMCHIN IITL	= 265
TOTAL TREMCHIN IITL	= 265

GENERAL NOTES FOR PUBLIC WORK: \$ CONSTRUCTION

- [illegible]

REFER TO CITY OF SCOTTSDALE WATER SEPARATION DETAIL 2017
REFER TO CITY OF SCOTTSDALE SEWER SEPARATION DETAIL 230
REFER TO CITY OF SCOTTSDALE PAVEMENT REPLACEMENT DETAIL 2000
REFER TO CITY OF SCOTTSDALE TREMOR BASIN DETAIL 2201

QUESTIONS TO PROVIDE A USEFUL SURVEY

STANDING CONDITIONS OF CONCRETE SURFACES, CRACK RELATIONS, AROUND THERE IS A SENSITIVE PIECE OF REINFORCING IS REQUIRED DUE TO THIS SURVEY STATES BEING DESTROYED IN THE FIELD

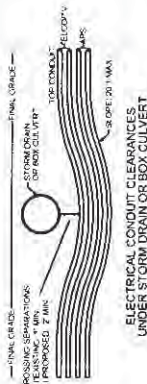
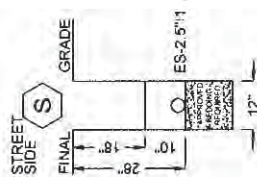
ALL APPROVED THROUGH CONCRETE MATERIALS IN CONTACT WITH A G.C. TRENCH AGREEMENT IN THE TRANSMISSION & DISTRIBUTION CONSTRUCTION STANDARDS, UNLESS OTHERWISE NOTED

APPLY TO DISCLOSE, DISCLOSE TO USUAL

EQUIPMENT SHOULD BE USED IN ORDER TO COMPARE INSPECTIONS IN ORDER TO FIND STRAP AND MARKERS (UNLESS NOTED OTHERWISE, PLEASE CONTACT US TO ARRANGE TO LIFT YOUR MATERIAL

COORDINATE WITH WORK

(INSTALL)
TOTAL WIRE DATA FOOTAGE
SECONDARY / SERVICE / ST LT / O.O




 Contact Arizona 811 at least two full working days before you begin excavation.
 Call 811 or click Arizona811.com

[illegible][illegible]

DATA MODIFIED PER FIELD CONDITIONS

VICINITY MAP

McCONA LANE RD

GARDEN RD

SCOTTS LANE RD

QUAKER HILL RD

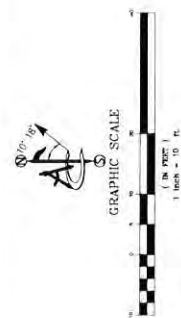
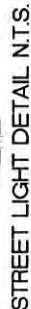
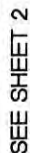
CAMBRIDGE RD

SCHOOL RD

6611 ST

PROJECT AREA

1	02 PM 6/14/06	STG 14	300	10	44509	11445
CONT 507 PAUL WESBOM PHONE 602-711-7347 PERSONALITY 602-711-6717 INSPECTOR GEORGE NOLAN PERSONALITY 602-480-7346 PHONE						
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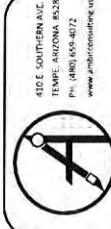
POSITION OF GEODETIC COORDINATES
LATITUDE: 33° 30' 50.15" (33.513925°) NORTH (NAD83)
LONGITUDE: 111° 55' 33.02" (111.925339°) WEST (NAD83)
GROUND ELEVATION: 1295.6' (NAD83)



