



REPORT TO COUNCIL City of Sacramento

915 I Street, Sacramento, CA 95814-2604
www. CityofSacramento.org

4

Public Hearing
November 4, 2010

Honorable Mayor and
Members of the City Council

Title: AT & T Odd Fellows Cemetery Monopine - Appeal

Location/Council District: 2720 Riverside Blvd., Sacramento, CA; APN: 009-0030-014-0000, and 009-0030-048-0000; Council District 4

Recommendation: Conduct a public hearing and upon conclusion adopt 1) a **Resolution** determining project exempt under the California Environmental Quality Act, 2) a **Resolution** denying the appeal and approving a **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.

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

Presenters: Antonio Ablog

Department: Community Development Department

Division: Current Planning

Organization No: 1221

Description/Analysis

Issue: The applicant is requesting 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 located at 2720 Riverside Boulevard. The Planning Commission approved the Special Permit on August 12, 2010. On August 23, 2010, the Planning Commission's decision was appealed by a third party (see attachment 3).

Policy Considerations: 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, but lists the approval of new monopoles as the least desirable option for locating new telecommunication 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.

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 antennas as well as antennas from other cellular carriers. 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.

Environmental Considerations:

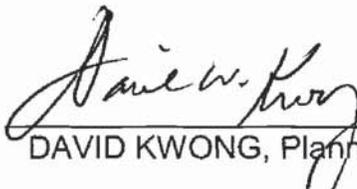
California Environmental Quality Act (CEQA): The City of Sacramento's Environmental Planning Services has reviewed this project and determined that it is exempt from review under the following provisions of the California Environmental Quality Act and/or Guidelines: CEQA Guidelines Section 15303, New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

Commission/Committee Action: The Special Permit request was heard by the Planning Commission again on August 12, 2010. The Planning Commission approved the Special Permit with a vote of 6 ayes to 2 noes. A third party appeal of this decision was submitted on August 23, 2010. A summary of the Planning Commission proceedings can be found in Attachment 2, the project background.

Rationale for Recommendation: 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 City Council deny the appeal and approve the request based on the findings of fact and subject to the conditions of approval listed in Attachment 6, the project Resolution.

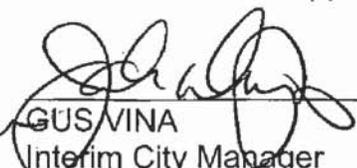
Financial Considerations: This project has no fiscal considerations.

Emerging Small Business Development (ESBD): No goods or services are being purchased under this report.

Respectfully Submitted by: 
DAVID KWONG, Planning Director

Approved by: 
MAX FERNANDEZ, Director of Community Development

Recommendation Approved:


GUS VINA
Interim City Manager

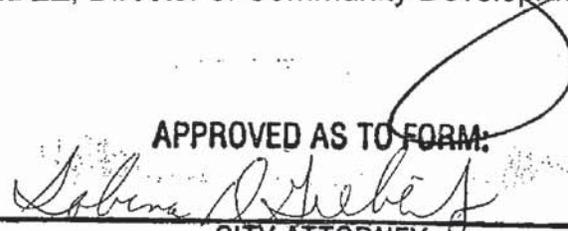
APPROVED AS TO FORM:

CITY ATTORNEY

Table of Contents:

| | |
|---|---------------|
| Report | pg. 1 |
| Attachments | |
| 1 Vicinity Map | pg. 5 |
| 2 Project Background | pg. 6 |
| 3 Planning Commission Record of Decision | pg. 9 |
| 4 Third Party Appeal | pg. 13 |
| 5 Resolution | pg. 15 (CEQA) |
| 6 Resolution | pg. 17 |
| Exhibit A - Site Plan | pg. 20 |
| Exhibit B – Site Detail | pg. 21 |
| Exhibit C – Northeast Elevation | pg. 22 |
| Exhibit D – Southeast Elevation | pg. 23 |
| Exhibit E – Northwest Elevation | pg. 24 |
| Exhibit F – Southwest Elevation | pg. 25 |
| Exhibit G – Topographic Survey | pg. 26 |
| Exhibit H – Photosimulations | pg. 27 |
| Exhibit I – Radio Survey | pg. 34 |
| Exhibit J – Propagation Maps | pg. 42 |
| 7 Recent Letters submitted to Staff | |
| In Support | pg. 45 |
| Opposed | pg. 55 |

Attachment 1 – Vicinity Map



Attachment 2 – Background

Site: 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.

Public Hearings: The original 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.

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 most 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 continue the item with the direction that the applicant work with both staff and the T-Mobile applicant of a separate monopole request located at 2661 Riverside Boulevard.

Staff met with both applicants on June 3, 2010 and directed the applicants to share information that would enable each applicant 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 2661 Riverside Boulevard site would overlap with an existing site at 1520 X Street and would not meet the coverage objectives to the south. The applicant for the 2661 Riverside Boulevard site (T-Mobile) 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 provide comparable coverage to that provided at the 2661 Riverside site. The AT & T applicant has agreed 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.

The Special Permit request was heard by the Planning Commission again on August 12, 2010. The Planning Commission approved the Special Permit with a vote of 6 ayes to 2 noes. A third party appeal of this decision was submitted on August 23, 2010.

According to the appeal (Attachment X), the appellant argues that:

1. The tower design is not optimal for the neighborhood.

Staff believes that the design and location of the proposed monopine meet the intent of the Telecommunications Guidelines which encourage “stealth” designs and discourage the proliferation of new cellular antennas. The proposed monopine is located at the southwest corner of the Odd Fellows Cemetery where it can be screened by existing mature trees. The monopine will be visible at the intersection of McClatchy Way and Muir Way, but the existing tree canopy will obscure any views of the monopine as one moves away from the intersection.

2. The new tower is approved based on speculative collocation venture.

The 104’ tower was approved on the premise that it would initially be constructed for two carriers sharing space on the monopine. If two antennas were not collocated on the tower, the applicant would have to reduce the height of the monopine back to 94’ which would still allow for future collocation opportunities.

The General Plan promotes:

- state-of-the-art telecommunication services for households, businesses, institutions, and public agencies throughout the city (Goal U 7.1); and
- 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).

Promoting these goals means not only working with telecommunications companies to meet their current needs, but also working to reduce the need to construct new facilities as technology advances. The height and location of the proposed monopine will allow AT & T to expand its services while giving the opportunity to other telecommunications companies the opportunity to erect new antennas without constructing a new pole.

3. Preferential Treatment of AT & T proposal:

The Special Permit request was approved as a 104' tall monopine with two antenna arrays, one array at 81 feet and another at 91 feet. The Commission voted to approve this request with the understanding that reducing the application to one array constituted a modification to the application that would be required to be reviewed by Planning Staff. Any modifications resulting in the loss of one of the two approved antenna arrays would require the applicant to reduce the height of the tower back down to 94 feet. Furthermore, the applicant has been conditioned to maintain the monopine and all associated equipment such that it is consistent with the approved plans.

4. The proposal does not comply with HSC Section 7020 and related Sections:

The applicant has worked with the cemetery operator to locate the monopine and all association equipment in locations that will not affect the daily functioning of the cemetery.

Attachment 3 – Planning Commission Record of Decision



**CITY OF SACRAMENTO PLANNING COMMISSION
RECORD OF DECISION
300 Richards Boulevard, Sacramento, CA 95811**

| | | |
|------------------------|--|------------------------|
| Project Name: | AT & T Odd Fellows Cemetery Monopine | |
| Project Number: | P10-001 | |
| Project Location: | 2720 Riverside Boulevard | |
| Assessor's Parcel No.: | 009-0030-014-0000, and 009-0030-048-0000 | |
| Applicant: | Frank Schabarum for AT&T, (530) 722-0743, 10516 Quail Hollow Lane, Redding, CA 96003 | |
| Action Status: | Approved with Conditions | Action Date: 8/12/2010 |

REQUESTED ENTITLEMENT(S):

- 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.

ACTIONS TAKEN: On 8/12/2010, the Planning Commission took the following actions based on the attached findings of fact and subject to the attached conditions of approval:
Approved entitlements A and B with conditions

Action certified by: 
David Kwong, Planning Manager

Sent to Applicant: 8/16/2010

By: 
Staff Signature

NOTICE OF PROTEST RIGHTS

The above conditions include the imposition of fees, dedications, reservations, or other exactions. Pursuant to California Government Code section 66020, this Notice of Decision serves as written notice to the project applicant of (1) the amount of any fees and a description of any dedications, reservations, or exactions imposed, and (2) that the applicant may file a protest against the imposition of those fees, dedications, reservations, or other exactions within 90 days of the date of this approval, which is deemed to be the date that the fees, dedications, reservations, or other exactions are imposed. If the payment of a fee is imposed as a condition of approval, but the amount of the fee is not stated in this Notice of Decision and is not otherwise available to the applicant on a fee schedule or otherwise, the 90 days protest period will begin to run when the applicant is notified of the amount of the fee.

