



REPORT TO PLANNING COMMISSION City of Sacramento

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915 I Street, Sacramento, CA 95814-2671

PUBLIC HEARING
August 12, 2010

To: Members of the Planning Commission

Subject: AT & T Odd Fellows Cemetery Monopine. A request to construct a 104-foot monopine (pine tree cellular antenna) at the Odd Fellows Cemetery on approximately 15 acres in the Single-Family Residential (R-1) Zone. (P10-001)

- A. Environmental Determination: Exempt per CEQA 15303
- B. Special Permit to construct a 104-foot monopine (pine tree cellular antenna) at the Odd Fellows Cemetery in the Single-Family Residential (R-1) Zone.

Location/Council District:

2720 Riverside Blvd., Sacramento, CA

Assessor's Parcel Number: 009-0030-014-0000, and 009-0030-048-0000

Council District 4

Recommendation: Staff recommends approval of the requested 104 foot high monopine based on the findings and subject to the conditions listed in Attachment 1. The Commission has final approval authority over items A-B above, and its decision is appealable to City Council. Staff recommends approval of this request as staff believes that the subject site is a proper location for a monopine as there are a number of 70-80 foot evergreen trees surrounding the antenna location and the applicant has agreed to allow T-mobile to collocate on the monopole at a height of 91 feet. Staff has received both opposition and support for this monopine antenna request.

Contact: Antonio Ablog, Associate Planner, 808-7702, Lindsey Alagozian, Senior Planner, 808-2659.

Applicant: Frank Schabarum for AT&T, (530) 722-0743, 10516 Quail Hollow Lane, Redding, CA 96003

Owner: Tony Pruitt, Sutter Realty Company, 2720 Riverside Boulevard, Sacramento, CA 95818



Summary: The request to construct a new 94-foot monopine at the Odd Fellows Cemetery was heard by the Planning Commission on May 27, 2010. Staff recommended that the Planning Commission approve this request as the proposed monopole was located and designed for a reduced visual impact. Immediately prior to the public hearing on this project, the Planning Commission conducted a public hearing for a request to construct a new T-Mobile monopole at 2661 Riverside Boulevard (P07-153). The decision on that particular application was tabled in order to gain more information about potential collocations at both sites in an attempt to minimize the number of monopoles in this neighborhood.

During the hearing, the Planning Commission discussed the following:

- The approval of two new monopoles in light of the City's Telecommunications Siting Guidelines which list new monopoles as the least favorable siting option for new antennas;
- The visibility of the AT & T 94-foot monopole from adjacent streets;
- The possibility of collocating other antennas (namely T-mobile) on the subject site;
- The possibility of collocating the requested antennas on the monopole requested for 2661 Riverside Boulevard;
- The feasibility of future collocations given the surrounding tree canopy; and
- The improvement of signal coverage with the requested new monopole.

After discussing the project, a motion was made to approve staff's recommendation to approve the monopole request. This motion failed on a 6-3 vote. A second motion was made to continue the item with the direction that the applicant work with both staff and the applicant for the 2661 Riverside Boulevard monopole site.

Staff met with both applicants on June 3rd and directed the applicants to share with each other information that would allow the respective Radio Frequency (RF) Engineers to determine if collocation on either of the proposed monopoles was feasible. The AT & T applicant has stated that a collocation at a height of 70 feet on the Balshor site (2661 Riverside Boulevard) would overlap with an existing site at 1520 X Street and would not meet the coverage objectives to the south (See Attachment 3). The T-Mobile applicant has stated that they would need to locate at a height of 91 feet on the AT & T Odd Fellows site (2720 Riverside Boulevard) to replicate the coverage that would be provided at the Balshor site. The AT & T applicant is willing to allow T-Mobile to locate at 91 feet on its monopole while its antennas remain at 81 feet. The applicant has revised its application from a 94 foot monopole to a 104 foot monopole to accommodate this collocation.

Table 1: Project Information
General Plan designation: Public/Quasi Public
Existing zoning of site: Standard Single-Family (R-1)
Existing use of site: Odd Fellows Cemetery
Property area: 15.4 Acres

Background Information: The monopine antenna and associated equipment are proposed to be located at the southwest corner of the 15 acre Odd Fellows Cemetery adjacent to an existing maintenance yard. The site is in the Single-Family Residential (R-1) Zone. The zoning code allows cellular antennas to be located on residentially zoned parcels if they are occupied by a non-residential use. To the north of the site are the Masonic and Old City Cemeteries, to the south are residential uses, to the west is a neighborhood market surrounded by residential uses, to the east is the remainder of the Odd Fellows Cemetery. There is no history of previous entitlements for the subject site.

The project was heard by the Planning Commission on May 27, 2010. A summary of the public hearing is located in the "Summary" section.

Public/Neighborhood Outreach and Comments: The proposed project was routed to the Land Park Community Association, as well as to landowners within a 1,000 foot radius of the project site for the May 27th hearing. The applicant presented the project to the Land Park Community Association who has forwarded staff its support of the project. In addition, staff has received verbal opposition to this Special Permit request due to the site's proximity to residential properties.

Public notices have been sent to property owners within 1000 feet of the subject site and to the Land Park Community Association for the August 12th hearing. As of the date of writing this report, no comments have been received.

Environmental Considerations: The City of Sacramento's Environmental Planning Services has reviewed this project and determined that it is exempt from review under the following provisions of the California Environmental Quality Act and/or Guidelines: CEQA Guidelines Section 15303, New Construction Of Small Structures.

Policy Considerations:

General Plan: The subject site is designated Public/Quasi-Public in the 2030 General Plan. This designation is generally reserved for community services and/or educational, cultural, administrative, and recreational facilities often located within a well landscaped setting. Specifically regarding telecommunications facilities, the proposed project supports the following goals and policies:

- Provide state-of-the-art telecommunication services for households, businesses, institutions, and public agencies throughout the city (Goal U 7.1).
- The General Plan promotes working with service providers to ensure access and availability of a wide range of state of the art telecommunication systems and services for households businesses, institutions, and public agencies throughout the city (Policy U 7.1.1).
- The City shall work with utility companies to retrofit areas that are not served by current telecommunications technologies and shall provide strategic long-range planning of telecommunication facilities for newly developing areas, as feasible (Policy U 7.1.2).

The proposal will improve wireless cellular capacity and coverage for residential and business customers in the area and is consistent with the City's Guidelines for Telecommunications Facilities.

Guidelines for Telecommunication Facilities: The City's Telecommunications Policy does not specifically prohibit the approval of new monopoles altogether, but lists the approval of new monopoles as the least desirable option for locating new telecommunications antennas. When a new monopole is proposed, the facility location and design guidelines emphasize minimizing the visibility of the new telecommunication facilities through location, construction, and design techniques. The proposed antenna, a 104 foot pine tree pole, meets these guidelines, as it has been designed to mimic existing trees in the immediate area which average approximately 80 feet in height with a few trees exceeding 100 feet in height.

After initially reviewing this proposal, staff had asked the applicant to explore the possibility of re-locating the monopine north to the Old City Cemetery, or east to a location on the Odd Fellows Cemetery that would be virtually invisible to surrounding properties. Regarding the Old City Cemetery site, the applicant submitted an exhibit showing that its coverage needs would not be met in that location (Exhibit J – Coverage with Old City Cemetery Site). With an on-site relocation, the applicant would be required to extend utilities through the site. This would not be desirable as the only method to extend utilities through the site would be via overhead lines.

Staff believes that this proposal is consistent with the intent of the Telecommunication Policy to prevent the proliferation of new monopoles in the City of Sacramento. The approval of a 104-foot monopine at this location will allow the collocation of AT & T and T-Mobile antennas. Due to a lack of existing tall structures, there is a history of cellular carriers not being able to locate new antennas in the Land Park neighborhood. The number of mature trees at the Odd Fellows site allows this new pole to mimic the surrounding landscape.

