STAFF APPROVAL LETTER

330-SA-2012

T-Mobile Ph30927 Fashion Square Antenna Modifications

STEP 1 STAFF APPROVAL NOTIFICATION

This letter is notification that your request has been conceptually approved by Current Planning Services staff.

Additional review and permits may be required. Refer to Final Plan Review Submittal Requirements below.

This approval expires one (1) year from date of approval if a permit has not been issued, or if no permit is required, work for which approval has been granted has not been completed.

PROJECT INFORMATION

LOCATION:	4500 N Scottsdale Rd	APPLICANT:	Declan Murphy
PARCEL:	173-37-004	COMPANY:	T-Mobile
Q.S.:	18-44	ADDRESS:	2520 E University Dr Ste 107 Tempe, AZ 85281
CODE VIOLATION #:		PHONE:	602-326-0111

Request: Replace and upgrade existing T-Mobile WCF antennas on Fashion Square Mall parking structure.

STIPULATIONS

1. Modification to the existing wireless communication facility shall be in conformance with the development plans submitted by Young Design Corp and T-Mobile with a date of September 11, 2012. Any changes to these plans shall be subject to subsequent reviews and approvals by the Current Planning Department.
2. All antennas and mounting hardware shall be painted to match the color of the parking structure.
3. If antenna mounting pipes are longer than the antennas, they shall be trimmed to match the height of the antennas.
4. Schedule a pre-construction meeting with Inspection Services by calling 480-312-5750.

Related Cases: 178-SD-1999

SIGNATURE: K. Niederer

Keith Niederer

DATE APPROVED: 10-15-12

STEP 2 FINAL PLAN REVIEW SUBMITTAL REQUIREMENTS

Submit one copy of this approval letter, and a completed Owner/Builder form if applicable, along with the following plan set(s) to the One-Stop-Shop for plan review:

ARCHITECTURAL: ☒ 4 sets of architectural plans and 1 additional site plan and elevation

T-Mobile - Fashion Square Antenna Modification

Type 1 or 2 WCF Staff Approval

Submittal Requirements

Project Name: PM30927 City Staff Contact: Niederer

Project Address: 4500 N. Scottsdale Rd.

Zoning: D/RCO2 A.P.N.: 173-37-003 Quarter Section: 18-44

Associated References: Project Number: 572 PA-12 Plan Check Number _____ Case(s) _____

Request: UPGRADE EQUIPMENT AT EXISTING T-MOBILE WCF

Is WCF located in the City right-of-way? ☐ Yes ☑ No If yes, Provider must apply for an Antenna Site Right-of-way License Agreement.

Owner Contact: SCOTT BURCHARD Applicant Contact: DECLAN MURPHY

Company: SCOTTSDALE FASHION SQUARE LLC Company: T-MOBILE

Phone: 775 829 6929 Fax: _____ Phone: 602-326 0111 Fax: 602 326 0111

E-mail: scott.burchard@macerich.com E-mail: dmurphy@coal-creek.com

Address: 7150 E CAMELBACK RD, SCOTTSDALE AZ Address: 2580 E UNIVERSITY DR, #107, TEMPE AZ

Submittal Requirements: Please submit 1 copy of materials requested below. All plans must be folded.

- ☑ Completed Application (this form) and Application Fee $ 460.00 (fee subject to change every July)
- ☑ Narrative describing the WCF request. This shall include efforts made to minimize the visual impact of the antennas and equipment cabinets.
- ☑ Site plan indicating extent and location of antenna additions, buildings and other structures, including all equipment cabinets. Site plan shall indicate dimensions of existing and proposed structures, dimensions of existing and proposed ROW, setbacks and sight distance visibility triangles. (2) 24" x 36" folded
- ☑ Elevation drawings of new additions, buildings, screening, poles or other changes. Colors and materials shall be noted. (2) 24" x 36" folded
- ☑ Site Photographs
- ☑ Photo simulations of proposed WCF. In ESL areas, include photosim from nearest single family lots.
- ☑ Owner authorization letter
- ☐ Property Owner Association Input
- ☑ Map of service area for proposed WCF
- ☑ Map showing other existing or planned WCF's that will be used by Provider making the application. (describe height, mounting style & number of antennas on WCF)
- ☑ FCC RF report verifying that at its maximum load, including cumulative effects of multiple facilities, the WCF meets or exceeds FCC radio frequency safety standards.
- ☑ Community Notification Documentation. Notify all property owners within 750 feet of site. Submit names and addresses of all properties that were notified, submit a copy of the letter that was sent and the date that letter was mailed. Letters shall be mailed at least 15 days prior to submittal.
- ☐ Landscape and irrigation plan indicating location, size, type and quantity of plant palette. (2) 24" x 36" folded.
- ☑ **Schedule a meeting with Keith Niederer 480-312-2953 when ready to submit this application.**
- ☐ Other: _____

Please Note: After staff review, it may be determined that this request requires approval by the Development Review Board through the public hearing process. If approved at staff level, this approval expires twelve (12) months from date of approval if a permit is required but has not been issued.

Applicant Signature _____ Date 10-10-12

Official Use Only:

Submittal Date: _____ City Staff Signature: _____

Planning, Neighborhood & Transportation Division

7447 E Indian School Road, Suite 105, Scottsdale, AZ 85251 • Phone: 480-312-7000 • Fax: 480-312-7800

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September 24th, 2012

Site: *PH30927*

Address: *4500 N Scottsdale Road, Scottsdale AZ 85251*

Parcel #: *173-37-003*

Property Owner: *Scottsdale Fashion Square LLC (7150 E Camelback Road, Scottsdale AZ 85251)*
By: Macerich Arizona Partners LLC
Its: Authorized Agent

Property Owner Signature: _____ Title: AVP Prop Mgmt Date: 10/8/12

Dear Sir or Madam,

This letter will serve as authorization for T-Mobile or its agents, solely for the purpose of making applications with local planning authorities to obtain zoning, building safety or other related approvals or permits that are necessary to install the proposed equipment on the property, with regards to T-Mobile Site PH30927 and for no other purpose. Please see the attached site plan/elevation with details of the proposed equipment upgrades dated 9/11/12

We do appreciate you assistance with this matter

Sincerely,

Declan Murphy

Declan Murphy
Coal Creek for T-Mobile
2520 E University Drive, Suite 107
Tempe AZ 85281
Tel: (602) 326-0111
Email: dmurphy@coal-creek.com

Request for Site Visits and/or Inspections
Development Application

This request concerns all property identified in the development application.

Pre-application No: 572 - PA - 12

Project Name: PH30927

Project Address: 4500 N Scottsdale Road

STATEMENT OF AUTHORITY:

1. I am the owner of the property, or I am the duly and lawfully appointed agent of the property and have the authority from the owner to sign this request on the owner's behalf. If the land has more than one owner, then I am the agent for all owners, and the word "owner" refer to them all.

2. I have the authority from the owner to act for the owner before the City of Scottsdale regarding any and all development application regulatory or related matter of every description involving all property identified in the development application.

STATEMENT OF REQUEST FOR SITE VISITS AND/OR INSPECTIONS

1. I hereby request that the City of Scottsdale's staff conduct site visits and/or inspections of the property identified in the development application in order to efficiently process the application.

2. I understand that even though I have requested the City of Scottsdale's staff conduct site visits and/or inspections, city staff may determine that a site visit and/or an inspection is not necessary, and may opt not to perform the site visit and/or an inspection.

Property owner/Property owners agent: STEVEN B HELM

Print Name

Steven B Helm 10/8/12

Signature

City Use Only:	
Submittal Date:	Case number:

Planning, Neighborhood & Transportation Division
7447 E Indian School Road, Suite 105, Scottsdale, AZ 85251 ♦ Phone: 480-312-7000 ♦ Fax: 480-312-7088

Project Narrative

This document will be uploaded to a Case Fact Sheet on the City's web site.

Date: _____ Project No.: 572-PA-12

Coordinator: _____ Case No.: ____-___-____

Project Name: T-Mobile PH30927 Fashion Square

Project Location: 4500 N Scottsdale Road (Fashion Square)

Property Details:

☐ Single-Family Residentail ☐ Multi-Family Residential ☐ Commercial ☐ Industrial

Current Zoning: D/RC02 Proposed Zoning: D/RCO-2

Number of Buildings: N/A Parcel Size: 869,235

Gross Floor Area/Total Units: N/A Floor Area Ratio/Density: N/A

Parking Required: Utilize Existing Parking Parking Provided: Utilize Existing Parking

Setbacks: N - Aprx 30ft S - Aprx 950ft E - Aprx 490ft W - Aprx 700

Description of Request:

T-Mobile is committed to improving coverage areas and expanding network capacity to meet customer demand in the City of Scottsdale. The Existing WCF located at 4500 N Scottsdale Road, provides residents, visitors and businesses with improved high quality reliable wireless service for both personal & business, in addition to enhancing emergency services. This application is a request to allow improvements to the existing WCF in an effort to eliminate any GAP in T-Mobile service.

T-Mobile is proposing to make the following equipment improvements to T-Mobile Site PH30927, as depicted in the attached Site Plan/Elevations. T-Mobile will paint all new equipment to match existing Parking Structure

The existing WCF does not contribute to any increase in vehicular traffic in the area, does not require any water, or solid waste services. There are no negatives to the existence of this WCF operating at the current location.
One vehicle may access the wireless communication facility approximately once or twice a month, or in the event of a technical breakdown. This vehicle will use the existing access and parking at the site.

Please do not hesitate to contact me for any additional information or clarification

Declan Murphy
T-Mobile / AZ Project
Tel: (602) 326-0111

PH30927 – Scottsdale Fashion Square

4500 N Scottsdale Road, Scottsdale AZ

Before

After

Simulation Only

T··Mobile·

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Existing T-Mobile MonoPole WCF PH30927
4500 N Scottsdale Road
APN 173-37-003

Purpose of Request

T-Mobile is committed to improving coverage and expanding network capacity to meet customer demand in the vicinity of Scottsdale Fashion Square Mall. The Existing WCF located on the NE Parking Structure - 4500 N Scottsdale Road, provides residents, visitors and businesses with improved high quality reliable wireless service for both personal & business, in addition to enhancing emergency services. This application is a request to allow improvements to the existing WCF in an effort to eliminate any GAP in T-Mobile service.

Details of Request

T-Mobile is proposing to make the following equipment improvements to T-Mobile Site PH30927, as depicted in the attached Site Plan/Elevations.

The existing WCF does not contribute to any increase in vehicular traffic in the area, does not require any water, or solid waste services. There are no negatives to the existence of this WCF operating at the current location.

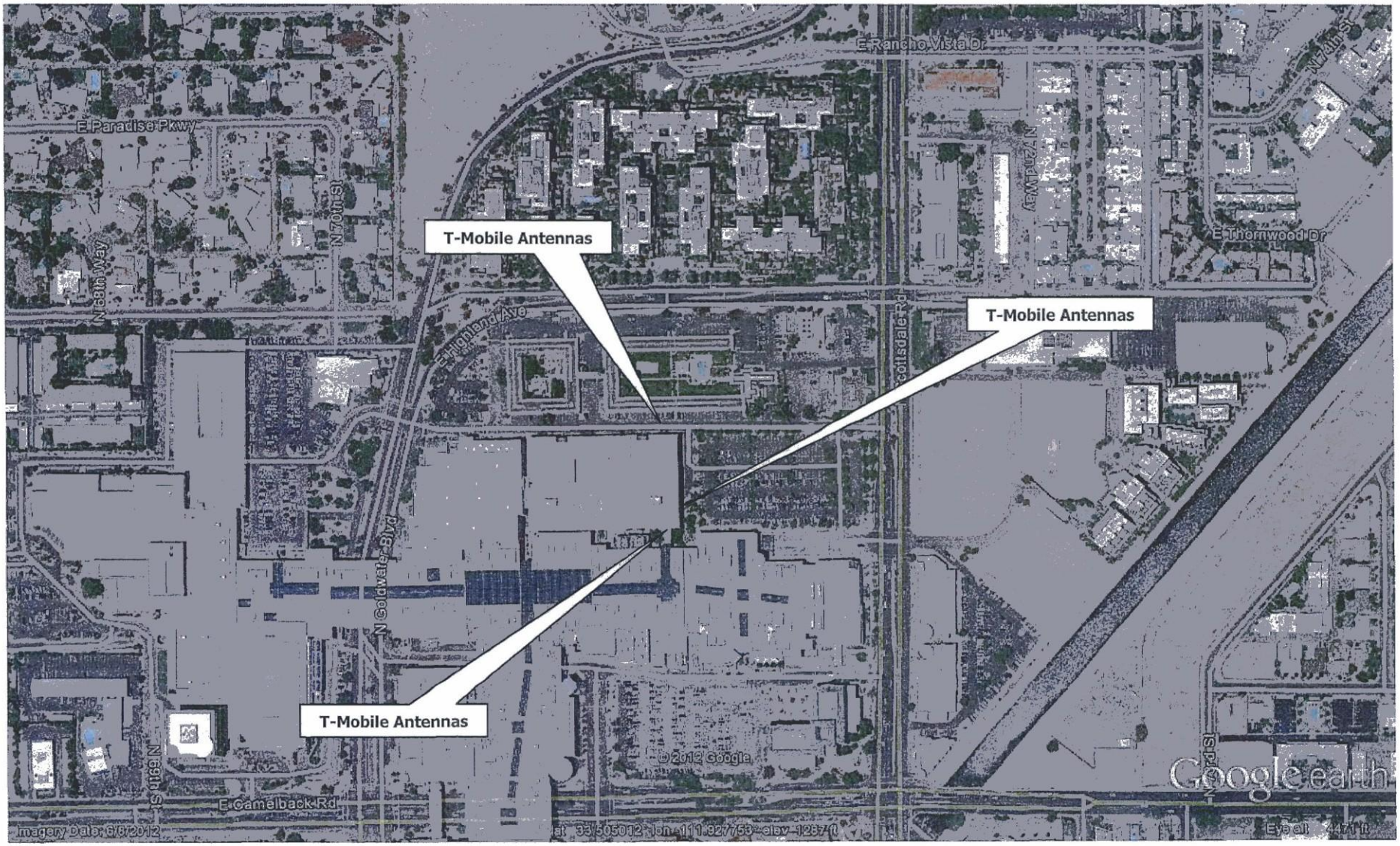
One vehicle may access the wireless communication facility approximately once or twice a month, or in the event of a technical breakdown. This vehicle will use the existing access and parking at the site.

Please do not hesitate to contact me for any additional information or clarification.