PHX01-008

5401 N. SCOTTS DALE ROAD
SCOTTSDALE, AZ 85250
MARICOPA COUNTY

ISSUED FOR:				
REV	DATE	DESCRIPTION	BY	CHK
1	01/17/18	PRELIMINARY	SV	
2	02/01/18	ADDITIONAL	SV	



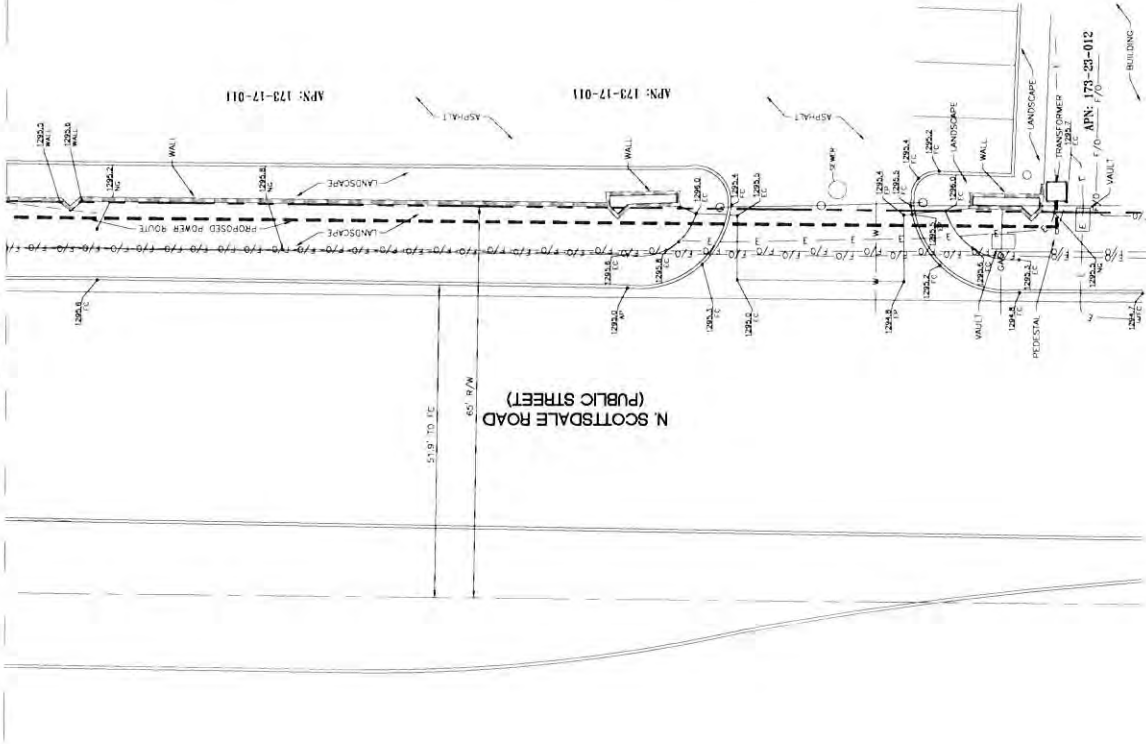
ambit consulting

THIS DOCUMENT IS
PRELIMINARY IN
NATURE AND IS NOT A
FINAL, SIGNED AND
SEALED DOCUMENT

THIS A SURVEYING PLAN FOR AN IMPROVEMENT
PROJECT AND IS NOT A FINAL, SIGNED AND
SEALED DOCUMENT

SHEET NUMBER: SV-2
REVISION: B

SEE SHEET 1



LEGEND	
CONCRETE MASONRY UNIT	STREET LIGHT
RIGHT OF WAY	POSITION OF
FACE OF CURB	EXISTING COORDINATES
UTILITY MANHOLE	SPOT ELEVATION
ELECTRIC LINE	TREE
WATER LINES	PALM TREE
GAS LINES	
DEEP OPTIC LINES	
CABLE LINES	
STREET CENTERLINES	
RIGHT OF WAY LINES	
LANDSCAPE	
MAJOR CONTIGUOUS INTERVAL	

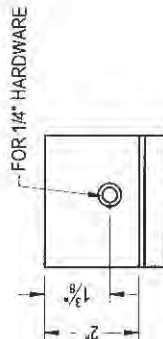


SURVEY DATE:
01/17/2018 AND 02/01/2018

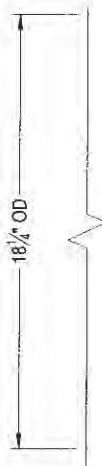
<input type="checkbox"/>	Approved w/ No Exceptions	<input type="checkbox"/>	Revise and Resubmit
<input type="checkbox"/>	Approved w/ Exceptions Noted	<input type="checkbox"/>	Rejected. See Remarks

Corrections or comments made on the shop drawings during the review do not relieve the contractor from compliance with the specific requirements of the contract documents. The contractor shall not include review of shop drawings as a component. The contractor is responsible for Dimensions to be confirmed and confirmed all the job site information that pertains to the fabrication processes or to the means, methods, techniques, sequences, and procedures of construction of the work with that of all other trades and performing all work in a safe and satisfactory manner.

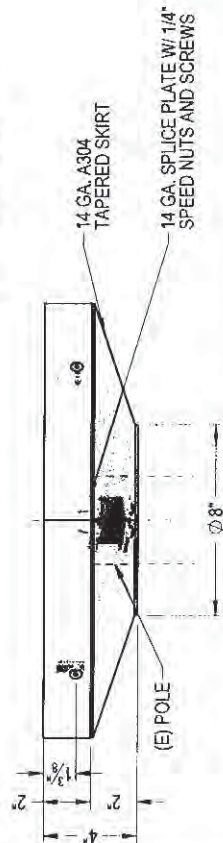
By: _____ Date: _____



SECTION A-A
DETAIL OF TAB



CONCEALMENT
[BY OTHERS]



ELEVATION VIEW

[illegible]

JAMIE EARLYBER

4" TAPERED SKIRT Charles Industries

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PROJECT NUMBER -

INDEX

DRAWING NUMBER

ACOM-2F15D-12P-R2,- 12-Port, Quasi-omni Outdoor Canister Antennas

Ace Omnidirectional SmallCell Antennas

- Quasi-omni radiation patterns for smallcells
- 12-Port, Quasi-omni Outdoor Canister Antennas
- Multiband, 12 port Fixed Antenna

698 - 894	1695 - 2400	3550 - 3700	5150 - 5925
2 ports	4 ports	4 ports	2 ports
±45°	±45°	±45°	±45°
360°	360°	360°	360°
39°	20°	27°	24°

ELECTRICAL SPECIFICATIONS				
Frequency Range [MHz]	698-894	1695-2400	3550-3700	5150-5925
Gain, maximum [dBi]	4.5	9.0	6.0	5.5
Azimuth Beamwidth [°]	360° (Quasi-Omni)			
Elevation Beamwidth [°]	39°	20°	27°	24°
Electrical Downtilt [°]	0° (fixed)			
Polarization [°]	±45			
Impedance [Ω]	50			
VSWR	< 1.6:1			
Cross Polar Isolation [dB]	> 20			
Passive Intermodulation [2x43 dBm Carrier, dBc]	< -153	< -153	-	
Light protection	DC Ground			
Maximum Effective Power Per Port [W]	50			