The project is consistent with the following additional design guidelines as described in the City Telecommunication Policy:

- a) Antenna panels should match the building colors and/ or architectural character so as to not be visible.
- b) Antennas should be screened with stealthing materials (i.e., paint or camouflage) to minimize visibility.
- c) Monopoles should be constructed of materials that match the prevalent poles and/or buildings and landscaping in the area or provide stealthing for the pole (such as slim-line poles). Also carriers should consider using close proximity/bi polar or tight antenna array configurations on monopoles instead of traditional top hat antenna arrays.
- d) Monopoles should be painted to match either the sky line (dull matte grey) or other prevalent architectural or natural features like trees.
- e) Carriers should consider the distance from residentially zoned properties when considering the placement of additional antennas on an existing monopole (or other collocation), or when installing a façade mounted antenna. The objective is to have the facility be invisible when viewed from the residentially zoned property.
- f) Carriers should locate all equipment shelters or cabinets to the rear of existing buildings away from streetscape view.

Staff supports the proposed location of the facility. The pole has been designed to match the surrounding mature trees, and existing landscaping will serve to screen view of the proposed monopole.

Project Design

The applicant is proposing to locate a 104-foot tall monopine with two antenna arrays in the R-1 zone. The applicant, AT & T has redesigned the monopole to allow T-Mobile antennas to be placed at a height of 91 feet. The AT & T antennas will remain at 81 feet as they were in the original application. The branches of the proposed monopole will be brought down to 20 feet and the applicant proposes full bark cladding on the pole. Staff is supportive of the design, and finds that generally, the proposed project complies with the General Plan, the Zoning Code, and the City's Guidelines for Telecommunications Facilities.

The applicant is requesting a 104-foot pine tree to provide maximum coverage by providing antenna height above the average height of the surrounding trees. AT & T proposes to place its antenna array at a height of 81 feet on this pole. The array consists of 12 panel antennas. The proposed monopine is located approximately 100 feet to the north of the residential properties to the south of the cemetery. The applicant

has engineered the monopole to accept future collocations below the 91-foot T-Mobile collocation and the 81-foot AT & T collocation. The applicant has stated that individual carriers will have to determine whether the antenna locations will provide enough coverage to justify collocating on the pole.

In reviewing the height of a proposed new cellular tower, the main criteria that staff considers are: a) the height of existing structures and landscaping in the immediate vicinity, and b) whether increased height will allow for the collocation of future antennas and minimize the need to construct new towers. Staff believes that the proposed 104-foot monopine meets these criteria.

The applicant proposes to place the associated ground equipment within an existing fenced area the southwest corner of the site. This area has been sized to accommodate the ground equipment of any future cellular service providers. This area is not visible from the street and the applicant will replace the existing vinyl slats to screen this area from the interior of the cemetery.

Land Use

The applicant is requesting a Special Permit to construct a new 104 foot pine tree monopole with one new antenna array and two future antenna array collocation opportunities. In evaluating Special Permit proposals of this nature, the Commission is required to make the following findings:

- A. A special permit shall be granted upon sound principles of land use.

The facility will improve wireless coverage for the area with a contextual design that will largely be hidden from view from surrounding properties. In addition, the location will be available for the collocation of additional antennas.

- B. A special permit shall not be granted if it will be detrimental to the public health, safety or welfare, or if it results in the creation of a nuisance.

The installation of the monopole, antennas, and the associated equipment will not be detrimental to public health, safety or welfare because the installation of the facility will be subject to City building permits and Federal Communications Commission (FCC) regulations related to the transmission of radio signals. Furthermore, the applicant has submitted a Radio Frequency (RF) analysis to show that the proposed site complies with current FCC's guidelines that limit human exposure to RF energy (Exhibit 11).

- C. A special permit use must comply with the objectives of the general or specific plan for the area in which it is to be located.

The proposed project is consistent with the General Plan Policy of promoting and supporting communications facilities within the City and the Guidelines for Telecommunication Facilities.

Conclusion

The antennas are proposed to be installed on a new monopine that has been designed to blend into the park-like setting of the Odd Fellows Cemetery so that it will have a minimal visual impact on the surrounding area. Staff believes that the increase in height to 104 feet is an appropriate compromise to the alternative of approving a second new monopole in the immediate area. The project will provide wireless cellular coverage for residential and business customers in the area. Staff finds that the proposed project complies with the 2030 General Plan, the Zoning Code, and the City's Guidelines for Telecommunications Facilities. For these reasons, staff recommends that the Planning Commission approve the request based on the findings of fact and subject to the conditions of approval listed in Attachment 1.

Respectfully submitted by:



ANTONIO A. ABLOG
Associate Planner

Approved by:



LINDSEY ALAGOZIAN
Senior Planner

Recommendation Approved:


GREGORY BITTER, AICP
Principal Planner

Attachments:

Attachment 1	Recommended Findings of Fact and Conditions of Approval
Exhibit 1A	Site Plan
Exhibit 1B	Site Detail
Exhibit 1C	Northeast Elevation
Exhibit 1D	Southeast Elevation
Exhibit 1E	Northwest Elevation
Exhibit 1F	Southwest Elevation
Exhibit 1G	Topographic Survey
Exhibit 1H	Photosimulations
Exhibit 1I	Radio Analysis
Exhibit 1J	Propagation Maps
Attachment 2	Land Use Map
Attachment 3	Applicant letter to staff June 25, 2010

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Attachment 1
Proposed Findings of Fact and Conditions of Approval
Odd Fellows Cemetery Monopine
2720 Riverside Boulevard

Findings Of Fact

A. Environmental Determination: Exemption

Based on the determination and recommendation of the City's Environmental Planning Services Manager and the oral and documentary evidence received at the hearing on the project, the Planning Commission finds that the project is exempt from review under the California Environmental Quality Act Guidelines Section 15303, New Construction of Small Structures as follows:

The proposed project consists of the new construction and location of a new pine tree monopole with 2 new antenna arrays and an equipment lease area for a telecommunications facility on a 15± acre square cemetery in the Single-Family Residential (R-1) zone.

B. The Special Permit to construct a 104-foot Monopine (pine tree monopole) at the Odd Fellows Cemetery in the Single-Family Residential (R-1) Zone is hereby approved based upon the following findings:

1. Granting the Special Permit is based upon sound principles of land use in that:
 - A. The facility will improve telecommunications coverage for the area;
 - B. The proposed monopole complies with the intent of the Guidelines for Telecommunications Facilities to create "invisible" cellular facilities in that the monopine design is appropriate the subject location that has a number of mature trees.
 - C. The proposed location allows the monopine to be of such height that future collocation opportunities will be available.
2. Granting the Special Permit would not be detrimental to the public welfare nor result in the creation of a public nuisance in that:
 - A. Installation of the monopole and antennas will be subject to building permits;

- B. The monopole will be located approximately 100 feet from the nearest residential use and has been designed to mimic the existing trees on the subject site.
 - C. The monopole and equipment shelter will be within a fenced area restricted from easy public access; and
 - D. The electronic equipment will be within an enclosed shelter with locked access.
3. The proposed project is consistent with the General Plan Policy of promoting and supporting communications facilities within the City as well as the Guidelines for Telecommunications Facilities (GP Section 7-10).

Conditions Of Approval

- B.** The Special Permit to construct a 104-foot Monopine (pine tree monopole) at the Odd Fellows Cemetery in the Single-Family Residential (R-1) Zone is approved subject to the following conditions:
- B1. The applicant shall obtain all necessary building and/or encroachment permits prior to commencing construction.
 - B2. The facility shall be constructed in substantial conformance to the submitted plans. Any modification to the project shall be subject to review and approval by Planning staff prior to the issuance of building permits.
 - B3. The applicant shall obtain all necessary federal telecommunications permits prior to commencing construction.
 - B4. Size and location of the panels shall conform to the plans submitted. The panels shall be painted to match the monopole. The applicant shall use non-reflective paint on all equipment on the tower to prevent glare. Each new item on the tower including cables, brackets, supports, etc. shall be painted to match the monopole.
 - B5. The height of the antennas and related support structure shall be limited to 104 feet with the top of the antennas not exceeding 95 feet.
 - B6. Full bark cladding shall be provided for the monopine as noted on the attached plans.
 - B7. The minimum height for attached needles shall be no greater than 20' as noted on the attached plans.