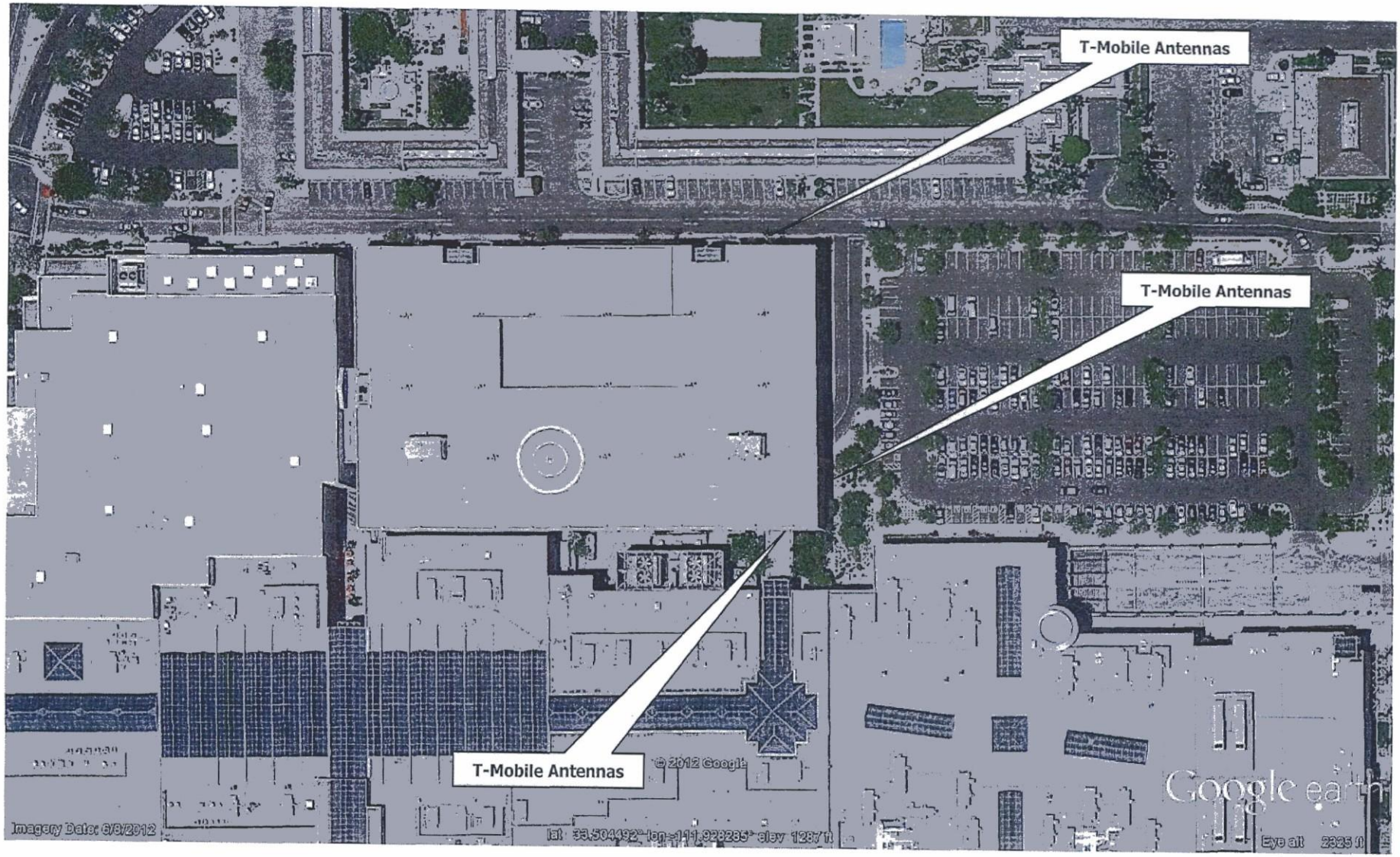
Sincerely,

Declan Murphy
Coal Creek for T-Mobile
2520 E University Drive, Suite 107
Tempe AZ 85281
Tel: (602) 326-0111
Email: dmurphy@coal-creek.com

4500 N Scottsdale Road
Parcel 173-37-003



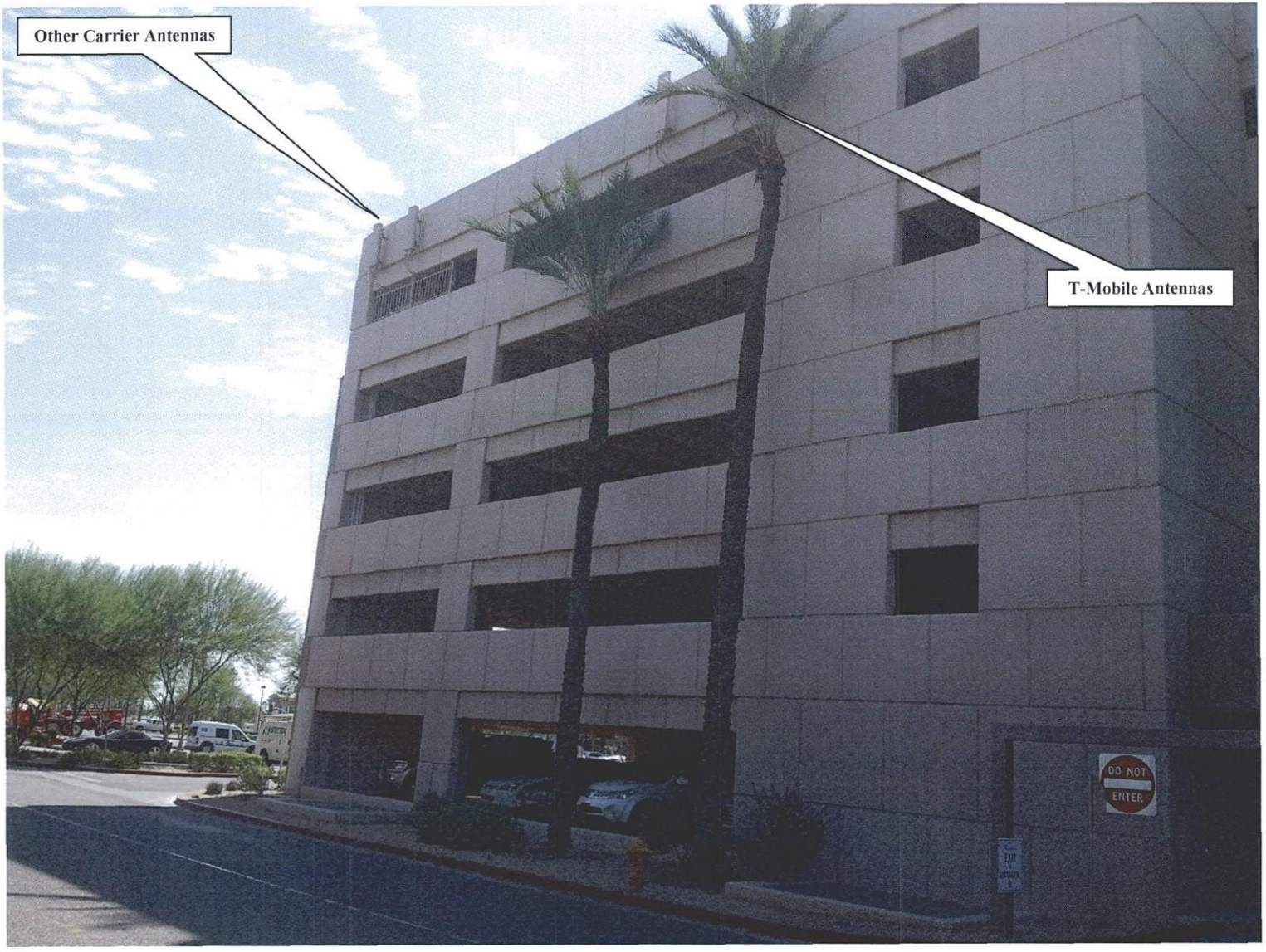
4500 N Scottsdale Road
Parcel 173-37-003



T··Mobile·

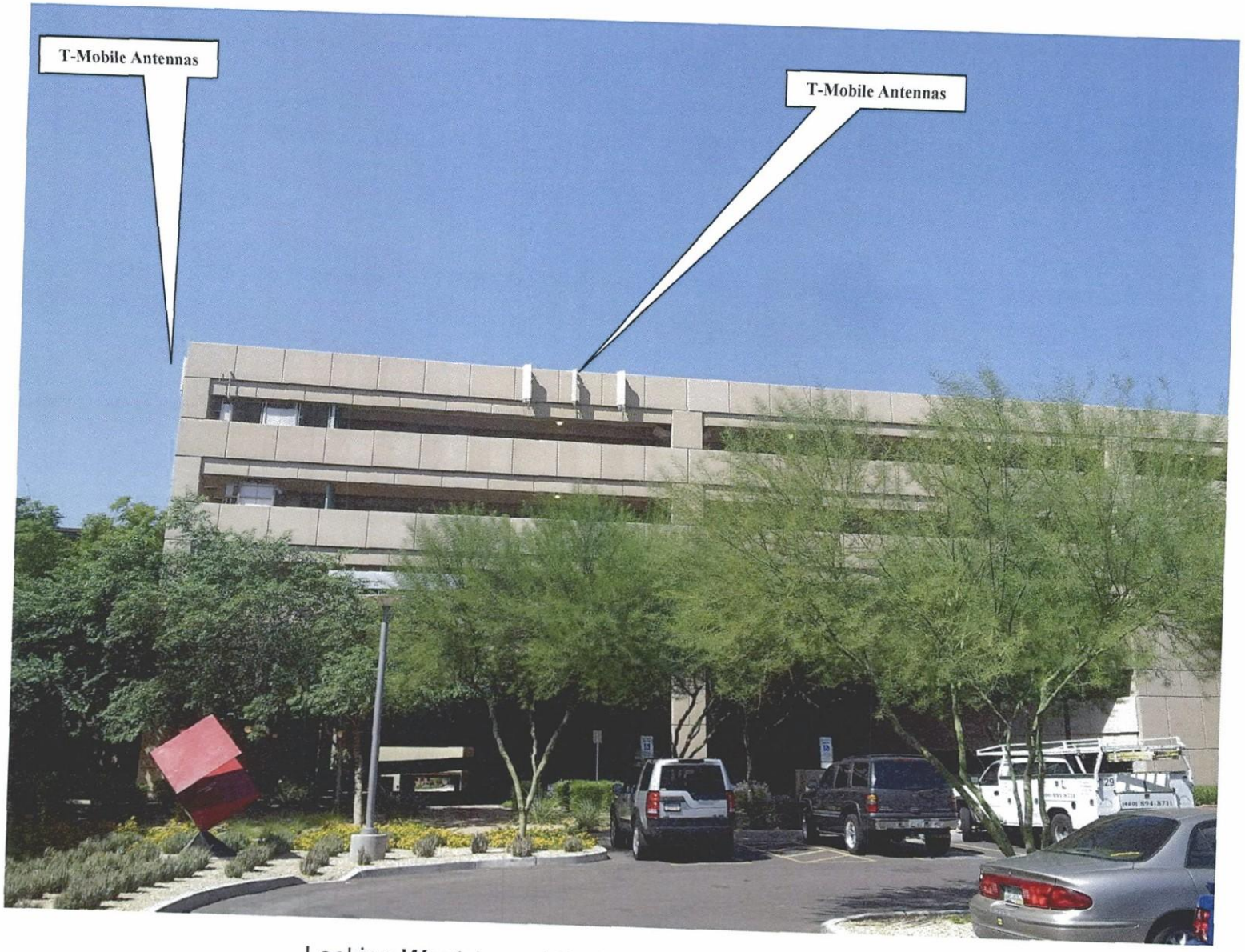
Looking ***West*** toward Scottsdale Fashion Square Site

T··Mobile·



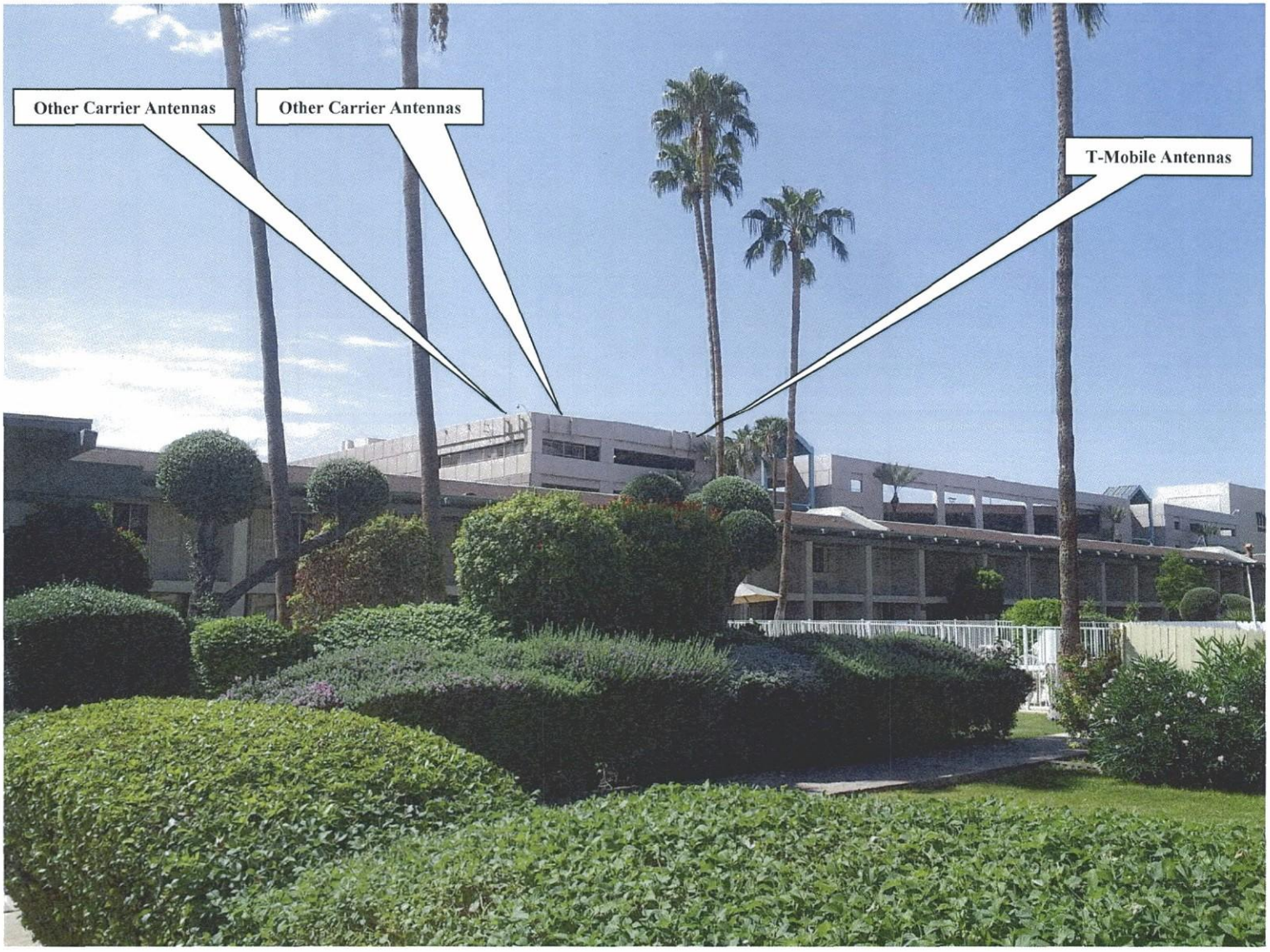
Looking ***S East*** toward Scottsdale Fashion Square Site

