

**CITY OF TEMPE
DEVELOPMENT REVIEW COMMISSION**

**Meeting Date: 3/23/2021
Agenda Item: 6**

ACTION: Request a Use Permit to allow a new 100-foot tall multi-carrier wireless telecommunication facility (monopole) for CROWN CASTLE ADOT 101 & 202, located at 2130 East Rio Salado Parkway. The applicant is Campbell A&Z, LLC.

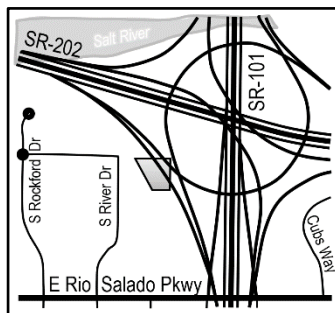
FISCAL IMPACT: N/A

RECOMMENDATION: Staff – Approve, subject to conditions

BACKGROUND INFORMATION: CROWN CASTLE ADOT 101 & 202 (PL210025) is proposing a new monopole wireless telecommunication facility on a parcel of land located southwest of the Loop 202 and 101 freeway interchange in the HID, Heavy Industrial District. The property is owned by the Arizona Department of Transportation (ADOT) and is accessible by access/utility easements through two (2) other ADOT owned parcels and a driveway located just west of the southbound SR-101 East Rio Salado Parkway freeway exit. The monopole will house three (3) carriers. T-Mobile will be the first carrier located at the top antenna array while the next two arrays will be reserved for future carriers. The project scope includes construction of an eight-foot (8'-0") high CMU open-air equipment enclosure that spans thirty feet (30'-0") by sixty feet (60'-0"), and a one-hundred-foot (100'-0") tall monopole with nine (9) antennas and six (6) radios at the ninety-six feet (96'-0") center of radiation. Future carriers are anticipated at the seventy-six feet (76'-0") and eighty-six feet (86'-0") centers of radiation. All cables will be run on the inside of the monopole.

The request includes the following:

ZUP210019 Use Permit to allow a 100-foot tall multi-carrier wireless telecommunication facility (monopole).



Property Owner	Arizona Department of Transportation
Applicant	Michael Campbell, Campbell A&Z, LLC
Zoning District	HID
Site Area	81,000 s.f.
Equipment Enclosure Area	1,800 s.f.
Lot Coverage	0% (no max. standard required)
Landscape Coverage	100% (10% min. required)
Monopole Height	100'-0" (no max. standard required)
Monopole Setbacks	270'-0" front, 38'-9" west side, 284'-8" east side, 33'-6" rear (0', 0', 0', 0' min. required)

ATTACHMENTS: Development Project File

STAFF CONTACT(S): Lee Jimenez, Senior Planner (480) 350-8486

Department Director: Shelly Seyler, Interim Community Development Director
 Legal review by: N/A
 Prepared by: Lee Jimenez, Senior Planner
 Reviewed by: Steve Abrahamson, Principal Planner

COMMENTS

CROWN CASTLE ADOT 101 & 202 (PL210025) is designed to replace an existing Crown Castle facility located on the Brock Property at 2150 East Rio Salado Parkway which is experiencing transmission signal blocking and shadowing from the newly constructed multi-stored Freedom Financial Buildings located to the west and northwest of the project site. A building-mounted rooftop facility was considered on the Freedom Financial buildings as well as a ground facility on the campus. The rooftop facility fell through due to issues with rooftop carrier equipment and the ground space did not pan out due to the timeframe of the availability for the location.

PUBLIC INPUT

As of the publishing of the staff summary report, staff has not received any public comment for this request.

USE PERMIT

The proposed use requires a Use Permit to allow a wireless telecommunications tower and related equipment facilities within the HID zoning district.

Section 6-308(E) Approval criteria for Use Permit (*in italics*):

1. *Any significant increase in vehicular or pedestrian traffic*; the proposed use is not expected to generate much traffic outside of construction and maintenance vehicles.
2. *Nuisance arising from the emission of odor, dust, gas, noise, vibration, smoke, heat or glare at a level exceeding that of ambient conditions*; the nature of the proposed use is not expected to generate emissions above ambient conditions. The monopole will be painted to not exceed the City's maximum light reflectance value of 75%.
3. *Contribution to the deterioration of the neighborhood or to the downgrading of property values, which is in conflict with the goals, objectives or policies for rehabilitation, redevelopment or conservation as set forth in the city's adopted plans or General Plan*; the proposed use will maintain network integrity and avoid coverage gaps while serving carrier customers and emergency service networks. Furthermore, the proposed use is not in conflict with the goals, objectives or policies of any City adopted plan.
4. *Compatibility with existing surrounding structures and uses*; the proposed use is located near a major freeway interchange and water course. The design height of the monopole will help alleviate service gaps caused by new mid-rise development to the west. Additionally, the monopole's ability to co-locate two (2) additional carriers will eliminate the need for single-carrier facilities located within the service area.
5. *Adequate control of disruptive behavior both inside and outside the premises which may create a nuisance to the surrounding area or general public*; the nature and remote location of the proposed use is not expected to create any disruptive behavior that may create a nuisance to the surrounding area.

REASONS FOR APPROVAL:

Based on the information provided by the applicant and the above analysis, staff supports the requested Use Permit. This request meets the required criteria and will conform to the conditions.

SHOULD AN AFFIRMATIVE ACTION BE TAKEN ON THIS REQUEST, THE FOLLOWING NUMBERED CONDITIONS OF APPROVAL SHALL APPLY, BUT MAY BE AMENDED BY THE DECISION-MAKING BODY.

CONDITION(S) OF APPROVAL: (Non-standard conditions are identified in bold)

EACH NUMBERED ITEM IS A CONDITION OF APPROVAL. THE DECISION-MAKING BODY MAY MODIFY, DELETE OR ADD TO THESE CONDITIONS.

1. The Use Permit is valid only after a Building Permit has been obtained, the required inspections have been completed and a Final Inspection has been passed. As part of the Building Permit process, on-site storm water retention may be required to be verified or accomplished on this Site.

2. The Use Permit is valid for the plans as submitted within this application. Any additions or modifications may be submitted for review during the building plan check process.
3. The maximum height of the monopole shall be no greater than one hundred feet (100'-0") from grade to the top of structure.
4. A weather resistant emergency contact information sign shall be posted on the site and shall be visible to the public.
5. **The equipment enclosure shall be constructed of masonry or concrete with a finish to not exceed a light reflectance value of 75%.**
6. **The monopole and equipment, with exception to remote radio heads or other sensitive equipment, shall be finished to not exceed a light reflectance value of 75%.**

CODE/ORDINANCE REQUIREMENTS:

THE BULLETED ITEMS REFER TO EXISTING CODE OR ORDINANCES THAT PLANNING STAFF OBSERVES ARE PERTINENT TO THIS CASE. THE BULLET ITEMS ARE INCLUDED TO ALERT THE DESIGN TEAM AND ASSIST IN OBTAINING A BUILDING PERMIT AND ARE NOT AN EXHAUSTIVE LIST.

USE PERMIT:

- The Use Permit is valid for Crown Castle ADOT 101 & 202 and may be transferable to successors in interest through an administrative review with the Community Development Director, or designee.
- The use permit approval shall be void if the use is not commenced or if an application for a building permit has not been submitted, whichever is applicable, within twelve (12) months after the use permit is granted or within the time stipulated by the decision-making body.
- The decision-making body, upon finding that the applicant has not taken corrective actions to resolve issues related to the permit/approval and that a continuation of the permit/approval is not in the interest of the public health, safety and general welfare, can revoke the permit/approval after providing written notice of its intentions to the holder of the permit.
- Specific requirements of the **Zoning and Development Code (ZDC)** are not listed as a condition of approval but will apply to any application. To avoid unnecessary review time and reduce the potential for multiple plan check submittals, become familiar with the ZDC. Access the ZDC through <http://www.tempe.gov/zoning> or purchase from Development Services.
- **SITE PLAN REVIEW:** Verify all comments by all departments on each Preliminary Site Plan Review. If questions arise related to specific comments, they should be directed to the appropriate department, and any necessary modifications coordinated with all concerned parties, prior to application for building permit. Construction Documents submitted to the Building Safety Division will be reviewed by planning staff to ensure consistency with this Design Review approval prior to issuance of building permits
- All business signs shall receive a Sign Permit. Contact sign staff at 480-350-8435.
- Any intensification or expansion of use shall require a new Use Permit.
- All required permits and clearances shall be obtained from the Audit and Licensing Division of the City of Tempe prior to the Use Permit becoming effective.

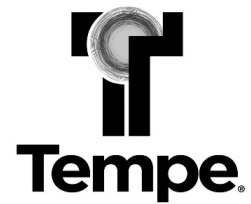
- All required Federal, State, County, and Municipal permits, licenses, and clearances shall be obtained, or the Use Permit is void.
- Wireless Telecommunication Facilities may be co-located, subject to administrative review only. Any addition to the existing height or changes in appearance of the tower to facilitate co-location may require a new use permit.
- The wireless device shall be removed within 30 days of discontinuance of use.

HISTORY & FACTS:

1997/1998	Maricopa County approved an 80' tall monopole which was later annexed into the City of Tempe in 1999. No other details were available in the City records.
June 6, 2000	Hearing Officer approved a Use Permit for VOICESTREAM/BROCK to allow the co-location of a new cellular antenna array at the 62' level on an existing 82'-6" high cellular tower located at 2150 East Rio Salado in the I-3, Heavy Industrial District. (BA000149)
February 7, 2001	Hearing Officer approved a Use Permit for CRICKET COMMUNICATIONS to allow the co-Location of a new antenna array at the 55' level of an existing 89' high monopole located at 2150 East Rio Salado in the I-3, Heavy Industrial District. (BA0100109)
July 15, 2003	Hearing Officer approved a Use Permit for T-MOBILE to add cellular antennas to the existing Sprint/Riverview Monopole located at 2150 East Rio Salado Parkway in the I-3, Heavy Industrial District. (BA030155)
January 15, 2008	Hearing Officer approved a Use Permit to allow the addition of antennas on an existing monopole located at 2150 East Rio Salado in the I-3, Heavy Industrial District. (PL070550)

ZONING AND DEVELOPMENT CODE REFERENCE:

Section 3-302 Permitted Uses in Office/Industrial Districts
 Section 3-421 Wireless Telecommunication Facilities
 Section 6-308 Use Permit



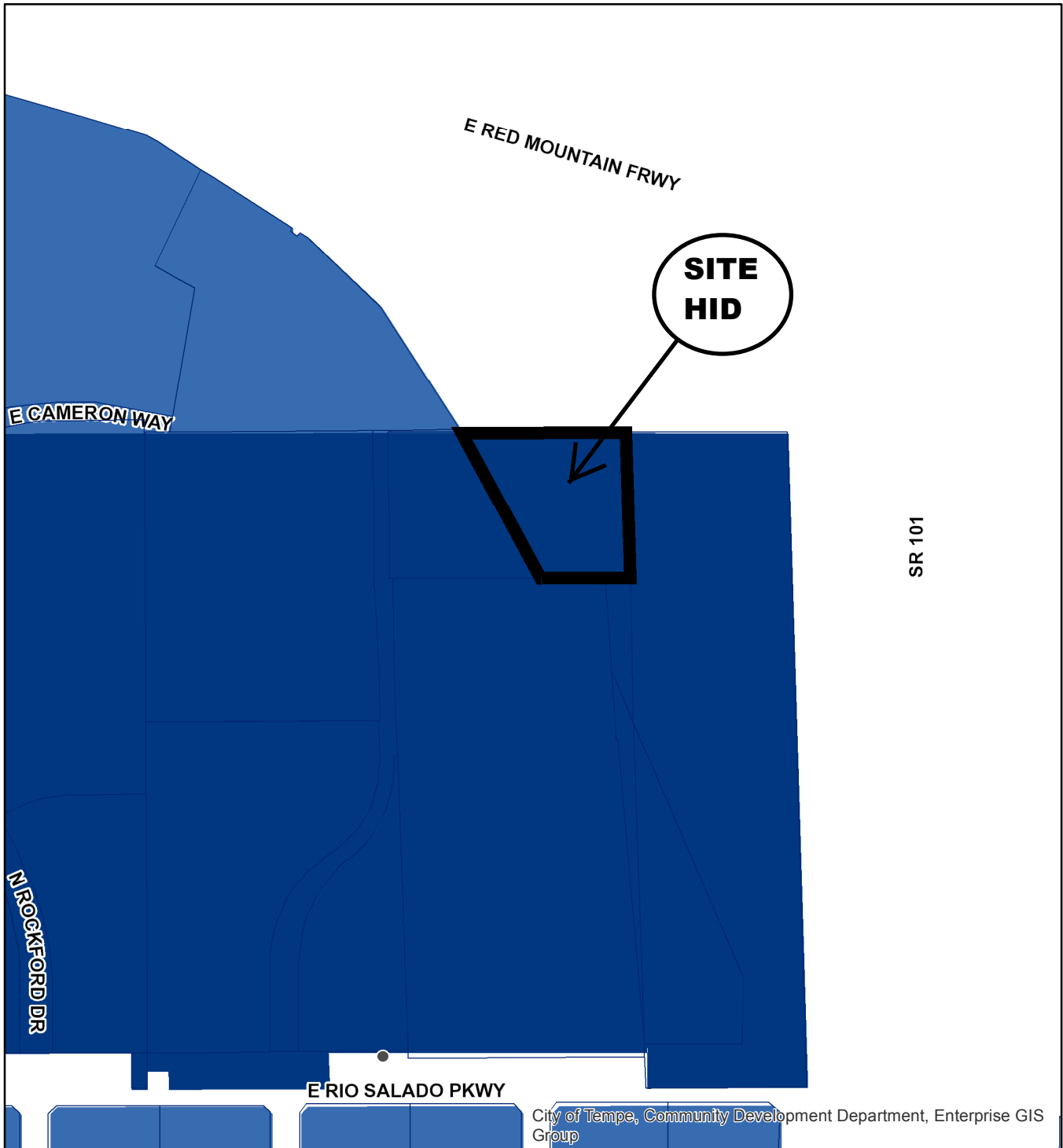
DEVELOPMENT PROJECT FILE
for
CROWN CASTLE ADOT 101 & 202
(PL210025)

ATTACHMENTS:



1. Location Map
2. Aerial
- 3-10. Letter of Explanation
- 11-20. Project Plans
- 21-25. Photo Simulations
- 26-42. City of Tempe Wireless Project Application and Responses
- 43-48. RF Analysis
- 49-52. Airspace Safety Analysis Compliance Report

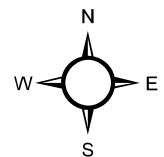
CROWN CASTLE ADOT 101 & 202

PL210025



City of Tempe, Community Development Department, Enterprise GIS Group

-  General Industrial District (GID)
-  Heavy Industrial District (HID)

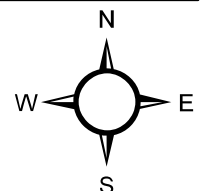


CROWN CASTLE ADOT 101 & 202

PL210025



Aerial Map



Use Permit Narrative

Submitted to the City of Tempe
Community Development Department
December 23, 2020
January 26, 2021, rvsd

1. GENERAL INFORMATION

Applicant: Michael J Campbell
Campbell A&Z, LLC
602-616-8396

Site Address: 2130 E Rio Salado Parkway

APN: 132-36-007K

Crown Castle Site: 831557 – ADOT Loop 101 & 202

Property Owner: Arizona Department of Transportation

Zoning Classification: HID

2. INTRODUCTION

Crown Castle, a wireless communications infrastructure company operating in the City of Tempe, AZ, owns and operates the wireless communications facility located at 2150 E Rio Salado Pkwy (“Existing Site”). The Existing Site accommodates multiple wireless service providers and has provided a co-location option for wireless communications coverage in the area for the last 23 years. The site was approved by the County and built in 1997/98.

Crown Castle has been part of the national community since 1994, possessing approximately 40,000 cell towers hosting approximately 91,000 carrier installations. Crown Castle’s extensive infrastructure including fiber and small cells as well as towers, serves as the backbone of the nation’s communication network. The Existing Site is a critical component of that network, providing continuity for the public interest, emergency 911-call services, and reliable long-term stability for wireless service in the community.

Crown invests heavily in the resources necessary to ensure quality, reliable wireless service for the area. In addition to its in-house legal team dedicated to addressing compliance matters, Crown also conducts annual safety inspections on all towers and employs a national operations center monitoring all critical systems 24 hours a day, 7 days a week, 365 days a year. In the event of an emergency, Crown is prepared with a national disaster recovery program on standby with the objective of maintaining wireless communications to the extent possible.

3. REQUEST

Crown Castle proposes to build a new 100' tall multi-carrier wireless communications facility monopole and equipment compound on excess ADOT land as a replacement site for the Crown site at 2150 E Rio Salado Pkwy.

