TO: Zoning Hearing Officer
FROM: Planning Staff
SUBJECT: Consideration of Use Permit Renewal, pursuant to Section 6512.6 of the Zoning Regulations, to allow the continued operation of an existing wireless telecommunication facility operated by AT&T Mobility. The project site is located within a portion of the CalTrans right-of-way between Lawler Ranch Road to the east and Highway I-280 to the west (near 10 Lawler Ranch Road), in the unincorporated Stanford Lands area of San Mateo County. The site is located within the Junipero Serra State Scenic Corridor.

County File Numbers: PLN 2010-00205 (AT&T)

PROPOSAL

The project applicant, Kathryn Leal of Epic Wireless, proposes on behalf of AT&T to renew an existing Use Permit (PLN 2010-00205) to allow the continued operation of a wireless telecommunication facility located within the CalTrans right-of-way and on the west side of Highway I-280, in the unincorporated Stanford Lands area of San Mateo County. The existing facility consists of a 22-foot-high monopole, nine (9) antennas, and associated equipment within a 25’ x 15’ 3” lease area (enclosed by a 7-foot chain link fence with green slats). Since the 2010 Use Permit approval, several building permits have been issued to allow minor modifications, which qualify for Federal preemption under the Middle-Class Tax Relief and Job Creation Act of 2012, including the replacement and installation of antennas and associated equipment. No additional physical changes are proposed under this renewal.

RECOMMENDATION

That the Zoning Hearing Officer approve the Use Permit Renewal, County File No. PLN 2010-00205 by making the required findings and adopting the conditions of approval listed in Attachment A.
BACKGROUND

Report Prepared By: Glen Jia, Project Planner; bjia@smcgov.org

Applicant: Kathryn Leal of Epic Wireless for AT&T Mobility

Owner: California Department of Transportation (CalTrans)

Public Notification: Ten (10) day advanced notification for the hearing was mailed to property owners within 300 feet of the project parcel and a notice for the hearing posted in a newspaper San Mateo Times.

Location: Within a CalTrans right-of-way, on the west side of Highway I-280, in the unincorporated Stanford Lands area of San Mateo County

APN: N/A; Adjacent to 073-250-050 (10 Lawler Ranch Road)

Parcel Size: N/A

Existing Zoning: R-E/S-11 (Residential Estates/Residential Density District 11)

General Plan Designation: Mixed, Institutional/Open Study/Future Study

Existing Land Use: Wireless Telecommunication Facility

Flood Zone: Zone X (Areas of Minimal Flood Hazard); Community Panel No. 06081C0311E; effective date October 16, 2012.

Environmental Evaluation: The project is categorically exempt pursuant to Section 15301, Class 1, of the California Environmental Quality Act (CEQA) Guidelines for the continued operation of existing public or private facilities involving no physical changes or expansion of use.

Setting: This site is approximately 0.25 miles north of the intersection of Lawler Ranch Road and Sand Hill Road, on the east side of Lawler Ranch Road. Lawler Ranch Road is a public road leading to existing telecommunication facilities for AT&T. The project site is located within a CalTrans right-of-way and approximately 125 feet west of Highway I-280, which is part of the Junipero Serra State Scenic Corridor. The Existing facility consists of nine (9) antennas on a 22-foot monopole and associated equipment occupying a 25’ x 15’ 3” lease area. The subject parcel is surrounded by developed and vacant lots owned primarily by Leland Stanford Jr. University.
Chronology:

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<td>November 10, 2010</td>
<td>Original Use Permit Granted</td>
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<td>May 10, 2013</td>
<td>Building Permit No. BLD 2013-00565 issued for minor modifications, including the installation of equipment associated with the existing facility</td>
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<td>June 9, 2016</td>
<td>Building Permit No. BLD 2016-00268 issued for minor modifications, including the replacement and installation of antennas and associated equipment</td>
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<td>August 2, 2018</td>
<td>Building Permit No. BLD 2018-01184 issued for minor modifications, including the replacement and installation of antennas and associated equipment</td>
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<td>Received application and payment for use permit renewal for planning application number PLN 2010-00205 (AT&amp;T)</td>
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<tr>
<td>December 16, 2021</td>
<td>Requested information provided by Applicant</td>
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<td>April 8, 2022</td>
<td>Building Permit No. BLD 2021-02312 issued for minor modifications, including the replacement and installation of antennas and associated equipment</td>
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<td>May 4, 2022</td>
<td>Additional information provided by Applicant</td>
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<td>May 5, 2022</td>
<td>Application deemed complete</td>
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<tr>
<td>August 18, 2022</td>
<td>Zoning Hearing Officer public hearing</td>
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**DISCUSSION**

**A. KEY ISSUES**

1. **Conformance with the General Plan**

The project continues to conform with the applicable General Plan policies for Visual Quality and Land Use as no additional physical changes to the existing facility are proposed. The site is located within Junipero Serra State Scenic Corridor. The project site is wooded, and the facility is not visible from the Junipero Serra Freeway (I-280). The existing facility maintains appropriate screening and colors. For these reasons, the existing facility does not result in any negative impact on views.
2. **Conformance with Zoning Regulations**

The project site is located within the R-E/S-11 (Residential Estates/Single-family Residential) zoning district. The existing wireless telecommunication facility is operating under PLN 2010-00205 Use Permit. No additional physical changes are proposed.

3. **Conformance with Wireless Telecommunication Facilities Ordinance**

Staff has determined that the project complies with the applicable standards of the Wireless Telecommunication Facilities (WTF) Ordinance, as discussed below:

a. **Development and Design Standards**

   Section 6512.2.E – G seeks to minimize and mitigate visual impacts from public views by designing facilities to blend in with the surrounding environment, maintaining exterior equipment to blend with the surrounding environment and/or buildings and requiring facilities to be constructed of non-reflective materials.

   The existing facility is screened by a 7-foot high chainlink fence with green slats and is constructed of non-reflective materials. No additional physical changes to the facility are proposed.

4. **Conformance with Use Permit Findings**

In order to approve the subject Use Permit Renewal, the Zoning Hearing Officer must make the following findings:

a. **That the establishment, maintenance, and/or conducting of the use will not, under the circumstances of the particular case, result in a significant adverse impact to coastal resources, or be detrimental to the public welfare or injurious to property or improvements in the neighborhood.**

   The existing telecommunication facility is not located in the Coastal Zone and has been in operation since 2010. The facility will continue to be unmanned and requires regular maintenance visits to test the equipment. Thus, the continued operation of the existing facility does not generate significant traffic, noise, or intensify the use of the site. Additionally, the facility will continue to meet the federal standards for radio frequency (RF) emission, as further discussed in Attachment E. No additional physical changes to the facility are proposed.
b. That the telecommunication facilities are necessary for the public health, safety, convenience, or welfare of the community.

Staff has determined that the continued operation of the existing cellular facility at this location will allow for continued cellular communication coverage for private citizens and businesses. The existing wireless telecommunication facility has been in existence for over ten years. Community members, businesspersons, and residents have come to rely on the coverage provided by these sites to facilitate daily conversation and to provide assistance in emergency situations.

5. Conformance with Conditions of Last Use Permit Approvals

Staff has reviewed the previous Use Permit conditions of approval for AT&T (PLN 2010-00205), last approved November 10, 2010 and has determined AT&T Mobility is in compliance with all previous conditions, see Attachment E. No additional physical changes are proposed as part of the renewal. Previous conditions that remain relevant, along with new conditions, are included in Attachment A of this staff report.

B. ENVIRONMENTAL REVIEW

The project is categorically exempt pursuant to Section 15301, Class 1, of the CEQA Guidelines for the continued operation of existing public or private facilities involving no alterations or expansion of use as no additional physical changes are proposed.