- B8. Should the applicant ever discontinue using the tower for wireless services then the applicant shall remove all equipment on the tower and the equipment cabinets within six months of termination.
- B9. KNOX access shall be provided, per Fire Department.
- B10. Any graffiti and garbage/trash shall be removed in a timely manner.
- B11. The chain link fence for the equipment enclosure shall have vinyl slats painted to match the existing building facade. It shall remain graffiti free and in sound structural condition for the duration of the operation of the facility. No barbed wire of concertina wire shall be permitted. Removal of graffiti and /or repair of damage to the monopole or fencing are the responsibility of AT & T.
- B12. The applicant shall be responsible for all maintenance of the tower, antennas, and associated equipment and shall maintain such equipment so as to be consistent with the approved plans.

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Exhibit 1A – Site Plan

JRA
Jeffrey R. Adams & Associates, Inc.
14400 Riverwood Drive
Pleasanton, California 94566
Phone: (925) 794-3811
Fax: (925) 794-3812

PROPRIETARY INFORMATION
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF JRA AND ITS CONSULTANTS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED. REUSE OR REPRODUCTION OF THIS INFORMATION IS STRICTLY PROHIBITED.

PREPARED FOR
at&t
4430 Riverwood Drive
Pleasanton, California 94566

APPROVALS
DATE
DATE
DATE
DATE
DATE

PROJECT NAME
S. RIVER
PROJECT NUMBER
CN142-A
3700 MARCHAM WAY
SACRAMENTO, CALIFORNIA 95818
SACRAMENTO COUNTY

DRAWING DATES
07/27/10
SHEET 2 OF 2 (P)

MPDS REVISION LEVEL: 1.2

SHEET TITLE
SITE PLAN

A-0

ANTENNA COAXIAL CABLE SCHEDULE 2

1. CONTRACTOR TO PROVIDE ALL LABOR TO INSTALL 30 RUNS OF COAX. 10 TH'S AND 12 ANTENNAS.

2. ENDSION TO PROVIDE ALL COAX CONNECTORS, AUXILIARY EQUIPMENT (INCLUDING COAXIAL CONNECTORS, COAXIAL CABLE, AND COAXIAL CABLE TUBING) AND COAXIAL CABLE TUBING TO BE USED FOR THE PROJECT. ENDSION SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES. ENDSION SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES. ENDSION SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES.

3. CONTRACTOR TO COLOR CODE ALL COAX CABLES BY THE FOLLOWING:

SECTOR	UNIT	TYPE	DESCRIPTION
SECTOR "A"	1	1X 1/8" 1	1X 1/8" 1
	2	1X 1/8" 2	1X 1/8" 2
	3	1X 1/8" 3	1X 1/8" 3
	4	1X 1/8" 4	1X 1/8" 4
	5	1X 1/8" 5	1X 1/8" 5
SECTOR "B"	1	1X 1/8" 1	1X 1/8" 1
	2	1X 1/8" 2	1X 1/8" 2
	3	1X 1/8" 3	1X 1/8" 3
	4	1X 1/8" 4	1X 1/8" 4
	5	1X 1/8" 5	1X 1/8" 5
SECTOR "C"	1	1X 1/8" 1	1X 1/8" 1
	2	1X 1/8" 2	1X 1/8" 2
	3	1X 1/8" 3	1X 1/8" 3
	4	1X 1/8" 4	1X 1/8" 4
	5	1X 1/8" 5	1X 1/8" 5

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SITE PLAN REVISIONS

1. REVISION 1: ADDITIONAL ANTENNAS AND ANTENNA CABLE TO BE INSTALLED IN SECTOR "A".

2. REVISION 2: CORRECT ANTENNA CABLE ROUTING IN SECTOR "B".

3. REVISION 3: ADDITIONAL ANTENNAS AND ANTENNA CABLE TO BE INSTALLED IN SECTOR "C".

4. REVISION 4: CORRECT ANTENNA CABLE ROUTING IN SECTOR "A".

5. REVISION 5: ADDITIONAL ANTENNAS AND ANTENNA CABLE TO BE INSTALLED IN SECTOR "B".

6. REVISION 6: CORRECT ANTENNA CABLE ROUTING IN SECTOR "C".

7. REVISION 7: ADDITIONAL ANTENNAS AND ANTENNA CABLE TO BE INSTALLED IN SECTOR "A".

8. REVISION 8: CORRECT ANTENNA CABLE ROUTING IN SECTOR "B".

9. REVISION 9: ADDITIONAL ANTENNAS AND ANTENNA CABLE TO BE INSTALLED IN SECTOR "C".

10. REVISION 10: CORRECT ANTENNA CABLE ROUTING IN SECTOR "A".

11. REVISION 11: ADDITIONAL ANTENNAS AND ANTENNA CABLE TO BE INSTALLED IN SECTOR "B".

12. REVISION 12: CORRECT ANTENNA CABLE ROUTING IN SECTOR "C".

GENERAL ANTENNA & CABLE NOTES 1

1. CONTRACTOR SHALL VERIFY ALL ANTENNAS ARE INSTALLED WITHIN THE SPECIFIED TOLERANCES. CONTRACTOR SHALL VERIFY ALL ANTENNAS ARE INSTALLED WITHIN THE SPECIFIED TOLERANCES. CONTRACTOR SHALL VERIFY ALL ANTENNAS ARE INSTALLED WITHIN THE SPECIFIED TOLERANCES.

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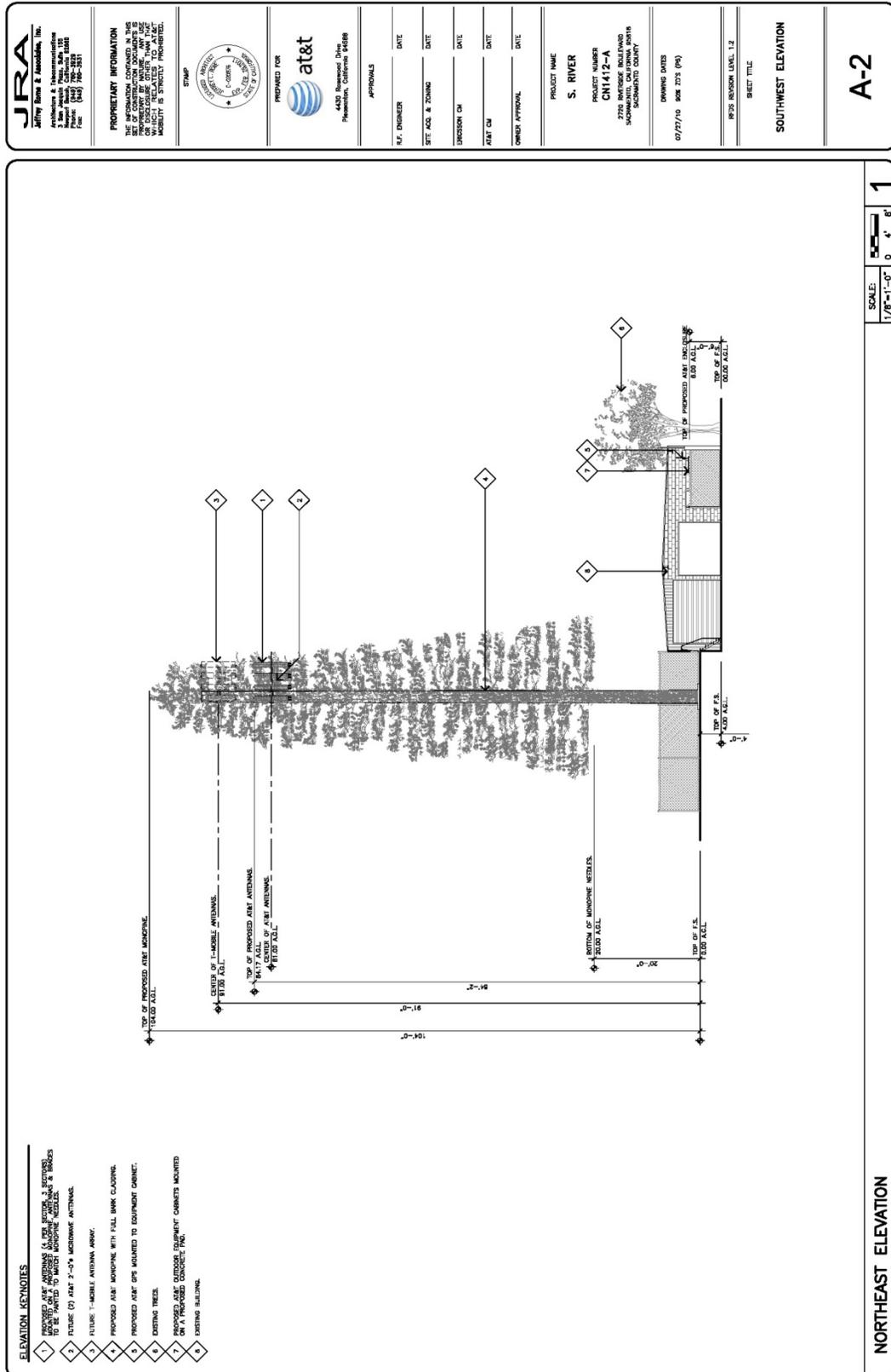
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Exhibit 1C – Northeast Elevation