The proposed Crown WCF will consist of the following:

- Installation of a new 100' multi-carrier monopole
- Installation of antenna arrays at the 96', 86' and possibly 76' level
- Construction of a new 1,800 sqft equipment compound to house the monopole and carrier equipment cabinets/shelters.
- All associated cables will be placed inside the monopole and not visible to the public.
- Installation of new electrical and telco service from the local service providers.
- Access to the WCF will be from the ADOT gates on the north side of Rio Salado Pkwy, then north over the existing gravel ADOT drive to the site.

4. PROJECT DESCRIPTION/HISTORY

The existing site currently houses T-Mobile and Sprint on an 80' monopole. The monopole was built and approved by Maricopa County in 1997/98. The site was annexed into the City of Tempe in 1999. Due to the annexation and clean up the former industrial parcels that boarder the south bank of the Salt River, the existing site has been a critical component in providing service along two major freeways. In addition, the densification of the area from Industrial parcels to retail, entertainment, office and residential has only increased demand on wireless services within this area.

Exhibit 1 (Existing Site)



The existing site has had unobstructed coverage for the past 20+ years. To the west of the existing site is the Rio 2100 project. This project has taken a portion of the former brownfield site east of Tempe Marketplace and has continued to march toward buildout while increasing the demand in wireless

services due to the densification of uses and population from retail, entertainment, employment or housing.

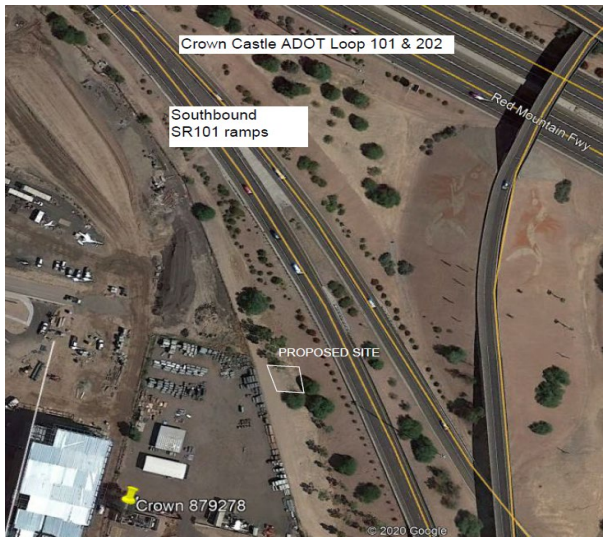
Exhibit 2 (Rio2100)



Phase V of Rio2100 was completed this year and is currently blocking the existing site carrier transmissions. Due to Phase V, the line of site from receiver location to transmitter without any obstacles or obstruction has been disrupted which has caused path loss. This effect happens when there is a large object such as Phase V “blurring” the main radio path between the receiver and the transmitter. This is known as shadowing. The tenants on this monopole have had their transmission signal impacted by the newly constructed 75’ tall office building (Phase V) to the west. In addition, the planned Phase III building at the northeast corner of the Freedom Financial campus will further limit their transmission signal to the north and create additional shadowing.

Due to the allowable building height in the HID district, Crown Castle is proposing to relocate the existing site approximately 350’ to the northeast of the existing tower. The proposed Crown WCF will be a replacement site for the existing 80’ monopole. If approved, the existing site will be decommissioned and removed once the new monopole is up and operational.

Exhibit 3 (Proposed Site)



5. ZONING

The Proposed Relocation Site is located on ADOT property, but partially within the HID zoning district in the City of Tempe. See zoning map below and the surrounding zoning and land use adjacent to the proposed relocation.

Exhibit 4 (Zoning)



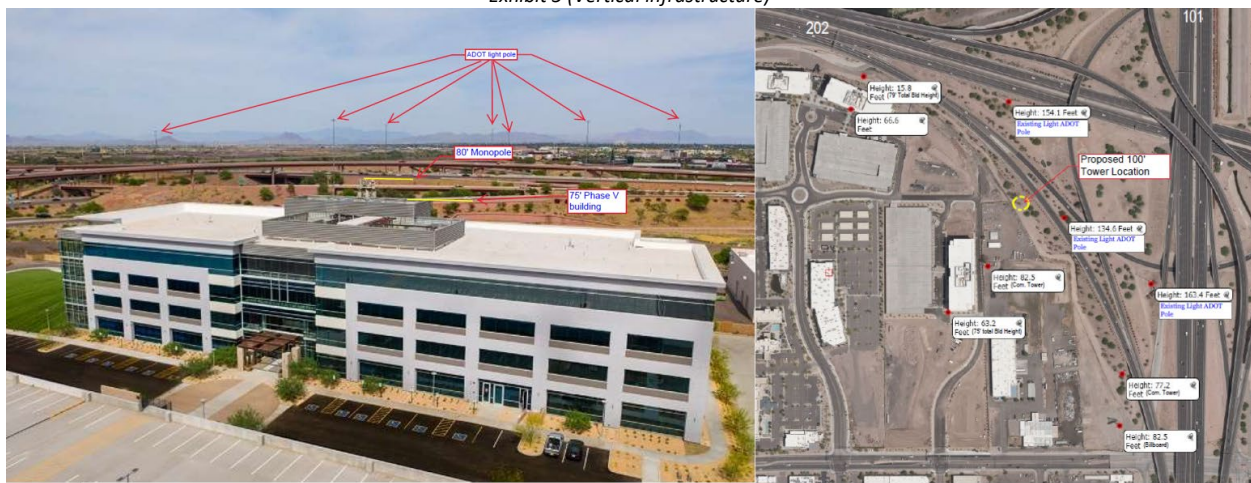
Direction	Existing Zoning	Existing Use
Site	HID	ADOT
North	RU-43, Unincorporated Maricopa County	Freeway

East	HID	Freeway
South	HID	Industrial
West	HID	Industrial

AREA

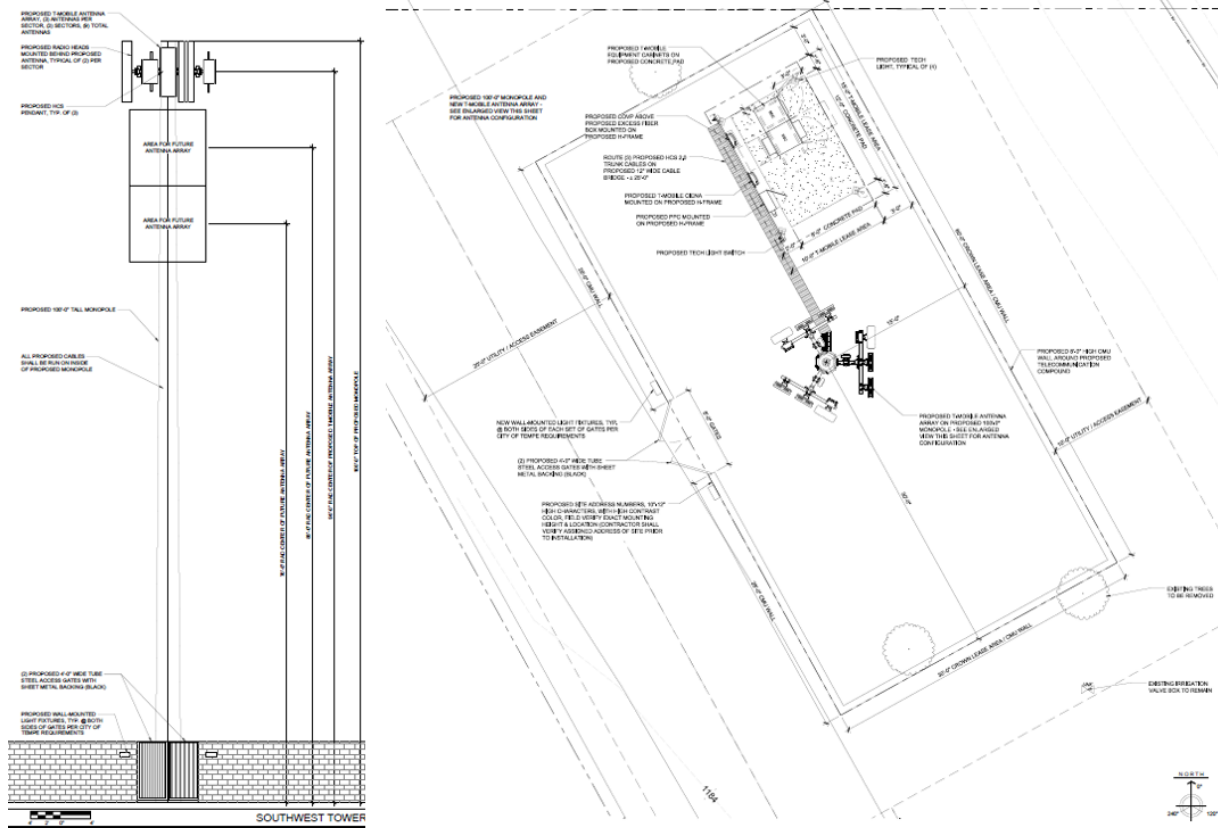
The location is highly congested with the freeway overpasses and very tall ADOT freeway light poles reaching 160'+ in the area. The closest ADOT light poles are 135' in height. Please see exhibit 5. While these poles are not viable co-locations for the carriers due to ADOT restrictions, they do minimize the visual impact of a new monopole in the vertically congested area.

Exhibit 5 (Vertical infrastructure)



The 100' monopole is necessary to preserve the coverage rights for the carriers on the existing monopole, to maintain their network integrity and avoid coverage gaps, while serving their respective customers and emergency service networks. The placement of the new monopole is strategic as it allows a clear transmission west through developing office building campus without signal blockage from the new office buildings. The visual impact of the 100' monopole will be minimal as the most visible view of the monopole will be from commuters on SR202 and SR101 as they pass through the area. The structures and equipment area will follow the city building codes.

Exhibit 6 (Proposed tower and Equipment Site Plan)



8. ANALYSIS OF FEDERAL LAW

1. Federal Telecommunications Act of 1996

In addition to local and state law, this application is governed by the Federal Communications Act, 47 U.S.C. § 332(c)(7)(B). In the Telecommunications Act of 1996, Pub. L. No 104-104, 110 Stat. 56 (“Telecom Act”) Congress added Section 332(c)(7)(B), which provides rights to wireless service providers and establishes limitations upon state and local zoning authorities with respect to applications for permits to construct wireless service facilities. The express purpose of the Act is “to promote competition and reduce regulation in order to secure lower prices and higher quality services for American telecommunications consumers.” Pub. L. No. 104-104, 110 Stat. 56, 56 (1996); see also *City of Rancho Palos Verdes v. Abrams*, 544 U.S. 113, 115 (2005). It also is intended to “encourage the rapid deployment of new telecommunications technologies.” *Id.*; see also H.R. Conf. Rep. No. 104-458, at 113 (1996) (purpose of the 1996 Act is “to provide for a pro-competitive, deregulatory national policy framework designed to accelerate rapidly private sector deployment of advanced telecommunications and information technologies and services . . . by opening all telecommunications markets to competition”).

Recognizing that wireless service can bring enormous benefits to communities and can boost jobs and economic productivity, this important law and subsequent regulations applicable to wireless facilities were enacted to remove impediments to and promote the rapid deployment of wireless technology on a national basis.

The applicable limitations and directives include the following:

- (a) State and local governments may not unreasonably discriminate among providers of functionally equivalent services (§332(c)(7)(B)(i)(I)).
- (b) State and local governments may not regulate the placement, construction or modification of wireless service facilities in a manner that prohibits, or has the effect of prohibiting, the provision of personal wireless services (better known as the “effective prohibition clause”) (§332(c)(7)(B)(i)(II)).
- (c) State and local governments must act on requests for authorization to construct or modify wireless service facilities within a reasonable period of time (§332(c)(7)(B)(ii)).
- (d) Any decision by a state or local government to deny a request for construction or modification of personal wireless service facilities must be in writing and supported by substantial evidence contained in a written record (§332(c)(7)(B)(iii)).
- (e) Finally, no state or local government or instrumentality thereof may regulate the placement, construction or modification of personal wireless service facilities on the basis of the perceived environmental effects of radio frequency emissions to the extent that such facilities comply with federal communications commission’s regulations concerning such emissions (§332(c)(7)(B)(iv)). See Proof of FCC Compliance attached as Exhibit 1.

Rapid deployment of wireless facilities is an important national issue, especially given the trend of Americans eliminating traditional landline service in favor of wireless communications. The Center for Disease Control and Prevention (“CDC”) tracks “wireless substitution” rates as part of its National Health Interview Survey and publishes the findings every six months in its Wireless Substitution reports. The most recent report, issued in December of 2019, estimates that more than one-half (57%) of American homes have only wireless phones.

Reliable and robust wireless communication is essential, especially considering over half of Americans and Arizonans do not have a landline and rely on wireless service to conduct personal and business communications, to access the internet or to reach emergency responders. Ensuring access in the event of an emergency is critical, be it communications between emergency service personnel or for people calling for help.

9. CONCLUSION

On behalf of Crown Castle, I respectfully submit this Use Permit Project Narrative and Site Plan for review and comments.

Please contact me at 602-616-8396, or via email at campbellaz1@earthlink.net if you have any questions or need additional information.

Sincerely,

Michael J Campbell

Michael J Campbell
Campbell A&Z, LLC
602-616-8396



Call Toll Free
1-800-782-5348
 2 Working Days Before You Dig
 ARIZONA BLUE STAKE, INC.



T-MOBILE / CROWN SITE #: PH40238A / 831557
T-MOBILE / CROWN SITE NAME: ADOT LOOP 101 & 202
CITY: TEMPE
STATE: AZ
COUNTY: MARICOPA
DESIGN TYPE: MONOPOLE

PROJECT INFORMATION

ADDRESS

2130 E. RIO SALADO PARKWAY
 TEMPE, AZ 85281

COORDINATES

LAT.: 33° 25' 58.58" N (33.432939°) NAD 83
 LONG.: 111° 53' 38.06" W (-111.893906°) NAD 83
 ELEVATION: 2300.0' A.M.S.L. (NAVD 88)

PROPERTY OWNER

AZ DEPT. OF TRANSPORTATION
 205 S. 17TH AVE
 PHOENIX, AZ 85007
 TIM MAHONEY - 602-712-8811

JURISDICTION

CITY OF TEMPE

LAND DESCRIPTION OF SUBJECT PARCEL

ZONING: HID
 APN#: 132-36-007K

CURRENT USE: VACANT LAND
 NEW USE: VACANT LAND / UNMANNED WIRELESS TELECOMMUNICATIONS FACILITY

GROSS AREA: 80,896.58 SQUARE FEET
 NET LEASE AREA: 1,800 SQUARE FEET

PROJECT DESCRIPTION

INSTALLATION OF NEW 8'-0" CMU WALL. INSTALLATION OF NEW T-MOBILE ANTENNA ARRAY ON PROPOSED 100' TALL MONOPOLE. INSTALLATION OF (9) ANTENNAS AND (6) RADIOS. INSTALLATION OF T-MOBILE EQUIPMENT CABINETS ON PROPOSED CONCRETE PAD INSIDE PROPOSED CMU COMPOUND. INSTALLATION OF PROPOSED PPC CABINET. INSTALLATION OF (3) HYBRID CABLES. INSTALLATION OF PROPOSED ELECTRICAL SERVICE.

CODE COMPLIANCE

2018 IBC
 2017 NEC

100' MONOPOLE SETBACK

NORTH: 33'-6"
 EAST: 284'-8"
 SOUTH: 80'-4"
 WEST: 38'-9"

CONSULTING TEAM

APPLICANT

CONTACT: MICHAEL CAMPBELL
 PHONE: (602) 616-8396
 EMAIL: CAMPBELLAZ1@EARTHLINK.NET

CROWN CASTLE PROJECT TEAM

ZONING MANAGER: HEATH REED
 PHONE: (480) 734-2431
 EMAIL: HEATH.REED@CROWNCastle.COM

SITE ACQUISITION MANAGER: RICHARD STANNARD
 PHONE: (480) 735-6954
 EMAIL: RICHARD.STANNARD@CROWNCastle.COM

CONSTRUCTION MANAGER: JUSTIN KLEIN
 PHONE: (480) 231-4402
 EMAIL: JUSTIN.KLEIN@CROWNCastle.COM

ARCHITECT

YOUNG DESIGN CORP.
 10245 E. VIA LINDA #211
 SCOTTSDALE, AZ, 85258
 CONTACT: JOHN SULTZBACH
 PHONE: (480) 451-9609

INDEX OF DRAWINGS		
NUMBER	NAME OF SHEET	REV.
T-1	TITLE SHEET	0
	SURVEY PACKAGE	0
A-1	OVERALL SITE PLAN	0
A-2	NEW ENLARGED COMPOUND PLAN	0
A-3	NEW ELEVATIONS	0

VICINITY MAP



DRIVING DIRECTIONS

TAKE SOUTHERN AVENUE EAST TO LOOP 101 NORTH. TAKE 101 NORTH TO RIO SALADO PARKWAY. TURN LEFT ONTO RIO SALADO PARKWAY. TURN RIGHT IMMEDIATELY AFTER PASSING UNDER FREEWAY. PROCEED NORTH ON DIRT ROAD TO SITE.