C. REVIEWING AGENCIES

San Mateo County Building Inspection Section
San Mateo County Department of Public Works
Woodside Fire Protection District
Caltrans

ATTACHMENTS

A. Recommended Findings and Conditions of Approval
B. Location Map
C. Project Plans
D. Photos of Existing Wireless Telecommunication Facility
E. PLN 2010-00205 Conditions from the 2010 Use Permit Approval
F. Radio Frequency Emissions Compliance Report

GJI:cmc – GJIGG0237_WCU.DOCX
RECOMMENDED FINDINGS AND CONDITIONS OF APPROVAL

Permit or Project File Number: PLN 2010-00205  Hearing Date: August 18, 2022

Prepared By: Glen Jia, Project Planner  For Adoption By: Zoning Hearing Officer

RECOMMENDED FINDINGS

Regarding the Environmental Review, Find:

1. That the project is categorically exempt pursuant to Section 15301, Class 1, of the CEQA Guidelines for the continued operation of existing public or private facilities involving no additional physical changes and no expansion of use.

Regarding the Use Permit, Find:

2. That the establishment, maintenance and/or conducting of the use will not, under the circumstances of this particular case, result in a significant adverse impact to coastal resources, or be detrimental to the public welfare or injurious to the property or improvements in the said neighborhood because the facility is not located in the Coastal Zone, meets current Federal Communications Commission (FCC) standards and has been conditioned to maintain valid FCC and California Public Utilities Commission (CPUC) licenses. The telecommunication facility is located within a portion of the CalTrans right-of-way between Lawler Ranch Road to the east and Highway I-280 to the west (near 10 Lawler Ranch Road) in the unincorporated Stanford Lands area of San Mateo County. With regard to visual impacts, the monopole, antennas, and associated equipment blend with the surroundings. No additional physical changes to the facility are proposed. Furthermore, the radio frequency emissions compliance report confirms the telecommunication facility does not exceed the Federal Communications Commission (FCC) General Population limits, and thus does not cause any significant impacts on the environment.

3. That the wireless telecommunication facility is necessary for public health, safety, convenience or welfare since it provides cellular coverage in the area for both public and private users who have come to rely on the coverage provided by the facility for daily conversation and to provide assistance in emergency situations.
RECOMMENDED CONDITIONS OF APPROVAL

Current Planning Section

1. This approval applies only to the proposal, documents, and plans described in this report and materials approved by the Zoning Hearing Officer on August 18, 2022. The Community Development Director may approve minor revisions or modifications to the project if they are consistent with the intent of and in substantial conformance with this approval.

2. This permit shall be valid until August 18, 2032, ten (10) years from the date of approval. Renewal of this permit shall be applied for six (6) months prior to expiration to the Planning and Building Department and shall be accompanied by the renewal application and fees applicable at that time.

3. This use permit renewal shall be for the continued operation of the existing telecommunication facility only. Any substantial change or change in intensity of use shall require an amendment to the use permit, which requires an application for amendment, payment of applicable fees, and consideration at a public hearing.

4. The applicant shall maintain all necessary licenses and registrations from the Federal Communications Commission (FCC) and any other applicable regulatory bodies for the operation of the subject facility at this site. If any required license is ever revoked, the applicant shall inform the Planning Department of the revocation within ten (10) days of receiving notice of such revocation.

5. This facility and all equipment associated with it shall be removed in its entirety by the applicant within ninety (90) days if the FCC license and registration are revoked or if the facility is abandoned or no longer needed. The owner and/or operator of the facility shall notify the Planning Department upon FCC revocation or applicant abandonment of the facility.

6. The property owner shall not enter into a contract with the lessee which reserves for one company exclusive use of structures on this site for telecommunications facilities.

7. If technically practical and without creating any interruption in commercial service caused by electronic magnetic interference (EMI), floor space, tower space and/or rack space for equipment in a wireless telecommunication facility shall be made available to the County for public safety communication use.

8. The applicant shall be responsible for maintaining the existing antennas, monopole, associated equipment in the originally approved and painted color. Any proposal to change the color shall be reviewed and approved by the Planning Department prior to painting.
9. Maintenance for the antennas shall only be performed between 9:00 am and 5:00 pm.