For purposes of this notice, the following fees are deemed to be imposed upon approval of the first discretionary entitlement for the subject development project and are subject to the protest procedures set forth in Title 18 of the Sacramento City Code as indicated: North Natomas Public Facilities Fee, Transit Fee, and Drainage Fee (SCC 18.24.160); North Natomas Land Acquisition Fee (SCC 18.24.340); North Natomas School Facilities Fee (SCC18.24.710); Jacinto Creek Planning Area Facilities Fee (SCC18.28.150); Willow Creek Project Area Development Fee (SCC 18.32.150); Development Impact Fees for the Railyards, Richards Boulevard, and Downtown Areas (SCC

18.36.150); Habitat Conservation Fee for the North and South Natomas Community Plan Areas (18.40.090); and Park Development Impact Fee (18.44.140).

The time within which to challenge a condition of approval of a tentative subdivision map, including the imposition of fees, dedication, reservation, or other exaction, is governed by Government Code section 66499.37

EXPIRATION

TENTATIVE MAP: Failure to record a final map within three years of the date of approval or conditional approval of a tentative map shall terminate all proceedings.

SPECIAL PERMIT: A use for which a Special Permit is granted must be established within three years after such permit is issued. If such use is not so established, the Special Permit shall be deemed to have expired.

VARIANCE: Any variance involving an action which requires a building permit shall expire at the end of three years unless a building permit is obtained within the variance term.

PLAN REVIEW: Any plan review shall expire at the end of three years unless a building permit is obtained within the plan review term.

NOTE: Violation of any of the foregoing conditions will constitute grounds for revocation of this permit. Building permits are required in the event any building construction is planned. The County Assessor is notified of actions taken on rezoning, special permits and variances.

APPEALS

Appeals of the Planning Commission decision of this item to the City Council must be filed at 300 Richards Boulevard, 3rd Floor, within 10 calendar days of this meeting, on or before 8/23/2010. If the 10th day falls on a Sunday or holiday, the appeal may be filed on the following business day.

**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 or 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.

Appeal of Planning Commission Approval
On August 12, 2010
Odd Fellows Cemetery Monopine (P10-001)

Submitted by Dan Hood and Luree Stetson
August 23, 2010

Basis of Appeal

- A. Proposal is optimum only for AT&T, not neighborhood
 - Tower does not blend in - dominates public gathering space
 - Not surrounded by trees from public view
 - Cemetery owner refused tower on Riverside per ATT request, (allows it in back where not obtrusive to its own patrons)
 - Height, proximity and design is detrimental to the public welfare
 - Disadvantageous to public market on Muir Way
 - No photo simulation on Flint or at market entrance
 - No panels shown, up to 36 panels as low as 71 feet
 - Site conditions require tall tower – existing trees are obstructions
 - Better alternatives exist nearby in commercial zone
 - Carrier did not consider alternate locations in target area
- B. New tower approved based upon speculative collocation venture
 - Zoning ordinance allows collocation only on existing structure
 - Approval not based upon demonstrated need
- C. Preferential treatment of ATT proposal
 - Compared to proposals made by other carriers, limits competition
 - Supplemental information not made available to public until hour of meeting
 - No requirement to identify tenant carriers before approving increased height
 - No requirement to lower height if no other tenant carriers identified
 - No requirement to enter into Good Neighbor Policy for maintenance
- D. Proposal does not comply with HSC Section 7020 and related sections



Attachment 5 – Environmental Resolution

RESOLUTION NO.

Adopted by the Sacramento City Council

DETERMINING AT & T ODD FELLOWS CEMETERY PROJECT EXEMPT FROM REVIEW UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (P10-001)

BACKGROUND

- A. On August 12, 2010, the City Planning Commission conducted a public hearing on, and approved with conditions, the AT & T Odd Fellows Cemetery Monopole project.
- B. On August 23, 2010, a third party filed a timely appeal of the Planning Commission's action to the City Council.
- C. On November 4, 2010, the City Council conducted a public hearing, for which notice was given pursuant Sacramento City Code Section 17.200.010(C)(1)(d), and received and considered evidence concerning the AT & T Odd Fellows Cemetery Monopine.

A. The City of Sacramento's Environmental Planning Services has reviewed the AT & T Odd Fellows Cemetery (P10-001) ("Project") and has determined the Project is exempt from review under the California Environmental Quality Act as follows:

1. The Project is exempt under the following provisions of the California Environmental Quality Act and/or Guidelines: Section 15303-New Construction Projects.

2. The factual basis for the finding of exemption is as follows:

(a) The proposed project is consistent with the construction of a new, small equipment and facilities as it consists of the 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.

BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL RESOLVES AS FOLLOWS:

Section 1. 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 City Council finds that the Project is exempt from review under Section 15303 of the California Environmental Quality Act Guidelines as follows:

- a. The proposed project is consistent with the construction of new, small equipment and facilities as it consists of the 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.

Attachment 6 – Project Resolution



Back to Table
of Contents

RESOLUTION NO.

Adopted by the Sacramento City Council

ADOPTING FINDINGS OF FACT AND APPROVING THE AT & T ODD FELLOWS CEMETERY MONOPINE PROJECT (P10-001)

BACKGROUND

- A. On August 12, 2010, the City Planning Commission conducted a public hearing on, and approved with conditions the AT & T Odd Fellows Cemetery Monopine.
- B. On August 23, 2010, a third party filed a timely appeal of the Planning Commission's action to the City Council.
- C. On November 4, 2010, the City Council conducted a public hearing, for which notice was given pursuant Sacramento City Code Section 17.200.010(C)(1)(d), and received and considered evidence concerning the AT & T Odd Fellows Cemetery Monopine.

BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL RESOLVES AS FOLLOWS:

Section 1. Based on the verbal and documentary evidence received at the hearing on the AT & T Odd Fellows Cemetery Monopine, the City Council approves the Project entitlements based on the findings of fact and subject to the conditions of approval as set forth below.

Section 2. The City Council approves the Project entitlements based on the following findings of fact:

- A. **Environmental Determination:** The **CEQA Categorical Exemption** for the Project have been adopted by Resolution No. ____.
- 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.

SITE PLAN KEYNOTES

- 1. PROPOSED (1) AT&T ANTENNAS, (2) FUTURE 2"-Ø" MICROWAVE ANTENNAS AND (12) T-MOBILE ANTENNAS MOUNTED ON A PROPOSED MONOPINE WITH NUTLIE COAXIAL ANTENNAS & BRACES TO MATCH MONOPINE NETWORKS, SEE DETAIL 2/A-1.
- 2. PROPOSED AT&T 11'-Ø" x 9'-Ø" LEASE AREA WITH OUTDOOR EQUIPMENT RACK, PROPOSED CONCRETE PAD WITH A PROPOSED 6'-Ø" HIGH CHAIN LINK FENCE EQUIPMENT ENCLOSURE WITH WALL SLATS, SEE SHEET A-1.
- 3. EXISTING ACCESS DRIVEWAY AND PROPOSED AIRIT 15'-Ø" WIDE ACCESS ROUTE.
- 4. PROPOSED T-MOBILE 11'-Ø" x 20'-Ø" LEASE AREA WITH OUTDOOR EQUIPMENT.
- 5. PROPOSED 3"-Ø" WIDE AIRIT POWER AND TELCO CONDUIT ROUTE, DISTANCE 85'-Ø" ±.
- 6. EXISTING UTILITY POLE AND PROPOSED AT&T POWER & TELCO SOURCE.
- 7. EXISTING BUILDINGS.
- 8. PROPOSED UNDERGROUND COAXIAL CABLE ROUTE.
- 9. EXISTING MAUSOLEUM.
- 10. EXISTING ADMINISTRATION BUILDING.
- 11. EXISTING ACCESS GATE.
- 12. EXISTING CEMETERY.