PLANS PREPARED FOR:

T-Mobile
 2925 S. PLAZA DR, #400, TEMPE, ARIZONA, 85282
 PHONE: (480) 638-2000 FAX: (480) 638-2852

CONSULTANT:

CROWN CASTLE
 2955 S. STEARMAN DRIVE
 CHANDLER, AZ 85226
 OFFICE: (602) 946-1722

PROJECT INFORMATION:

ADOT LOOP 101 & 202
 PH40238A
 2130 E. RIO SALADO PARKWAY
 TEMPE AZ 85281
 MARICOPA COUNTY

CURRENT ISSUE DATE:

1/22/21

ISSUED FOR:

REVIEW

REV.	DATE	DESCRIPTION	BY:
	11/13/20	ISSUED FOR REVIEW	JRS
	11/23/20	ISSUED FOR REVIEW	JRS
	1/22/21	ISSUED FOR REVIEW	JRS

DRAWN BY: CHK. APV:

JRS MAY RCY

PLANS PREPARED BY:

young design corp
 architecture / project management
 10245 E. Via Linda, Scottsdale, AZ 85258
 ph: 480 451 9609 fax: 480 451 9608

LICENSURE:

PRELIMINARY FOR REVIEW ONLY

SHEET TITLE:

TITLE SHEET

SHEET NUMBER: T-1 REVISION: C

YDC-9946

RAWLAND SURVEY

831557

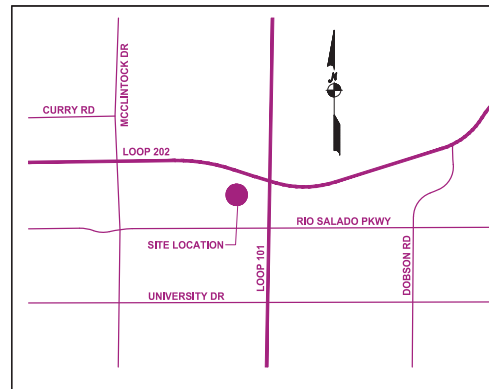
ADOT LOOP 101 & 202

SW CORNER OF LOOP 101 & LOOP 202
TEMPE, AZ 85281
MARICOPA COUNTY

LEGEND

Additional Land Building	Center of Tower IP / Rebar	Transformer (Aerial)
Asphalt Pavement	Monu - Found	Transformer Pad
Contour - Major	Cased Monu - Found	Catch Basin
Contour - Minor	Traverse Point	Inlet
Easement	Survey Point	Culvert
Guidesail	Gravel	Utility Vault
Jurisdiction Line	Dirt	Manhole
Property Line	Concrete	Handhole
Property Tie	Retaining Wall	Pull box
Parent Property	Stairs	Pedestal
Tower Easement	Door / Gate	Riser
Right of Way	Double Door / Gate	Meter
Setback	Gate - Sliding	Valve
Treeline	Signs	Cleanout
Wetland	Mailbox	Pump Station
Railroad Tracks	Column	Utility Box
Centerline	Utility Pole	Controller
Road Centerline	Guyed Pole	HVAC
Stream	Pole	Generator
Stream (Directional)	Bollard	
Ditch	Fire Hydrant	
Channel	Flag Pole	
Fence	Shrub	
Cable UG	Tree - Palm	
Combined Sewer	Tree - Coniferous	
Cable TV & Elec	Tree - Deciduous	
Cable TV & Elec UG	Metal Platform	
Cable, Elec, & Tele	Fuel Tanks	
Cable, Elec, & Tele UG	Traffic Signal Controller	
Electric		
Electric UG		
Fiber		
Fiber UG		
Gas		
Sewer		
Storm		
Telephone		
Telephone UG		
Unknown Utility		
Water		
Topo - High Point		
Topo - Low Point		
Breakline		
Match line		
Property Tie		

VICINITY MAP



AREA SUMMARY

AREA	SQ. FT.	ACRES
PARENT PARCEL	80,897	1.857
EXISTING LEASE AREA	1,800	0.041
20' ACCESS AND UTILITY EASEMENT	29,987	0.688
10' ACCESS & UTILITY EASEMENT	1,982	0.046

CONTENTS

COVER SHEET
PROPERTY OVERVIEW
EASEMENT OVERVIEW
SITE OVERVIEW
SITE OVERVIEW DETAIL (INTERNAL USE)
LEGAL DESCRIPTIONS

UTILITY NOTE

1. Surveyor does not guarantee that all utilities are shown or their locations are definite. It is the responsibility of the contractor and developer to contact any involved agencies to locate all utilities prior to construction, removal, relocation and/or replacement is the responsibility of the contractor.

(USE ONE OF THE BELOW WHEN WE HAVE LOCATE) any underground utilities located and shown hereon were not contacted through ambit consulting.

any underground utilities located and shown hereon were performed by (811, insert company name, or both).

SURVEY PROCEDURES & EQUIPMENT

The Accuracy Of This Survey Meets Or Exceeds The Minimum Standards As Required By the State of Arizona.

Instruments Used:
Leica Global Positioning System
Leica Total Station

COORDINATES

LABEL	LAT, LONG
MON #1 / POC	33°25'45.48", -111°53'30.35"
MON #2	33°25'45.43", -111°54'01.59"
POB	33°25'58.91", -111°53'38.08"
CENTER OF TOWER	33°25'58.58", -111°53'38.06"

ABBREVIATIONS

POC	POINT OF COMMENCEMENT
POB	POINT OF BEGINNING
ROW	RIGHT OF WAY
NFNS	NOTHING FOUND, NOTHING SET

SURVEY PERFORMED FOR:



1500 Corporate Drive
Canonsburg, PA 15317

SURVEY COORDINATED BY:

AMBIT CONSULTING
410 E. Southern Ave, Tempe, AZ 85282
Tele: (480) 659-4072

SURVEY PERFORMED BY:

AMBIT CONSULTING
410 E. Southern Ave, Tempe, AZ 85282
Tele: (480) 659-4072

DRAWN BY: DRH | CHK BY: NS | JOB NO: 831557

SURVEYOR'S CERTIFICATION:

I hereby certify to Crown Castle and Old Republic Title Insurance Co., that this map was made under my direction as a licensed surveyor in the State of Arizona, field effort was performed October of 2020.



Sarah A. Burgi

LEASE AREA ZONING:

HD

LEASE AREA FLOOD NOTE:

THIS PROJECT APPEARS TO BE LOCATED WITHIN FLOOD ZONE "X" ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S), MAP ID #04013C2245L, DATED 10/15/2015.

BEARING BASIS:

BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM ARIZONA STATE PLANE CENTRAL COORDINATE ZONE, DETERMINED BY GPS OBSERVATIONS.

NOTES:

1. SURVEY PERFORMED ON 10/29/2020.
2. DATA PROJECTED IN ARIZONA STATE PLANE CENTRAL COORDINATE SYSTEM, WITH NAVD83 VERTICAL DATUM.
3. NO SUBSURFACE INVESTIGATION WAS PERFORMED TO LOCATE UNDERGROUND UTILITIES. UTILITIES SHOWN HEREON ARE LIMITED TO AND ARE PER OBSERVED EVIDENCE ONLY.
4. ALL VISIBLE TOWER EQUIPMENT AND IMPROVEMENTS ARE CONTAINED WITHIN THE DESCRIBED AREA, UNLESS OTHERWISE NOTED HEREON.
5. NOT ALL SYMBOLS ARE DEPICTED TO SCALE.
6. THIS SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL.

REV	DATE	DESCRIPTION	DRWN
0	11/9/20	PRELIMINARY	DH
1	11/13/20	LEGALS	CK

SITE INFORMATION:

Name	ADOT LOOP 101 & 202
BUN	831557
Address	SW COR OF LOOP 101 & LOOP 202 TEMPE, AZ 85281
County	MARICOPA COUNTY

SITE LOCATED IN:
Section 13, Township 1 North, Range 4 East

RAWLAND

SHEET: COVER SHEET

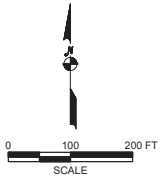
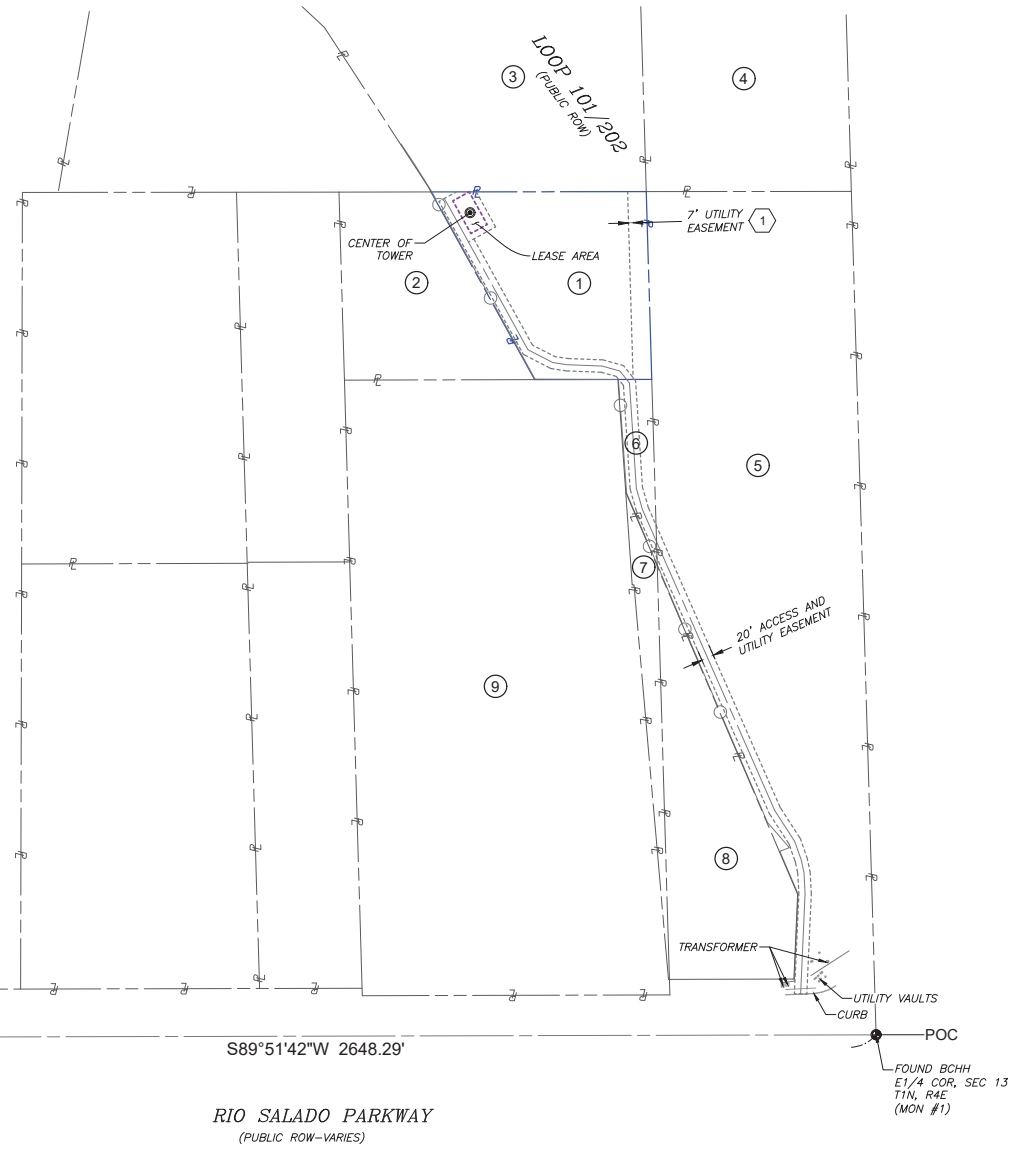
PROPERTY INFORMATION

PARENT PARCEL

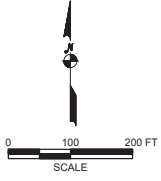
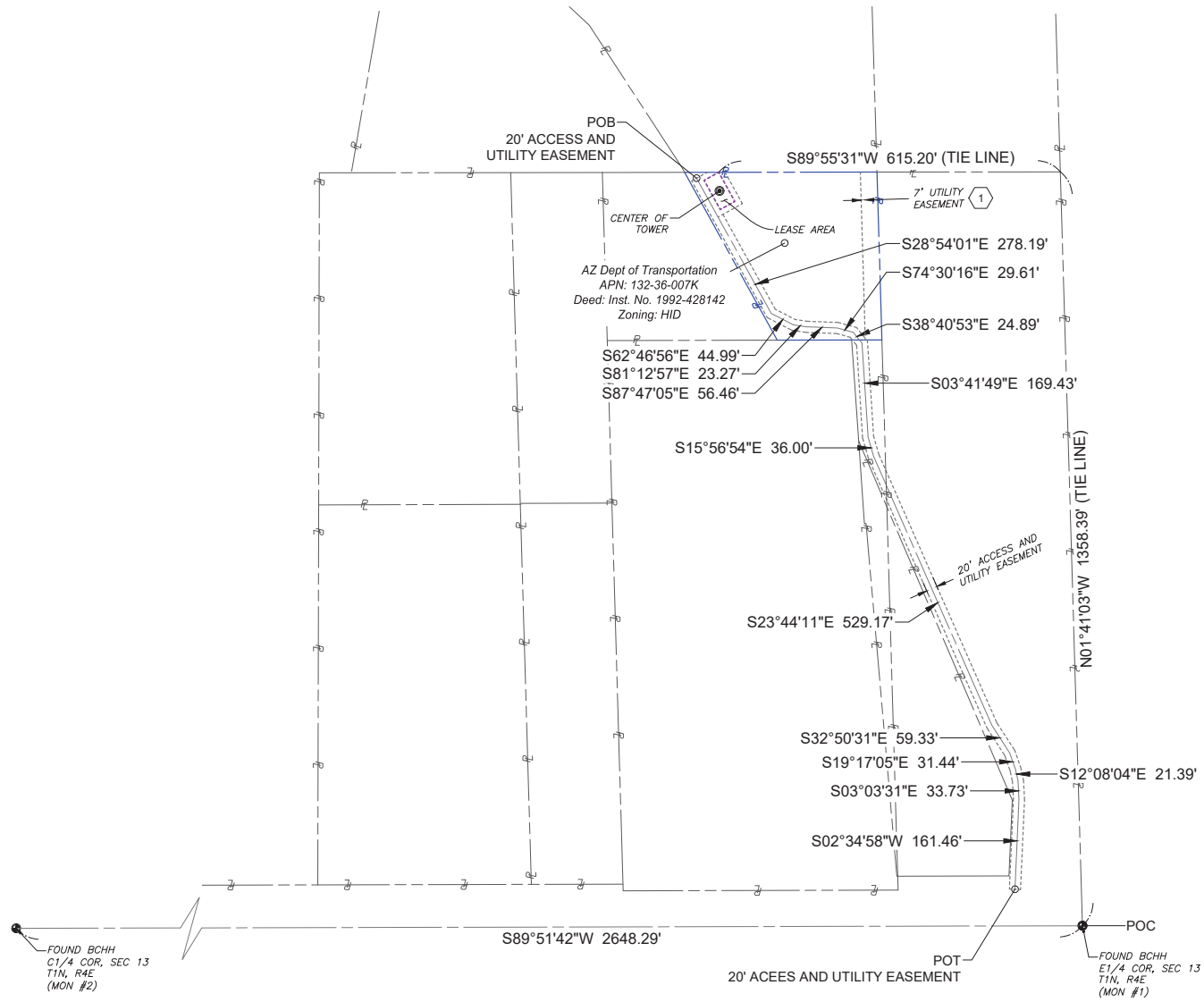
① Arizona Dept of Transportation
 APN: 132-36-007K
 Deed: Inst. No. 1992-428142
 Address:
 SW corner of Loop 101 & Loop 202
 Tempe, AZ 85281