Department of Public Works

10. Encroachment permit is required for any construction-related activities within the right-of-way. Provide duration, hours, and traffic control plan at the time of encroachment permit application.

Caltrans

11. An encroachment permit is required for any construction-related activities within the Caltrans right-of-way.

GJI:cmc – GJIGG0237_WCU.DOCX
This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS IS NOT A SITE SURVEY
ALL PROPERTY BOUNDARIES, ORIENTATION OF TRUE NORTH AND STREET HALF-WIDTHS HAVE BEEN OBTAINED FROM A TAX PARCEL MAP AND EXISTING DRAWINGS AND ARE APPROXIMATE.

OVERALL SITE PLAN

(E) & (P) AT&T PROJECT AREA
REFER TO ENLARGED PLAN ON SHEET A-2

(E) CHAIN LINK FENCE ENCLOSURE BY OTHERS, TYP.

(E) RAWLAND

(E) LANDSCAPE, TYP.

JUNIPERO SERRA FREEWAY

LAWLER RANCH ROAD

- (E) RAWLAND -

- (E) RAWLAND -

- (E) RAWLAND -

- (E) RAWLAND -

- (E) RAWLAND -

5001 EXECUTIVE PKWY, SAN RAMON CA 94583
PREPARED FOR 23 MAUCHLY, SUITE 110, IRVINE, CA 92618
P-055023
Vendor:
AT&T Site ID:
CCL05707
Licensor:
REV
DATE DESCRIPTION
05/05/21 90% CD
06/08/21 100% CD
08/27/21 ADD GPD + EME

OVERALL SITE PLAN

SHARON HEIGHTS
10 LAWLER RANCH ROAD
MENLO PARK, CA 94025

A-1

SIGNED: 08/27/2021
EXPIRES: 09/30/2023

ISSUING PARTY

AT&T Site ID:
CCL05707

OVERALL SITE PLAN

Sheet Title:
Sheet Number:
1

OVERALL SITE PLAN
It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document.

NOTE TO G.C.:
- NO EQUIPMENT SHALL BE INSTALLED IN FRONT OR AROUND OF THE ANTENNAS OR ANTENNA PATTERNS.

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(P) AT&T DC6 SURGE SUPPRESSOR (DOME), (TOTAL-1)

(E) AT&T ANTENNA TO BE REMOVED, TYP. (3) PER SECTOR (TOTAL-9)

(E) AT&T DCA SURGE SUPPRESSOR TO REMAIN, TYP. (3) PER SECTOR (TOTAL-3)

(P) AT&T CBC78T-DS-43 DIPLEXERS, TYP. (1) PER SECTOR (TOTAL-3)

(P) AT&T PANEL ANTENNAS, TYP. (3) PER SECTOR (TOTAL-9)

(E) AT&T RRUS 4449 B5/B12 AND (E) RELOCATED RRUS MOUNTED ON (P) BACK TO BACK MOUNT, TYP. PER SECTOR (TOTAL-6)

(P) AT&T RRUS 4449 B5/B12 AND (E) RELOCATED RRUS MOUNTED ON (P) BACK TO BACK MOUNT, TYP. PER SECTOR (TOTAL-6)

(E) AT&T RRUS 4478 B14 TO REMAIN, TYP. (1) PER SECTOR (TOTAL-3)

(E) AT&T RRUS 32 B2 TO REMAIN, TYP. (1) PER SECTOR (TOTAL-3)

(E) AT&T RRUS 32 B30 TO REMAIN, TYP. (1) PER SECTOR (TOTAL-3)

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**NOTE:** SINHA AZIMUTHS ARE ESTIMATED AND ARE TO BE VERIFIED BY RF.
It is a violation of law for any person, unless they are acting under the direction of a licensed professional engineer, to alter this document.

Issued For:
Sheet Title: PROPOSED SOUTHEAST ELEVATION
Sheet Number: A-4

T.O. [P] AT&T PANEL ANTENNAS
ELEV. 20'-0" (A.G.L.)
T.O. [E] MONOPOLE
ELEV. 22'-0" (A.G.L.)
T.O. [E] MONOPOLE
ELEV. 22'-4" (A.G.L.)