JRA
Jeffrey Rowe & Associates, Inc.
Architects & Interiors
2000 West 10th Street, Suite 100
Phoenix, AZ 85015
Phone: (602) 998-2821
Fax: (602) 998-2821

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STAMP
ARCHITECT
JEFFREY ROWE & ASSOCIATES, INC.
PHOENIX, AZ

PREPARED FOR
at&t
4430 Raymond Drive
Phoenix, California 94088

APPROVALS

R.F. ENGINEER	DATE
SITE, ACQ. & ZONING	DATE
DISCUSSION CH	DATE
ASST. CH	DATE
OWNER APPROVAL	DATE

PROJECT NAME
S. RIVER

PROJECT NUMBER
CH1412-A

2700 INVERSIQUE BOULEVARD
MOUNTAIN VIEW, CALIFORNIA 91453
SUNSHINE COUNTY

DRAWING DATE
07/27/10 006 075 (06)

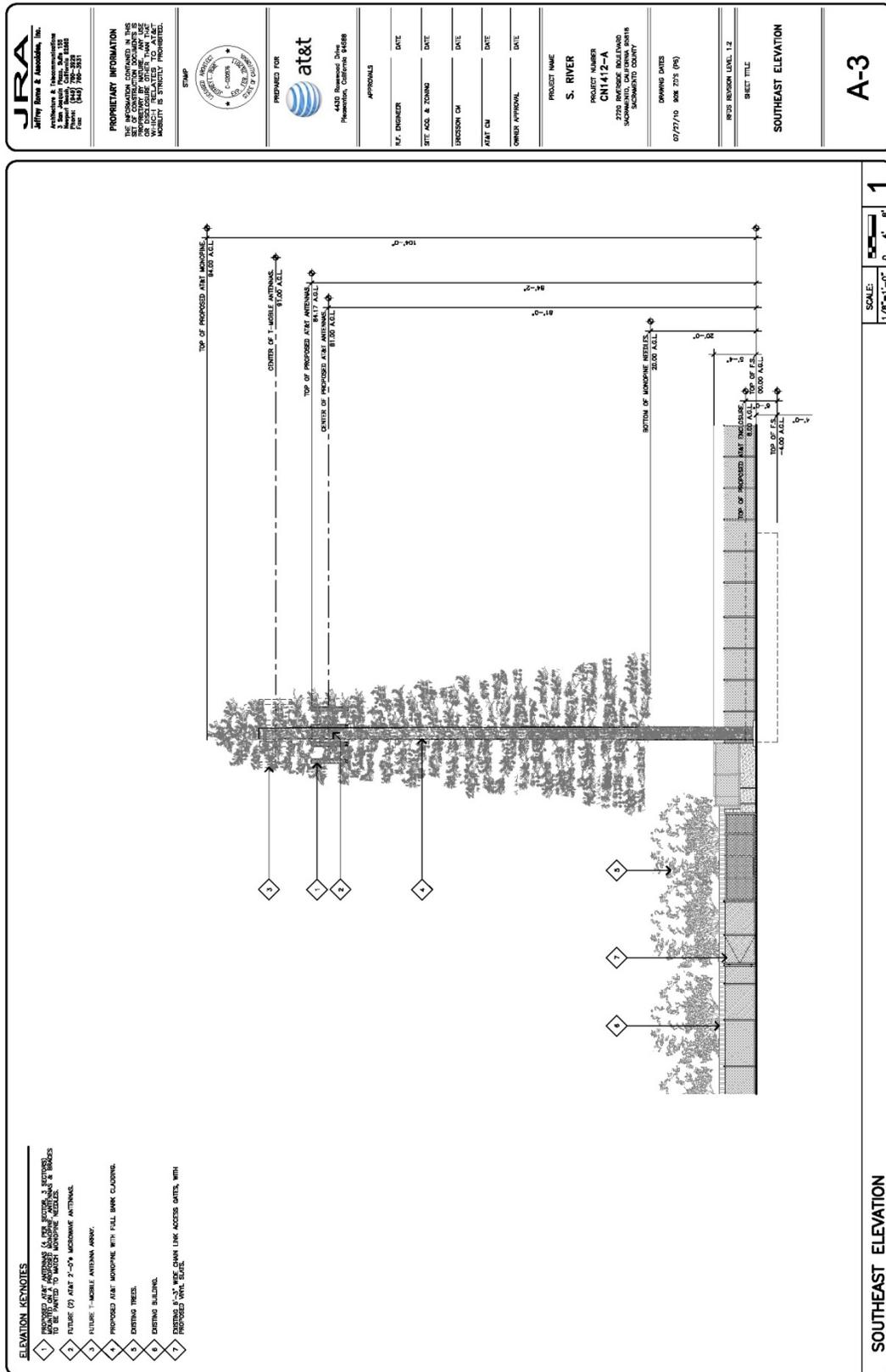
RCS DESIGN LEVEL: 1.2

SHEET TITLE
SOUTHWEST ELEVATION

A-2

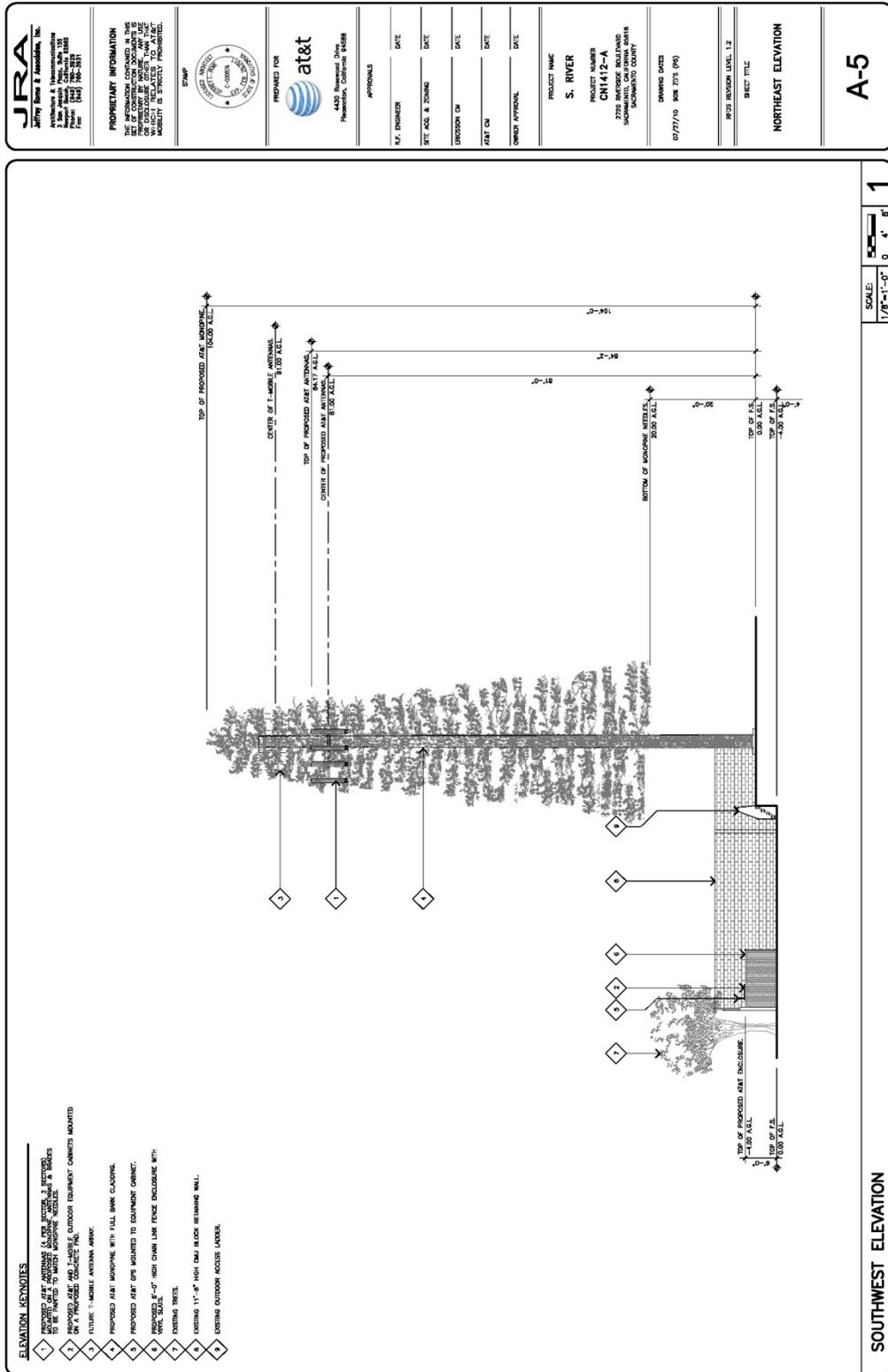
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Exhibit 1D – Southeast Elevation