ADJACENT PARCELS

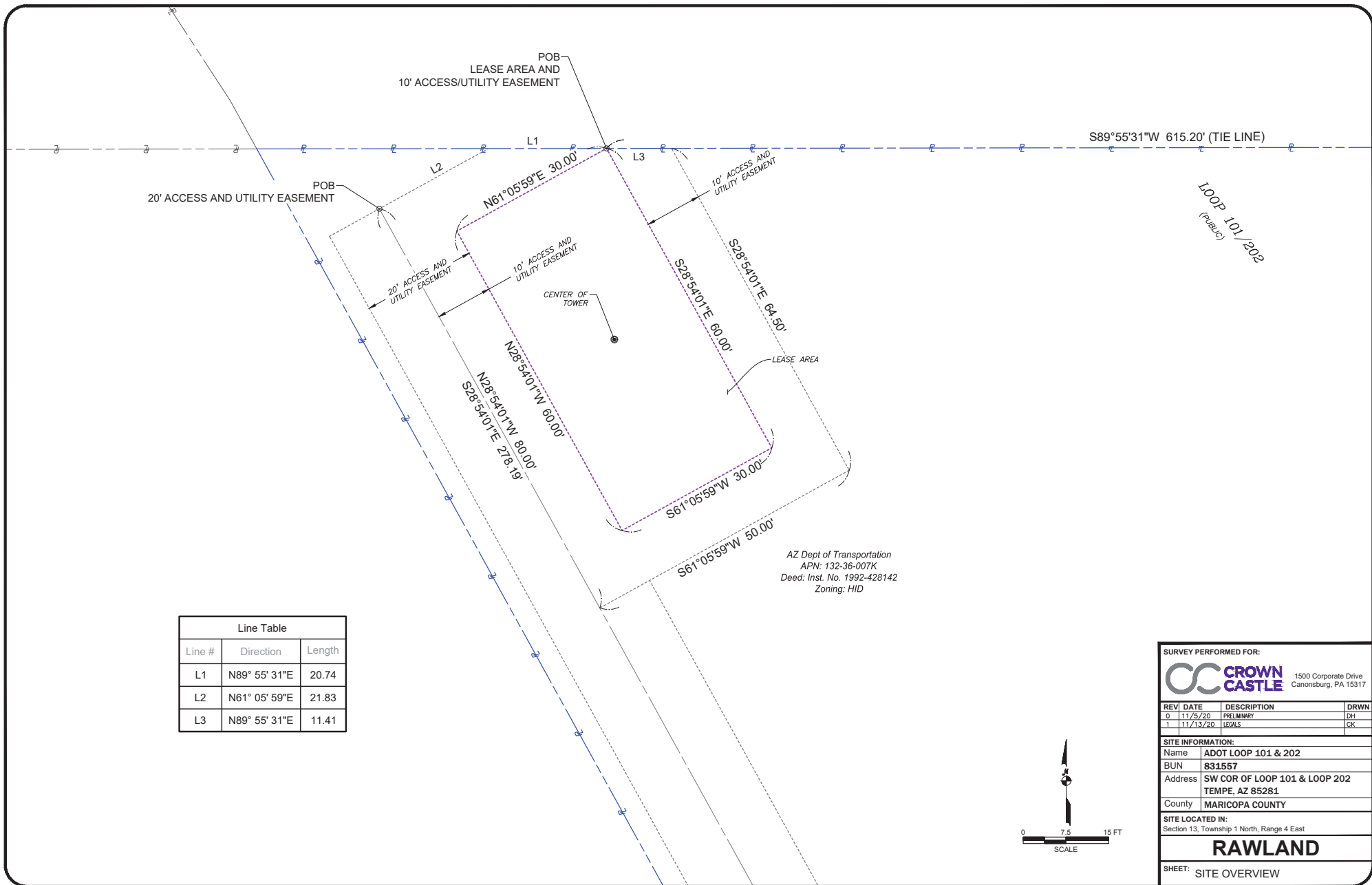
- ② Brock Properties II, LLC
 APN: 132-36-007Q
- ③ Arizona Dept of Transportation
 APN: 132-36-008J
- ④ Arizona Dept of Transportation
 APN: 132-36-008A
- ⑤ Arizona Dept of Transportation
 APN: 132-36-009C
- ⑥ Arizona Dept of Transportation
 APN: 132-36-007M
- ⑦ Brock Properties II, LLC
 APN: 132-36-007P
- ⑧ Brock Properties II, LLC
 APN: 132-36-009D
- ⑨ Brock Family Partnership
 APN: 132-36-010



SURVEY PERFORMED FOR:			
		1500 Corporate Drive Canonsburg, PA 15317	
REV	DATE	DESCRIPTION	DRWN
0	11/5/20	PRELIMINARY	DH
1	11/13/20	LEGALS	CK
SITE INFORMATION:			
Name	ADOT LOOP 101 & 202		
BUN	831557		
Address	SW COR OF LOOP 101 & LOOP 202 TEMPE, AZ 85281		
County	MARICOPA COUNTY		
SITE LOCATED IN: Section 13, Township 1 North, Range 4 East			
RAWLAND			
SHEET: PROPERTY OVERVIEW			

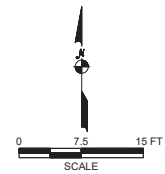


SURVEY PERFORMED FOR:			
		1500 Corporate Drive Canonsburg, PA 15317	
REV	DATE	DESCRIPTION	DRWN
0	11/5/20	PRELIMINARY	DH
1	11/13/20	LEGALS	CK
SITE INFORMATION:			
Name	ADOT LOOP 101 & 202		
BUN	831557		
Address	SW COR OF LOOP 101 & LOOP 202 TEMPE, AZ 85281		
County	MARICOPA COUNTY		
SITE LOCATED IN:			
Section 13, Township 1 North, Range 4 East			
RAWLAND			
SHEET: EASEMENT ACCESS OVERVIEW			

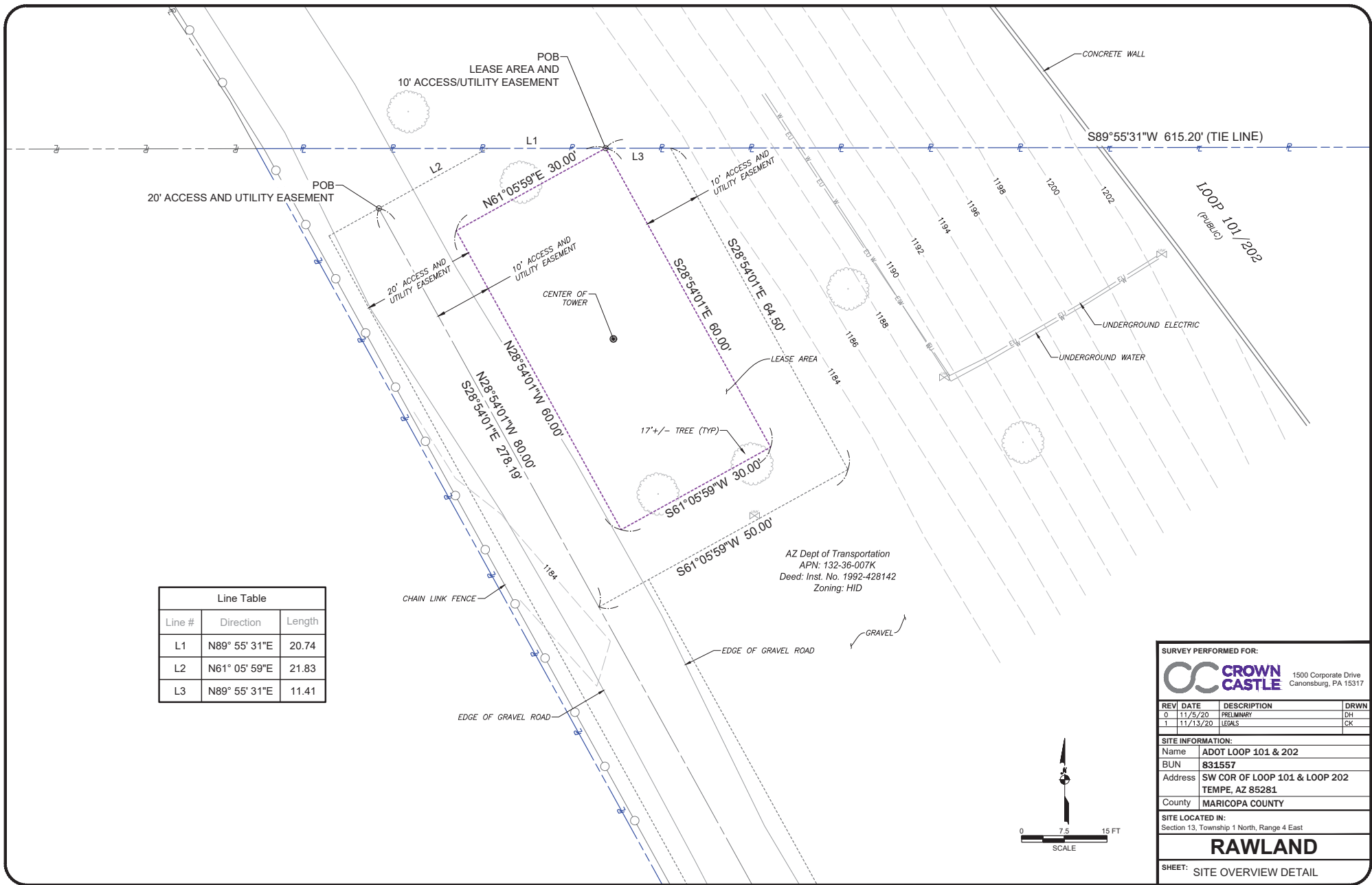


Line Table		
Line #	Direction	Length
L1	N89° 55' 31"E	20.74
L2	N61° 05' 59"E	21.83
L3	N89° 55' 31"E	11.41

AZ Dept of Transportation
 APN: 132-36-007K
 Deed: Inst. No. 1992-428142
 Zoning: HID




SURVEY PERFORMED FOR:			
		1500 Corporate Drive Canonsburg, PA 15317	
REV	DATE	DESCRIPTION	DRWN
0	11/5/20	PRELIMINARY	DH
1	11/13/20	LEGALS	CK
SITE INFORMATION:			
Name	ADOT LOOP 101 & 202		
BUN	831557		
Address	SW COR OF LOOP 101 & LOOP 202 TEMPE, AZ 85281		
County	MARICOPA COUNTY		
SITE LOCATED IN: Section 13, Township 1 North, Range 4 East			
RAWLAND			
SHEET: SITE OVERVIEW			



Line Table		
Line #	Direction	Length
L1	N89° 55' 31"E	20.74
L2	N61° 05' 59"E	21.83
L3	N89° 55' 31"E	11.41

AZ Dept of Transportation
 APN: 132-36-007K
 Deed: Inst. No. 1992-428142
 Zoning: HID

SURVEY PERFORMED FOR:
 **CROWN CASTLE** 1500 Corporate Drive
 Canonsburg, PA 15317

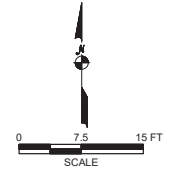
REV	DATE	DESCRIPTION	DRWN
0	11/5/20	PRELIMINARY	DH
1	11/13/20	LEGALS	CK

SITE INFORMATION:
 Name: ADOT LOOP 101 & 202
 BUN: 831557
 Address: SW COR OF LOOP 101 & LOOP 202
 TEMPE, AZ 85281
 County: MARICOPA COUNTY

SITE LOCATED IN:
 Section 13, Township 1 North, Range 4 East

RAWLAND

SHEET: SITE OVERVIEW DETAIL



PARENT PARCEL DESCRIPTION

SITUATE IN MARICOPA COUNTY, STATE OF ARIZONA:

THE WEST 495.00 FEET OF THE EAST 825.00 FEET OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER (SE 1/4 NE 1/4) OF SECTION 13, TOWNSHIP 1 NORTH, RANGE 4 EAST, GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA; EXCEPT THE SOUTH 1056.00 FEET THEREOF.

FURTHER EXCEPT THE PROPERTY SHOWN IN SPECIAL WARRANTY DEED RECORDED 11/09/2006 AS INSTRUMENT 20061482490 OF THE MARICOPA COUNTY RECORDS AND CORRECTED BY CORRECTIVE DOCUMENT RECORDED 11/15/2007 AS INSTRUMENT 20071223058 OF THE MARICOPA COUNTY RECORDS.

TAX ID NO: 132-36-007K

DERIVATION CLAUSE

BEING THE SAME PROPERTY CONVEYED TO THE STATE OF ARIZONA, BY AND THROUGH ITS DEPARTMENT OF TRANSPORTATION, GRANTEE, FROM TRI CITY READY-MIX, INC., AN ARIZONA CORPORATION, GRANTOR BY WARRANTY DEED RECORDED 08/04/1992, AS INSTRUMENT NO. 92-0428142 OF COUNTY RECORDS.

COMMITMENT FOR TITLE REVIEW

REFERENCE IS MADE TO THE LIMITED TITLE REPORT ORDER #01-20072394-01S, ISSUED BY OLD REPUBLIC TITLE INSURANCE COMPANY, DATED JUNE 19, 2020. ALL EASEMENTS CONTAINED WITHIN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED.

- OVERHEAD AND UNDERGROUND POWER EASEMENT UNTO THE SALT RIVER PROJECT AGRICULTURAL IMPROVEMENT AND POWER DISTRICT A POLITICAL SUBDIVISION OF THE STATE OF ARIZONA, RECORDED 04/29/1971, AS BOOK 8666, PAGE 213 OF MARICOPA COUNTY RECORDS.

EXISTING LEASE AREA

AS SURVEYED

ALL THAT PORTION OF THE WEST 495.00 FEET OF THE EAST 825.00 FEET OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 13, TOWNSHIP 1 NORTH, RANGE 4 EAST, GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE EAST QUARTER CORNER OF SAID SECTION, FROM WHICH POINT THE CENTER QUARTER CORNER OF SAID SECTION BEARS SOUTH 89° 51' 42" WEST, 2648.29 FEET;

THENCE FROM SAID POINT OF COMMENCEMENT ALONG THE EAST LINE OF SAID NORTHEAST QUARTER, NORTH 01° 41' 03" WEST, 1358.39 FEET TO THE NORTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION;
THENCE SOUTH 89° 55' 31" WEST ALONG SAID NORTH LINE, 615.20 FEET TO THE POINT OF BEGINNING;

THENCE SOUTH 28° 54' 01" EAST, 60.00 FEET;
THENCE SOUTH 61° 05' 59" WEST, 30.00 FEET;
THENCE NORTH 28° 54' 01" WEST, 60.00 FEET;
THENCE NORTH 61° 05' 59" EAST 30.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 1.800 SQ. FT. OR 0.041 ACRES, MORE OR LESS.

10' ACCESS AND UTILITY EASEMENT

AS SURVEYED

ALL THAT PORTION OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 13, TOWNSHIP 1 NORTH, RANGE 4 EAST, GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE EAST QUARTER CORNER OF SAID SECTION, FROM WHICH POINT THE CENTER QUARTER CORNER OF SAID SECTION BEARS SOUTH 89° 51' 42" WEST, 2648.29 FEET;

THENCE FROM SAID POINT OF COMMENCEMENT ALONG THE EAST LINE OF SAID NORTHEAST QUARTER, NORTH 01° 41' 03" WEST, 1358.39 FEET TO THE NORTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION;
THENCE SOUTH 89° 55' 31" WEST ALONG SAID NORTH LINE, 615.20 FEET TO THE POINT OF BEGINNING;

THENCE NORTH 89° 55' 31" EAST, 11.41 FEET ALONG THE NORTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION;
THENCE DEPARTING SAID NORTH LINE SOUTH 28° 54' 01" EAST, 64.50 FEET;
THENCE SOUTH 61° 05' 59" WEST, 50.00 FEET;
THENCE NORTH 28° 54' 01" WEST, 80.00 FEET;
THENCE NORTH 61° 05' 59" EAST 21.83 FEET TO A POINT ON THE NORTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION;
THENCE ALONG SAID NORTH LINE NORTH 89° 55' 31" EAST, 20.74 FEET;
THENCE DEPARTING SAID NORTH LINE SOUTH 61° 05' 59" WEST, 30.00 FEET;
THENCE SOUTH 28° 54' 01" EAST, 60.00 FEET;
THENCE NORTH 61° 05' 59" EAST, 30.00 FEET;
THENCE NORTH 28° 54' 01" WEST, 60.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 1.800 SQ. FT. OR 0.046 ACRES, MORE OR LESS.

ACCESS & UTILITY EASEMENT: NON-EXCLUSIVE

AS SURVEYED

ALL THAT PORTION OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 13, TOWNSHIP 1 NORTH, RANGE 4 EAST, GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, BEING A STRIP OF LAND 20.00 FEET WIDE, 10.00 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE EAST QUARTER CORNER OF SAID SECTION, FROM WHICH POINT THE CENTER QUARTER CORNER OF SAID SECTION BEARS SOUTH 89° 51' 42" WEST, 2648.29 FEET;


THENCE FROM SAID POINT OF COMMENCEMENT ALONG THE EAST LINE OF SAID NORTHEAST QUARTER, NORTH 01° 41' 03" WEST, 1358.39 FEET TO THE NORTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION;
THENCE SOUTH 89° 55' 31" WEST ALONG SAID NORTH LINE, 635.94 FEET;
THENCE DEPARTING SAID NORTH LINE SOUTH 61° 05' 59" WEST, 21.83 FEET TO THE POINT OF BEGINNING;

THENCE SOUTH 28° 54' 01" EAST, 278.19 FEET;
THENCE SOUTH 62° 46' 56" EAST, 44.99 FEET;
THENCE SOUTH 81° 12' 57" EAST, 23.27 FEET;
THENCE SOUTH 87° 47' 05" EAST, 56.46 FEET;
THENCE SOUTH 74° 30' 16" EAST, 29.61 FEET;
THENCE SOUTH 38° 40' 53" EAST, 24.89 FEET;
THENCE SOUTH 03° 41' 49" EAST, 169.43 FEET;
THENCE SOUTH 15° 56' 54" EAST, 36.00 FEET;
THENCE SOUTH 23° 44' 11" EAST, 529.17 FEET;
THENCE SOUTH 32° 50' 31" EAST, 59.33 FEET;
THENCE SOUTH 19° 17' 05" EAST, 31.44 FEET;
THENCE SOUTH 12° 08' 04" EAST, 21.39 FEET;
THENCE SOUTH 03° 03' 31" EAST, 33.73 FEET;
THENCE SOUTH 02° 34' 58" WEST, 161.46 FEET MORE OR LESS TO THE POINT OF TERMINUS.