T··Mobile·



Looking ***West*** toward Scottsdale Fashion Square Site

T··Mobile·



Looking **S *West*** toward Scottsdale Fashion Square Site

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Neighborhood Notification

Existing T-Mobile WCF
4500 N Scottsdale Road Scottsdale AZ

The attached notification material was mailed to the Optima HOA, with regards to the proposed upgrades to T-Mobile Site # PH30927

To date, we have not received any response

Sincerely,

Declan Murphy
T-Mobile/AZ Project
2520 E University Drive, #107
Tempe AZ 85281
(602) 326 0111
dmurphy@coal-creek.com

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Community Notification

September 26th 2012

Dear Neighbor:

This letter is regarding the existing T-Mobile Wireless Communication Facility (WCF) at 4500 N Scottsdale Road, which is located on the NE Parking Structure at Scottsdale Fashion Square (please see attached aerial)

T-Mobile intends to submit an application to the City of Scottsdale, requesting approval to upgrade equipment at the subject WCF

The proposed equipment upgrades will not be apparent to the surrounding neighbors, but the City of Scottsdale requires neighor notification as part of the planning application process

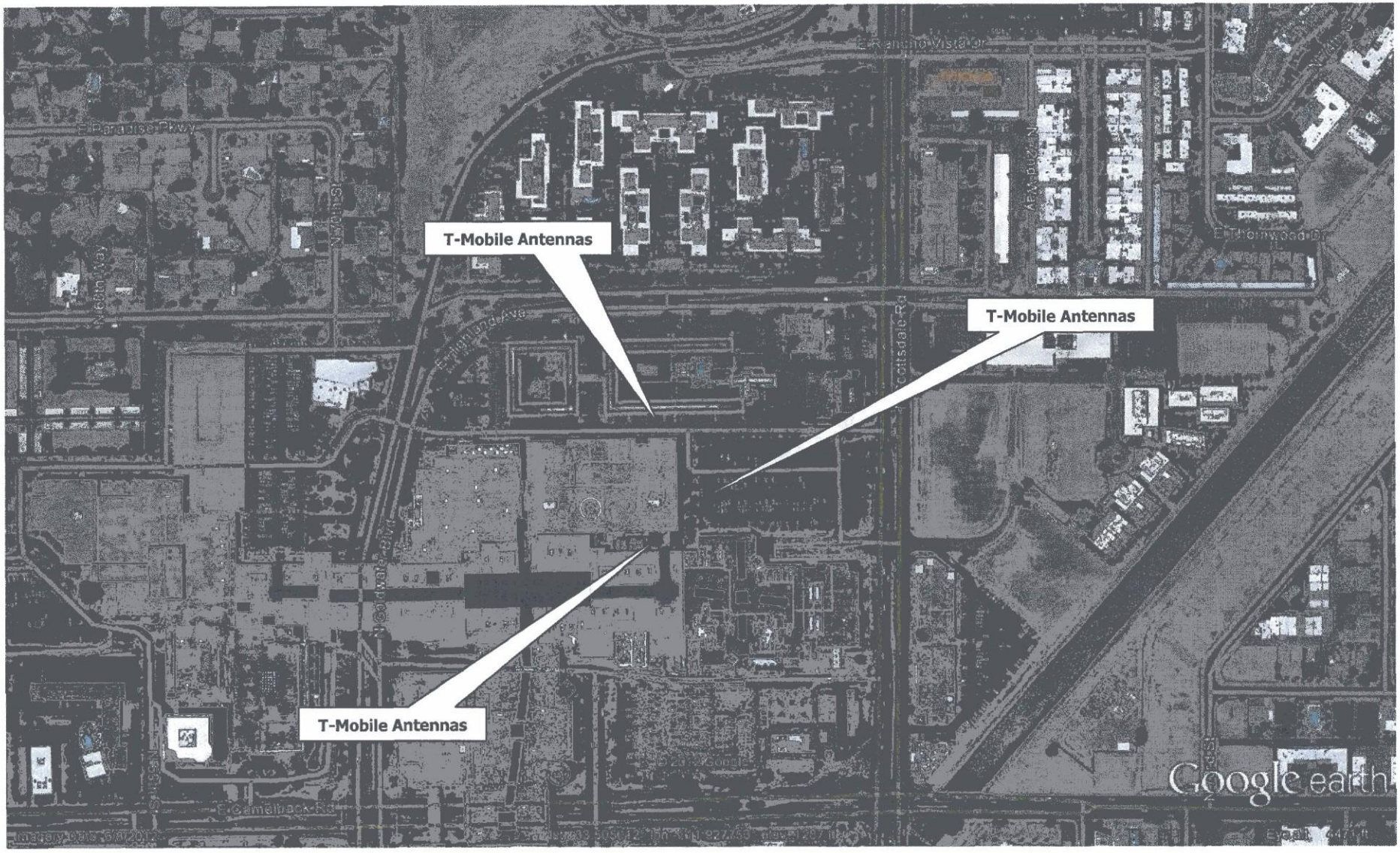
If you have any questions or comments regarding this process, please feel free to contact me anytime at (602) 326-0111 or dmurphy@coal-creek.com.

Alternatively, please contact Keith Niederer Senior Planner City of Scottsdale (480) 312-2953 or KNiederer@Scottsdaleaz.gov

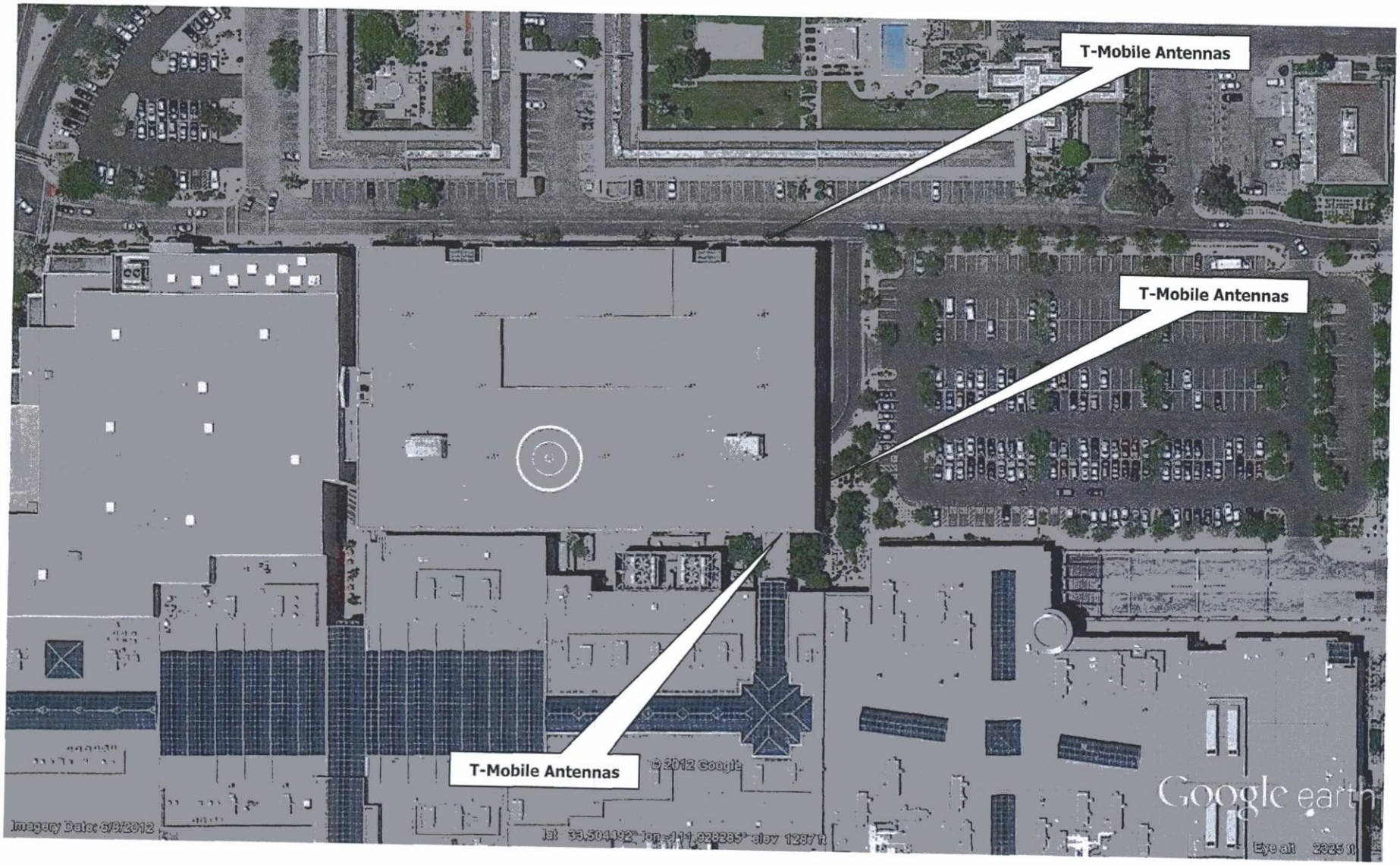
Sincerely,

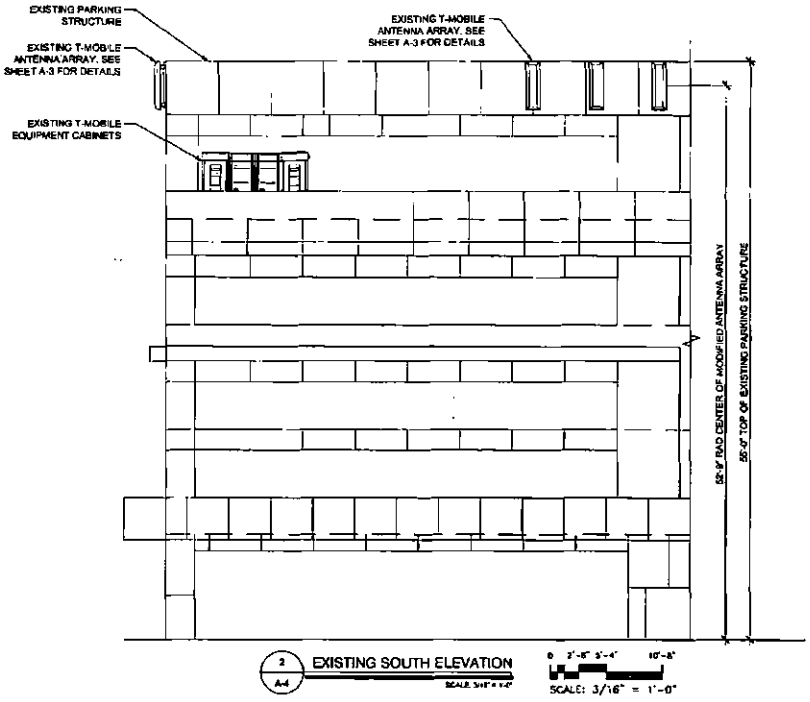
Declan Murphy
T-Mobile AZ Modernization Project
2520 E University Drive, #107
Tempe AZ 85281
(602) 326 0111
dmurphy@coal-creek.com

4500 N Scottsdale Road
Parcel 173-37-003



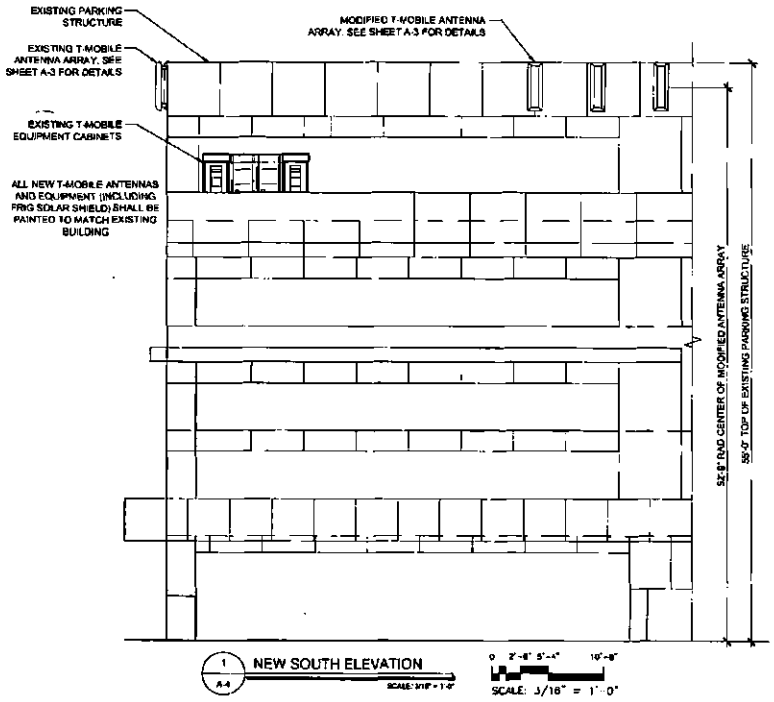
4500 N Scottsdale Road
Parcel 173-37-003





2 A-4 EXISTING SOUTH ELEVATION

SCALE: 3/16" = 1'-0"



1 A-4 NEW SOUTH ELEVATION

SCALE: 3/16" = 1'-0"

CLIENT

T··Mobile·

2575 S. PLAZA DR. #400, TEMPE, ARIZONA, 85282
PHONE: (480) 638-2600 FAX: (480) 638-2652

PLANS PREPARED BY

young design corp
architecture / project management
10249 E. Via Linda, Scottsdale, AZ 85258
ph: 480 451 9608 fax: 480 451 9608