SITE PLAN

SCALE: 1"=60' 0' 30' 60'

| SECTOR | DIRECTION | ANTENNA MODEL NO. | COAX CABLE LENGTH (± FT) | JUMPER LENGTH (± FT) | COAX SIZE |
|--------|-----------|-------------------|--------------------------|----------------------|-----------|
| A | NORTH | 100 | 150 | 10 | 3/8" |
| | | 100 | 150 | 10 | 3/8" |
| B | WEST | 100 | 150 | 10 | 3/8" |
| | | 100 | 150 | 10 | 3/8" |
| C | SOUTH | 100 | 150 | 10 | 3/8" |
| | | 100 | 150 | 10 | 3/8" |
| D | EAST | 100 | 150 | 10 | 3/8" |
| | | 100 | 150 | 10 | 3/8" |

ANTENNA COAXIAL CABLE SCHEDULE 2

- CONTRACTOR TO PROVIDE ALL LABOR TO INSTALL 30 RUNS OF COAX, 18 TWA'S AND 12 ANTENNAS.
- ERISSON TO PROVIDE ALL COAX, CONNECTORS, ANNULLARY EQUIPMENT (INCLUDING WEATHER STRIPPING, GROUND KITS, ETC.).
- CONTRACTOR TO COLOR CODE ALL COAX COLORED BANDS OF TAPE ON COAX IDENTIFY SECTOR, FREQUENCY, TECHNOLOGY, AND TRANSMIT GROUP AS FOLLOWS:

| SECTOR "A" | | | | | | |
|------------|-----------|-------------|-----------|-------------|-------------|------------|
| OSM 1900 | TX 1/RX 1 | TX 3 | TX 2/RX 2 | TX 4 | TX 5 | TX 6 |
| | 2 BROWN | 3BROWN/1RED | 2 ORANGE | 3ORNG/1RED | 3BROWN/2RED | 3ORNG/2RED |
| OSM 850 | TX 1/RX 1 | TX 3 | TX 2/RX 2 | TX 4 | TX 5 | TX 6 |
| | 3 BROWN | 3BROWN/1RED | 3 ORANGE | 3ORNG/1RED | 3BROWN/2RED | 3ORNG/2RED |
| UNITS 1900 | TX 1/RX 1 | TX 2/RX 2 | TX 4 | TX 5 | TX 6 | |
| | 4 BROWN | 4 ORANGE | 4 ORANGE | 3BROWN/2RED | 3ORNG/2RED | |
| UNITS 850 | TX 1/RX 1 | TX 2/RX 2 | TX 4 | TX 5 | TX 6 | |
| | 5 BROWN | 5 ORANGE | | | | |

| SECTOR "B" | | | | | | |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| OSM 1900 | TX 1/RX 1 | TX 3 | TX 2/RX 2 | TX 4 | TX 5 | TX 6 |
| | 2 YELLOW | 2YL/1RED | 2 BLUE | 2BLU/1RED | 2BLU/2RED | 2YL/2RED |
| OSM 850 | TX 1/RX 1 | TX 3 | TX 2/RX 2 | TX 4 | TX 5 | TX 6 |
| | 3 YELLOW | 3YL/1RED | 3 BLUE | 3BLU/1RED | 3YL/2RED | 3BLU/2RED |
| UNITS 1900 | TX 1/RX 1 | TX 2/RX 2 | TX 4 | TX 5 | TX 6 | |
| | 4 YELLOW | 4 BLUE | 4 BLUE | 3YL/2RED | 3BLU/2RED | |
| UNITS 850 | TX 1/RX 1 | TX 2/RX 2 | TX 4 | TX 5 | TX 6 | |
| | 5 YELLOW | 5 BLUE | | | | |

| SECTOR "C" | | | | | | |
|------------|-----------|-----------|-----------|---------|---------|---------|
| OSM 1900 | TX 1/RX 1 | TX 3 | TX 2/RX 2 | TX 4 | TX 5 | TX 6 |
| | 2 VIOLET | 2V/1RED | 2 WHITE | 2W/1RED | 2W/2RED | 2V/2RED |
| OSM 850 | TX 1/RX 1 | TX 3 | TX 2/RX 2 | TX 4 | TX 5 | TX 6 |
| | 3 VIOLET | 3V/1RED | 3 WHITE | 3W/1RED | 3V/2RED | 3W/2RED |
| UNITS 1900 | TX 1/RX 1 | TX 2/RX 2 | TX 4 | TX 5 | TX 6 | |
| | 4 VIOLET | 4 WHITE | 4 WHITE | 3V/2RED | 3W/2RED | |
| UNITS 850 | TX 1/RX 1 | TX 2/RX 2 | TX 4 | TX 5 | TX 6 | |
| | 5 VIOLET | 5 WHITE | | | | |

- WHEN ANTENNA LINES ARE DUPLEXED, THE COLOR CODE OF THE HIGHEST FREQUENCY PREVAILS (E.G. UNITS DUPLEXED WITH TWA SHOULD HAVE COLOR 4 BANDS).
- ALL ANTENNAS AND ANTENNA CABLE SHALL BE FURNISHED BY ERISSON INC. AND INSTALLED BY ANTENNA INSTALLATION CONTRACTOR.
- PRIOR TO PLACEMENT OF ANTENNA POLE MOUNTS, THE CONTRACTOR SHALL VERIFY THAT THE ADJUST AND DIMENSIONS SHOWN ON THE PLANS MATCH ACTUAL FIELD CONDITIONS. ALLOWABLE TOLERANCE: HORIZONTAL ALIGNMENT ± 1/8", VERTICAL ALIGNMENT ± 1/4".
- ANTENNA INSTALLATION CONTRACTOR SHALL PROVIDE ALL CONDUIT, CABLE TRAY, GROUNDING, ETC. FOR COMPLETE INSTALLATION OF ANTENNAS AND CABLES SHOWN AND INTEGRATED INTO A COMPLETE OPERATING SYSTEM IN ACCORDANCE WITH ERISSON INC. STANDARDS.
- NO 90 DEGREE CORNERS SHALL BE ANY MORE THAN TWO (2) 90° TURNS (OR EQUIVALENT) IN ANY CONTINUOUS LENGTH OF CONDUIT BETWEEN FULL BOXES OR SIMILAR FEATURES.
- ANTENNA CONDUIT SHALL ONLY INCLUDE FACTORY-MADE LARGE RADIUS SWEEPS AT ALL CHANGES IN DIRECTION. SWEEP RADIUS SHALL BE 18" MINIMUM ABOVE GROUND AND 30" MINIMUM BELOW GROUND.
- CONDUIT SHALL BE 3/4" MINIMUM. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC. ALL EXPOSED CONDUIT ABOVE GRADE LEVEL SHALL BE 1/2" OR RIGID GALVANIZED. ALL EXPOSED CONDUIT PROTECTED BY A BUILDING OR ON A ROOF SHALL BE EMT OR LV STABILIZED PAINTED SCHEDULE 40 PVC.
- IN HIGH TRAFFIC AREAS OR WHERE SUSCEPTIBLE TO DAMAGE CONTRACTOR SHALL PROVIDE FORMED GRIP STRIP COVER OVER COAXIAL CABLE ROUTES. WHERE CABLE IS RUN ON THE WALL, IT SHALL BE UNBENT TO WALL AND COVER WITH 14 GA. GALVANIZED FORMED SHEET METAL COVER OR MATERIAL AS DIRECTED BY ERISSON INC. CONSTRUCTION MANAGER.
- VERIFY ROUTE AND LENGTH OF CABLE PRIOR TO CUTTING. ADJUST INDICATED ROUTE AS REQUIRED TO CLEAR (Ø) EQUIPMENT AT FACILITIES.
- MAXIMUM LENGTH OF 7/8" COAX CABLE SHALL BE 140'-Ø". MAXIMUM LENGTH OF 1-1/4" COAX CABLE SHALL BE 190'-Ø". MAXIMUM LENGTH OF 1-3/8" COAX CABLE SHALL BE 235'-Ø".
- VERIFY MODEL NUMBERS OF ANTENNAS WITH ERISSON INC. SERVICES.
- THE CONTRACTOR SHALL PROVIDE TESTING OF ANTENNAS AND SHALL PROVIDE DOCUMENTATION TO THE ERISSON INC. PROJECT MANAGER.
- GENERAL CONTRACTOR TO VERIFY ALL TORQUE TOLERANCES PER THE MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.

GENERAL ANTENNA & CABLE NOTES 1

JRA
Jeffrey Roma & Associates, Inc.
Architecture & Telecommunications
3 New Century Plaza, Suite 100
Hesperia, California 92545
Phone: (949) 780-9229
Fax: (949) 780-2831

PROPRIETARY INFORMATION
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY TO JRA. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THIS PROJECT IS STRICTLY PROHIBITED.

STAMP


PREPARED FOR

 4430 Rosewood Drive
 Pleasanton, California 94588

APPROVALS

R.F. ENGINEER _____ DATE _____
 SITE ACQ. & ZONING _____ DATE _____
 ERISSON CM _____ DATE _____
 AT&T CM _____ DATE _____
 OWNER APPROVAL _____ DATE _____

PROJECT NAME
S. RIVER

PROJECT NUMBER
CN1412-A

2720 RIVERSIDE BOULEVARD
 SACRAMENTO, CALIFORNIA 95818
 SACRAMENTO COUNTY

DRAWING DATES
07/27/10 30X 20'S (P5)