EXCLUDING THEREFROM ANY PORTION LYING WITHIN THE RIO SALADO PARKWAY RIGHT OF WAY.

CONTAINING 29,987 SQ. FT. OR 0.688 ACRES, MORE OR LESS.

SURVEY PERFORMED FOR:



1500 Corporate Drive
Canonsburg, PA 15317

REV	DATE	DESCRIPTION	DRWN
0	11/5/20	PRELIMINARY	DH
1	11/13/20	LEGALS	CK

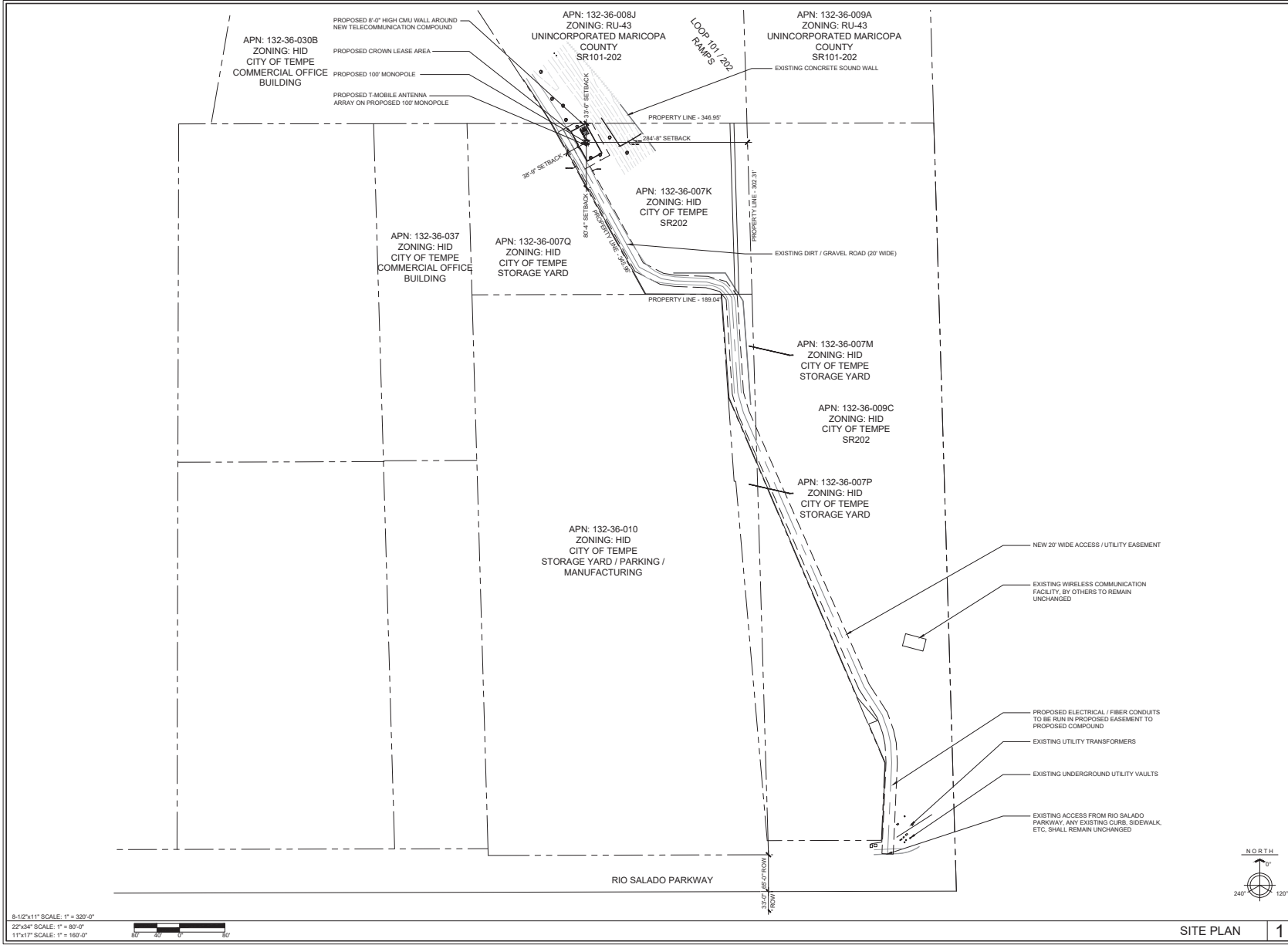
SITE INFORMATION:

Name: ADOT LOOP 101 & 202
 BUN: 831557
 Address: SW COR OF LOOP 101 & LOOP 202
 TEMPE, AZ 85281
 County: MARICOPA COUNTY

SITE LOCATED IN:
 Section 13, Township 1 North, Range 4 East

RAWLAND

SHEET: LEGAL DESCRIPTIONS



8 1/2" x 11" SCALE: 1" = 320'-0"
 22" x 34" SCALE: 1" = 80'-0"
 11" x 17" SCALE: 1" = 160'-0"



SITE PLAN 1

PLANS PREPARED FOR:

2825 S. PLAZA DR. #400, TEMPE, ARIZONA, 85282
 PHONE: (480) 638-2000 FAX: (480) 638-2852

CONSULTANT:

2955 S. STEARMAN DRIVE
 CHANDLER, AZ 85286
 OFFICE: (602) 946-1722

PROJECT INFORMATION:

ADOT LOOP 101 & 202
 PH40238A
 2130 E. RIO SALADO PARKWAY
 TEMPE AZ 85281
 MARICOPA COUNTY

CURRENT ISSUE DATE:

1/22/21

ISSUED FOR:

REVIEW

REV.	DATE	DESCRIPTION	BY
△	11/13/20	ISSUED FOR REVIEW	JRS
△	11/23/20	ISSUED FOR REVIEW	JRS
△	1/22/21	ISSUED FOR REVIEW	JRS

DRAWN BY: CHK. APV.

JRS MAY RCY

PLANS PREPARED BY:

architecture / project management
 10245 E. Via Linda, Scottsdale, AZ 85258
 ph: 480 451 9609 fax: 480 451 9608

LICENSURE:

PRELIMINARY FOR REVIEW ONLY

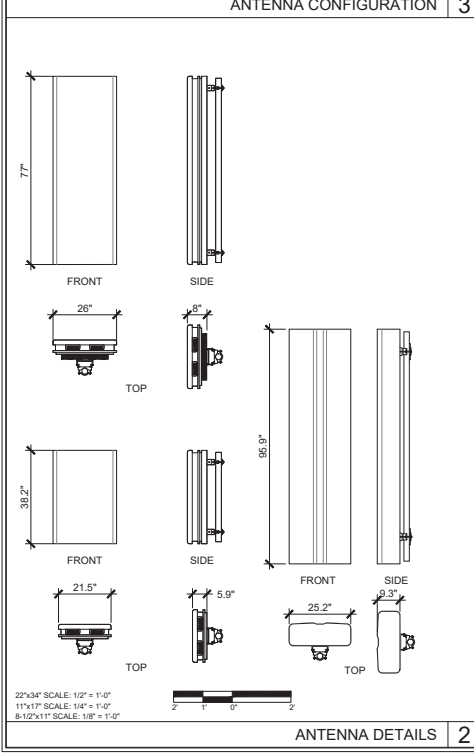
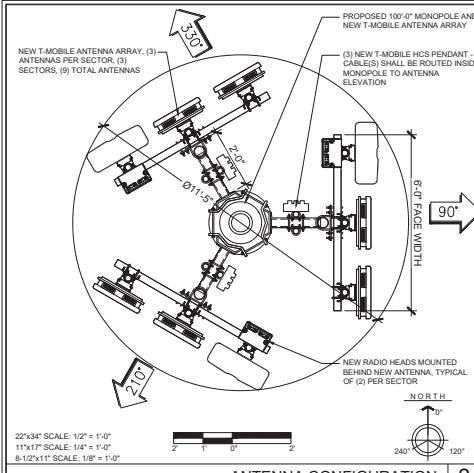
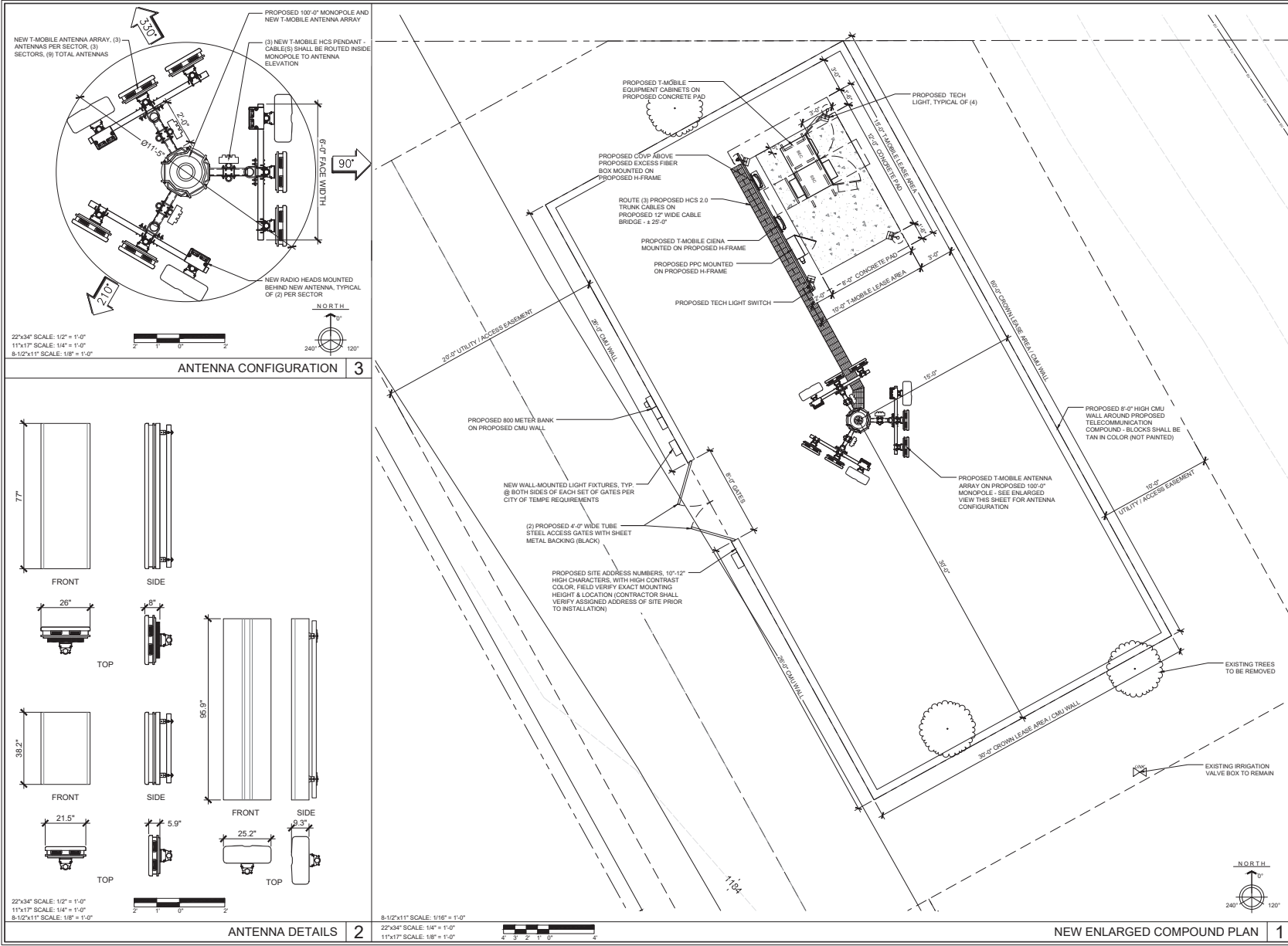
SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER: REVISION:

A-1 **C**

YDC-9946



PLANS PREPARED FOR:

T-Mobile

2825 S. PLAZA DR. #400, TEMPE, ARIZONA, 85282
 PHONE: (480) 638-2600 FAX: (480) 638-2852

CONSULTANT:

CROWN CASTLE

2955 S. STEARMAN DRIVE
 CHANDLER, AZ 85286
 OFFICE: (602) 946-1722

PROJECT INFORMATION:

ADOT LOOP 101 & 202
 PH40238A
 2130 E. RIO SALADO PARKWAY
 TEMPE AZ 85281
 MARICOPA COUNTY

CURRENT ISSUE DATE:

1/22/21

ISSUED FOR:

REVIEW

REV.	DATE	DESCRIPTION	BY
△	11/13/20	ISSUED FOR REVIEW	JRS
△	11/23/20	ISSUED FOR REVIEW	JRS
△	12/22/21	ISSUED FOR REVIEW	JRS

DRAWN BY: CHK. APV.

JRS	MAY	RCY
-----	-----	-----

PLANS PREPARED BY:

young design corp

architecture / project management
 10245 E. Via Linda, Scottsdale, AZ 85258
 ph: 480 451 9609 fax: 480 451 9608

LICENSURE:

PRELIMINARY FOR REVIEW ONLY

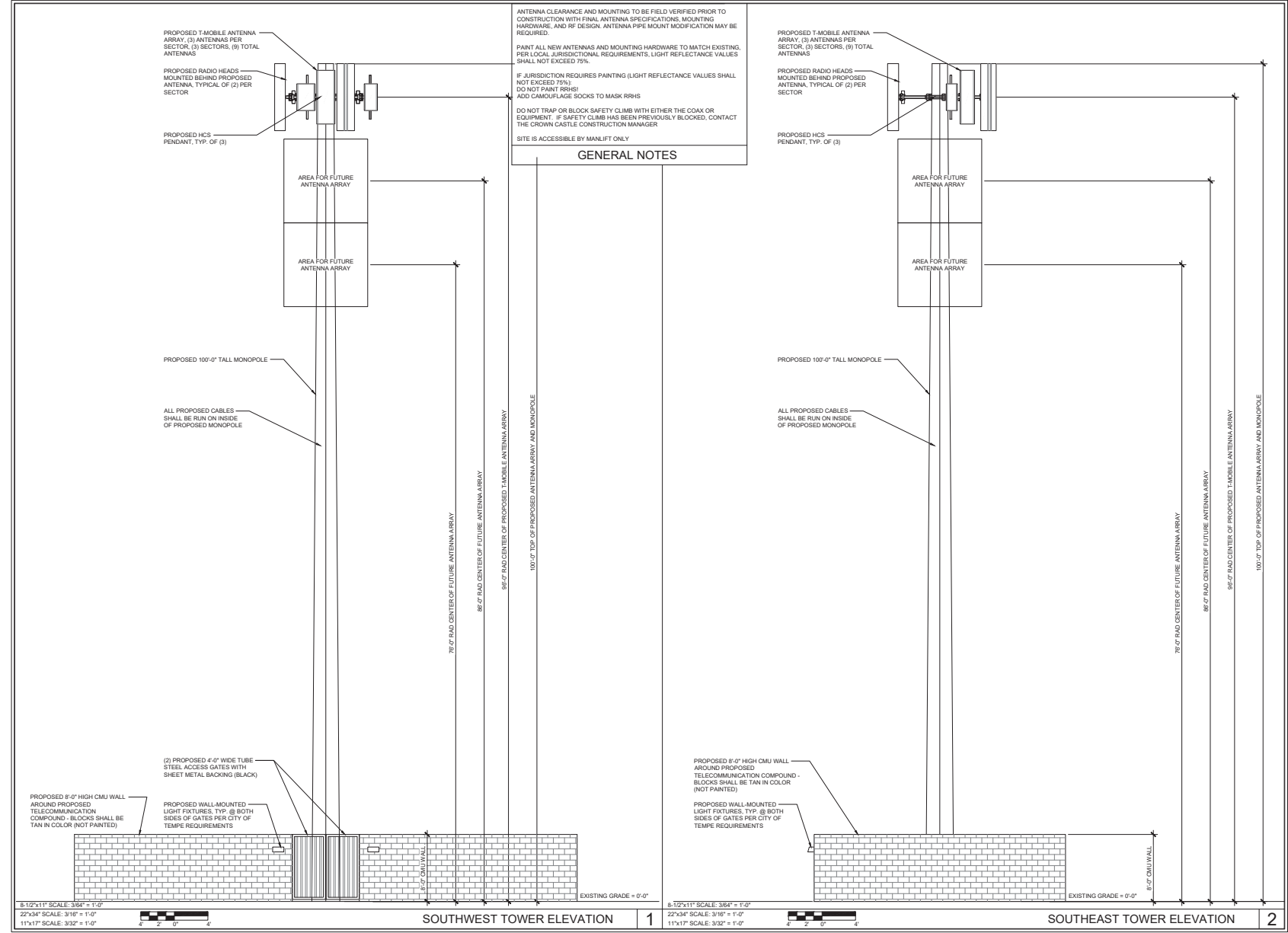
SHEET TITLE:

PROPOSED ENLARGED COMPOUND PLAN

SHEET NUMBER: REVISION:

A-2	C
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YDC-9946



ANTENNA CLEARANCE AND MOUNTING TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FINAL ANTENNA SPECIFICATIONS, MOUNTING HARDWARE, AND RF DESIGN. ANTENNA PIPE MOUNT MODIFICATION MAY BE REQUIRED.