SEAL

NO.	DATE	DESCRIPTION
1	08/17/12	REVIEW
2	9/11/12	SUBMITTAL

ARCHITECT'S JOB NO.
YDC-3997

PROJECT INFORMATION

PH30927G

SCOTTSDALE FASHION SQUARE

4500 N. SCOTTSDALE RD
SCOTTSDALE, AZ 85251

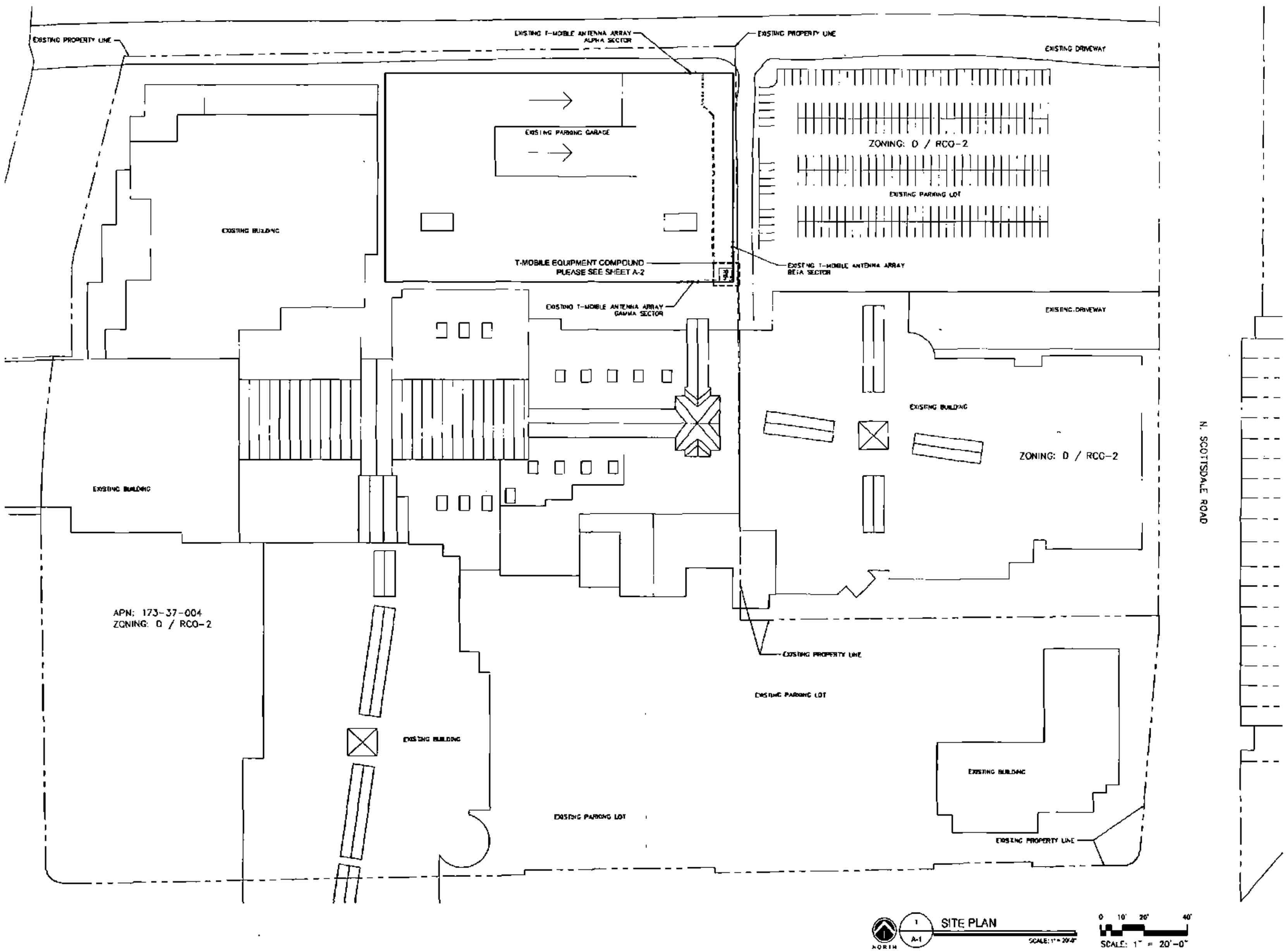
SHEET TITLE

ELEVATIONS

JURISDICTION APPROVAL

SHEET NUMBER

A-4



CLIENT

T · · Mobile ·

2625 S. PLAZA DR. #400, TEMPE, ARIZONA 85282
PHONE: (480) 638-2600 FAX: (480) 638-2852

PLANS PREPARED BY

young design corp

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

SEAL

RONALD C. YOUNG

NO.	DATE	DESCRIPTION
1	08/17/12	REVIEW
2	9/11/12	SUBMITTAL

ARCHITECTS JOB NO.
YDC-3997

PROJECT INFORMATION

PH30927G

SCOTTSDALE FASHION SQUARE

4500 N SCOTTSDALE RD
SCOTTSDALE, AZ 85251

SHEET TITLE

SITE PLAN

JURISDICTION APPROVAL

SHEET NUMBER

A-1

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FCC NEPA Compliance study for T-Mobile Site PH30927G
Scottsdale Fashion Square

Site number: **PH30927G**
Site name: **Scottsdale Fashion Square**
NAD 83: **N33° 30' 14.9" / W111° 55' 40.29"**

Introduction.

A substantial amount of scientific research conducted all over the world over many years demonstrates that radio signals within established safety levels emitted from mobile telephones and their base stations present no adverse effects to human health.
There exist national and international safety guidelines for exposure of the public to radio waves:

• *International Commision on Non- Ionizing Radiation Protection (ICNIRP): Guidelines for limiting exposure to time varying electric, magnetic and electromagnetic fields. Health Physics 1998 74(4): 494-522.*

• *Institute of Electrical and Electronics Engineers (IEEE): IEEE Standard for safety levels with respect to human exposure to radio frequency electromagnetic fields, 3 kHz to 300 GHz. IEEE C95.1-1991 (revision of ANSI C95.1-1982) New York 1992.*

• *CENELEC: Human exposure to electromagnetic fields. High frequency (10 kHz to 300 GHz). European prestandard ENV 50166-2, Brussels 1995.*

The most widely accepted standards are those developed by the International Commission on Non-Ionizing Radiation Protection (ICNIRP) and Institute of Electrical and Electronics Engineers (IEEE). Nokia Base Stations must be installed according to instructions specified by Nokia, as well as taking any country-specific regulations for Non-Ionizing radiation protection into account.

FCC Guidelines for Evaluating Exposure to RF Emissions

In 1985, the FCC first adopted guidelines to be used for evaluating human exposure to RF emissions. The FCC revised and updated these guidelines on August 1, 1996, as a result of a rule-making proceeding initiated in 1993. The new guidelines incorporate limits for Maximum Permissible Exposure (MPE) in terms of electric and magnetic field strength and power density for transmitters operating at frequencies between 300 kHz and 100 GHz. Limits are also specified

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for localized ("partial body") absorption that are used primarily for evaluating exposure due to transmitting devices such as hand-held portable telephones.

Implementation of the new guidelines for mobile and portable devices became effective August 7, 1996.

The FCC's MPE limits are based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) 6 and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines.7 Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

Definitions.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure.

Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

The FCC's limits, and the NCRP and ANSI/IEEE limits on which they are based, are derived from exposure criteria quantified in terms of specific absorption rate (SAR). The basis for these limits is a whole-body averaged SAR threshold level of 4 watts per kilogram (4 W/kg), as averaged over the entire mass of the body, above which expert organizations have determined that potentially hazardous exposures may occur. The new MPE limits are derived by incorporating safety factors that lead, in some cases, to limits that are more conservative than the limits originally adopted by the FCC in 1985. Where more conservative limits exist they do not arise from a fundamental change in the RF safety criteria for whole-body averaged SAR, but from a precautionary desire to protect subgroups of the general population who, potentially, may be more at risk.

Tower-mounted ("non-rooftop") antennas that are used for PCS telephone warrant a somewhat different approach for evaluation. While there is no evidence that typical installations in these services cause groundlevel exposures in excess of the MPE limits, construction of these towers has been a topic of ongoing public controversy on environmental grounds, and we believe it necessary to ensure that there is no likelihood of excessive exposures from these antennas.

Although we believe there is no need to require routine evaluation of towers where antennas are mounted high above the ground, out of an abundance of caution the FCC requires that tower-mounted installations be evaluated if antennas are mounted lower than 10 meters above ground and the total power of all channels being used is over 1000 watts effective radiated power (ERP), or 2000 W ERP for broadband PCS.

These height and power combinations were chosen as thresholds recognizing that a theoretically "worst case" site could use many channels and several thousand watts of power. At such power levels a height of 10 meters above ground is not an unreasonable distance for which an evaluation generally would be advisable.

For antennas mounted higher than 10 meters, measurement data for cellular facilities have indicated that ground-level power densities are typically hundreds to thousands of times below the new MPE limits.

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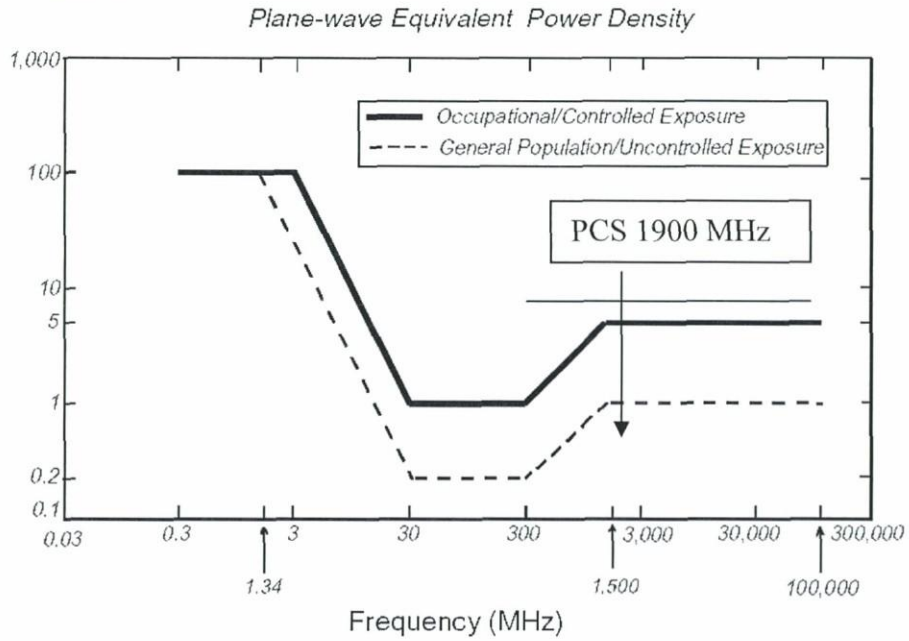
General population/uncontrolled exposures apply in situations in which the general Public may be exposed, or in which persons that are exposed as a consequence of their Employment may not be fully aware of the potential for exposure or can not exercise control over Their exposure.

Figure 1. FCC Limits for Maximum Permissible Exposure (MPE)



Limits for General Population/Uncontrolled exposure:
-0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube).

Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube).

General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure.

(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

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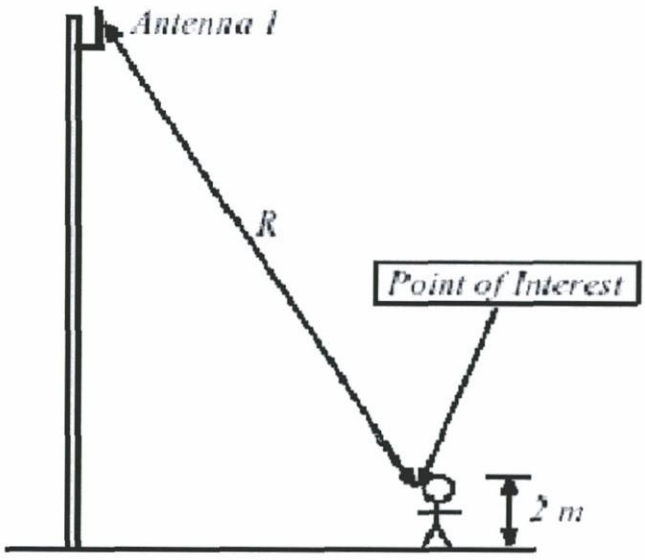
Calculation.

Compliance with SAR limits can be demonstrated by laboratory measurement techniques or by computational modeling, as appropriate. Methodologies and references for SAR evaluation are described in technical publications including "IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave," IEEE C95.3-1991, and further guidance on measurement and computational protocols is being developed by the IEEE and others.
For T-Mobile site **PH30927G the** field situation can be described by the Drawing #1.



Near-Field Region.

In the near-field, or Fresnel region, of the main beam, the power density can reach a maximum before it begins to decrease with distance. The extent of the near-field can be described by the following equation (1) having **D** and λ in same units:

$$R_{nf} = \frac{D^2}{4\lambda} \qquad (1)$$

where: Rnf = extent of near-field
D = maximum dimension of antenna (diameter if circular)
λ = wavelength

Therefore,

Value	ft
λ =	0.518
D =	5.5
R nf =	**14.6**

(2)

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For sector-type antennas, power densities can be estimated by dividing the net input power by that portion of a cylindrical surface area corresponding to the angular beam width of the antenna. Mathematically, this can be represented by Equation (3) in which the angular beam width, θ _BW, can be taken as the appropriate azimuthal "power dispersion" angle for a given reflector.

$$S = \left(\frac{180}{\theta_{BW}}\right)\frac{P_{net}}{\pi Rh} \qquad (3)$$

where:

S = power density
Pnet = net power input to the antenna
θ_BW = beam width of the antenna in degrees
R = distance from the antenna
h = aperture height of the antenna

For example, for the case of a 60-degree azimuthal beam width, the surface area should correspond to 1/6 that of a full cylinder. This would increase the power density near the antenna by a factor of three over that for a purely omni-directional antenna. For example, a conservative estimate could be obtained by using the 3 dB (half-power) azimuthal beam width for a given sectorized antenna. Equation (3) can be used for any vertical collinear antenna, even omni-directional ones.

In case of T-Mobile site **PH30927G**, antennas will be installed at 50ft+/- above ground level or approx. 1524 cm. This distance is more than three times the near field space calculated in table (2). Antenna aperture (vertical dimension) is 5.5 ft or 170 cm. Therefore, the formula (3) returns:

Pnet =	28000	mWatt
θ _BW =	50	3dB degree
R =	1524	cm
h =	170	cm
MPE=	**0.124**	mW/cm^2
Exposure limit=	**1.00**	mW/cm^2

(4)

Fig.1

The results of the analysis indicate that the actual exposure received by an individual standing for 30 minutes at the base of T-Mobile facility will be only 7.5% of the Maximum Permissible Exposure. In order to reach the limit of maximum exposure, an individual must stay strictly at the base of T-Mobile tower for 6.51 continuous hours, which is very unlikely to occur.