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Exhibit 1F – Southwest Elevation



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Exhibit 1H - Photosimulations

July 2010

Aerial photograph showing photosimulation viewpoints.



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Previsualists
The Future of the City

July 31, 2010

Photosimulation of view looking south along Muir Way.



S. River
 2720 Riverside Blvd
 Sacramento, CA 95818
 CN1412-A



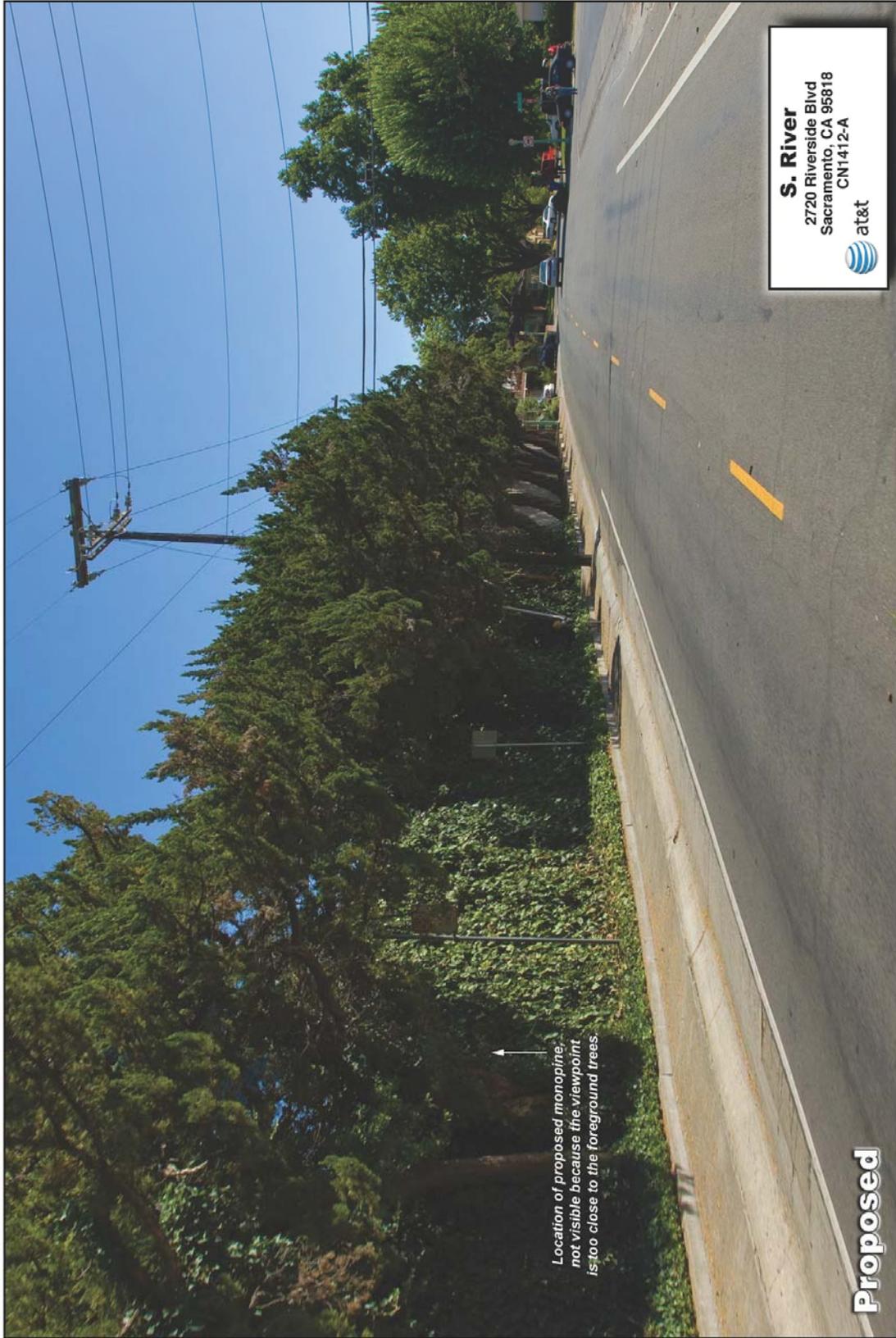
Proposed

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Previsualists
 Creative Computer Graphics, Inc.

July 31, 2010

Photosimulation of view looking southeast from Muir Way.



Location of proposed monopine, not visible because the viewpoint is too close to the foreground trees.