PAINT ALL NEW ANTENNAS AND MOUNTING HARDWARE TO MATCH EXISTING, PER LOCAL JURISDICTIONAL REQUIREMENTS. LIGHT REFLECTANCE VALUES SHALL NOT EXCEED 75%.

IF JURISDICTION REQUIRES PAINTING (LIGHT REFLECTANCE VALUES SHALL NOT EXCEED 75%):
DO NOT PAINT RRHS;
ADD CAMOUFLAGE SOCKS TO MASK RRHS

DO NOT TRAP OR BLOCK SAFETY CLIMB WITH EITHER THE COAX OR EQUIPMENT. IF SAFETY CLIMB HAS BEEN PREVIOUSLY BLOCKED, CONTACT THE CROWN CASTLE CONSTRUCTION MANAGER.

SITE IS ACCESSIBLE BY MANLIFF ONLY

GENERAL NOTES

PLANS PREPARED FOR:

2825 S. PLAZA DR. #400, TEMPE, ARIZONA, 85282
PHONE: (480) 638-2000 FAX: (480) 638-2852

CONSULTANT:

2955 S. STEARMAN DRIVE
CHANDLER, AZ 85286
OFFICE: (602) 946-1722

PROJECT INFORMATION:

**ADOT LOOP 101 & 202
PH40238A**

2130 E. RIO SALADO PARKWAY
TEMPE AZ 85281
MARICOPA COUNTY

CURRENT ISSUE DATE:

1/22/21

ISSUED FOR:

REVIEW

REV.	DATE	DESCRIPTION	BY
△	11/13/20	ISSUED FOR REVIEW	JRS
△	11/23/20	ISSUED FOR REVIEW	JRS
△	12/21/21	ISSUED FOR REVIEW	JRS

DRAWN BY: CHK. APV.

JRS MAY RCY

PLANS PREPARED BY:

architecture / project management
10245 E. Via Linda, Scottsdale, AZ 85258
ph: 480 451 9609 fax: 480 451 9608

LICENSURE:

PRELIMINARY FOR REVIEW ONLY

SHEET TITLE:

NEW ELEVATIONS

SHEET NUMBER: **A-3** REVISION: **C**

YDC-9946

Site Location Map

Site Name: ADOT Loop 101 & 202

Site Number: 831557

Site Address: SW Corner Loop 101 & 202,
Tempe, AZ 85281

Lat/Long: 33.432939, -111.893906

Date: 12/22/2020



PREPARED BY:



TELCYTE
INFRASTRUCTURE SERVICES

Existing West View



Proposed West View



Existing Southwest View



Proposed Southwest View



Existing Southeast View



Proposed Southeast View



Existing Northeast View



Proposed Northeast View



CITY OF TEMPE

APPLICATION FORM FOR WIRELESS PROJECTS

The provision and siting of wireless (macro and microcell, Wi-Fi, distributed antenna system (“DAS”), etc.) services are highly technical enterprises subject to various federal, state, and local regulations. This application is designed to elicit information for a proposed new or modified wireless communications site project (“Project”) within the City of Tempe, whether on private or public property or in the right-of-way (“ROW”).

Completion of this application is mandatory for such wireless Projects to comply with City of Tempe duties under its Code; the Communications Act of 1934 as amended; the FCC Shot Clock Order (FCC 09-99); and other local, state, and federal laws, regulations, and court rulings. This document contains information necessary to permit the City of Tempe’s informed consideration of a request.

Determination of completeness: No application for a new or modified wireless Project shall be considered until all required responses to this application form and required Exhibits are completed and tendered to the City of Tempe.

If you do not believe that a specific item of information is necessary or applies to your application based on the type of wireless Project, mark the item on this form with the words, “Not Applicable” and attach a detailed written explanation as to the basis for your belief (e.g., “Question 94.7 does not apply to this application because the proposed Project has no microwave transmission element.”) An unsupported statement such as “Question 94.7 does not apply” is insufficient, and the determination of completeness of your application will be delayed while you provide a meaningful and detailed explanation.

The City of Tempe will review the application for completeness within 30 days and return incomplete submittals to the applicant.

Every page of this form including this page and the last page must be returned to the City of Tempe. Each page including this page and the last page must be initialed where indicated. The last page must also be completed, signed, and dated. Please note that item numbers in this form are intentionally non-sequential.

Questions should be directed to:

For Projects in the ROW:

Land Services – Engineering Division
31 E. Fifth St.
Tempe, AZ 85281
City Hall Municipal Complex
Garden Level, West Wing
480-350-8200

For Projects on private or public property:

Planning Division – Community Development
31 E. Fifth St.
Tempe, AZ 85281
City Hall Municipal Complex
Garden Level, East Wing
480-350-8331

Please Identify the Type of Wireless Project Proposed

- | | | |
|--|--|---------------------------------------|
| <input type="checkbox"/> Amateur Radio | <input type="checkbox"/> Broadcast Radio | <input type="checkbox"/> Broadcast TV |
| <input checked="" type="checkbox"/> Cellular Telephone | <input type="checkbox"/> Enhanced Specialized Mobile Radio | <input type="checkbox"/> Microwave |
| <input checked="" type="checkbox"/> PCS telephone | <input type="checkbox"/> SMR/ESMR | <input type="checkbox"/> WiFi/WiMax |
| <input type="checkbox"/> Satellite Uplink | <input type="checkbox"/> Satellite Downlink | <input type="checkbox"/> Small Cell |
| <input type="checkbox"/> Wireless Router | <input type="checkbox"/> Other(s) (specify) _____ | |

1.00 Project Location and Applicant Information

Submit Community Development Department Project Submittal Application. Designate this application as “Exhibit 1.01.”

Initial here myc to indicate that Exhibit 1.01 is attached to this form.

2.00 Project Owner and Applicant Information

Submit Property Owner/Business Owner/Applicant Information Form. Designate this form as “Exhibit 2.01”

Initial here myc to indicate that the Exhibit 2.01 is attached to this form.

3.00 FCC License / RF Safety Compliance / FAA Compliance:

3.01 For each licensee and for each radio service, submit the answers to Appendix A (attached). Designate all completed Appendix A forms as “Exhibit 3.01.”

Note to DAS provider applicants: Unless the DAS provider is the FCC licensee for the proposed project or the emissions from the site are solely for the DAS provider’s own transmissions, the DAS provider must provide an Appendix A form completed by each wireless carrier or wireless service provider to be transmitted through the Project at each wireless site. Appendix A forms completed by a DAS provider are unacceptable if they are not the FCC licensee for the particular wireless service(s) to be transmitted through the project.

For consistency, all Appendix A forms must use effective radiated power (ERP) units of measure. Do not use effective isotropic radiated power (EIRP). To verify your understanding of this requirement, you must append the letters “ERP” following each wattage listing in each Appendix A form you submit.

Initial here myc to indicate that Exhibit 3.01 is attached to this form.

3.02 Considering your response above and any other identifiable RF emitters that FCC OET Bulletin 65 requires be evaluated in connection with this Project, are all portions of this Project cumulatively “categorically excluded” under FCC OET 65 Bulletin requirements?

myces No

3.03 Provide a written statement for each entity that will be using the Project site that the use complies/will comply with all FCC and FAA regulations. Attach an RF-EME Report if available. Designate this (these) statement(s) as “Exhibit 3.03.”

Initial here _____ to indicate that Exhibit 3.03 is attached to this form.

4.00: Project Purpose

4.01: Note to all applicants: For each entity that will be using the Project site, provide the information in this section. If more than one person/legal entity, provide separate information for each person/legal entity using the Project site.

4.02: Indicate the dominant purpose of the Project (check one or more, then proceed as directed):

Add network capacity without adding significant new RF coverage area; Proceed to Section 4.04.

Provide significant new radio frequency coverage in an area not already served by radio frequency coverage; Proceed to Section 4.04.

mjc Increase the existing RF signal level in an area with existing radio frequency coverage; Proceed to Section 4.04.

Other; Proceed to Section 4.03.

4.03 Attach a written statement fully and expansively describing all portions or elements of the “Other” dominant purpose of this Project. Designate this exhibit as “Exhibit 4.03.”

Initial here _____ to indicate that Exhibit 4.03 is attached to this form.

4.04 Is this Project intended to close or reduce an asserted “significant gap” in a wireless telecommunications network? Yes No

4.05 If the answer to 4.04 is NO proceed to Section 4.07. If YES, proceed to Section 4.06.

4.06 Attach a written statement fully and expansively describing the following:

- a. A clear description of the geographic boundary of the claimed significant gap area; and
- b. Attach a street-level map showing the geographic boundary of the claimed significant gap stated in 4.06(a); and
- c. Identify the size of the area, in units of square miles, of the claimed significant gap; and
- d. Attach a street-level map showing the geographic boundary that would be served

- by the Project if approved; and
- e. Provide all other relevant information that the City of Tempe should consider when evaluating your claim of a significant gap.

Designate this exhibit as "Exhibit 4.06."

Initial here _____ to indicate that Exhibit 4.06 is attached to this form.

4.07 If applying for a Use Permit:

A Use Permit shall be granted only upon a finding by the decision-making body, that the use covered by the permit, the manner of its conduct, and any building which is involved, will not be detrimental to persons residing or working in the vicinity, to adjacent property, to the neighborhood, or to the public welfare in general, and that the use will be in full conformity to any conditions, requirements, or standards prescribed therefore by this Code.

In arriving at the above determination, the following factors shall be considered, but not be limited to:

- a. Any significant increase in vehicular or pedestrian traffic;
- b. Nuisance arising from the emission of odor, dust, gas, noise, vibration, smoke, heat, or glare at a level exceeding that of ambient conditions;
- c. Contribution to the deterioration of the neighborhood or to the downgrading of property values which, is in conflict with the goals, objectives or policies for rehabilitation, redevelopment or conservation as set forth in the city's adopted plans or General Plan;
- d. Visual compatibility with existing surrounding structures and uses, including compliance with any stealth and concealment requirements; and
- e. Adequate control of disruptive behavior both inside and outside the premises, which may create a nuisance to the surrounding area or general public.

Attach a letter of explanation that addresses the above Approval Criteria. Designate this exhibit as "Exhibit 4.07."

Initial here myc to indicate that Exhibit 4.07 is attached to this form.

4.08 Attach a written statement fully and expansively describing at a minimum:

- a. Why this Project is the least intrusive means to close the significant gap claimed and described in 4.06.
- b. Identify and discuss all alternative sites and means considered to close the

significant gap claimed and described in 4.06.

- c. Whether two or more sites in lieu of the site proposed in Section 1 could close the significant gap claimed and described in 4.06, or to reduce the significant gap to be less than significant, with less impact on the community as compared with a single site? If the answer is no, please explain in narrative format the basis for that answer.
- d. Whether the City of Tempe requiring two or more sites in place of the site proposed in Section 1 would prohibit or have the effect of prohibiting the Applicant from providing any interstate or intrastate telecommunications service. If the response asserts that a prohibition or effective prohibition would occur, explain in detail in narrative form all of the reasons why it would.

Include any other information you believe would assist the City of Tempe in making findings regarding whether the proposed Project is the least intrusive means of closing the significant gap claimed and described in 4.06.

Designate this exhibit as "Exhibit 4.08."

Initial here myc to indicate that Exhibit 4.08 is attached to this form.

5.00 **Project Base Photographs and Photo Simulations**

5.01 The Applicant shall submit photo simulations consistent with the following standards:

1. Minimum size of each base (existing) photo and each photo simulation must be 10 inches by 8 inches. Each base photo and matching photo simulation must be the same size.
2. All elements of the Project as proposed by the Applicant which can be seen from any point at ground level, or from any level within or on buildings within a ½ mile radius of the Project must be shown in one or more close-in photo simulations (i.e., panel antennas, omni-directional antennas, GPS antennas, antenna camouflage devices, cable trays, equipment cabinets, working lights, etc.).
3. The overall Project as proposed by the Applicant must be shown in three or more area photo simulations. Base photographs must, at a minimum, be taken from widely scattered positions of 120 degrees. A map detail showing each location where a photograph was taken, the proposed site, and the direction to the site from each photo location must be included. Base photographs taken from locations that have some physical feature obscuring the Project site, and the photo simulations associated with those same base photographs, are not acceptable.

Attach all base photographs and photo simulations to this application marked as "Exhibit 5.01."

The purpose of the photo simulations is to allow the City of Tempe to visualize the wireless Project as completed, therefore the number of site photos, and photo simulations, and the actual or simulated camera location of these photos and photo simulations are subject to City of Tempe determination. The Applicant should submit photos and photo simulations consistent with these instructions, and be prepared to provide additional photos and photo simulations should they be requested by the City of Tempe.

The Applicant certifies by initialing in the space at the end of this paragraph that all of the photos and photo simulations provided for Exhibit 5.01 are accurate and reliable photographic representations of the current Project site and the proposed Project to be constructed or modified, and that the Applicant is fully aware that the City of Tempe will rely on all of the photos and photo simulations provided in Exhibit 5.01 when it considers approval of this Project, and later when determining Project completion.

Applicant's initials: myc

6.00 **Minimization of Visual Impact**

6.01 Provide documentation of the steps that will be taken to minimize visual impact of the proposed wireless attachment or facility to comply with any stealth and concealment requirements. Designate this exhibit as "Exhibit 6.01."

Initial here myc to indicate that Exhibit 6.08 is attached to this form.

7.00 **Landscape Plan**

7.01 Provide a landscape plan, drawn to scale, that is consistent with the need for screening at the site. Any existing vegetation that is to be removed must be clearly indicated and provision for mitigation included where appropriate. Designate this exhibit as "Exhibit 7.01."

8.00 **Feasibility Study for Co-Location**

8.01 Provide a feasibility study for the co-location of telecommunication facilities as an alternative to new structures. The study shall include:

- a. An inventory, including the location, ownership, height, and design of existing Wireless Telecommunication Facilities within one-half (1/2) mile of the proposed location of a new Wireless Telecommunication Facilities. The city may share such information with other applicants seeking permits for WTFs, but shall not, by sharing such information, in any way represent or warrant that such sites are available or suitable.
- b. Applicant shall document efforts made to co-locate on existing verticality. Each applicant shall make a good faith effort to contact the owner(s) of existing or approved structures and shall provide a list of all owners contacted in the area,

including the date, form and content of such contact. Co-location shall not be precluded simply because a fee for shared use is charged, or because of reasonable costs necessary to adapt the existing and proposed uses to a shared site.

Designate this study as "Exhibit 8.01."

Initial here myc to indicate that Exhibit 8.01 is attached to this form.

9.00 Alternative Candidate Sites

9.01 Amateur radio applicants proceed to Section 10.00.

9.02 Has the Applicant or Owner or anyone working on behalf of the Applicant or Owner secured or attempted to secure any leases or lease-options or similar formal or informal agreements in connection with this Project for any sites other than the proposed Project site?
 Yes No

9.03 If the answer to 9.02 is NO proceed to Section 9.05. If the answer is YES, proceed to Section 9.04.

9.04 Provide the physical address of each such other location, and provide an expansive technical explanation as to why each such other site was disfavored over the Project site. Designate this exhibit as "Exhibit 9.04."

Initial here _____ to indicate that Exhibit 8.04 is attached to this form.

9.05 Considering this proposed site, is it the one and only one location within or outside of the City of Tempe that can possibly meet the objectives of the Project?
 Yes No

9.06 If the answer to 9.05 is NO, proceed to Section 10.00. If the answer is YES, proceed to Section 9.07.

9.07 Provide a technically expansive and detailed explanation supported as required by comprehensive radio frequency data and all other necessary information fully describing why the proposed site is the one and only one location within or outside of the City of Tempe that can possibly meet the radio frequency objectives of the Project. Explain, in exact and expansive technical detail, all of the objectives of this Project that can be achieved only at this Project site, and why.

Designate this exhibit as "Exhibit 9.07."