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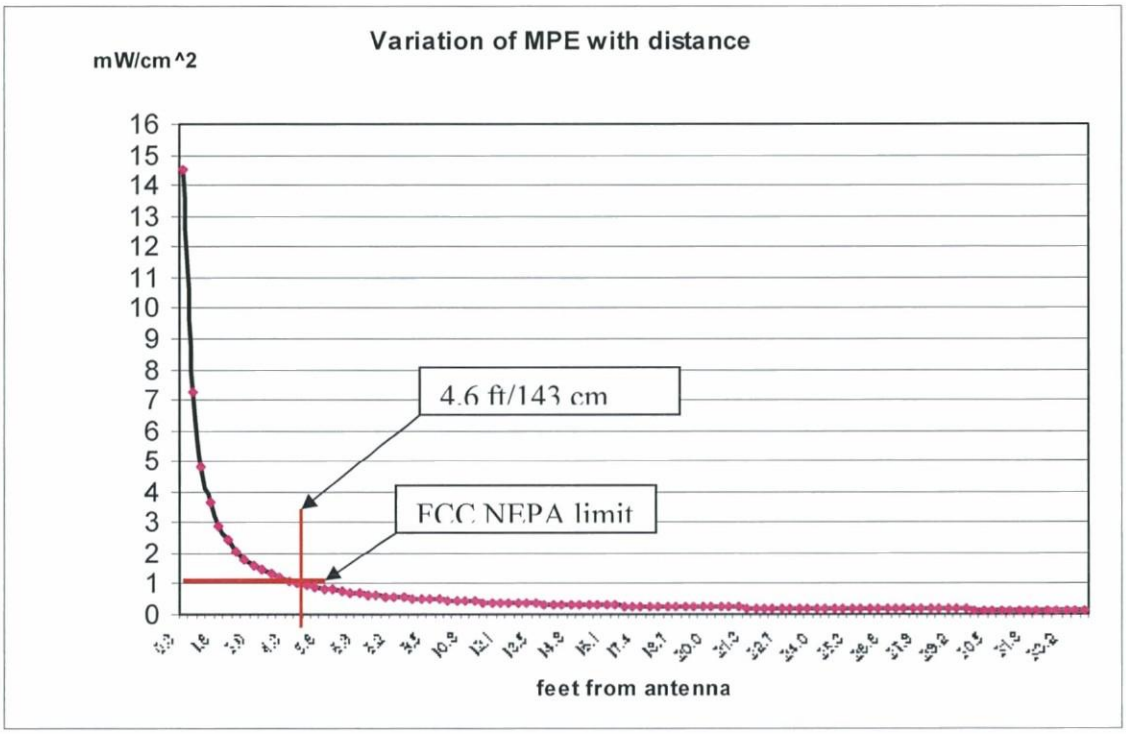
Conclusion.

Based on equation (3) the results are plotted to the following graph (5) and will indicate how close to a T-Mobile one sector antenna should be one person placed for more than 30 minutes in order to receive an electromagnetic exposure grater than the MPE specified by FCC rules.



General Population/uncontrolled exposure limits are specified by FCC at a value of 1 mW/cm^2. In order to exceed the above limit one person should be placed closer than 4.7 ft (or 145 cm) in front of the antenna. This situation is very unlikely to occur since T-Mobile antennas are mounted (in case of site **PH30927G**) more than 60ft above ground level.

Study performed as of today, October 4th, 2012

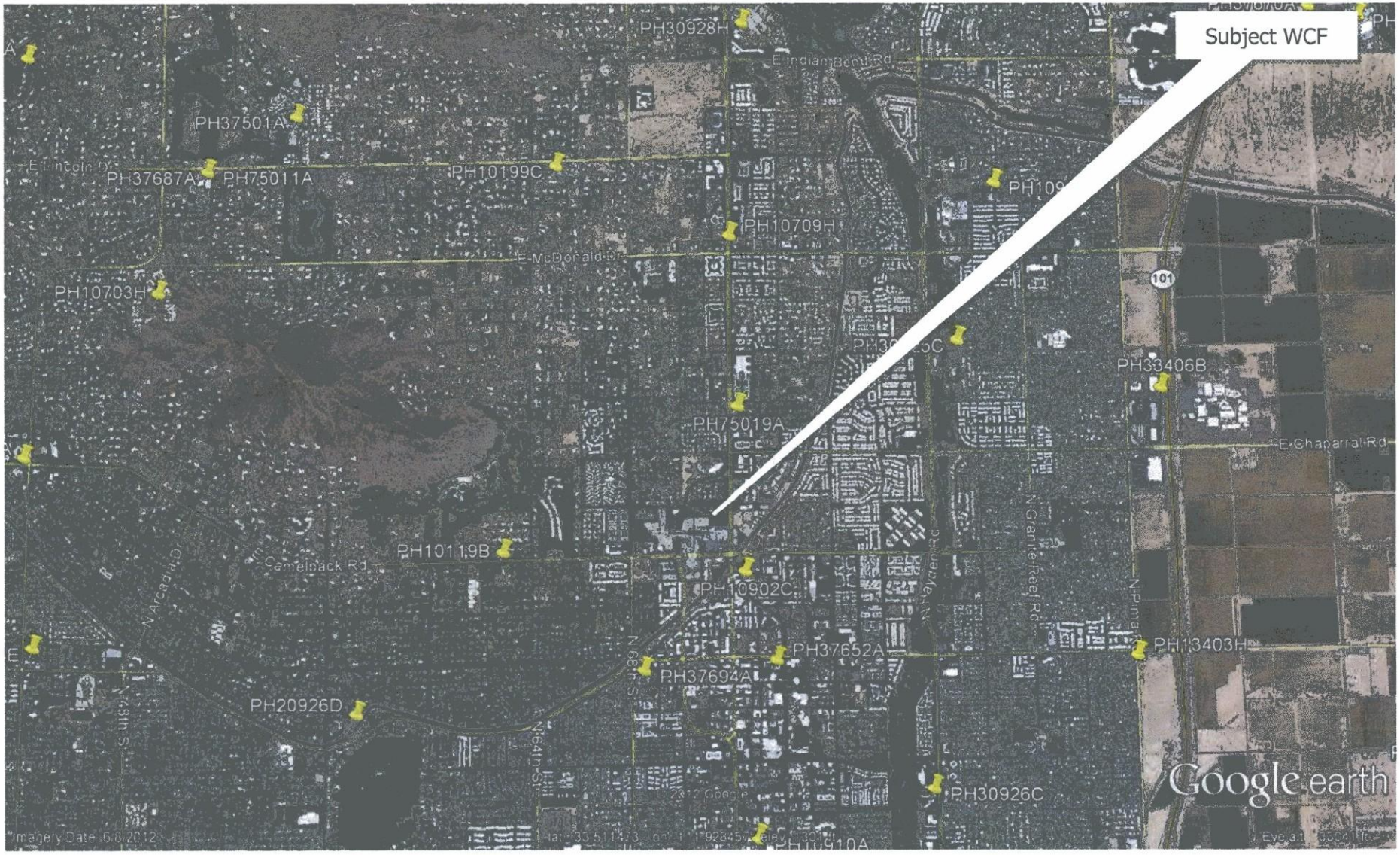
RF Engineer: Gurpreet Singh

Verified by: Nicholes, Vincent

RF Manager: Chris Donnelly.

T-Mobile Site PH30927

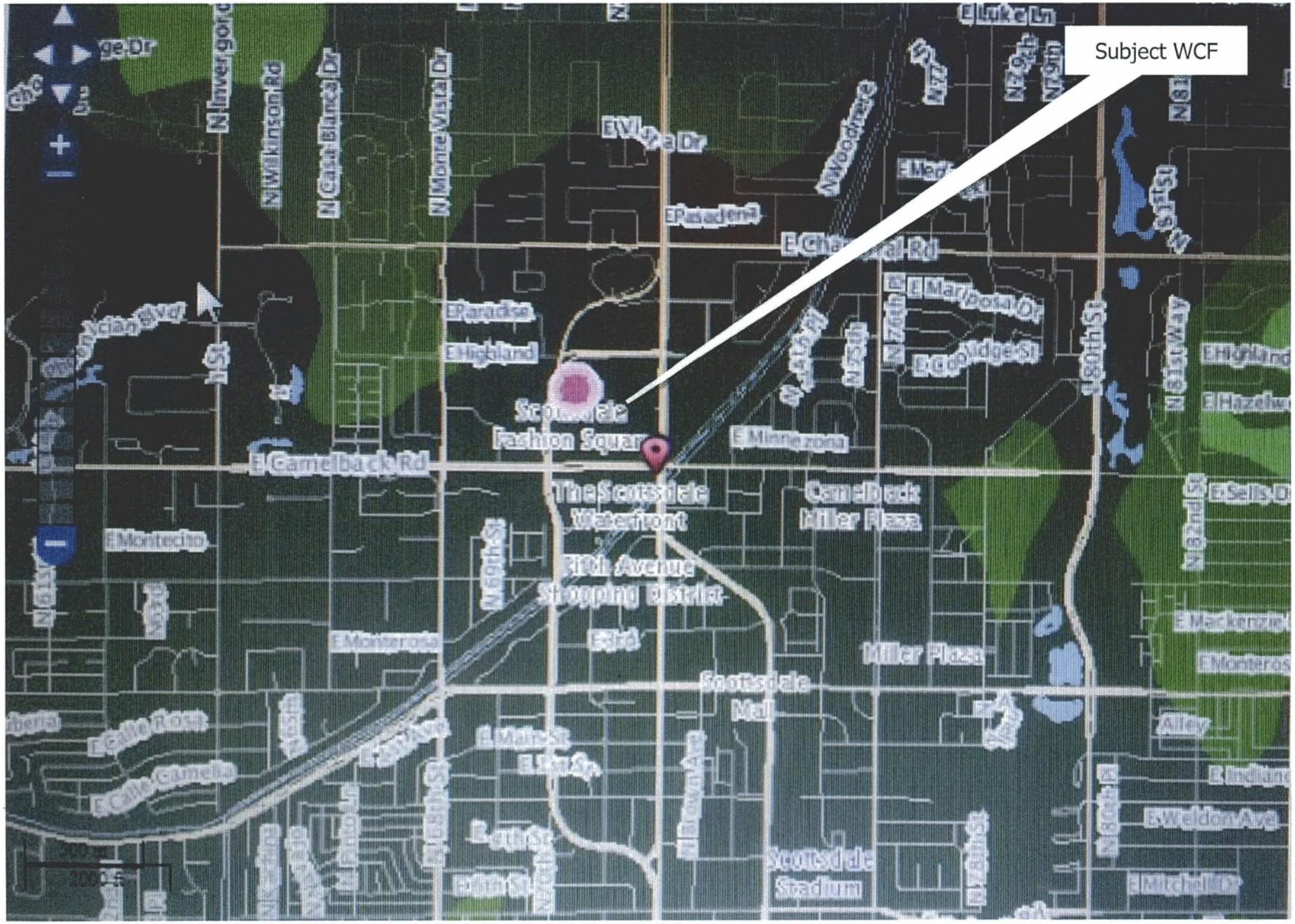
Map Showing Existing or Planned WCF's



T-Mobile Site PH30927

Map of Service Area

Darker Green Represents Stronger 3G/4G Signal



City of Scottsdale Cash Transmittal

91075

Received From :
T-MOBILE
2520 E UNIVERSITY DR STE 107
TEMPE, AZ 85281
602-326-0111

Bill To :
T-MOBILE
2520 E UNIVERSITY DR STE 107
TEMPE, AZ 85281
602-326-0111

Reference #	572-PA-2012			**Issued Date**	9/12/2012
Address	4500 N SCOTTSDALE RD			**Paid Date**	9/12/2012
Subdivision	PROPERTY DIVISION			**Payment Type**	CREDIT CARD
Marketing Name		**Lot Number**	2	**Cost Center**	
MCR	1000-42	**County**	No	**Metes/Bounds**	No
APN	173-37-004	**Gross Lot Area**	0	**Water Zone**	
Owner Information		**NAOS Lot Area**	0	**Water Type**	
SCOTTSDALE FASHION SQUARE LLC		**Net Lot Area**		**Sewer Type**	
2235 FARADAY AVE		**Number of Units**	1	**Meter Size**	
CARLSBAD, CA 92008		**Density**		**QS**	18-44
480-990-7800					

Code	Description	Additional	Qty	Amount	Account Number
3166	STAFF APPROVAL (MINOR-CASE)		1	$87.00	100-21300-44221

Total Amount **$87.00**

SIGNED BY DECLAN MURPHY ON 9/12/2012

(When a credit card is used as payment I agree to pay the above total amount according to the Card Issuer Agreement.)

TO HAVE WATER METER SET - CALL 480-312-5650 AND REFER TO TRANSMITTAL # 91075

CT91075

Project Pre-Application Questionnaire

The purpose of the Pre-Application process and this questionnaire is to provide preliminary information to the City's Planning Department on your proposed development project. This information and a Pre-Application meeting facilitate discussion on the development review process and related issues most likely applicable to your development project.

Pre-Application Process

Most development proposals are required to go through one or more application and/or entitlement processes, some of which involve public hearings. To process your pre-application and to enable your meeting to be productive, the attached forms and all required materials must be provided. At the pre-application meeting, city staff will highlight areas where you may need to pay particular attention, and which, if any, public hearing process(es) you will be required to go through. More information can be found at *www.scottsdaleaz.gov/BldgResources/DevProcess*

Completed pre-application application forms, all required materials and fees should be submitted in person to the One-Stop-Shop located at 7447 E. Indian School Road. Make checks payable to "City of Scottsdale."

After the pre-application packet has been accepted, the request is routed for assignment and scheduling. A staff member will contact you to schedule a pre-application meeting with staff.

Submittal Date: 9/12/12 **Project No.:** 572 **-PA-** 2012

Project Name: T-Mobile PH30927 Fashion Square **Parcel No(s).:** 173-37-003

Address: 4500 N Scottsdale Road, Scottsdale AZ **Quarter Section(s):** 18-44

Property Details:

☐ Single-Family Residential ☐ Multi-Family Residential ☑ Commercial ☐ Industrial ☐ Other

Lot Size: 869,235 **Current Zoning:** D/RC02 **Current Use(s):** Shopping Mall

Has a 'Notice of Compliance' been issued? ☑ No ☐ Yes If yes, provide a copy with this submittal

Application Type:

☐ Abandonment (AB)	☐ In-Lieu Parking Request (IP)	☐ Rezoning (ZN)
☐ Development Review (DR)	☐ Master Plan (MP)	☐ Text Amendment (TA)
☐ ESLO Hardship Exemption (HE)	☐ Master Sign Program (MS)	☐ Use Permit (UP)
☐ ESLO Wash Modification (WM)	☐ Notice of Compliance	☐ Variance (BA)
☐ General Plan Amendment (GP)	☐ Preliminary Plat Subdivision (PP)	☑ Other SA.