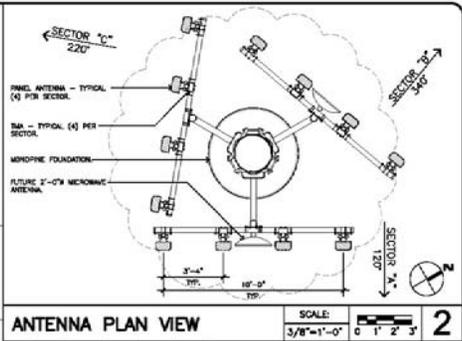
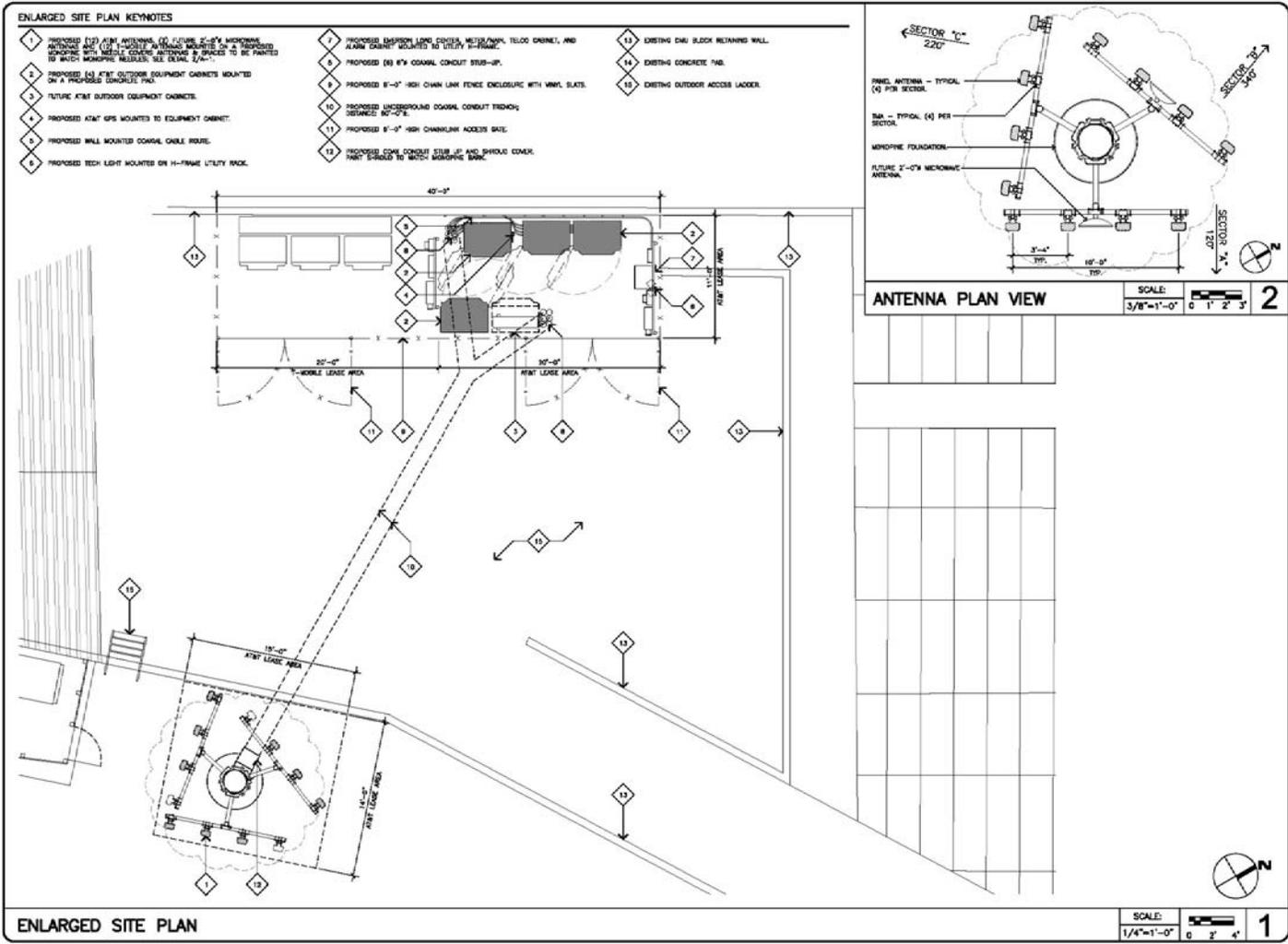
RFD'S REVISION LEVEL: 1,2

SHEET TITLE
SITE PLAN

A-0



Back to Table of Contents



JRA
Jeffrey Rowe & Associates, Inc.
Architecture & Telecommunications
1 San Jacinto Plaza, Suite 100
Sacramento, California 95845
Phone: (916) 790-3839
Fax: (916) 790-3831

PROPRIETARY INFORMATION
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS THE PROPERTY OF JRA. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH IS RELATED TO THIS PROJECT IS STRICTLY PROHIBITED.

5'AMP
UNIVERSITY MICROFILMS
SERIALS ACQUISITION
300 N ZEEB RD
ANN ARBOR MI 48106-1500

PREPARED FOR
at&t
4420 Riverwood Drive
Folsom, California 95688

APPROVALS

| | |
|--------------------|------|
| P.F. ENGINEER | DATE |
| SITE AGC. & ZONING | DATE |
| UNIONSON CM | DATE |
| AT&T CM | DATE |
| OWNER APPROVAL | DATE |

PROJECT NAME
S. RIVER

PROJECT NUMBER
CN1412-A

2700 BENTLEY BLVD #100
SACRAMENTO, CALIFORNIA 95833
SACRAMENTO COUNTY

DRAWING DATE
02/27/10 308 27'S (P4)

ISSUE REVISION LEVEL: 1.2

SHEET TITLE
ENLARGED SITE PLAN

A-1

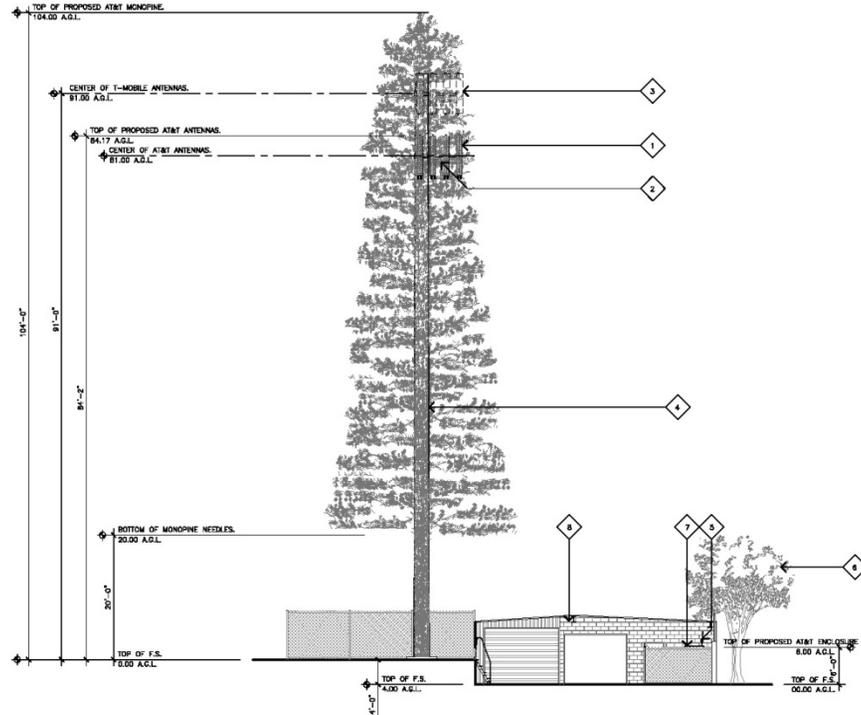
Exhibit B – Site Detail



Back to Table
of Contents

ELEVATION KEYNOTES

- ◆ PROPOSED AT&T ANTENNAS (A PER SECTION 3 SECTIONS) MOUNTED ON A PROPOSED MONOPINE. ANTENNAS & BRACES TO BE PAINTED TO MATCH MONOPINE NEEDLES.
- ◆ FUTURE (2) AT&T 2--0'S MICROWAVE ANTENNAS.
- ◆ FUTURE T--MOBILE ANTENNA ARRAY.
- ◆ PROPOSED AT&T MONOPINE WITH FULL BARK CLADDING.
- ◆ PROPOSED AT&T GPS MOUNTED TO EQUIPMENT CABINET.
- ◆ EXISTING TREES.
- ◆ PROPOSED AT&T OUTDOOR EQUIPMENT CABINETS MOUNTED ON A PROPOSED CONCRETE FND.
- ◆ EXISTING BUILDING.



NORTHEAST ELEVATION

SCALE: 1/8"=1'-0"
0 4' 8' 1

JRA
Jeffrey Rowe & Associates, Inc.
Architecture & Telecommunications
3 San Joaquin Plaza, Suite 100
Hayward, CA 94541
Phone: (415) 780-3829
Fax: (415) 780-3931

PROPRIETARY INFORMATION
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISSEMINATION OTHER THAN THAT WHICH IS RELATED TO AT&T MOBILITY IS STRICTLY PROHIBITED.