MECHANICAL SPECIFICATIONS	
Antenna Dimensions: Length, Diameter [mm]	610 x 381 (24.0" x 15.0")
Weight (lbs/kg)	33.07 lbs / 15.0 kg
Connector Type	4.3-10 type Fmale
Connector Quantity	12
Wind load, Calculation (mph)	93.2
Windload, Frontal [N]	175.3 (34.5 lbf)
Windload, Lateral [N]	175.3 (34.5 lbf)
Maximum Wind Speed [km/h]	241 (150 mph)
Radome Material	Fiberglass, UV resistance
Radome Color	Light gray



Revised: 01/12/18_5GHz EIRP Adjusted

ace technologyA

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Web Site: www.acetechnology.co.kr

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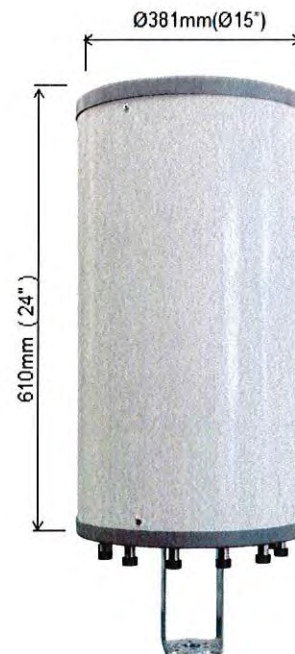
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ACOM-2F15D-12P-R2, 12-Port, Quasi-omni Outdoor Canister Antennas

LAYOUT OF INTERFACE
(BOTTOM VIEW)

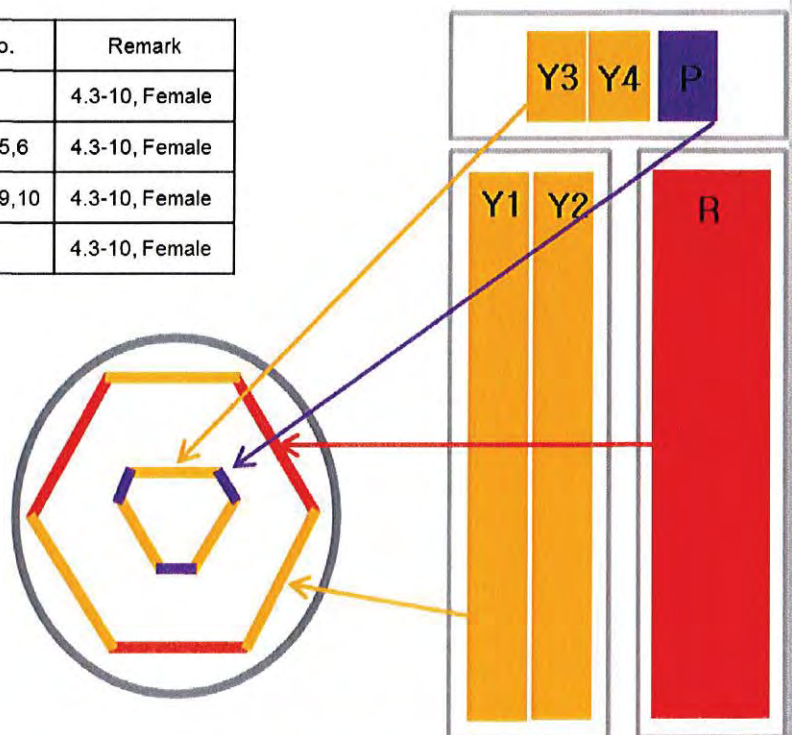


ANTENNA LAYOUT



CORRELATION TABLE

Color code	Column	Frequency	Connector No.	Remark
	R1	698~894 MHz	R1 : 1,2	4.3-10, Female
	Y1, Y2	1695~2400 MHz	Y1 : 3,4 / Y2 : 5,6	4.3-10, Female
	Y3, Y4	3550~3700 MHz	Y3 : 7,8 / Y4 : 9,10	4.3-10, Female
	P1	5150~5925 MHz	P1 : 11,12	4.3-10, Female



ace technologyA

E-mail : webmaster@acetechnology.co.kr
Web Site : www.acetechnology.co.kr

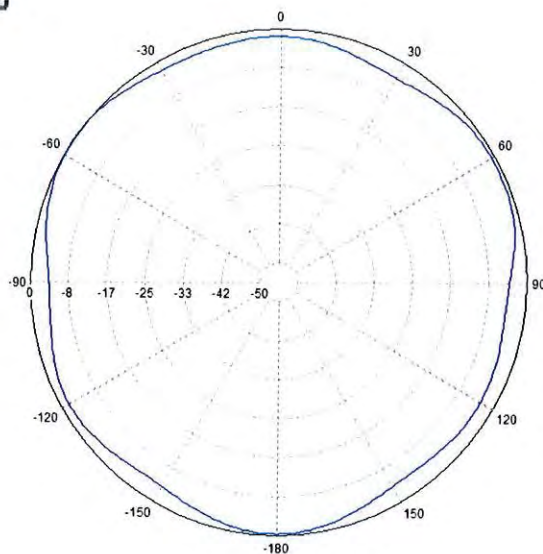
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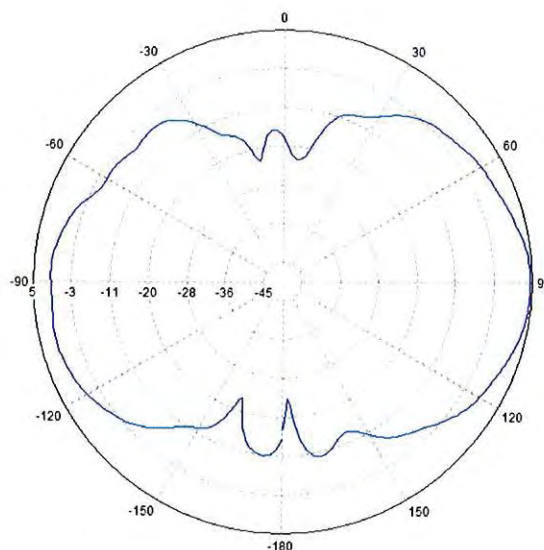
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ACOM-2F15D-12P-R2, 12-Port, Quasi-omni Outdoor Canister Antennas