Owner: Scottsdale Fashion Square LLC **Applicant:** Declan Murphy

Company: Scottsdale Fashion Square LLC Company: T-Mobile

Address: 2235 Faraday Ave Ste0 Carlsbad CA 92008 Address: 2520 E University Dr, #107, Tempe AZ

Phone: 775 829 6929 Fax: 310 773 1131 Phone: 602 326 0111 Fax: 602 326 0111

E-mail: scott.burchard@macerich.com E-mail: dmurphy@coal-creek.com

Signature (*circle one*): Owner Applicant **Date** 9-12-12

Planning, Neighborhood & Transportation Division
7447 E Indian School Road Ste 105, Scottsdale, AZ 85251 • Phone: 480-312-7000 • Fax: 480-312-7088

Project Narrative

This document will be uploaded to a Case Fact Sheet on the City's web site.

Date: _____ Project No.: ____ - PA - ____

Coordinator: _____ Case No.: ____ - ____ - ____

Project Name: T-Mobile PH30927 Fashion Square

Project Location: 4500 N Scottsdale Road (Fashion Square)

Property Details:

☐ Single-Family Residentail ☐ Multi-Family Residential ☐ Commercial ☐ Industrial

Current Zoning: D/RC02 Proposed Zoning: D/RCO-2

Number of Buildings: N/A Parcel Size: 869,235

Gross Floor Area/Total Units: N/A Floor Area Ratio/Density: N/A

Parking Required: Utilize Existing Parking Parking Provided: Utilize Existing Parking

Setbacks: N - Aprx 30ft S - Aprx 950ft E - Aprx 490ft W - Aprx 700

Description of Request:

T-Mobile is committed to improving coverage areas and expanding network capacity to meet customer demand in the City of Scottsdale. The Existing WCF located at 4500 N Scottsdale Road, provides residents, visitors and businesses with improved high quality reliable wireless service for both personal & business, in addition to enhancing emergency services. This application is a request to allow improvements to the existing WCF in an effort to eliminate any GAP in T-Mobile service.

T-Mobile is proposing to make the following equipment improvements to T-Mobile Site PH30927, as depicted in the attached Site Plan/Elevations. T-Mobile will paint all new equipment to match existing Parking Structure

The existing WCF does not contribute to any increase in vehicular traffic in the area, does not require any water, or solid waste services. There are no negatives to the existence of this WCF operating at the current location.
One vehicle may access the wireless communication facility approximately once or twice a month, or in the event of a technical breakdown. This vehicle will use the existing access and parking at the site.

Please do not hesitate to contact me for any additional information or clarification

Declan Murphy
T-Mobile / AZ Project
Tel: (602) 326-0111

T-Mobile®

SITE #: PH30927G
SITE NAME: SCOTTSDALE FASHION SQUARE
CITY: SCOTTSDALE
STATE: AZ
COUNTY: MARICOPA
DESIGN TYPE: BUILDING MOUNT

PROJECT INFORMATION

ADDRESS
4500 N SCOTTSDALE RD
SCOTTSDALE, AZ 85251

LANDLORD
SCOTTSDALE FASHION SQUARE LLC
P.O. BOX 847
CARLSBAD, CA, 92018
CONTACT: THOMSON REUTERS

JURISDICTION
CITY OF SCOTTSDALE

LAND DESCRIPTION OF SUBJECT PARCEL
ZONING: D/RCO-2
APN#: 173-37-003

PROJECT OWNER
T-MOBILE WEST CORP.
2625 S. PLAZA DRIVE, #400
TEMPE, ARIZONA, 85282
CONTACT: JEREMY WEBSTER
PHONE: (602) 332-7675

PROJECT DESCRIPTION
PROPOSED REPLACEMENT OF (1) T-MOBILE ANTENNA PER SECTOR, FOR A TOTAL OF (3) MOUNTED TO EXISTING MOUNTS ON THE EXISTING STRUCTURE. INSTALLATION OF RADIO EQUIPMENT BEHIND ANTENNA MOUNTED TO EXISTING STRUCTURE.

CONSULTING TEAM

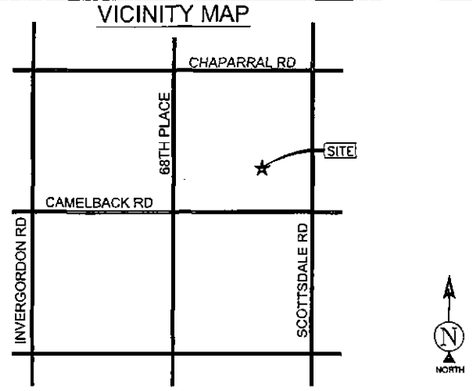
ARCHITECT
YOUNG DESIGN CORP.
10245 E. VIA LINDA #211
SCOTTSDALE, AZ, 85258
CONTACT: JOHN SULTZBACH
PHONE: (480) 451-9609

ZONING
COAL CREEK CONSULTING
2520 E. UNIVERSITY DRIVE, # 107
TEMPE, AZ, 85281
CONTACT: DECLAN MURPHY
PHONE: (602) 326-0111

INDEX OF DRAWINGS

NUMBER	NAME OF SHEET	REV.
T-1	TITLE PAGE	0
A-1	SITE PLAN	0
A-2	ENLARGED SITE PLAN	0
A-3	ANTENNA INFORMATION	0
A-4	ELEVATIONS	0
A-5	DETAILS	0
A-6	DETAILS	0

VICINITY MAP



DRIVING DIRECTIONS

FROM THE RED MOUNTIAN FWY/202 MERGE ONTO THE 101 N (EXIT 9). TAKE EXIT 46 FOR CHAPARRAL RD, TURN LEFT (EAST) ONTO CHAPARRAL RD. FROM CHAPARRAL RD TURN LEFT ONTO SCOTTSDALE RD. SITE WILL BE LOCATED ON THE LEFT (WEST) SIDE OF THE ROAD. SITE LOCATED INSIDE PARKING GARAGE.

CLIENT
T-Mobile
2625 S. PLAZA DR. #400, TEMPE, ARIZONA, 85282
PHONE: (480) 638-2600 FAX: (480) 638-2652

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

NO.	DATE	DESCRIPTION
1	08/17/12	REVIEW
2	9/11/12	SUBMITTAL

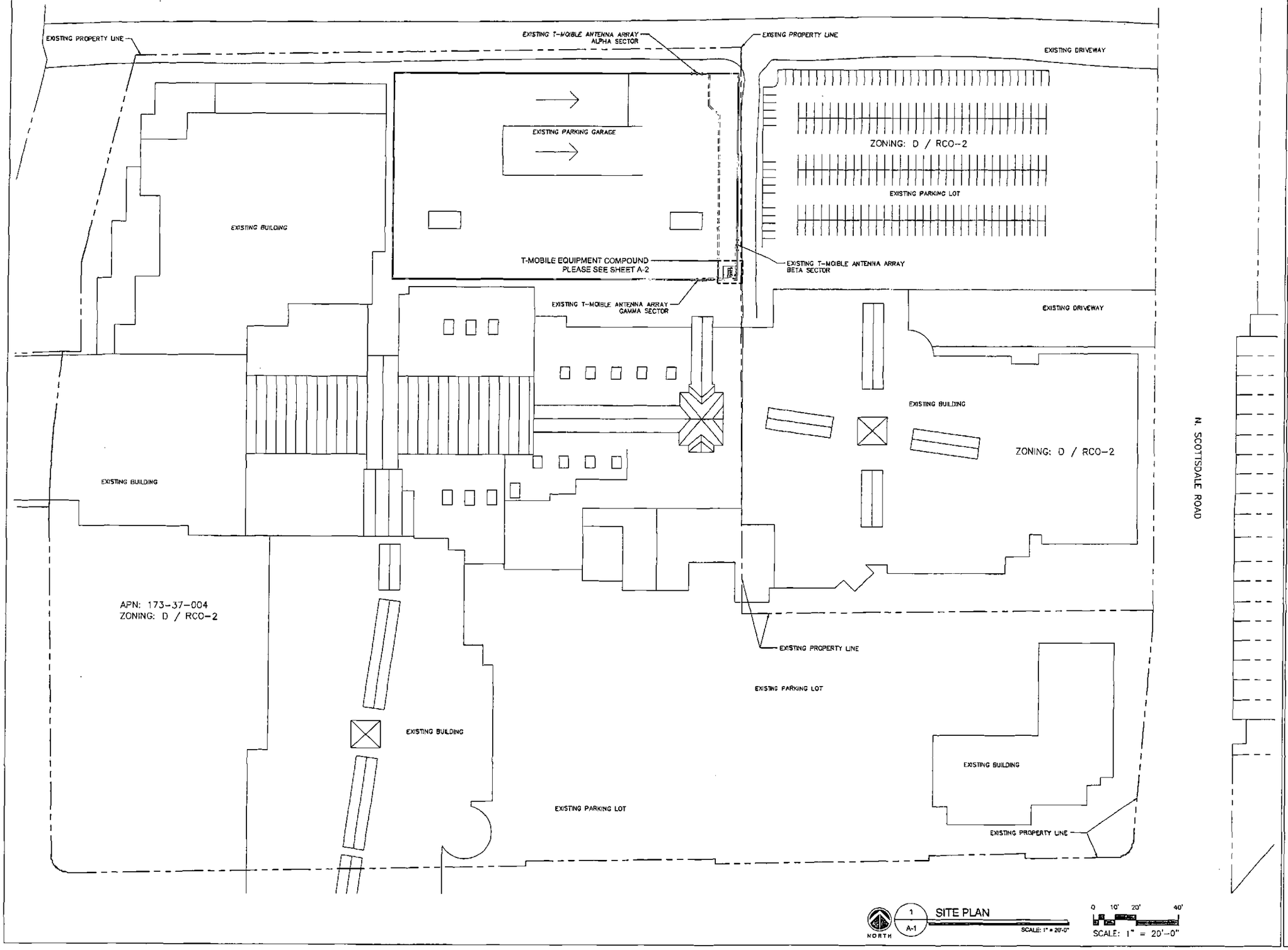
ARCHITECTS JOB NO.
YDC-3997

PROJECT INFORMATION
PH30927G
SCOTTSDALE FASHION SQUARE
4500 N. SCOTTSDALE RD
SCOTTSDALE, AZ 85251

SHEET TITLE
PROJECT INFORMATION AND DATA

JURISDICTION APPROVAL

SHEET NUMBER
T-1



CLIENT

T-Mobile

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

SEAL

REGISTERED LANDSCAPE ARCHITECT 19382 RONALD C. YOUNG 9/11/12 ARIZONA U.S.A.

EXP. 12/31/13

THIS DOCUMENT CONTAINS AN ELECTRONIC SIGNATURE PURSUANT TO A.R.S. TITLE 41 AND TITLE 44. IT IS A VIOLATION FOR ANY PERSON, UNLESS UNDER THE DIRECT SUPERVISION OF THE REGISTRANT, TO MODIFY THIS DOCUMENT IN ANY WAY.

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ARCHITECTS JOB NO.
YDC-3997

PROJECT INFORMATION

PH30927G

SCOTTSDALE FASHION SQUARE

4500 N. SCOTTSDALE RD
SCOTTSDALE, AZ 85251

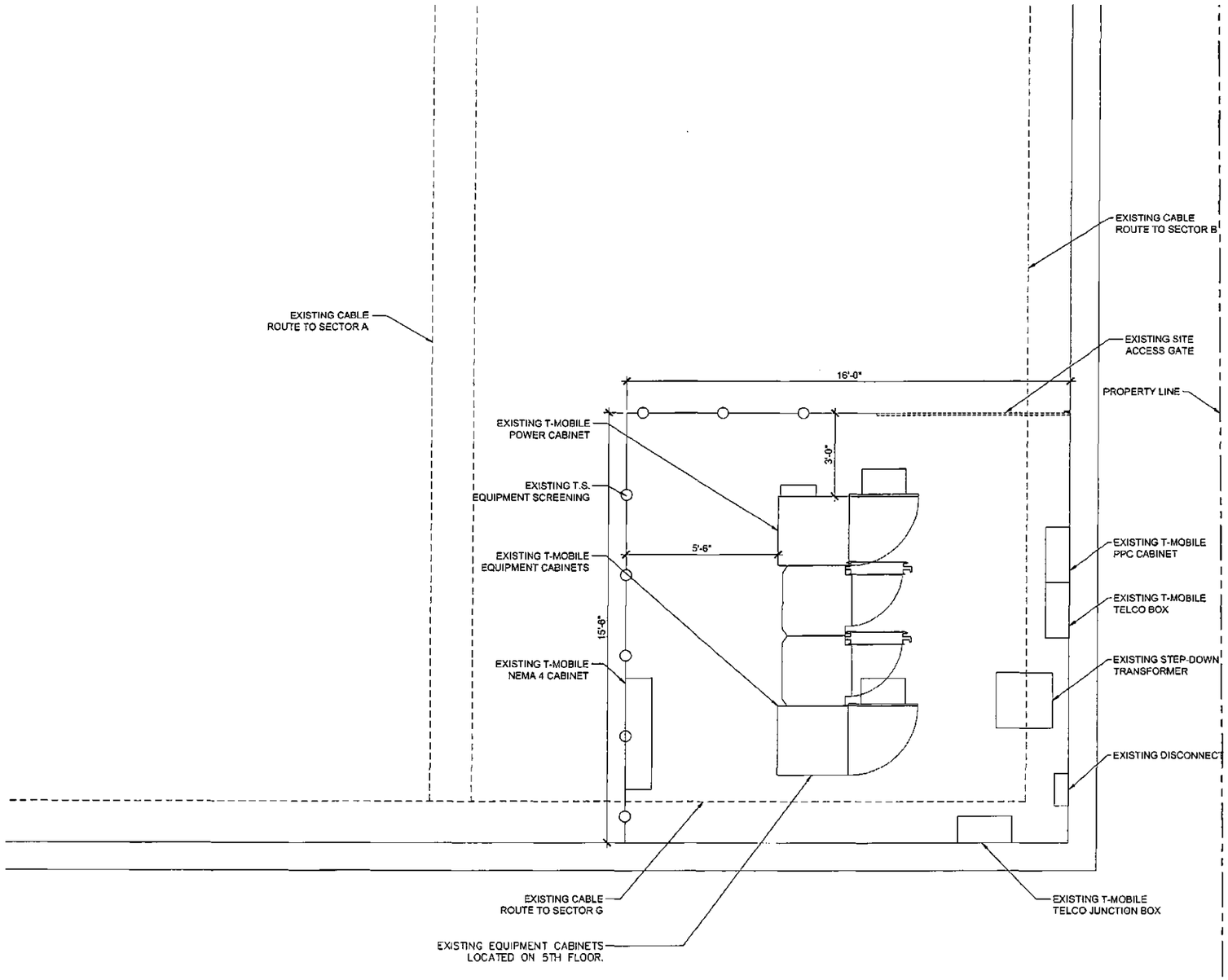
SHEET TITLE

SITE PLAN

JURISDICTION APPROVAL

SHEET NUMBER

A-1



NORTH

1 / A-2 ENLARGED SITE PLAN

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

0 1'-0" 2'-0" 4'-0"