STAMP
LICENSED ARCHITECT
J. ROBERT L. ROWE
C-035518
STATE OF CALIFORNIA

PREPARED FOR
at&t
4430 Rosewood Drive
Placenton, California 94588

APPROVALS

| | |
|--------------------|------|
| R.F. ENGINEER | DATE |
| SITE ACQ. & ZONING | DATE |
| DISCUSSION CH | DATE |
| AT&T CH | DATE |
| OWNER APPROVAL | DATE |

PROJECT NAME
S. RIVER

PROJECT NUMBER
CN1412-A

2720 RIVERSIDE BOULEVARD
SACRAMENTO, CALIFORNIA 95818
SACRAMENTO COUNTY

DRAWING DATES
02/27/10 90% 70'S (P4)

REDS REVISION LEVEL: 1,2

SHEET TITLE
SOUTHWEST ELEVATION

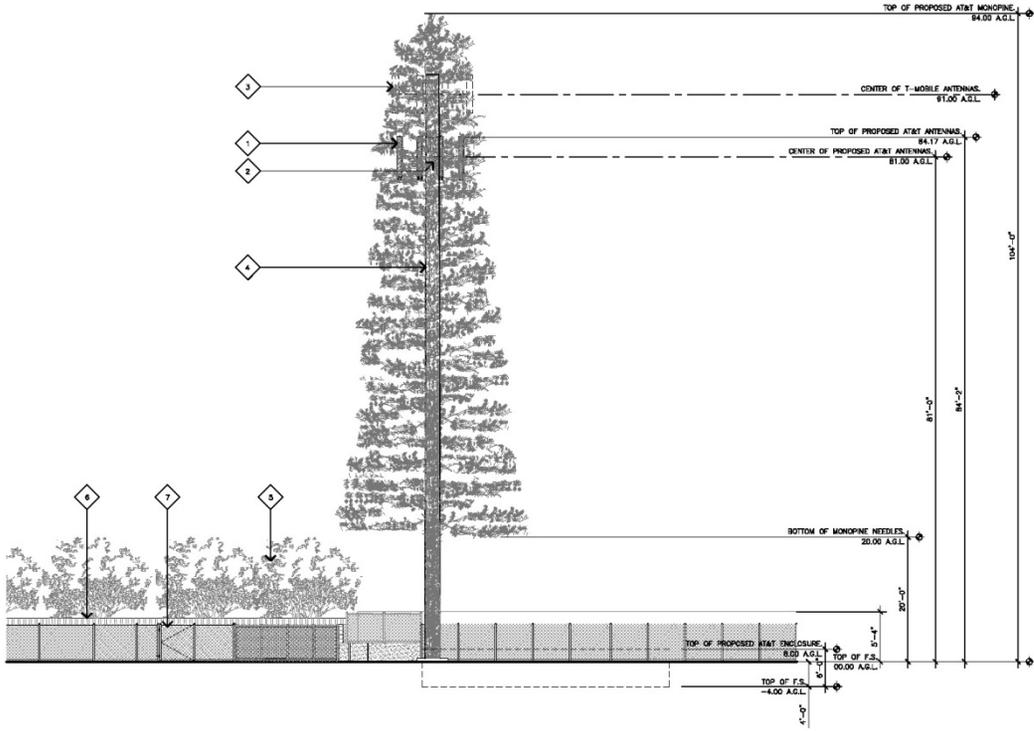
A-2

Exhibit C – Northeast Elevation

Third Party Appeal of the AT & T Odd Fellows Cemetery Monopine November 4, 2010

ELEVATION KEYNOTES

- 1 PROPOSED AT&T ANTENNAS (4 PER SECTOR, 3 SECTORS) MOUNTED ON A PROPOSED MONOPINE ANTENNA & BRACES TO BE PAINTED TO MATCH MONOPINE NETZELS.
- 2 FUTURE (2) AT&T 2'-0" MICROWAVE ANTENNAS.
- 3 FUTURE T-MOBILE ANTENNA ARRAY.
- 4 PROPOSED AT&T MONOPINE WITH FULL BARK CLADDING.
- 5 EXISTING TREES.
- 6 EXISTING BUILDING.
- 7 EXISTING 8'-3" WIDE CHAIN LINK ACCESS GATES, WITH PROPOSED VINYL SLATS.



SOUTHEAST ELEVATION

SCALE: 1/8"=1'-0" 0 4' 8' 1

JRA
 Jeffrey Rowe & Associates, Inc.
 Architecture & Telecommunications
 3 New Avenue Plaza, Suite 100
 Sutter Park, California 94583
 Phone: (925) 780-3929
 Fax: (925) 780-3931

PROPRIETARY INFORMATION
 THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH IS RELATED TO AT&T MOBILITY IS STRICTLY PROHIBITED.



PREPARED FOR

 4430 Rosewood Drive
 Pleasanton, California 94588

APPROVALS

| | |
|--------------------|------|
| R.F. ENGINEER | DATE |
| SITE AGG. & ZONING | DATE |
| URDISION CM | DATE |
| AT&T CM | DATE |
| OWNER APPROVAL | DATE |

PROJECT NAME
S. RIVER
 PROJECT NUMBER
CN1412-A
 2790 RIVERSIDE BOULEVARD
 SACRAMENTO, CALIFORNIA 95818
 SACRAMENTO COUNTY

DRAWING DATES
 07/27/10 BOX 20'S (P6)

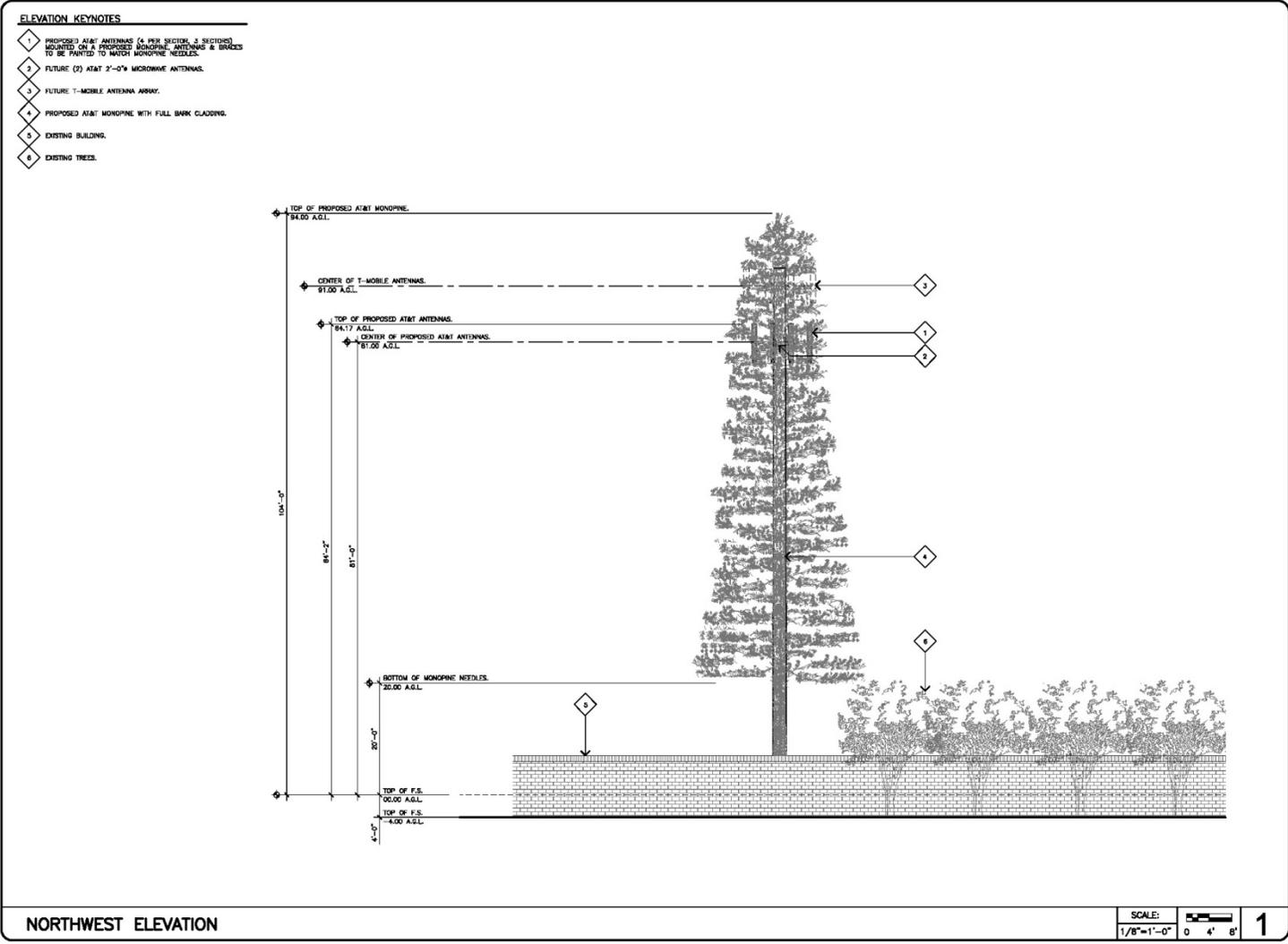
RF'S REVISION LEVEL 1.2
 SHEET TITLE

SOUTHEAST ELEVATION

A-3



Back to Table
of Contents



JRA
Jeffrey Roma & Associates, Inc.
Architecture & Telecommunications
3 Sun Street Plaza, Suite 100
Newport Beach, California 92660
Phone: (949) 780-2828
Fax: (949) 780-2831

PROPRIETARY INFORMATION
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY JRA. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AT&T MOBILITY IS STRICTLY PROHIBITED.