S. River
 2720 Riverside Blvd
 Sacramento, CA 95818
 CN1412-A

at&t

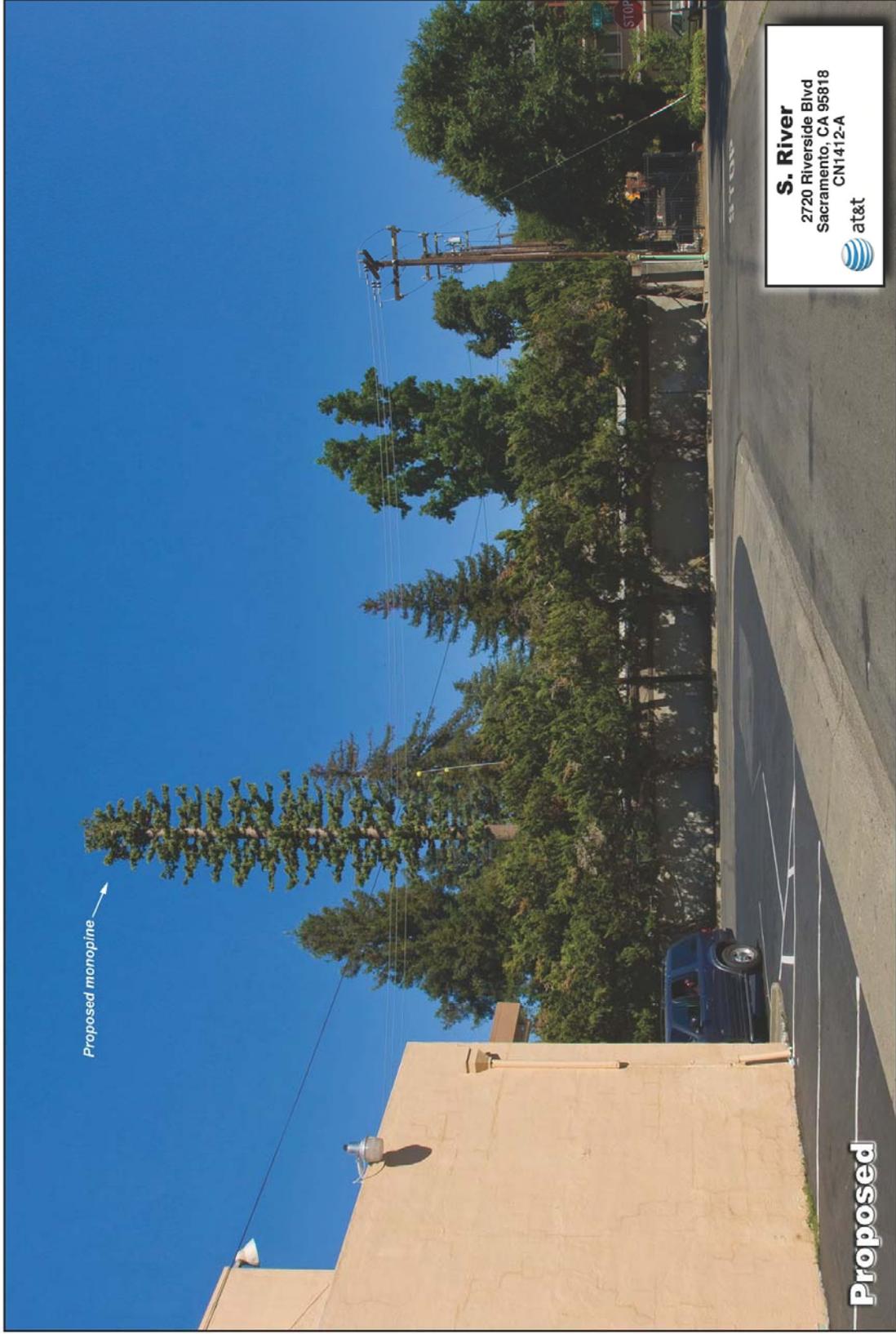
Proposed

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Previsualists
 The Computer Graphics Experts

July 31, 2010

Photosimulation of view looking east from McClatchy Way towards Muir Way, south of the market.



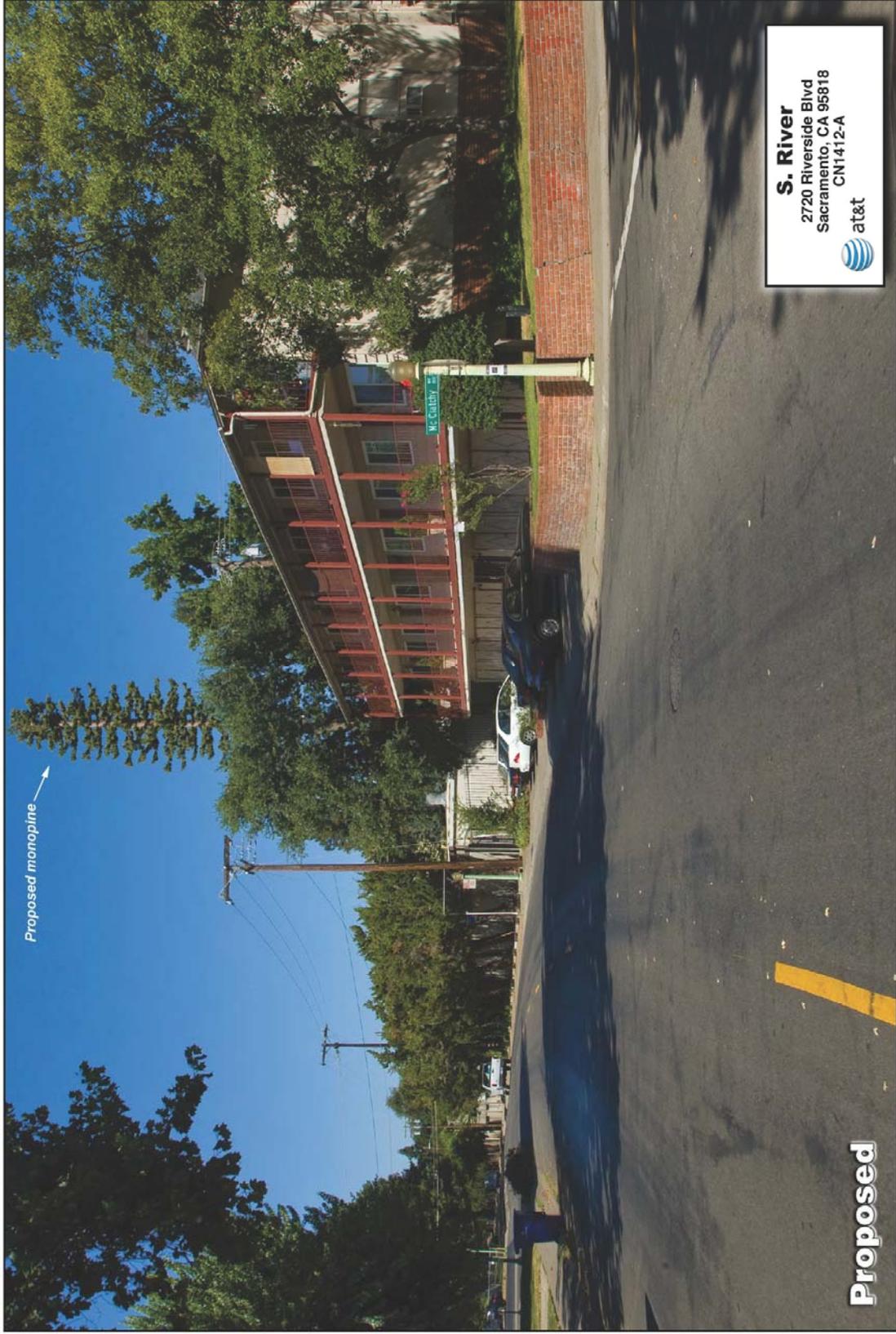
Proposed

S. River
2720 Riverside Blvd
Sacramento, CA 95818
CN1412-A
at&t

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The Creative Advantage in Engineering, Inc.

July 31, 2010

Photosimulation of view looking north along northbound Muir at McClatchy Way.