800 M

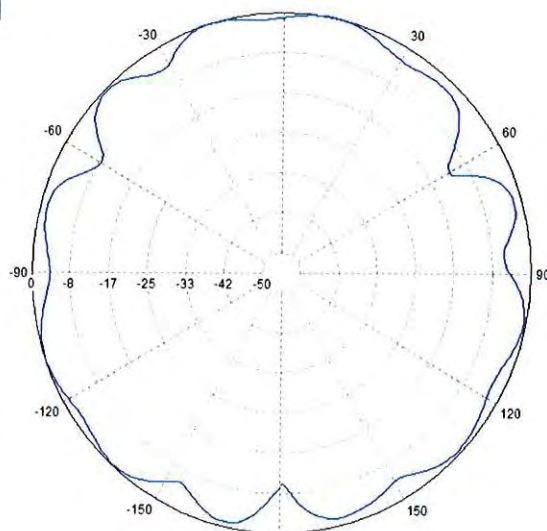


Horizontal pattern

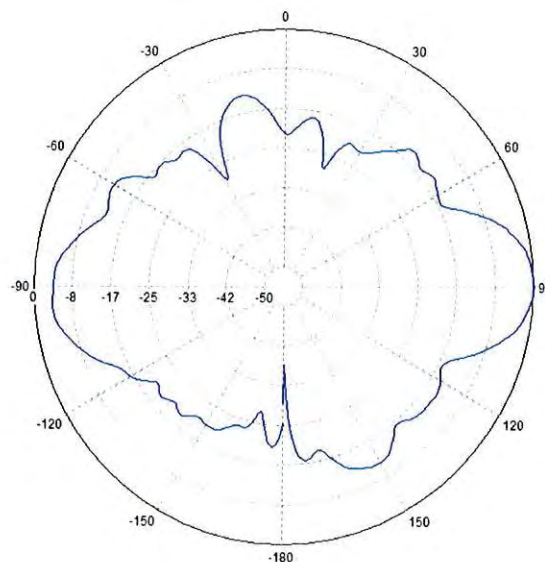


Vertical pattern

2000 M



Horizontal pattern



Vertical pattern

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Web Site: www.acetechnology.co.kr

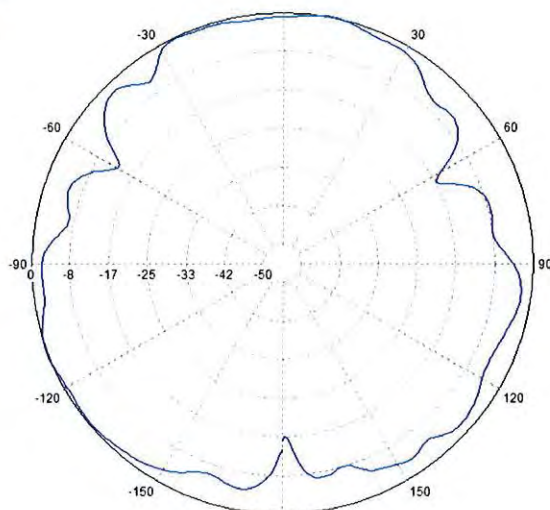
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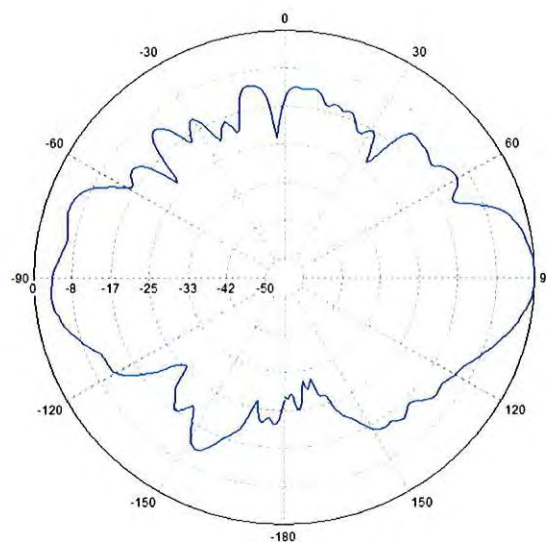
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ACOM-2F15D-12P-R2, 12-Port, Quasi-omni Outdoor Canister Antennas