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

GROUNDING NOTES:

1. GROUNDING SHALL COMPLY WITH LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
2. MINIMUM BENDING RADIUS FOR GROUND CONDUCTOR IS 8".
3. NO SPLICES PERMITTED IN GROUND CONDUCTORS.
4. ALL GROUNDING CONNECTORS TO BE CLEAN AND FREE OF PAINT AT THEIR MATING SURFACES AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. USE PENETROX OR EQUIVALENT ANTIOXIDANT GREASE.
5. ALL GROUND BAR CONNECTIONS ARE TO BE 2 HOLE LUG COMPRESSION TYPE. STACKED CONNECTIONS ARE NOT ACCEPTABLE. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BAR WILL BE PERMITTED.
6. ENSURE ALL MECHANICAL CONNECTORS ARE TORQUED TO THE MANUFACTURER'S SPECIFIED VALUES.
7. MULTIPLE BONDS ON GROUND RODS TO BE SEPARATED BY ATLEAST 6'.
8. MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED A RESISTANCE OF 5 OHMS TO EARTH.
9. GROUND WIRES SHALL NOT BE INSTALLED THROUGH HOLES IN ANY METAL OBJECTS OR SUPPORTS; TO PRECLUDE ESTABLISHING A "CHOKE" POINT.
10. GROUND BARS SHALL NOT BE FIELD MODIFIED.
11. GROUND RING BURIAL DEPTH SHALL BE 30".
12. A CERTIFIED CONTRACTOR WILL MAKE ALL MEASUREMENTS REQUIRED TO TEST THE GROUNDING SYSTEM USING A MEGGER OR EQUIVALENT. THE ACCEPTABLE RESISTANCE MEASURED FOR THE GROUNDING SYSTEM WILL NOT EXCEED 5 OHMS RESISTANCE. THREE DISTANCES SHALL BE USED: 1 AT 100 FEET, 1 AT 70 FEET AND 1 AT 35 FEET. THESE DISTANCES ARE SUBJECT TO A SITE BY SITE BASIS. T-MOBILE-WTS SHALL BE GIVEN 24 HOURS NOTICE. ALL COSTS ASSOCIATED WITH GROUND TESTING WILL BE AT THE EXPENSE OF THE CONTRACTOR.

GROUNDING NOTE:

GROUND HYBRID CABLE TOP & BOTTOM USING UNIVERSAL 1-5/8" GROUNDING STRAP, PART #252172

CLIENT

T-Mobile

2625 S. PLAZA DR. #400, TEMPE, ARIZONA, 85282
PHONE: (480) 638-2600 FAX: (480) 638-2852

PLANS PREPARED BY

young design corp

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

SEAL

REGISTERED PROFESSIONAL ARCHITECT 18382 RONALD C. YOUNG 9/11 ARIZONA U.S.A.

EXP. 12/31/13

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ARCHITECTS JOB NO.
YDC-3997

PROJECT INFORMATION

PH30927G

SCOTTSDALE FASHION SQUARE

4500 N. SCOTTSDALE RD
SCOTTSDALE, AZ 85251

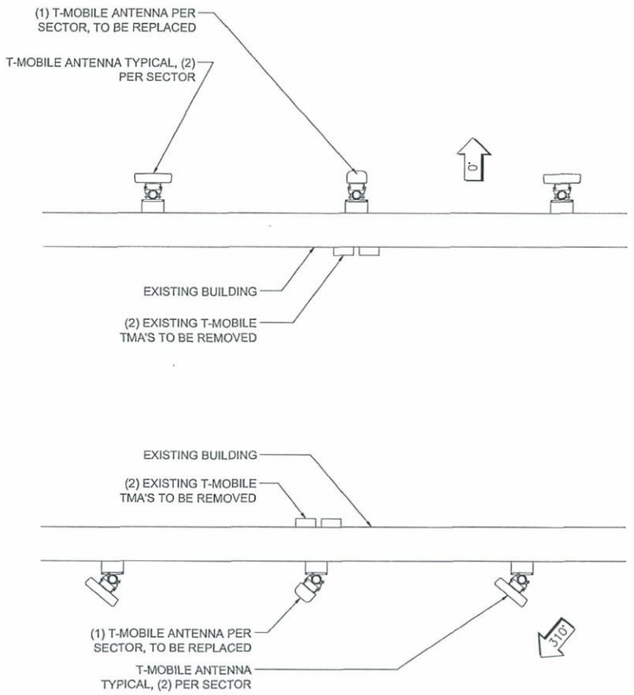
SHEET TITLE

ENLARGED SITE PLAN

JURISDICTION APPROVAL

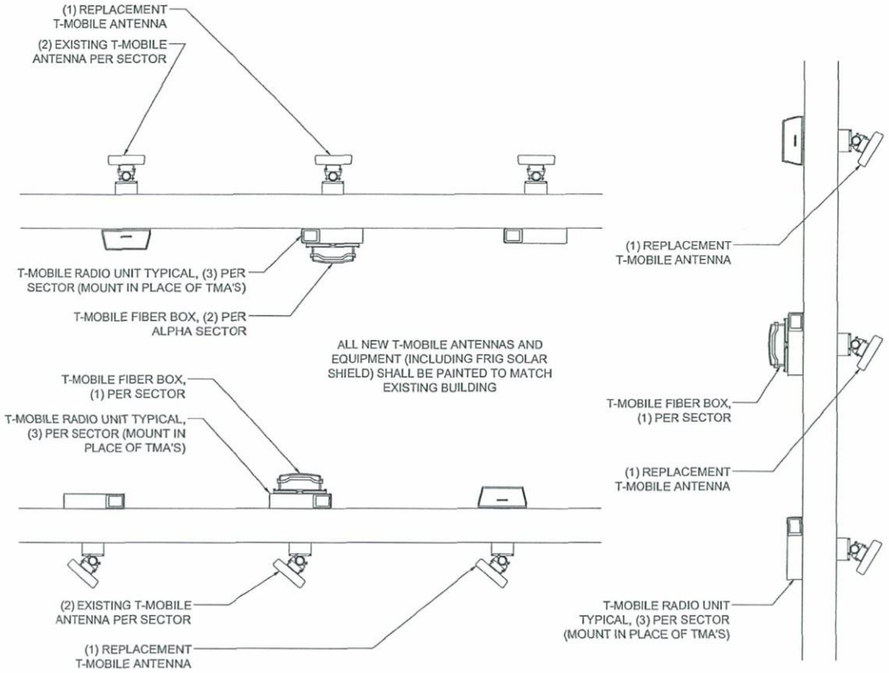
SHEET NUMBER

A-2



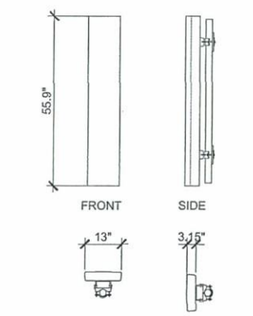
2 A-3 EXISTING ANTENNA LAYOUT

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



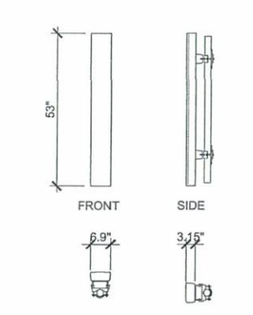
1 A-3 NEW ANTENNA LAYOUT

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



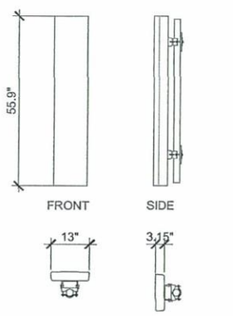
- A-3 EXISTING ANTENNA

SCALE: N.T.S.



- A-3 EXISTING ANTENNA

SCALE: N.T.S.



- A-3 PROPOSED ANTENNA

SCALE: N.T.S.

APPROVED

10-15-12 DATE

KN INITIALS

CLIENT

T-Mobile

2625 S. PLAZA DR. #400, TEMPE, ARIZONA, 85282
PHONE: (480) 638-2600 FAX: (480) 638-2852

PLANS PREPARED BY

young design corp
architecture / project management
10245 E. Via Linda, Scottsdale, AZ 85258
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SEAL

REGISTERED ARCHITECT 19382 RONALD C. YOUNG 9/11 STATE OF ARIZONA U.S.A.

EXP. 12/31/13

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PROJECT INFORMATION

PH30927G

SCOTTSDALE FASHION SQUARE

4500 N. SCOTTSDALE RD
SCOTTSDALE, AZ 85251

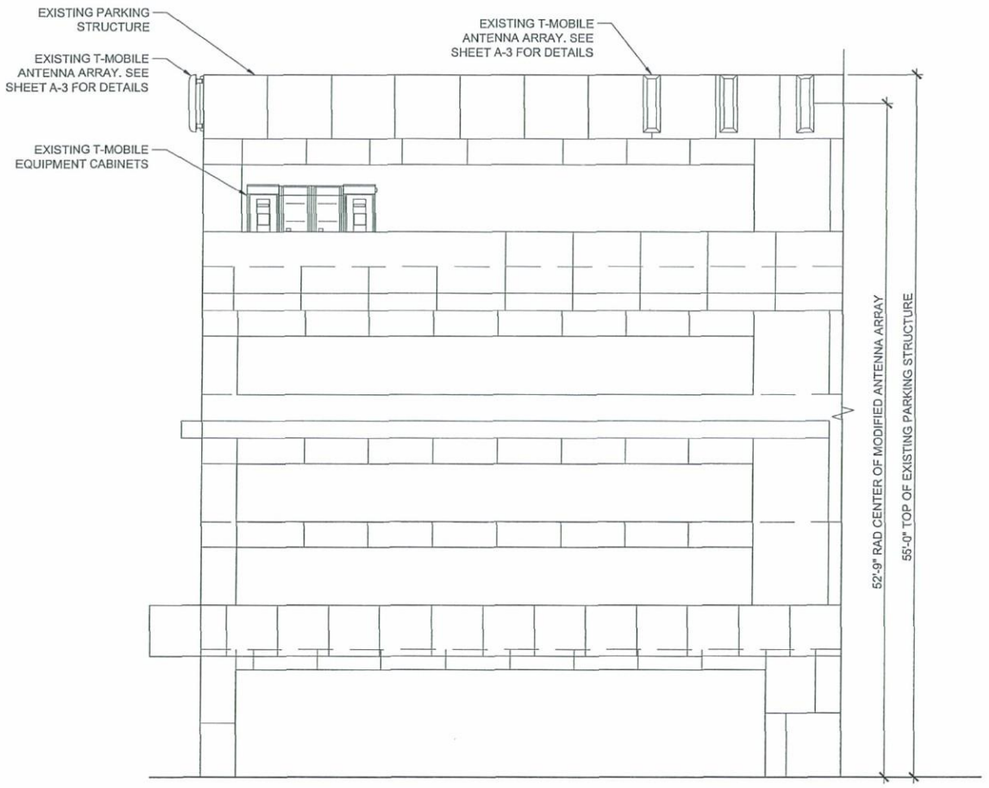
SHEET TITLE

ANTENNA INFORMATION

JURISDICTION APPROVAL

SHEET NUMBER

A-3

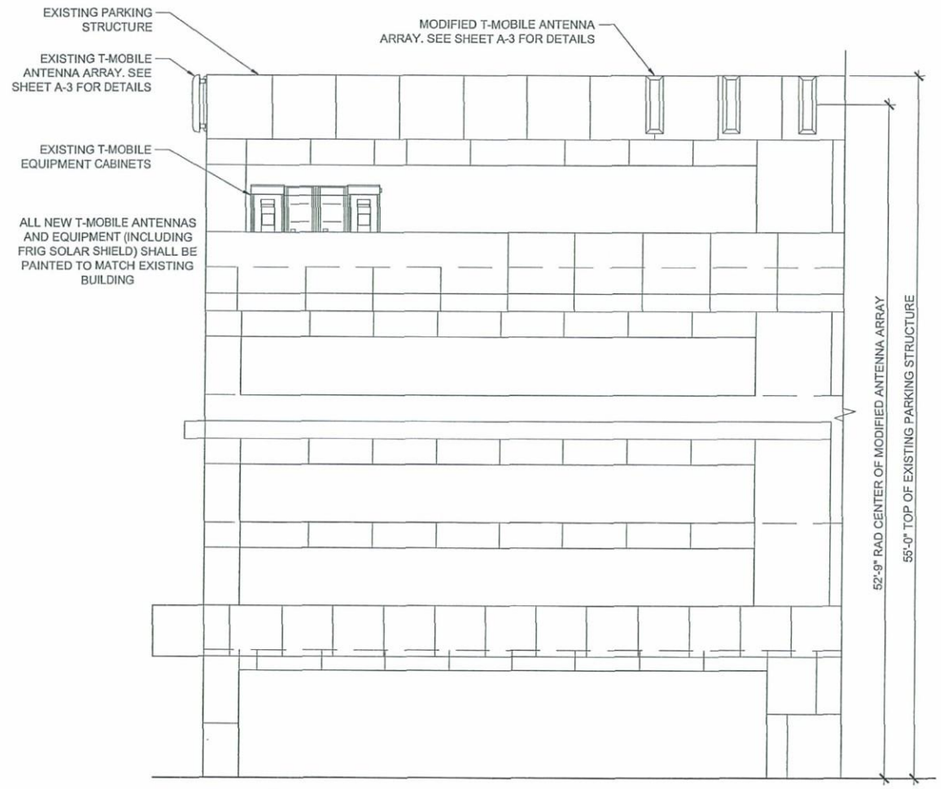


2 A-4 EXISTING SOUTH ELEVATION

SCALE: 3/16" = 1'-0"