STAMP
LICENSED ARCHITECT
C-60658
FEB 2008
STATE OF CALIFORNIA

PREPARED FOR
at&t
4430 Rosewood Drive
Fremont, California 94588

APPROVALS

| | |
|--------------------|------|
| R.F. ENGINEER | DATE |
| SITE ACQ. & ZONING | DATE |
| DISCUSSION CM | DATE |
| AT&T CM | DATE |
| OWNER APPROVAL | DATE |

PROJECT NAME
S. RIVER

PROJECT NUMBER
CN1412-A

2720 RIVERSIDE BOULEVARD
SACRAMENTO, CALIFORNIA 95819
SACRAMENTO COUNTY

DRAWING DATES
07/27/10 80% 73% (P&S)

RD/S REVISION LEVEL: 1.2

SHEET TITLE
NORTHWEST ELEVATION

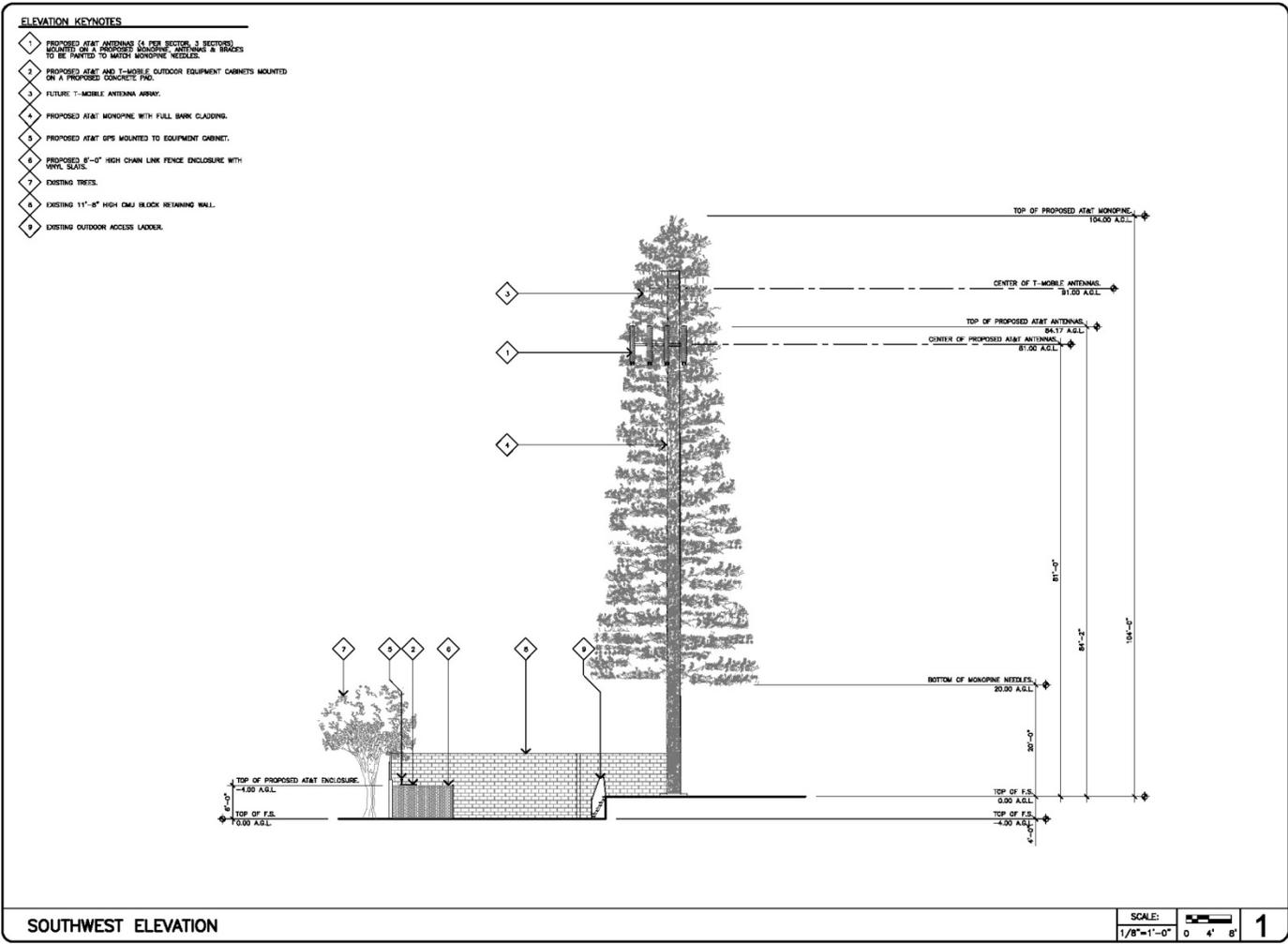
A-4

Exhibit E – Northwest Elevation

Third Party Appeal of the AT & T Odd Fellows Cemetery Monopine November 4, 2010



Back to Table of Contents



SOUTHWEST ELEVATION

SCALE: 1/8"=1'-0" 0 4' 8' 1

JRA
 Jeffrey Roma & Associates, Inc.
 Architecture & Telecommunications
 3 San Jacinto Plaza, Suite 100
 Newport Beach, California 92660
 Phone: (949) 780-3929
 Fax: (949) 780-3931

PROPRIETARY INFORMATION
 THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH IS RELATED TO AT&T MOBILITY IS STRICTLY PROHIBITED.

STAMP

PREPARED FOR

 4430 Rosewood Drive
 Pleasanton, California 94588

APPROVALS

| | |
|--------------------|------|
| J.R. ENGINEER | DATE |
| SITE AGG. & ZONING | DATE |
| EROSION CN | DATE |
| AT&T CN | DATE |
| OWNER APPROVAL | DATE |

PROJECT NAME
S. RIVER

PROJECT NUMBER
CN1412-A

2720 RIVERSIDE BOULEVARD
 SACRAMENTO, CALIFORNIA 95818
 SACRAMENTO COUNTY

DRAWING DATES
 02/27/10 90% 2D'S (P)

RFCS REVISION LEVEL 1.2

SHEET TITLE
NORTHEAST ELEVATION

A-5

Exhibit F – Southwest Elevation

Aerial photograph showing photosimulation viewpoints.



© Copyright 2009, Previsualists Inc., all rights reserved. Any modification, alteration, cropping, copying or editing of any portion of this image is strictly prohibited and considered a violation of US copyright laws. This photosimulation is based upon information provided by the project applicant. Questions or comments? call 1-877-799-3210 or visit www.photosim.com



Photosimulation of view looking south along Muir Way.



*Location of proposed monopine,
completely screened in this view.*

Proposed

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

Photosimulation of view looking southeast from Muir Way.



© Copyright 2009, Previsualists Inc., all rights reserved. Any modification, alteration, cropping, copying or editing of any portion of this image is strictly prohibited and considered a violation of US copyright laws. This photosimulation is based upon information provided by the project applicant. Questions or comments? call 1-877-799-3210 or visit www.photosim.com