3500 M

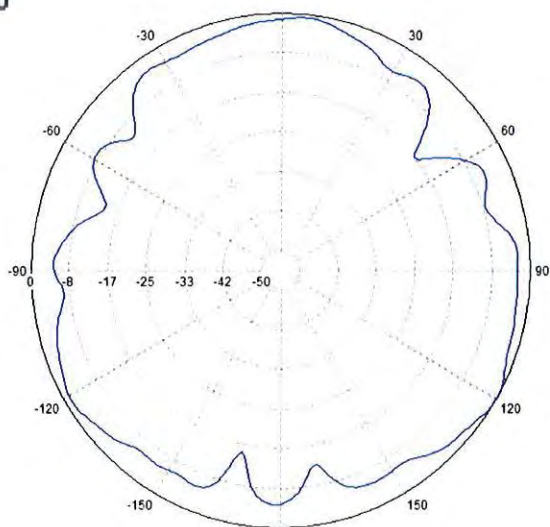


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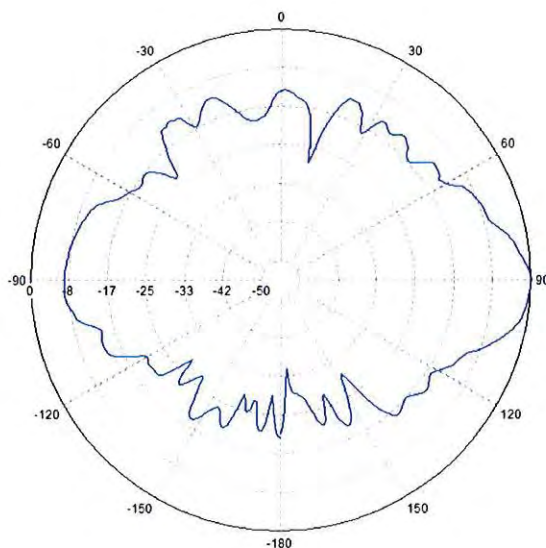


Vertical pattern

5500 M



Horizontal pattern



Vertical pattern

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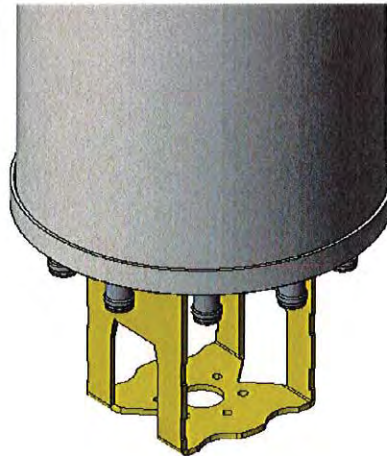
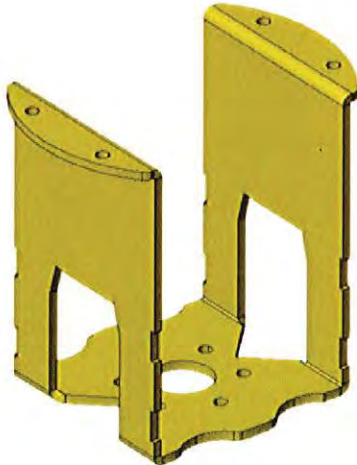
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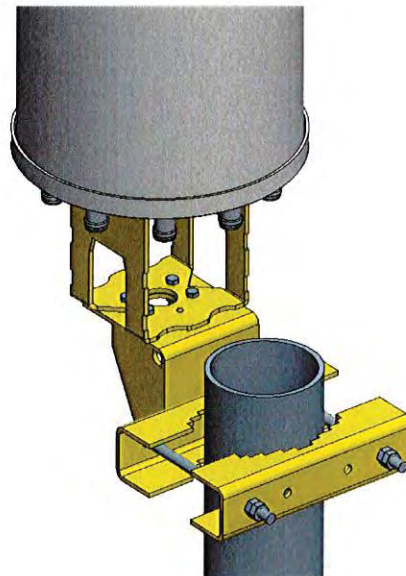
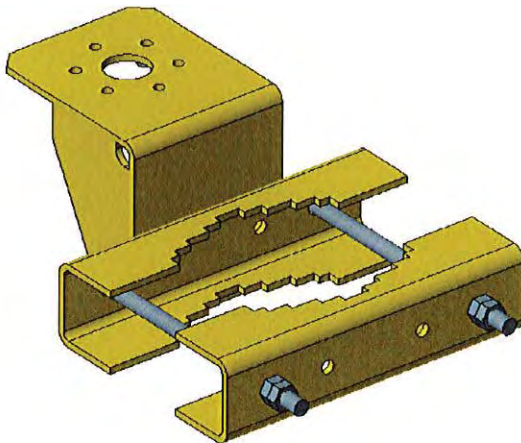
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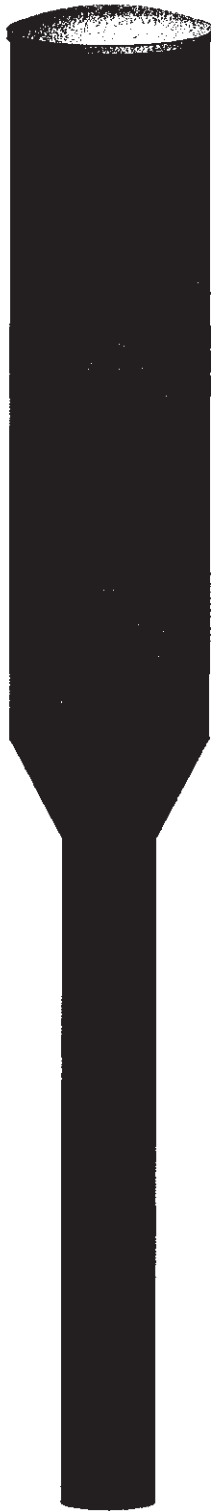
ACOM-2F15D-12P-R2, 12-Port, Quasi-omni Outdoor Canister Antennas