Initial here myc to indicate that Exhibit 9.07 is attached to this form.

10.00 Identification of Key Persons

10.01 Identify by name, title, company affiliation, work address, telephone number and extension, and email address of the key person or persons most knowledgeable regarding this Project so that the City of Tempe may contact them with questions regarding the Project:

10.02 Person responsible for the final site selection for the Project;
Name: *see attached for 10.2 --10.4*
Title:
Company Affiliation:
Work Address:
Telephone / Ext.:
Email Address:

10.03 Person responsible for the radio frequency engineering of the Project; **RF**
Name:
Title:
Company Affiliation:
Work Address:
Telephone / Ext.:
Email Address:

10.04 Person responsible for rejection of other candidate sites evaluated, if any;
Name:
Title:
Company Affiliation:
Work Address:
Telephone / Ext.:
Email Address:

11.00 Additional Information Provided by Applicant

11.01 You are invited and encouraged to provide any additional written information of any kind that you wish the City of Tempe to consider in connection with your proposed Project.

If you wish to attach additional written information, designate this exhibit as “Exhibit 11.01”

Initial here _____ to indicate that Exhibit 11.01 is attached to this form,
or initial here *mjc* to indicate that there is no Exhibit 11.01 attached.

12.00 Certification of Accuracy and Reliability

12.01 The undersigned certifies on behalf of itself, the Applicant, the Project Owner, and the Property Owner (if property owner is other than the City of Tempe) that the information provided in this form and its contents are true and complete to the best of the undersigned’s ability and knowledge, and that information provided here can and should be relied upon by

the City of Tempe as being accurate and complete as the City of Tempe evaluates this Project.

Michael J. Campbell
Signature

Michael J Campbell
Print Name

Campbell A&Z, LLC
Print Company Name

3/4/21
Date Signed

Consultant
Title

campbellaz1@earthlink.net
Provide Email Address

602-616-8396
Provide Telephone Number

<Last Page: Remember to sign above and initial below>

Appendix A

Checklist to Determine Whether a Facility is Categorically Excluded From Determination of Compliance

The FCC has determined that many wireless facilities are unlikely to cause human exposures in excess of RF exposure guidelines. Operators of those facilities are exempt from routinely having to determine their compliance. These facilities are termed "categorically excluded." Section 1.1307(b)(1) of the FCC's rules defines those categorically excluded facilities.

This checklist will assist the City in identifying those wireless facilities that are categorically excluded, and thus are highly unlikely to cause exposure in excess of the FCC's guidelines. Provision of the information identified on this checklist may also assist FCC staff in evaluating any inquiry regarding a facility's compliance with the RF exposure guidelines.

BACKGROUND INFORMATION

1. Facility Operator's Legal Name:
2. Facility Operator's Mailing Address:
3. Facility Operator's Contact Name/Title:
4. Facility Operator's Office Telephone:
5. Facility Operator's Fax:
6. Facility Name:
7. Facility Address:
8. Facility City/Community:
9. Facility State and Zip Code:
10. Latitude:
11. Longitude:



Checklist (page 2)

EVALUATION OF CATEGORICAL EXCLUSION

- 12. Licensed Radio Service (see attached Table 1):
- 13. Structure Type (free-standing or building/roof-mounted):
- 14. Antenna Type [omnidirectional or directional (includes sectored)]:
- 15. Height above ground of the lowest point of the antenna (in meters):
- 16. Check if all of the following are true:
 - (a) This facility will be operated in the Multipoint Distribution Service, Paging and Radiotelephone Service, Cellular Radiotelephone Service, Narrowband or Broadband Personal Communications Service, Private Land Mobile Radio Services Paging Operations, Private Land Mobile Radio Service Specialized Mobile Radio, Local Multipoint Distribution Service, or service regulated under Part 74, Subpart I (see question 12).
 - (b) This facility will not be mounted on a building (see question 13).
 - (c) The lowest point of the antenna will be at least 10 meters above the ground (see question 15).

If box 16 is checked, this facility is categorically excluded and is unlikely to cause exposure in excess of the FCC's guidelines. The remainder of the checklist need not be completed. If box 16 is not checked, continue to question 17.

- 17. Enter the power threshold for categorical exclusion for this service from the attached Table 1 in watts ERP or EIRP* (note: $EIRP = (1.64) \times ERP$):
- 18. Enter the total number of channels if this will be an omnidirectional antenna, or the maximum number of channels in any sector if this will be a sectored antenna:
- 19. Enter the ERP or EIRP per channel (using the same units as in question 17):
- 20. Multiply answer 18 by answer 19:
- 21. Is the answer to question 20 less than or equal to the value from question 17 (yes or no)?

If the answer to question 21 is YES, this facility is categorically excluded. It is unlikely to cause exposure in excess of the FCC's guidelines.

If the answer to question 21 is NO, this facility is not categorically excluded. The City will need further information to verify whether the facility may cause exposure in excess of the FCC's guidelines.

*"ERP" means "effective radiated power" and "EIRP" means "effective isotropic radiated power"

TABLE 1: TRANSMITTERS, FACILITIES AND OPERATIONS SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION

SERVICE (TITLE 47 CFR RULE PART)	EVALUATION REQUIRED IF:
Experimental Radio Services (part 5)	power > 100 W ERP (164 W EIRP)
Multipoint Distribution Service (subpart K of part 21)	<u>non-building-mounted antennas:</u> height above ground level to lowest point of antenna < 10 m <u>and</u> power > 1640 W EIRP <u>building-mounted antennas:</u> power > 1640 W EIRP
Paging and Radiotelephone Service (subpart E of part 22)	<u>non-building-mounted antennas:</u> height above ground level to lowest point of antenna < 10 m <u>and</u> power > 1000 W ERP (1640 W EIRP) <u>building-mounted antennas:</u> power > 1000 W ERP (1640 W EIRP)
Cellular Radiotelephone Service (subpart H of part 22)	<u>non-building-mounted antennas:</u> height above ground level to lowest point of antenna < 10 m <u>and</u> total power of all channels > 1000 W ERP (1640 W EIRP) <u>building-mounted antennas:</u> total power of all channels > 1000 W ERP (1640 W EIRP)

TABLE 1 (cont.)

SERVICE (TITLE 47 CFR RULE PART)	EVALUATION REQUIRED IF:
<p>Personal Communications Services (part 24)</p>	<p>(1) Narrowband PCS (subpart D): <u>non-building-mounted antennas</u>: height above ground level to lowest point of antenna < 10 m <u>and</u> total power of all channels > 1000 W ERP (1640 W EIRP) <u>building-mounted antennas</u>: total power of all channels > 1000 W ERP (1640 W EIRP)</p> <p>(2) Broadband PCS (subpart E): <u>non-building-mounted antennas</u>: height above ground level to lowest point of antenna < 10 m <u>and</u> total power of all channels > 2000 W ERP (3280 W EIRP) <u>building-mounted antennas</u>: total power of all channels > 2000 W ERP (3280 W EIRP)</p>
<p>Satellite Communications (part 25)</p>	<p>all included</p>
<p>General Wireless Communications Service (part 26)</p>	<p>total power of all channels > 1640 W EIRP</p>
<p>Wireless Communications Service (part 27)</p>	<p>total power of all channels > 1640 W EIRP</p>
<p>Radio Broadcast Services (part 73)</p>	<p>all included</p>

TABLE 1 (cont.)

SERVICE (TITLE 47 CFR RULE PART)	EVALUATION REQUIRED IF:
<p>Experimental, auxiliary, and special broadcast and other program distributional services (part 74)</p>	<p>subparts A, G, L: power > 100 W ERP</p> <p>subpart I: <u>non-building-mounted antennas</u>: height above ground level to lowest point of antenna < 10 m <u>and</u> power > 1640 W EIRP <u>building-mounted antennas</u>: power > 1640 W EIRP</p>
<p>Stations in the Maritime Services (part 80)</p>	<p>ship earth stations only</p>
<p>Private Land Mobile Radio Services Paging Operations (part 90)</p>	<p><u>non-building-mounted antennas</u>: height above ground level to lowest point of antenna < 10 m <u>and</u> power > 1000 W ERP (1640 W EIRP) <u>building-mounted antennas</u>: power > 1000 W ERP (1640 W EIRP)</p>
<p>Private Land Mobile Radio Services Specialized Mobile Radio (part 90)</p>	<p><u>non-building-mounted antennas</u>: height above ground level to lowest point of antenna < 10 m <u>and</u> total power of all channels > 1000 W ERP (1640 W EIRP) <u>building-mounted antennas</u>: total power of all channels > 1000 W ERP (1640 W EIRP)</p>

TABLE 1 (cont.)

SERVICE (TITLE 47 CFR RULE PART)	EVALUATION REQUIRED IF:
Amateur Radio Service (part 97)	transmitter output power > levels specified in § 97.13(c)(1) of this chapter
Local Multipoint Distribution Service (subpart L of part 101)	<p><u>non-building-mounted antennas</u>: height above ground level to lowest point of antenna < 10 m <u>and</u> power > 1640 W EIRP</p> <p><u>building-mounted antennas</u>: power > 1640 W EIRP</p> <p>LMDS licensees are required to attach a label to subscriber transceiver antennas that: (1) provides adequate notice regarding potential radiofrequency safety hazards, <i>e.g.</i>, information regarding the safe minimum separation distance required between users and transceiver antennas; and (2) references the applicable FCC-adopted limits for radiofrequency exposure specified in § 1.1310 of this chapter.</p>

**CROWN CASTLE ADOT LOOP 101 & 202
2130 E RIO SALADO PARKWAY
MARCH 4, 2021
CITY OF TEMPE SUPPLEMENTAL WIRELESS APPLICATION
SPR200113**

Project Location:

1.0- 2130 E Rio Salado Parkway., ADOT SR101 & 202 interchange.

Project Owner & Applicant Information:

2.0-Crown Castle, 2055 S Stearman Dr, Chandler AZ 85286 Project Owner
Campbell A&Z, LLC 6880 W Antelope Dr., Peoria AZ 85383, Applicant

FCC License/RF Safety/FAA Compliance:

3.01-See attached letter

Project Purpose:

4.02-4.04 The proposed Crown Castle new build 100' tall monopole and equipment cabinet compound is designed to replace an existing Crown Castle facility located on the 2150 E Rio Salado Pkwy, the Brock property. The existing site is experiencing transmission signal blocking and shadowing from the newly constructed multi-storied Freedom Financial Buildings located due west and northwest of the existing monopole.

The relocation site will allow the carrier, TMobile, to continue the respective network coverage areas and to serve their customers is focused on the immediate lands in and around the intersection of SR101, SR 202 and Rio Salado Parkway. RF coverage maps are attached are attached. The maps show the coverage from the existing site, 879278 Riverview, coverage from the new site 831557 ADOT LOOP 101 & 202, and the area without the replacement monopole site.

4.06-A copy of the target area is attached. The target area covers an area that surrounds the SR101 and SR202 interchange and the businesses along Rio Salado Parkway, east and west of SR101. The approx gross target area is approx 2560 acres in size.

4.07-The request for a Use Permit to allow the Crown Castle monopole site will not create any significant increase in vehicular or pedestrian traffic; the site will not create any odor, dust, gas, noise, vibration, smoke, heat or glare at a level that exceeds the current conditions of the area; the site will not contribute to the deterioration if the neighborhood or downgrade property values, in fact the improved wireless network coverage has been found to improve area values as the public reliance on wireless service has increased while the public reliance on wireline communication has fallen; the site will be visually compatible with the area as there are a number of tall light poles in the area of the freeway interchange, the site will be secured and not accessible by the public, therefore eliminating the issue of potential of disruptive behavior at the site.

4.08-The proposed Crown Castle site is the least invasive design to maintain the current network coverage for the carrier, without creating coverage gaps in a mature network. The alternative sites discussed were rooftop sites on the Freedom Financial buildings and a ground space on the Freedom Financial campus. The rooftop facility fell out due to issues with rooftop carrier equipment and the ground space location fell out to due to the timeframe of the availability for the location. This replacement site will allow for removal of the existing monopole at 2150 E Rio Salado Parkway once the new monopole is constructed and operational.

Project Base Photographs & Photo Simulations:

5.01-See attached photo sims and site photos

Minimization of Visual Impact:

6.01-The proposed Crown Castle site will be visually compatible with the area as there are several tall ADOT light poles serving the freeway interchange.

Landscape Plan:

7.01-. There is no landscape plan for this proposed facility. ADOT does not allow additional landscaping at carrier facilities.

Feasibility Study for Co-location:

8.01-The Crown Castle site will house TMobile. The monopole will be engineered for two additional carriers.

Alternative Candidate Sites:

9.05-The alternative locations reviewed as noted above were properties at the Freedom Financial campus.

9.07-Coverage Maps attached.

Identification of Key Persons:

10.02-Site Selection:

Michael J Campbell
Campbell A&Z, LLC
6880 W Antelope Dr.
Peoria AZ 85383
608-616-8396

campbellaz1@earthlink.net

10.03-RF Engineer

Mehdi Abbas

T-Mobile

1330 W Southern Ave., A-102

Tempe AZ 85282

904-662-9267

mehdiabbasnaqvi.naqvi1@t-mobile.com

10.04-Candidate Rejection:

Richard Stannard

Crown Castle

2055 S Stearman Dr

Chandler AZ 85286

480-735-6954

Richard.stannard@crowncastle.com

11.0-nothing additional

12.01

Affidavit signed



879278

RF Analysis – T-Mobile

Danny Sosa

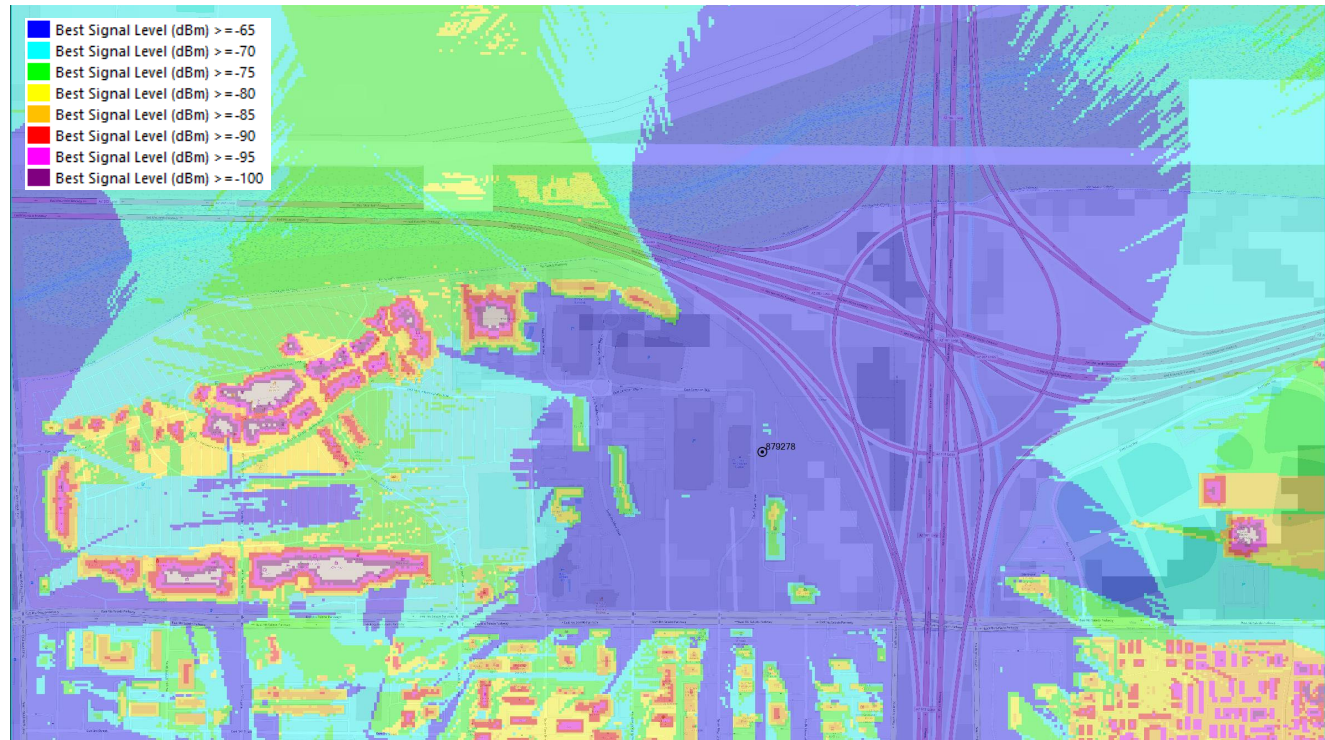
Senior RF Engineer
Data & Demand Planning

March
2021

The pathway to possible.