Previsualists
Custom Computer Graphics, LLC

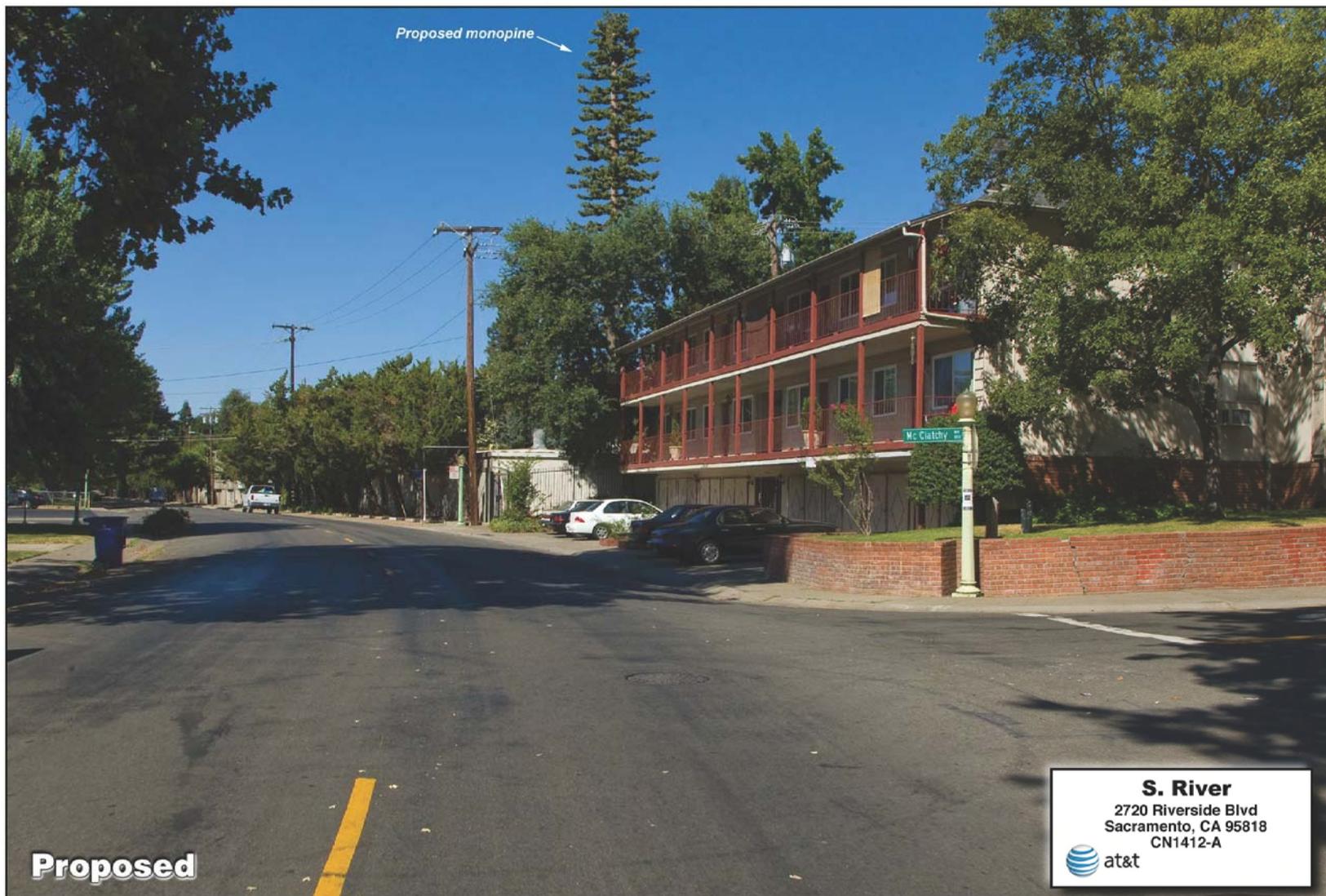
Photosimulation of view looking east from McClatchy Way towards Muir Way, south of the market.



© Copyright 2009, Previsualists Inc., all rights reserved. Any modification, alteration, cropping, copying or editing of any portion of this image is strictly prohibited and considered a violation of US copyright laws. This photosimulation is based upon information provided by the project applicant. Questions or comments? call 1-877-799-3210 or visit www.photosim.com

Previsualists
Custom Computer Graphics, LLC

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



© Copyright 2009, Previsualists Inc., all rights reserved. Any modification, alteration, cropping, copying or editing of any portion of this image is strictly prohibited and considered a violation of US copyright laws. This photosimulation is based upon information provided by the project applicant. Questions or comments? call 1-877-799-3210 or visit www.photosim.com

Previsualists
Custom Computer Graphics, LLC

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



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



Existing

Proposed

© Copyright 2010, Previsualists Inc., all rights reserved. Any modification, alteration, cropping, copying or editing of any portion of this image is strictly prohibited and considered a violation of US copyright laws. This photosimulation is based upon information provided by the project applicant. Questions or comments? call 1-877-799-3210 or visit www.photosim.com



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



© Copyright 2009, Previsualists Inc., all rights reserved. Any modification, alteration, cropping, copying or editing of any portion of this image is strictly prohibited and considered a violation of US copyright laws. This photosimulation is based upon information provided by the project applicant. Questions or comments? call 1-877-799-3210 or visit www.photosim.com



Back to Table
of Contents



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

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

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 (E ² , H ² or S) (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|---|---|
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 |
| 3.0-30 | 1842/f | 4.89/f | (900/f ²)* | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | -- | -- | f/300 | 6 |
| 1500-100,000 | -- | -- | 5 | 6 |

(B) Limits for General Population/Uncontrolled Exposure

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

f = frequency in MHz

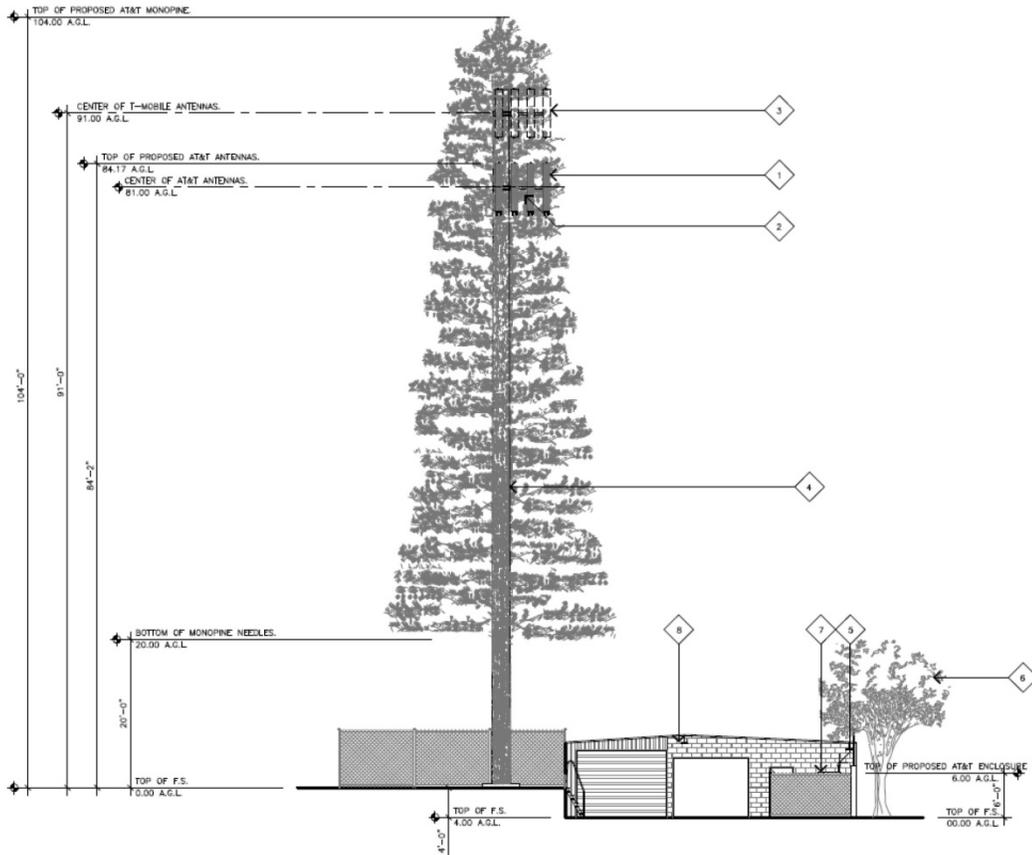
*Plane-wave equivalent power density

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

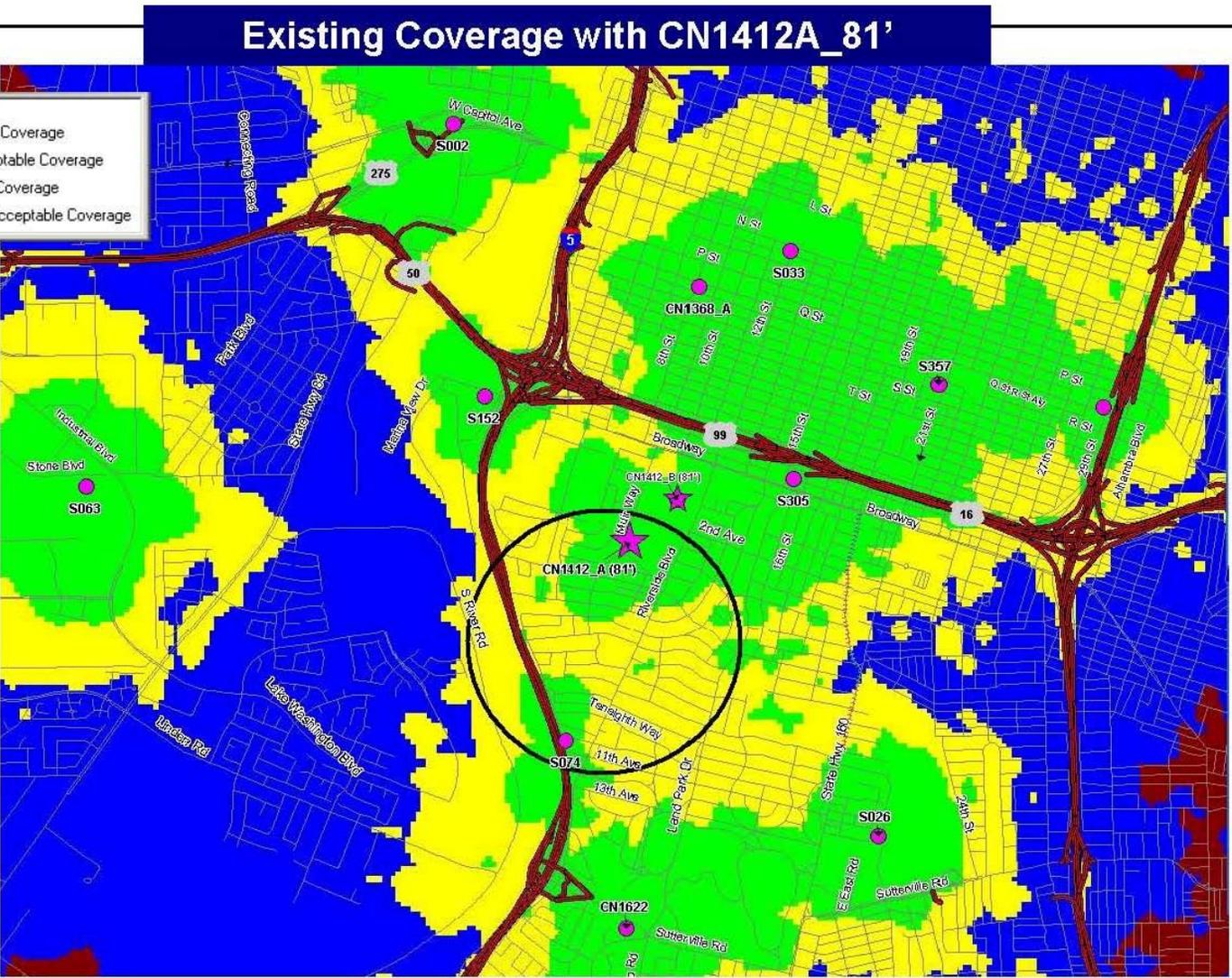
NOTE 2: **General population/uncontrolled** exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.