**Top of Pole Mounting [Type No. ACOM-MK-TOP]
(Bundle)**



**Offset of Pole Mounting Option [Type No. ACOM-MK-SIDE]
(Option)**





RADIO, ANTENNA AND ANCILLARY
EQUIPMENT CONFIGURATION

OVERALL VOLUME: 9.8 CU FT
ESTIMATED WEIGHT: 95 LBS

MULTIPLE COLOR OPTIONS
AVAILABLE TO MATCH EXISTING POLES

SUITABLE FOR ROUND OR SQUARE POLES

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SIZE
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DRAWING NO.

CI POLE TOP NODE

CAD FILE NAME
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SHEET

1 of 5

REV 07 28 99

COMPUTER GENERATED DRAWING

DO NOT SCALE DRAWING

VENTED ALUMINUM SHROUD
CAN BE REPLACED WITH
RF TRANSPARENT
VENTED RADIO COVER



ANTENNA RADOME COVER

TRANSITION SKIRT



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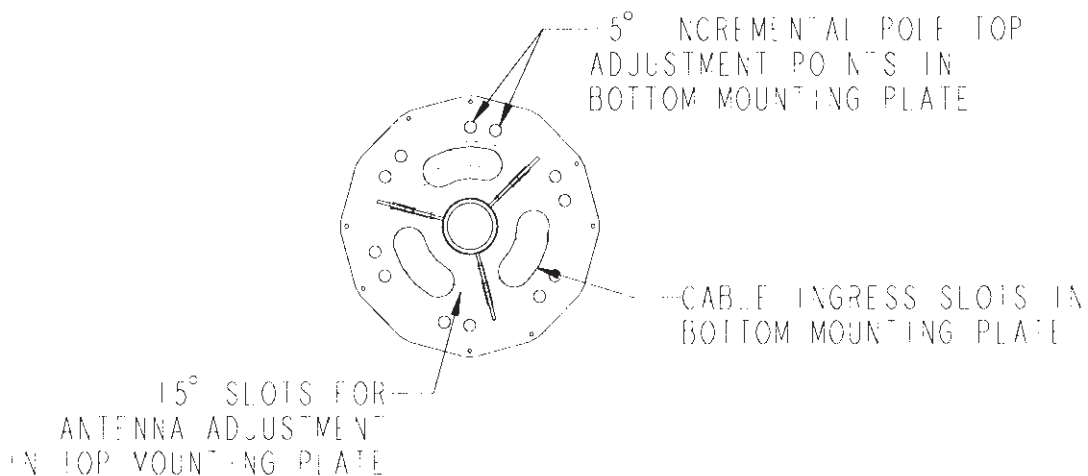
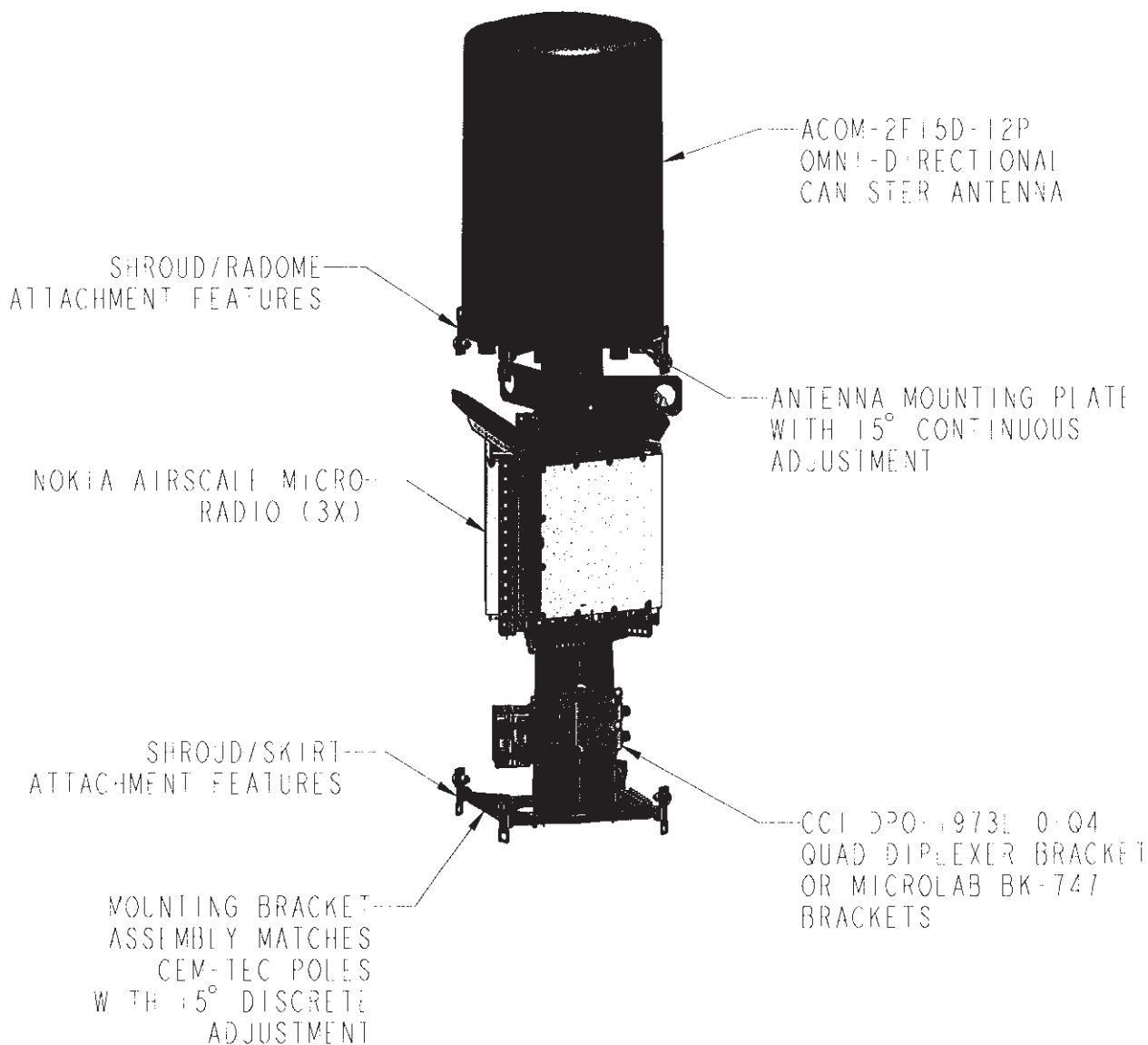
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2 of 5