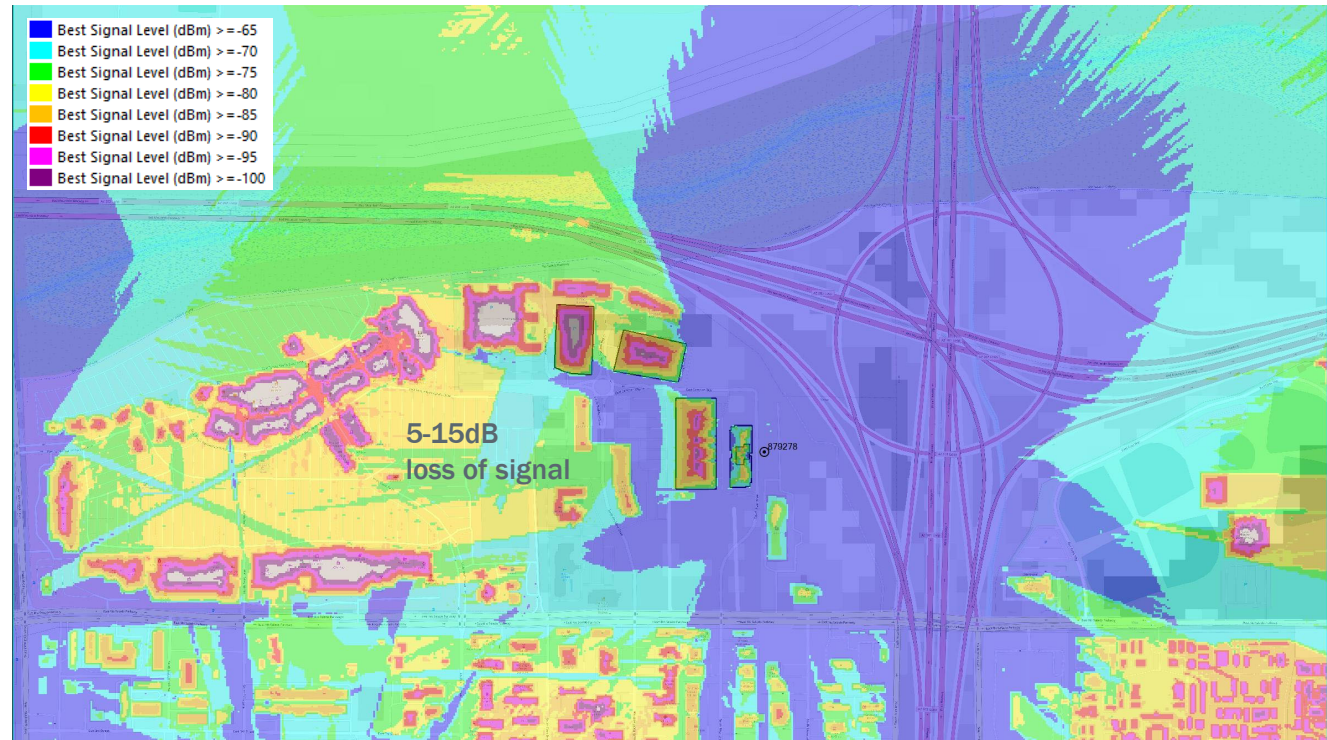
T-Mobile coverage pre-buildings

- Estimated coverage before buildings were constructed



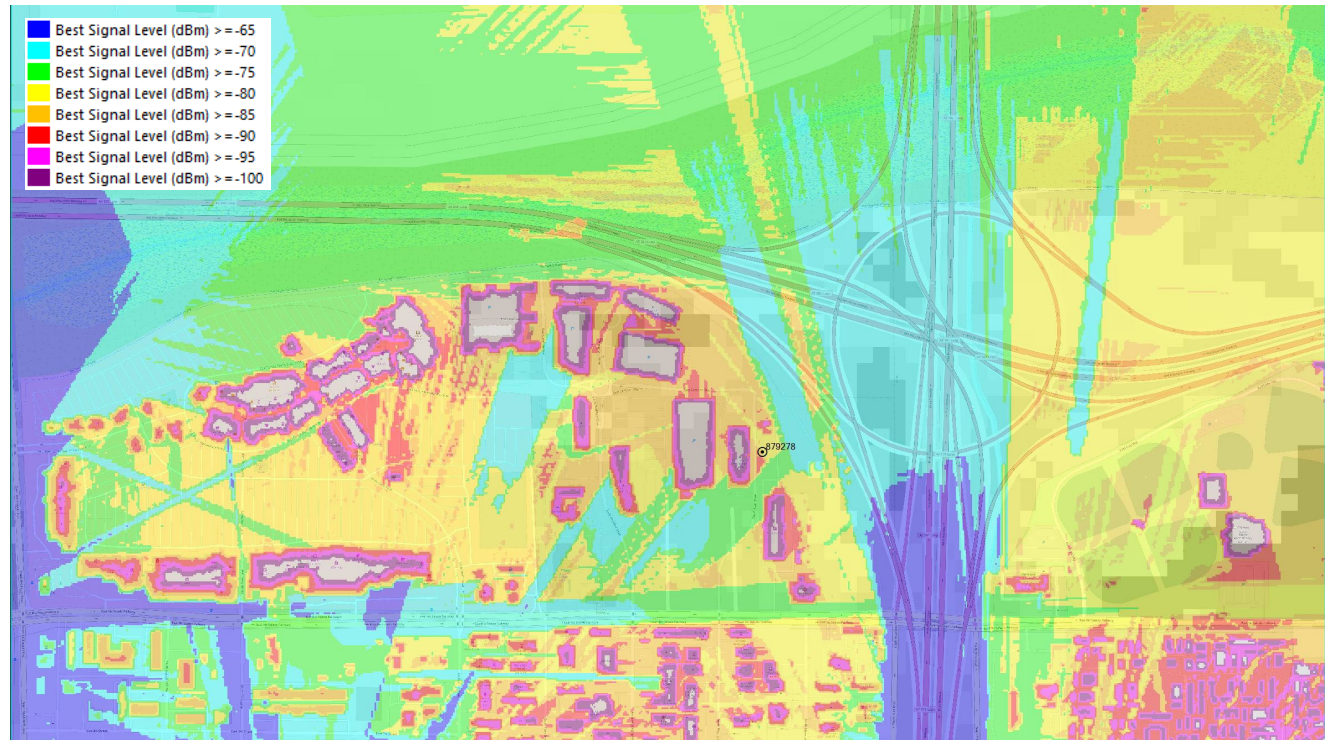
T-Mobile coverage pre-buildings

- Estimated coverage after buildings were constructed
 - Since 2018, there appear to be three new parking garages along with the building directly in front of 879278 in 2019.
- Some areas to the west of the new building are showing a 5-15dB loss of signal strength
 - A 5-15 dB loss equates to 32% down to 3% of the original signal



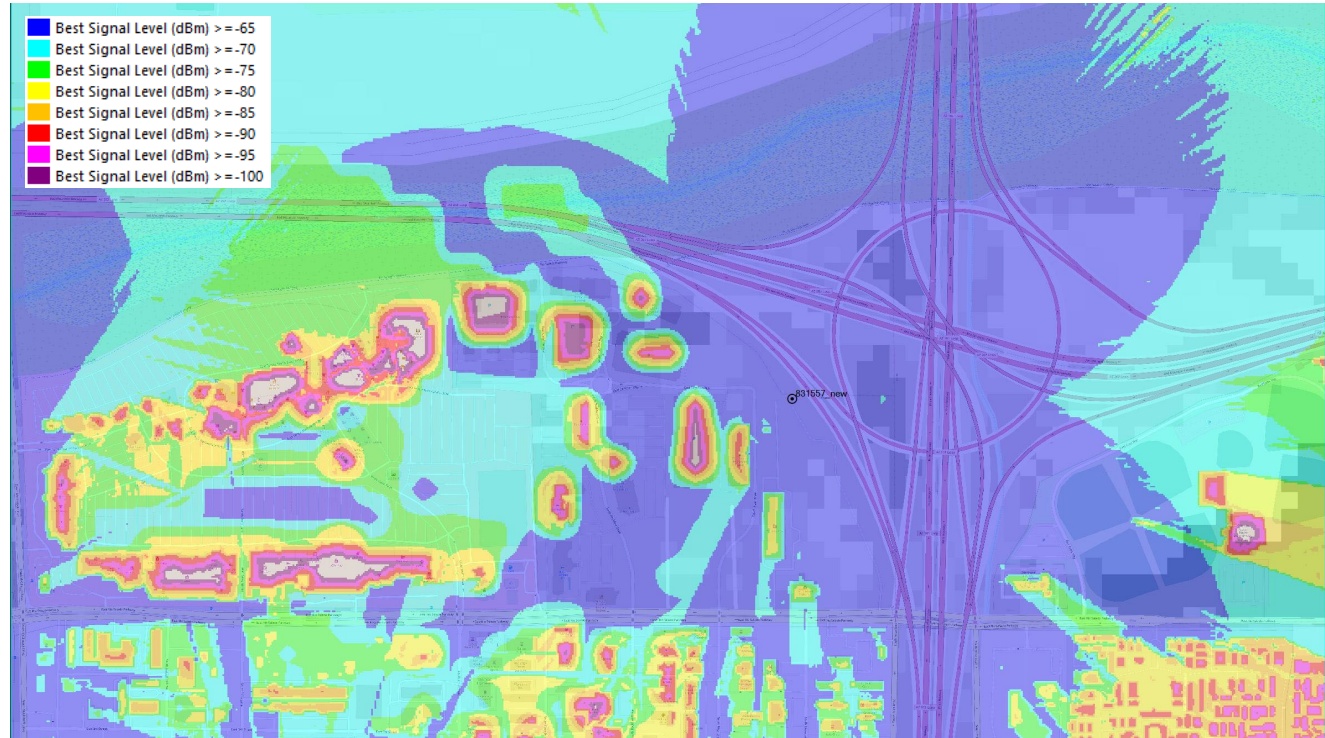
T-Mobile coverage post-buildings

- Estimated coverage after buildings were constructed also removing 879278



T-Mobile coverage post-buildings

- Estimated coverage after buildings were constructed adding in 831557



Thank you

For further information please contact:

Danny Sosa
Senior RF Engineer
(610) 567-7989
daniel.sosa@crowncastle.com





**ASAC SITE SPECIFIC EVALUATION
FOR**

Site Name: ADOT Loop

Site Number: 831557

Site Location: Tempe, AZ.

Requestors Name: Heath Reed

Company Name: Crown Castle

Street Address: 2055 S. Stearman Drive

City and Zip: Chandler, AZ. 85286

This is an evaluation based on application of surfaces identified in Federal Aviation Regulation (FAR) Part 77 and Federal Communication Commission (FCC) Rules Part 17.

EXECUTIVE SUMMARY

- ✚ **The max height that can be built at this site without notice to the FAA is 200 feet AGL or 1384 feet AMSL.**
- ✚ **The max No Extended Study height at this site is 491 AGL, or 1675 AMSL.**
- ✚ **The max no hazard height at this site is 499 AGL, or 1683 AMSL.**
- ✚ **The max no marking and lighting height at this site is 200 AGL, or 1384 AMSL.**

SITE DATA

Structure Type: Antenna Tower

Coordinates of site:	Lat:	33°25'58.58"
	Long:	111°53'38.06"
	Datum:	NAD 83

Site ground elevation:	1184
Total height above the ground of the entire structure (AGL):	100
Total height above mean sea level (AMSL):	1284

AIRPORT/HELIPORT INFORMATION

Nearest public use or Government Use (DOD) facility: Phoenix Sky Harbor International.

This structure will be located 5.9 NM or 35934 FT from the airport on a bearing of 270 degrees true to the airport.

Nearest private use landing facility is: JSJ.

This structure will be located 2.5 NM from the helipad on a bearing of 70 degrees true to the helipad.

STUDY FINDINGS

FAA FAR Part 77 paragraph 9 (FAR 77.9): (Construction or Alteration requiring notice.) (These are the imaginary surfaces that the FAA has implemented to provide general criteria for notification purposes.)

This structure does not require notification to the FAA.

FAA FAR Part 77 paragraph 17(FAR 77.17): (Standards for Determining Obstructions.)(These are the imaginary surfaces that the FAA has implemented to protect aircraft safety. If any of these surfaces are penetrated, the structure may pose a Hazard to Air Navigation.)

This structure does not exceed these surfaces.

**FCC Notice Requirements:
(FCC Rules, Part 17)**

This structure does not require notification to the FAA or FCC based on these rules.

**FAA EMI:
(The FAA protects certain air navigational aids, radio transmitters, and RADAR facilities from possible interference. The distance and direction are dependent on the type of facility being evaluated. Some of these transmission and receiver facilities are listed in the National Flight Data Center (NFDC) database.)**

This site would not affect any FAA air navigational aids or transmitters.

Military Airspace:

(This would include low level visual and instrument routes along with operations areas and special use airspace.)

This structure will not affect this airspace.

AM Facilities:

(The FCC protects AM radio stations from possible interference for a distance of 3.0 km for directional facilities, and 1.0 km for non-directional facilities. New changes to the FCC critical distances are calculated based on the AM transmission Movement Method Proof evaluation.)

This site was evaluated against the FCC's AM antenna database using the Movement Method proof calculations and no further action is required.

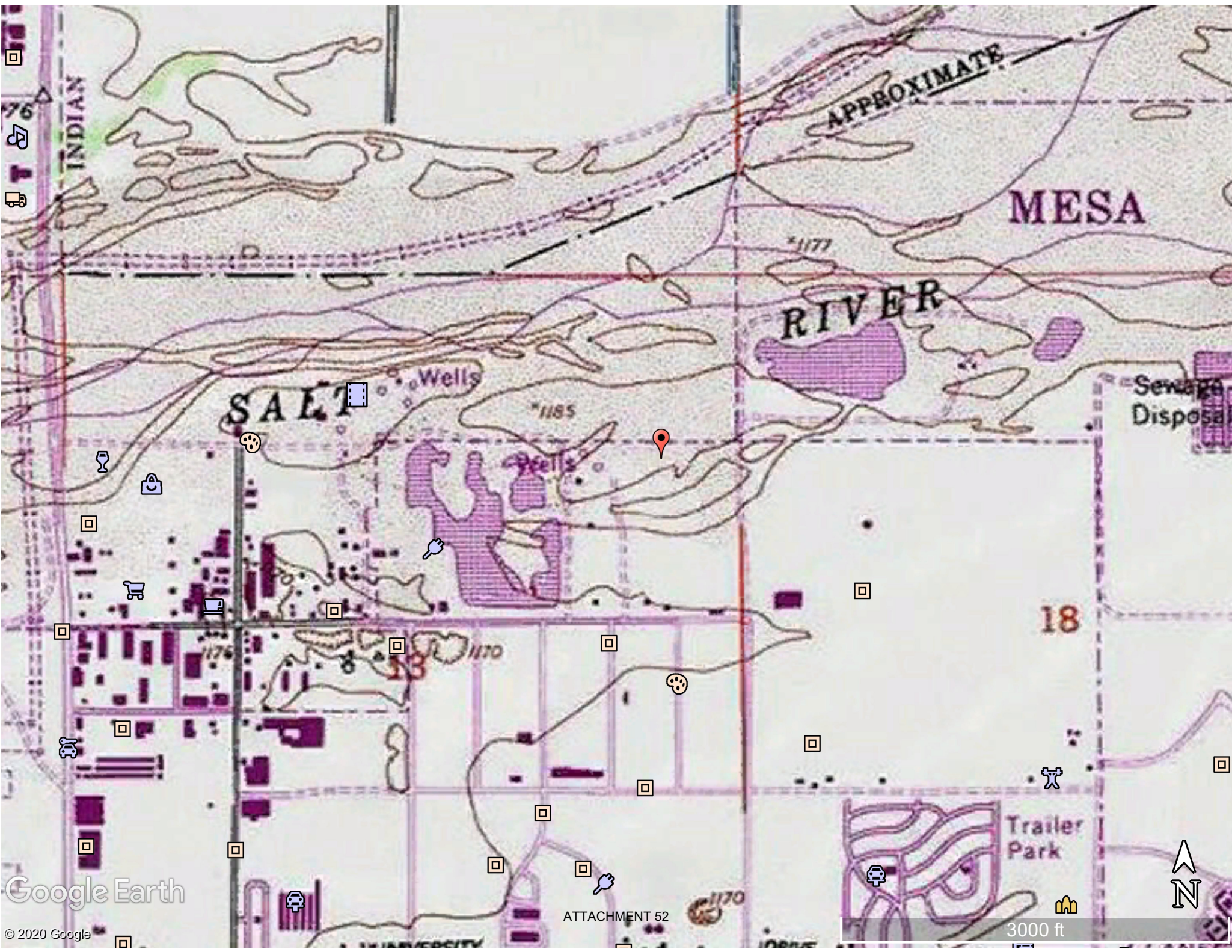
MARKING AND LIGHTING

FAA Advisory Circular 70/7460-1:

Marking and lighting is not required for this structure.

RECOMMENDATIONS

This site was evaluated in accordance with the requirements specified by the FAA under Federal Aviation Rules part 77, and found not to be a hazard to air navigation.



Google Earth

© 2020 Google

ATTACHMENT 52

3000 ft