Drawing of site layout:



Coverage with Odd Fellows Site



Attachment 7 – Recent Letters Submitted to Staff
In Support



Back to Table
of Contents

From: [Philip Coelho](#)
To: [Antonio Ablog](#);
cc: [John Chapman](#);
Subject: Support for AT&T tower at 2720 Riverside Blvd.
Date: Monday, October 18, 2010 9:14:10 AM

Sacramento City Planner

I am strongly supporting the erection of an AT&T tower at 2720 Riverside Blvd as it will be a great boon for small businesses as well as individuals with personal cell phones. The location is well chosen not only because of its coverage but because of its proximity to the freeway and a light industrial area will allow its structure to blend in.

Philip H. Coelho
President & CEO
Synergenesis Inc.
1919 21st Street, Suite 203
Sacramento, Calif. 95811
(O) 1-916-706-0943
(C) 1-916-768-5101

www.synergenesisinc.com

From: [Jim DeShon](#)
To: [Antonio Ablog;](#)
Subject: 2720 Riverside Boulevard
Date: Thursday, October 14, 2010 10:50:01 AM

just like to voice my support for the proposed AT&T cell tower in the Odd Fellow Cemetery. We AT&T customers are in desperate need of a cell tower in this area and this blends in just fine.

Thank you,

Jim DeShon
jimd@macnexus.org
Mobile #916-606-2932

From: [T Ditter](#)
To: [Antonio Ablog](#);
Subject: AT&T Cell site at the Odd Fellow Cemetery located on 2720 Riverside Boulevard - YES!
Date: Wednesday, October 13, 2010 8:47:03 AM

Dear Mr. Ablog,

I wanted to write in support of the proposed AT&T cell site at the Odd Fellow Cemetery on 2720 Riverside Boulevard. After reviewing what was proposed and seeing pictures of what it would look like aesthetically, I fully approve and want this proposed cell site to happen. I'm a born and raised Sacramentan and I am an AT&T customer who is also in need of this tower and improved service for downtown Sacramento.

Thank you,

Tevye Ditter
4214 Thornhill Drive
Sacramento, CA 95826

From: bmuttera@prefcap.com
To: [Antonio Ablog;](#)
Subject: ATT cell site - 2720 Riverside Blvd.
Date: Tuesday, October 12, 2010 10:09:31 AM

I am a Land Park resident and support ATT's request for a cell site at 2720 Riverside Blvd. This will provide much needed cell service improvement for the area. Thank you.

Robert Muttera

Sent via BlackBerry by AT&T

From: [Suzy](#)
To: [Antonio Ablog;](#)
Subject: Better Wireless Service
Date: Tuesday, October 12, 2010 8:14:39 PM

I support AT&T's attempt to improve our wireless service in the city by installing a cell tower in the cemetery on Riverside. Please approve this request.

Thank you,
Suzy Cornell
1268 7th Ave.
Sacramento,CA 95818

From: [Toni Jordan](#)
To: [Antonio Ablog;](#)
Subject: Cell site
Date: Tuesday, October 12, 2010 12:24:22 PM

Please record me as a yes vote for the cell site at the cemetery.
Toni Jordan
1078 Perkins Way
Sacramento 95818

From: [bobstockwell1](#)
To: [Antonio Ablog;](#)
Subject: Cell tower site
Date: Tuesday, October 12, 2010 11:38:38 AM

Please record me as a yes vote on the cell site at 2720 Riverside Blvd.
Bob Stockwell
1078 Perkins Way
Sacramento,CA 95818

From: [tasoulas](#)
To: [Antonio Ablog;](#)
Subject: I support the cell site
Date: Tuesday, October 12, 2010 10:35:10 AM

TPapajohn

From: [Edward Fergusson](#)
To: [Antonio Ablog](#);
Subject: Proposed Cell Site at 2720 Riverside Boulevard
Date: Wednesday, October 13, 2010 10:00:11 AM
Attachments: [image.png](#)

Antonio Ablog,

I wish to voice support for the cell tower proposed for 2720 Riverside Boulevard. We need better cell service in Sacramento. While I am sure no one wants the cell tower in their yard, it would appear that AT&T has taken steps to make this tower blend in to the neighborhood as much as possible. Please pass my support for this on to the Council.

Thank You,

Ed Fergusson



CHURCH STATE COUNCIL

A religious liberty ministry of the Pacific Union
Conference of Seventh-day Adventists

Edward W. Fergusson, M.Div.
Director of Government Relations

1228 N Street, Suite 1
Sacramento, CA 95814
Phone: 916-446-2552 • Fax: 916-446-6543
ed@churchstate.org • www.churchstate.org

The contents of this email may be privileged, confidential, and otherwise protected from disclosure. If you are not the intended recipient, any dissemination, distribution, or copying is strictly prohibited. If you have received this email in error, please contact the sender at ed@churchstate.org.

From: [GERALD PERRY](#)
To: [Antonio Ablog](#);
Subject: Riverside Blvd Cell Site
Date: Tuesday, October 12, 2010 9:56:36 PM

I support the proposed construction of the AT&T cell tower at 2720 Riverside Blvd. The coverage in this area is marginal, and this tower would much improve the situation.
Thank You.

Gerald M. Perry
581 Jones Way
Sacramento, CA, 95818



Back to Table
of Contents

From: [Anne Oncken](#)
To: [Antonio Ablog;](#)
Subject: AT&T Proposed tower at Odd Fellows Cemetary
Date: Tuesday, October 12, 2010 4:47:53 PM

I live on Fremont Way, across Riverside Blvd., use an ATT cell phone, and spend time doing lovely walks in the adjacent cemeteries. My cell phone reception has improved greatly in the last 3 years and I'm quite satisfied with it, and would hate to see any changes to the lovely Odd Fellow Cemetery.

Thank you,
Anne Oncken

*Anne Oncken
1142 Fremont Way
Sacramento, CA
95818
Note new phone:
916-425-1093 (cell)
an_neo@hotmail.com*

From: [Michele Lyon-Brown](#)
To: [Antonio Ablog](#);
Subject: RE: cell site at Odd Fellows
Date: Monday, October 18, 2010 3:50:11 PM

Oh my gosh.

My letter dealt with seeing the installation of a cell tower in a negative light.

I outlined that I basically felt it something akin to a psychological desecration of this tranquil and peaceful setting and a distraction. I mentioned that I have generations of family buried therein and having grown up in the Land Park and South Land park areas that I as well having many friends and their families interred there.

I asked what remuneration might have been proffered for this and did the installation require disinterment of presidents therein. I also mentioned that the documents relating to development of burial sites might have, had they anticipated something such as this, inserted language restricting same as this is not compatible with a final resting place surrounded by lovely trees and landscaping.

I have been in contact with other family members, most of whom had the same feelings as I am expressing, some a little more offended and one who had no objection and liked the aspect of revenue streaming. When I had my property appraised earlier this year for a loan I had an appraiser who knocked me down because there is a cell tower on the adjacent property and he made a point of marking that in the appraisal in a negative light so it does affect values in real terms.

Also mentioned is that it is an attraction for possible mischief and vandalism and certainly does not uphold neighborhood values in a terrifically declining (yes it still is and will continue for quite awhile) market. I mentioned also that notwithstanding contracts entered into for maintenance it has been my personal experience that this is not done or addressed once installation is completed and subject sites are virtually ignored except when other cell servers desire to add on their equipment, which they will and do intensifying the negative aspects.

Why not move it outside and west of the location under consideration?

I hope, respectfully, that you will consider in a positive manner these points.

Regards,