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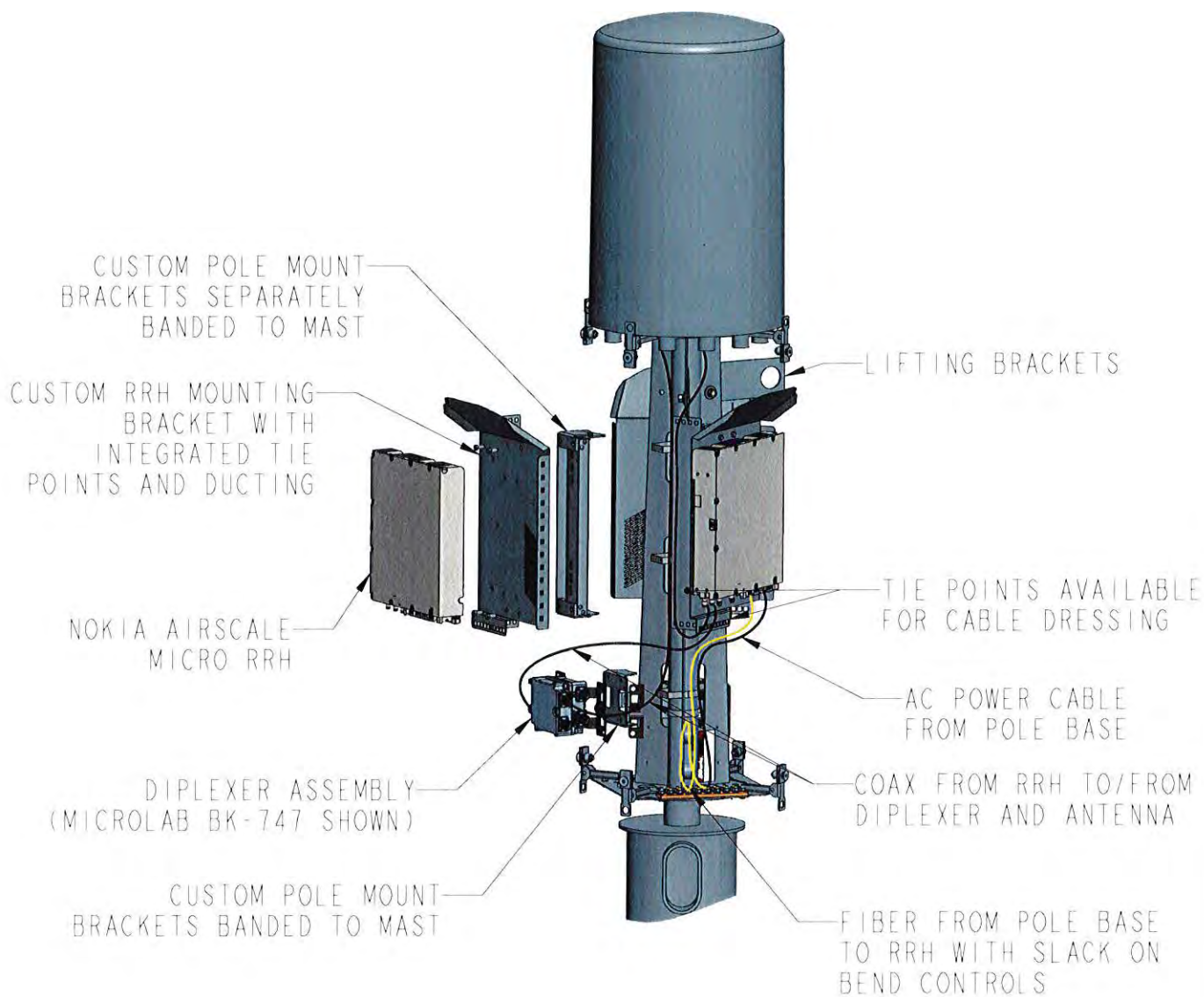