0 2'-8" 5'-4" 10'-8"

SCALE: 3/16" = 1'-0"



1 A-4 NEW SOUTH ELEVATION

SCALE: 3/16" = 1'-0"

0 2'-8" 5'-4" 10'-8"

SCALE: 3/16" = 1'-0"

APPROVED

10-15-12 KN

DATE INITIALS

CLIENT

T-Mobile

2625 S. PLAZA DR. #400, TEMPE, ARIZONA, 85282
PHONE: (480) 638-2600 FAX: (480) 638-2852

PLANS PREPARED BY

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

SEAL

Registered National Architect
19382
RONALD C. YOUNG
9/11/12
Registered ARIZONA U.S.A.
EXP. 12/31/13

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ARCHITECTS JOB NO.
YDC-3997

PROJECT INFORMATION

PH30927G

SCOTTSDALE FASHION SQUARE

4500 N. SCOTTSDALE RD
SCOTTSDALE, AZ 85251

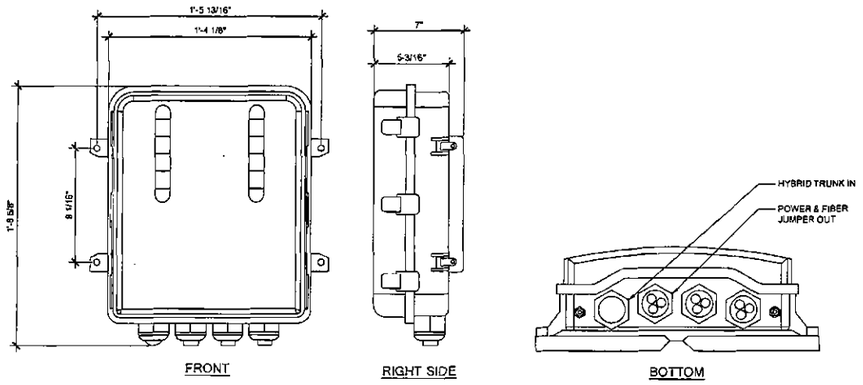
SHEET TITLE

ELEVATIONS

JURISDICTION APPROVAL

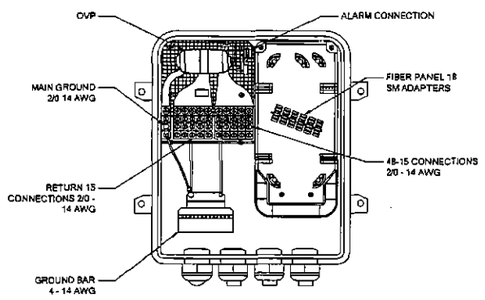
SHEET NUMBER

A-4



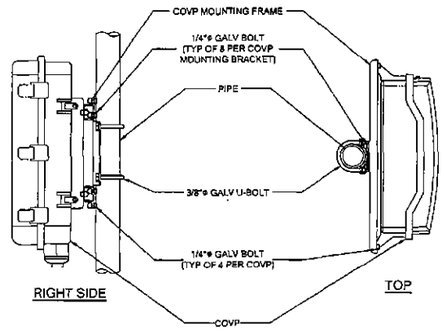
1 A-5 COVP DETAIL

SCALE: N.T.S.



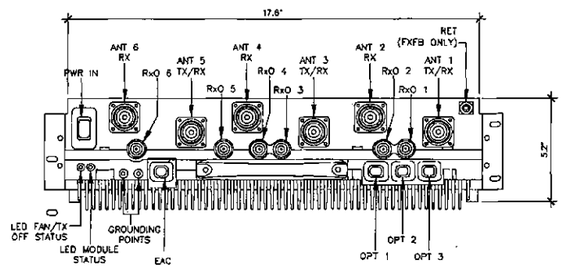
2 A-5 COVP INTERIOR DETAIL

SCALE: N.T.S.



3 A-5 COVP MOUNTING DETAIL

SCALE: N.T.S.



4 A-5 FXFB DETAIL

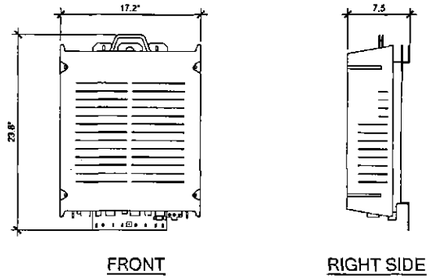
SCALE: N.T.S.

NOKIA FXFB MODEL #472166A

PROPERTY	VALUE
HEIGHT	133mm/3U (5.2 in)
WIDTH WIDTH (WITH COVERS)	447 mm (17.6 in) 490 mm (19.3 in)
DEPTH (FOR RACK ASSEMBLIES) DEPTH (WITH COVERS)	385 mm (15.6 in) 560 mm (22 in)
WEIGHT (INCLUDING THE CORE, FANS AND CASING)	MAX. 25 kg (55.1 lb)

DIMENSIONS (WxHxD) W/ SOLAR COVER & MOUNTING	17.2" x 23.8" x 7.5"
FRIG UNIT WEIGHT	24.0 kg / 25.9 lbs
SOLAR SHIELD WEIGHT	1.2 kg / 2.6 lbs
MOUNTING BRACKET WEIGHT	0.7 kg / 1.5 lbs
TOTAL WEIGHT	25.9 kg / 57 lbs

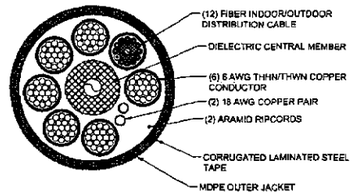
NOTE:
FRIG TO BE MOUNTED VERTICALLY ONLY.



5 A-5 FRIG DETAIL

SCALE: N.T.S.

HYBRID CABLE		
STRUCTURE	# OF CABLES	LENGTH
MONOPOLE	1	120'



6 A-5 HYBRID CABLE DETAIL

SCALE: N.T.S.

CLIENT

T-Mobile

2625 S. PLAZA DR. #400, TEMPE, ARIZONA, 85282
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PLANS PREPARED BY

young design corp
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SEAL

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NO.	DATE	DESCRIPTION
1	08/17/12	REVIEW
2	9/11/12	SUBMITTAL

ARCHITECTS JOB NO.
YDC-3997

PROJECT INFORMATION

PH30927G

SCOTTSDALE FASHION SQUARE

4500 N. SCOTTSDALE RD
SCOTTSDALE, AZ 85251

SHEET TITLE

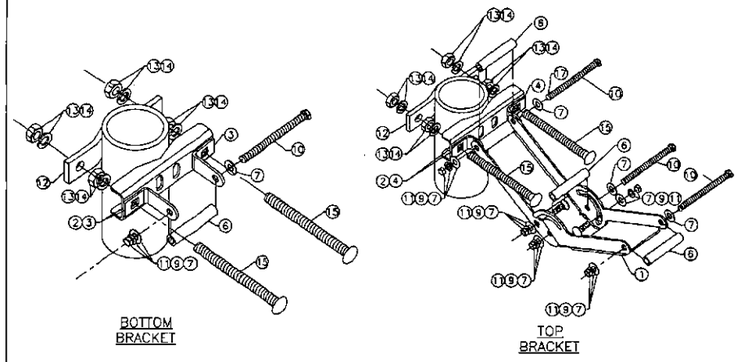
DETAILS

JURISDICTION APPROVAL

SHEET NUMBER

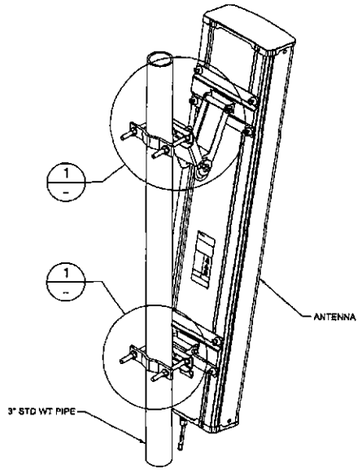
A-5

PARTS LIST			
ITEM #	QUANTITY	PART NUMBER	DESCRIPTION
1	2	601287	ANGLE ARM
2	2	601256	MOUNTING CLAMP
3	2	601235-1	BRACKET
4	2	601236-2	BRACKET
5	1	601258	LABEL, ANGLE
6	4	600679-3	SPACER TUBE
7	14	100825-24	M8 FLAT WASHER (STAINLESS STEEL)
8	2	600418-8	M8x1.25x25mm LARGE CARRIAGE BOLT (STAINLESS STEEL)
9	8	6/1/2385	M8 LOCK WASHER (STAINLESS STEEL)
10	4	600419-10	M8x1.25x110mm LARGE HEX HEAD SCREW (STAINLESS STEEL)
11	8	204001-15	M8x1.25 HEX NUT (STAINLESS STEEL)
12	2	228244	CLAMP PLATE
13	8	600419-24	LARGE LOCK WASHER (STAINLESS STEEL)
14	8	204001-21	M12x1.75 HEX NUT (STAINLESS STEEL)
15	4	600419-12	M12x1.75x150mm LARGE CARRIAGE BOLT (STAINLESS STEEL)
17	1	601584	MOLYBDENUM DISULFIDE GREASE



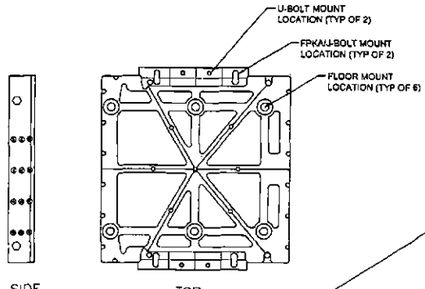
1 / A-6 ANTENNA BRACKET DETAIL

SCALE: N.T.S.



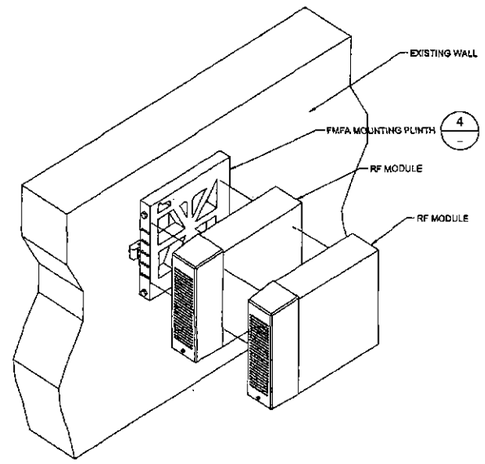
2 / A-6 ANTENNA ATTACHMENT DETAIL

SCALE: N.T.S.



4 / A-6 FMFA DETAIL

SCALE: N.T.S.



6 / A-6 RRU MOUNTING DETAIL

SCALE: N.T.S.

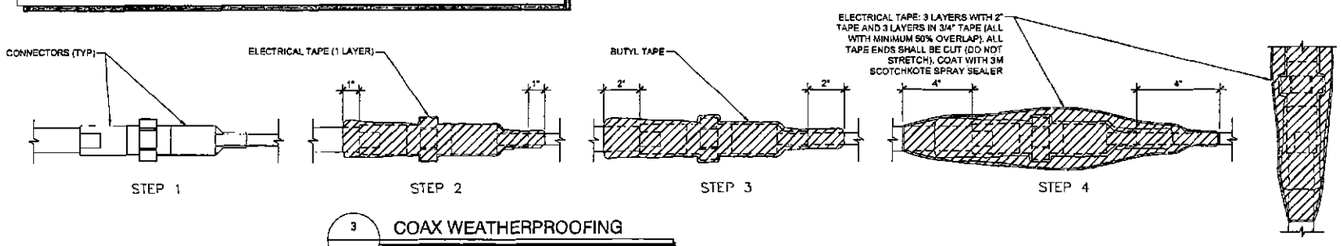
NOTE:

1. ALL COAXIAL CABLE CONNECTIONS TO BE WEATHER PROOFED.
2. CONTRACTOR TO DIP CABLES AND JUMPERS WHERE NECESSARY.
3. TAGGING:
   - ALL COAXIAL CABLES TO BE MARKED WITH COLOR CODED TAPE TO INDICATE THE ANTENNA SECTOR.
   - COLORED ELECTRICAL TAPE SHALL MARK EACH END OF CABLE AND EACH END OFJUMPERS AS CLOSE TO EACH END AS POSSIBLE. (NOT TO INTERFERE WITH WEATHERPROOFING.)
4. COAXIAL CABLE SPECIFICATIONS REQUIRE CABLE SUPPORT EVERY 3'-0" ON CENTER. CONTRACTOR SHALL SUPPLY SUPPORTS AS REQUIRED TO MEET THIS REQUIREMENT.
5. VERTICAL CONNECTIONS SHALL BE TAPED FROM THE BOTTOM UP SO OVERLAP MOVES WATER AWAY FROM CONNECTION. (SEE STEP 4.)
6. PROVIDE HEAT SHRINK IN PLACE OF TAPE FOR QUAD POLES AND TMA'S.

ANTENNA AND COAX GENERAL NOTES:

1. ALL ANTENNA AND COAXIAL ANTENNA CABLE TO BE FURNISHED BY T-MOBILE AND INSTALLED BY CONTRACTOR.
2. COAX COLOR CODING: ANTENNAS TO BE NUMBERED IN A CLOCKWISE MANNER FROM TRUE NORTH AND COLOR CODED AS FOLLOWS:
3. THE ABOVE COAX COLOR CODING APPLIES TO SECTORIZED SITES. FOR OMNI SITES, USE THE AT0, BT0, & GT0 COLOR CODES ONLY.
4. COAX SHALL BE TAGGED WITH COLOR CODING AT (2) PLACES USING 1" WIDE WEATHER PROOF COLORED VINYL TAPE AT THE FOLLOWING LOCATIONS:

   #1 - AT ANTENNA CONNECTION
   #2 - AT ENTRY TO EQUIPMENT CABINET
5. RUN COAXIAL CABLE WITH MINIMUM 12" SLACK & 12" FROM EDGE OF EQUIPMENT CABINETS, ACROSS WAVE GUIDE BRIDGE (IF APPLICABLE), UP TO TOWER LEG (IF APPLICABLE), & DISTRIBUTE TO EACH ANTENNA DEVICE. FURNISH AND INSTALL A MINIMUM OF (3) GROUND KITS PER COAXIAL CABLE ACCORDING TO ELECTRICAL DRAWINGS. VERIFY NUMBER OF ANTENNAS, CABLE, & CABLE DIAMETER WITH PROJECT MANAGER.



3 / A-6 COAX WEATHERPROOFING

SCALE: N.T.S.

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