July 31, 2010

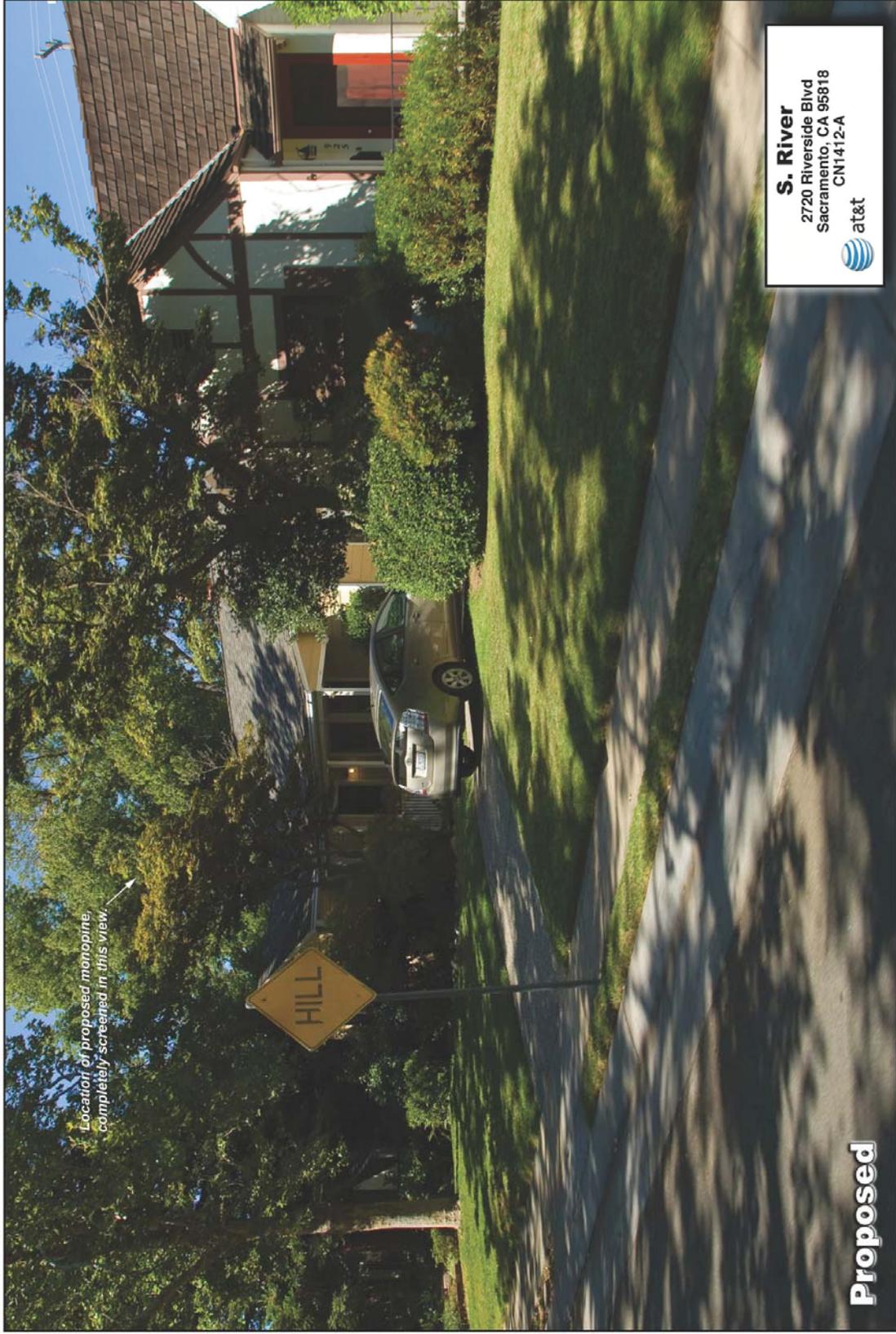
Photosimulation of view looking north from the sidewalk along Muir Way.



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July 31, 2010

Photosimulation of view looking northwest from McClatchy Way, east of Muir Way.



S. River
 2720 Riverside Blvd
 Sacramento, CA 95818
 CN1412-A

at&t

Proposed

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Previsualists
 For Your Approval & Satisfaction

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Exhibit 1I – Radio Analysis



Radio Frequency Analysis

AT&T Mobility

Site # CN1412

“S. River”

2720 Riverside Boulevard,

Sacramento, CA 95818

By: Evan Wappel

Last Update: Devan Knight

Date: 7/28/2010



Report Summary

Based upon information provided by AT&T Mobility and the design engineer, and using the calculated method for determining RF field strength, it is the engineer's opinion that the proposed AT&T Mobility site to be located at 2720 Riverside Boulevard, Sacramento, CA 95818 will comply with the FCC's current prevailing standard for limiting human exposure to RF energy.

Due to the mounting method utilized, the general public would not normally be able to approach the antennas. Therefore, no significant impact on the general population is expected. The calculated electromagnetic field strength level in publicly accessible areas is less than the existing standard allows for exposure of unlimited duration. Additionally, due to the mounting method used, no significant impact on the environment is expected.

For personnel who work within 11' of the face of an antenna, a training program in exposure to RF fields is recommended. Maintenance personnel should be instructed to contact the appropriate Carrier prior to working in front of an antenna.

Recommended Signage

There is no RF caution signs required at the site.

Background

Evan Wappel is the Market RF Safety Coordinator for AT&T Mobility and is responsible for conducting a Radio Frequency (RF) electromagnetic analysis for the AT&T Mobility site to be located at 2720 Riverside Boulevard, Sacramento, CA 95818. This analysis consists of a review of the proposed site conditions, calculation of the estimated RF field strength of the antennas, and the provision of a comparison of the estimated field strength with the Federal Communication Commission (FCC) recommended guidelines for human exposure to RF electromagnetic fields.



Site Description

Based upon the information provided by AT&T Mobility, 12 AT&T Mobility panel antennas are mounted on a monopine. The antennas will be mounted approximately 78' (to bottom of antennas) above ground level. The antennas will be oriented such that the main lobes are oriented toward the horizon. Normal public access to the front of the antennas is not expected due to the mounting location and method utilized. Occupational access to the front of the antennas is not normally expected.

RF Field Strength Calculation Methodology

A generally accepted method is used to calculate the expected RF field strength. The method uses the FCC's recommended equation¹ which predicts field strength on a worst case basis by

$$\text{Equation 1} \quad S = \frac{(2)^2 PG}{4\pi R^2} = \frac{PG}{\pi R^2} = \frac{EIRP}{\pi R^2}$$

doubling the predicted field strength. The following equation is used to predict maximum RF field strength:

Where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

¹ Reference Federal Communication Commission Office of Engineering Technology Bulletin 65



Cumulative Study

The ground level effect of the AT&T Mobility and other carriers' emissions was calculated using a maximum ERP of 349 watts. Results were calculated for a height of 6' above ground level. Using these factors, the maximum calculated AT&T Mobility fields at ground level are 0.15% of the existing standard for general population uncontrolled exposure. The additional antennas are for evaluation purposes only and the calculations for the two additional carriers are not based on actual data for any carrier.

See Table 1 for the FCC's guidelines on Maximum Permissible Exposure (MPE). Note that the RF ranges referenced for this analysis are the ranges of 300 – 1500 Mhz, and 1500 – 100,000 Mhz shown in Table 1, which is included in Appendix A.

Exposure Environments

The FCC guidelines incorporate two separate tiers of exposure limits that are dependent on the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. The decision as to which tier applies in a given situation should be based on the application of the following definitions.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

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 always fall under this category when exposure is not employment-related.



APPENDIX A
Term Definitions

Exposure Exposure occurs whenever and wherever a person is subjected to electric, magnetic or electromagnetic fields other than those originating from physiological processes in the body and other natural phenomena.

Exposure, partial-body. Partial-body exposure results when RF fields are substantially nonuniform over the body. Fields that are nonuniform over volumes comparable to the human body may occur due to highly directional sources, standing-waves, re-radiating sources or in the near field.

General population/uncontrolled exposure. For FCC purposes, applies to human exposure to RF fields when the general public is 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 always fall under this category when exposure is not employment-related.