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SCALE 080	CAD FILE NAME CI POLE-TO-PO	SHEET 3 of 5

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SIZE
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DRAWING NO.
CI POLE-TOP NODE

ISS.
SJR
REV.
A

SCALE

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CAD FILE NAME

CI_POLE_TOP

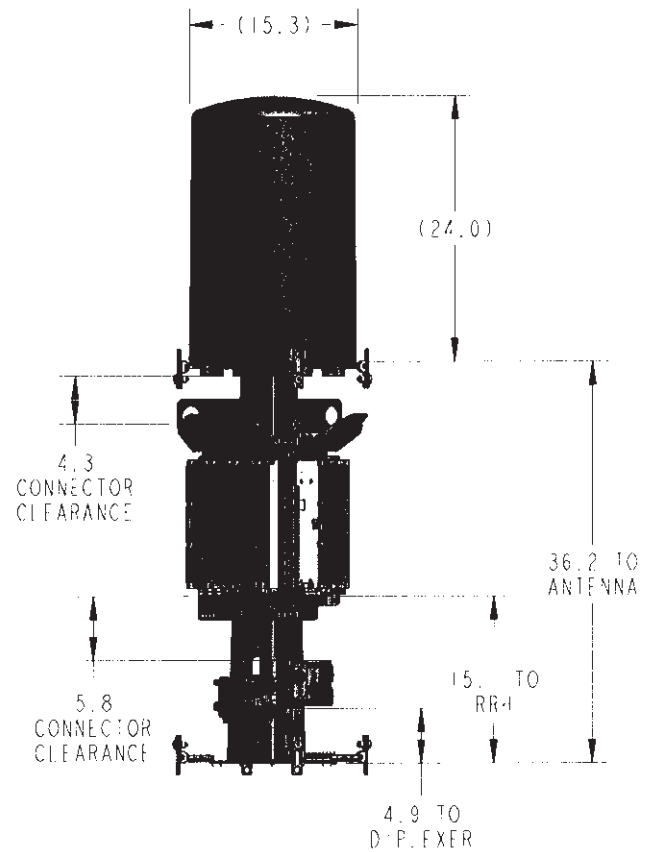
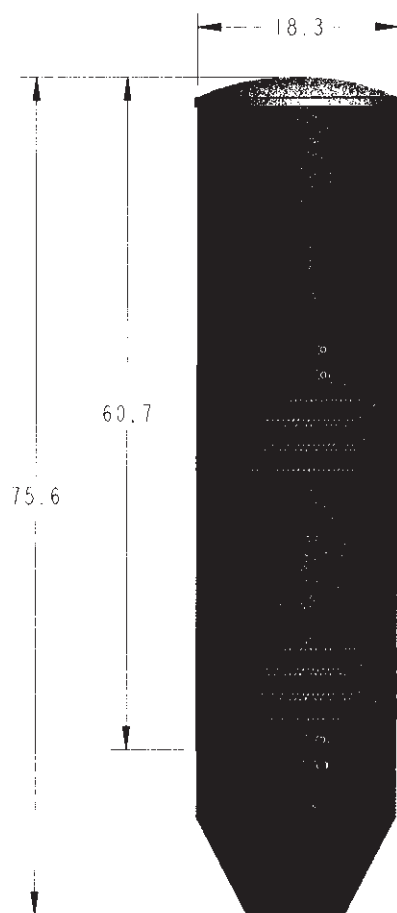
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SIZE
A
SCALE

DRAWING NO.
CI POLE-TOP NODE

CAD FILE NAME
CI POLE TOP

ISS.
SJR
REV.
A

SHEET

5 of 5

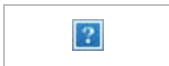
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To: [REDACTED]
Cc: [REDACTED]; gburton@paradisevalleyaz.gov
Subject: RE: Paradise Valley-APS Light Poles Used By AT&T / PHX01_008_A / PHX01_010_A
Date: Wednesday, April 8, 2020 2:14:31 PM
Attachments: [REDACTED]

Mike

APS has approved the use of APS owned St Lt poles for AT&T sites PHX01_008_A, 5303 N Scottsdale Rd. and PHX01_010_A, 5391 N Scottsdale Rd.

We are currently working from home. I'll try to get into the office by Friday to get the SLA's into my supervisors hands for signature. I should have these by next Friday, 4/17/2020, if not sooner.

David Carlton



PCS Construction Svc – Customer Project Representative Sr.

[REDACTED]

From: Michael O'Grady [REDACTED]
Sent: Wednesday, April 08, 2020 1:53 PM
To: Carlton II, David E [REDACTED]
Cc: Terese LoPresti [REDACTED]; George Burton
<gburton@paradisevalleyaz.gov>
Subject: Paradise Valley-APS Light Poles Used By AT&T / PHX01_008_A / PHX01_010_A

Dave,

As part of the AT&T building permit application, Paradise Valley is requesting authorization verification from APS for the two light poles that AT&T is planning on converting to small wireless facilities. Please confirm authorization for AT&T use of the light poles at the following locations:

PHX01_008_A ; Service address is 5303 N Scottsdale Road

PHX01_010_A ; Service address is 5391 N Scottsdale Road

The SLAs for both sites are currently with you for full execution.

Thank you,



Mike O'Grady | Real Estate Specialist
Smartlink
[REDACTED]