Maximum permissible exposure (MPE). The rms and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with an acceptable safety factor.

Occupational/controlled exposure. For FCC purposes, applies to human exposure to RF fields when persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see definition above), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.



Table 1
LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

(A) Limits for Occupational/Controlled Exposure

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

(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz

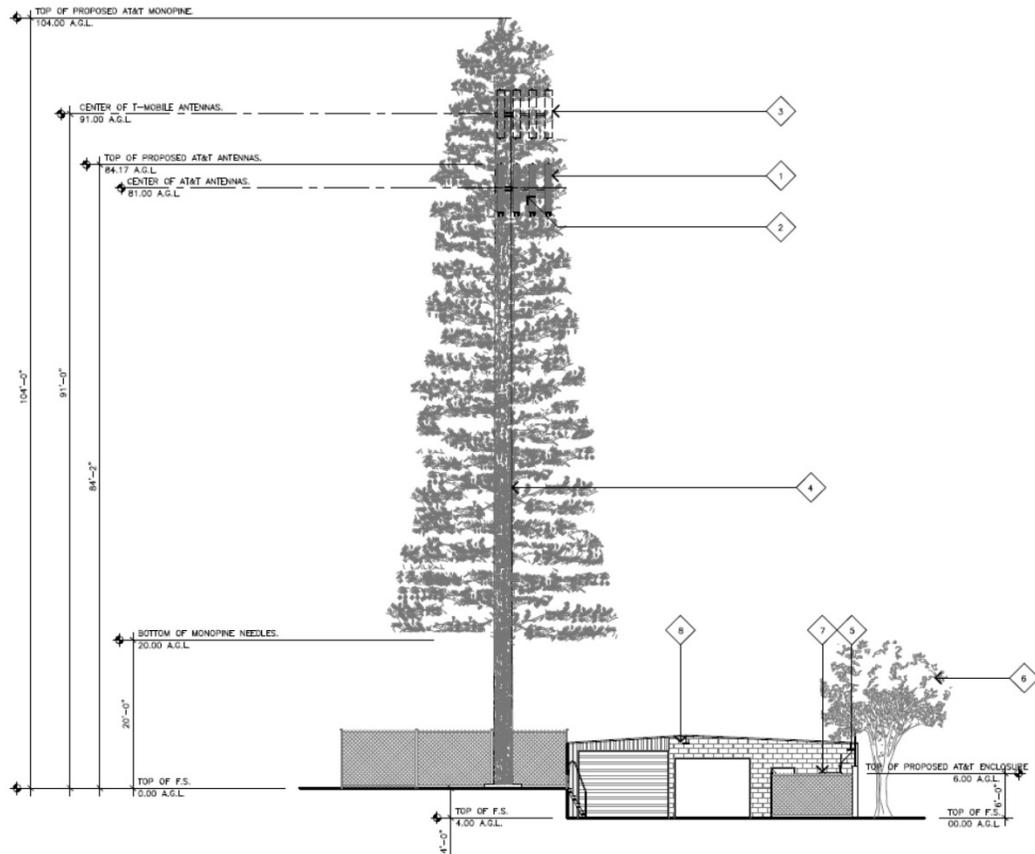
*Plane-wave equivalent power density

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

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



Drawing of site layout:



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Attachment 2 – Land Use & Zoning Map



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Attachment 3 – Applicant letter to Staff June 25, 2010



June 25, 2010

T-Mobile
C/O Ms. Rama Gulati
6728 Fair Oaks Blvd., Suite 400
Carmichael, CA 95608

Re: T-Mobile Special Permit P07-153
2661 Riverside Blvd., Sacramento
AT&T Special Permit P10-001
2720 Riverside Blvd., Sacramento

Dear Rama,

Prior to the City of Sacramento Planning Commission meeting on May 27, 2010, I was confident that Special Permit P10-001, calling for a new AT&T 94' tall monopine at Odd Fellows Cemetery, was going to be approved by the Planning Commission. I had high hopes that the following merits or support of the project would end in a favorable decision:

- Proposed site was deemed acceptable by AT&T RF Engineering in meeting their coverage objectives by improving signal strength and coverage along 4th Avenue from 5th Street to Riverside Blvd. and along Riverside Blvd. from 2nd Avenue to 13th Avenue. This site has also been designed improve coverage in areas bounded by Interstate 5, 11th Ave, Land Park Drive, Robertson Way and 4th Avenue;
- The proposed project was supported by the Land Park Community Association's (LPCA) Land Use Committee, conditional support of the project by the Association Board subject to receiving more information as to the quality of the proposed tree and public testimony by a representative of LPCA indicating support of the project;
- Support of the project by Councilman Robert Fong's office;
- City of Sacramento Planning Department Staff recommendation to the Planning Commission for approval of the Special Permit because Staff believed the subject site is a proper location for a monopine since there are a number of existing tall evergreens surrounding the proposed site at the cemetery.

On a motion by a member of the Planning Commission to approve the Special Permit, the Motion did not carry on a 6 to 3 vote. Subsequently, a motion was made to continue this project to allow AT&T and T-Mobile representatives and Staff, time to meet and see if either Carrier could collocate on the others project or find an alternative location where both Carriers could collocate and report back to the Planning Commission.

On June 3rd, you and I met with Lindsey Alagozian, Senior Planner assigned to our respective projects. I believe you would agree we left the meeting with the clear direction to share with our RF Engineers, each other's project site coordinates and multiple RAD centers to see if one or more RAD centers would allow either Carrier to collocate on the others pole while meeting the coverage objective. You were to see if the 81', 91' and 101' RAD centers would work and I was to see if 57', 67' and 77' RAD centers would work for AT&T.

27271 Las Ramblas – Suite 200 | Mission Viejo, CA 92691 | 949.502.3800 tel | 949.502.3899 fax
WWW.BLACKDOTWIRELESS.COM



Prior to our meeting that day, I took the initiative to contact my RF engineer to see if your site could work at the 70' RAD Center. The engineer replied by telling me that this site would not work because your site was not centrally located between 3 existing AT&T Sites (S305, S153 and S074) and that it was too close to S305, which is the SMUD utility pole at 1520 X Street. The distance between your site and S305 is only .34 miles while the Odd Fellows Cemetery site is .68 miles away. Naturally, a collocation at your site so close to an existing site would not be a good use of resources and would not allow the signal propagation we would need going South.

On June 8th, I had provided you with the site coordinates for my AT&T project and suggested RAD centers. I followed up on June 10th and again on June 17. On June 17th, you responded by saying you should have your RF Engineers analysis on Friday, June 18th. I have not yet received a response from you.

I recently learned that you had forwarded your site information to John Bramow at AT&T requesting that he have your site evaluated for a collocation at the 70' RAD center even after I had previously shared with you that this RAD center would not work for AT&T. Be that as it may, I would like to encourage you to provide the results of your RF propagation studies since you, I and Staff agreed that we would do just that. Also, this would be in line with the direction given to us by the Planning Commission. Please share your RF Engineer's propagation results to myself and Staff at your earliest convenience which I hope can be on or before next Friday, July 2, 2010.

In conclusion, I would like to inform you that AT&T is intending to proceed with our proposed project and would welcome and "encourage" a joint use of a new wireless facility at Odd Fellows Cemetery. I have already spoken to the general manager at the Cemetery and we have found an ideal location for both party's equipment in close proximity of the proposed monopine location. I also feel, if the need be, would could increase the size of the monopine to allow for higher RAD centers to accommodate T-Mobile and AT&T.

I remain optimistic that you and I can work together and look forward to hearing from you.

Sincerely,

A handwritten signature in blue ink that reads "Frank Schabarum".

Frank Schabarum
Authorized Representative for AT&T Mobility
Office: 530-722-0743
Mobile: 619-743-0309

cc: Doug Murphy, Bruce Piland, John Bramow, Lindsey Alagozian, Tasha Skinner, Antonio Ablog