NOTE TO G.C.:
1. NO EQUIPMENT SHALL BE INSTALLED IN FRONT OR AROUND OF THE ANTENNAS OR ANTENNA PATTERNS.

EXISTING SOUTHEAST ELEVATION

FINISHED GRADE

PROPOSED SOUTHEAST ELEVATION

FINISHED GRADE

1 © 2021, AT&T Intellectual Property. All Rights Reserved.
It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document.

NOTE TO G.C.:
- NO EQUIPMENT SHALL BE INSTALLED IN FRONT OR AROUND OF THE ANTENNAS OR ANTENNA PATTERNS EXISTING

PROPOSED SOUTHWEST ELEVATION

- (E) AT&T PANEL ANTENNAS
  - (P) AT&T ANCHOR RODS, (TOTAL-3)
  - REFER TO GPD POLE DRAWINGS

EXISTING SOUTHWEST ELEVATION

- (P) AT&T ANCHOR RODS, (TOTAL-3)
  - REFER TO GPD POLE DRAWINGS
**Issued For:**

**Sheet Title:** CCL05707

**Sheet Number:** D-2

**Not Used:**

<table>
<thead>
<tr>
<th>SPC</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>N.T.S.</td>
<td>-</td>
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</tbody>
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**Details:**

<table>
<thead>
<tr>
<th>SPC</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.T.S.</td>
<td>-</td>
</tr>
</tbody>
</table>

**NOTE:**

1. Contractor to confirm hole size & locations with manufacturer's specification prior to any drilling.

**NOT USED:**

<table>
<thead>
<tr>
<th>SPC</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.T.S.</td>
<td>-</td>
</tr>
</tbody>
</table>

**Details:**

**Cabinet Mounting Detail (if required):**

- Carry Rectangular Bar
- Left Hand Bearing Support
- M & CA Corner (if MIN 1/2" Bolts Through Grating and Top Flange of Beam

**Signed:** 08/27/2021

**Expires:** 09/30/2023
NOTES:

1. All details are shown in general terms. Actual grounding installation requirements and construction shall be in accordance to site conditions.

2. All grounding conductors: #2 AWG solid bare tin coated copper wire unless otherwise noted.

3. Grounding bars located in base of equipment shall be furnished and installed by the vendor.

4. All below grade connections: exothermic weld type, above grade connections: exothermic weld type.

5. Grounding ring shall be located a minimum of 24" below ground.


7. Exothermic weld ground connection to fence post treated with a cold galvanized spray.

8. Ground bars: All equipment grounding bars (EB) located at the bottom of antenna poles should be made as service entrance. The AC service grounding conductor shall be connected to ground electrode system. When the AC panel in the tower cabinet is considered a sub-panel, the grounding bars shall be installed in the AC power panel. Grounding bars: #2 AWG insulated copper wire and connected to the main ground bar or existing ground ring.

9. All grounding installations and connections shall be made by the electrical contractor.

10. Observe NEC and local utility requirements for electrical service grounding.

11. Grounding attachment to tower shall be as per manufacturer’s recommendations or at grounding points provided (2 minimum).

12. Equipment in B.C. is insulated. Insulated ground only at corner posts and support posts of guy. If chain link Lid is used, then ground lid also.

13. Grounding at PVC cabinet shall be vertically installed.

14. All grounding for antennas shall be connected so that it will not pass main ground bar.

15. All EMT run shall be grounded and have a bonding no PVC above ground.

16. Use separate hole for grounding at bus bars. No "double-l" of lugs.

17. Power and telco cabinets shall be grounded (bonded) together.

18. No lits allowed on grounding.

19. Provide stainless steel clamp and brass tags on coax at antennas and doghouse.

20. All electrical, and grounding at the cell site shall comply with the national electrical code (NEC), national fire protection association (NFPA), and manufacturer specification.

21. If the AC panel in the tower cabinet is considered as service entrance, the AC service grounding conductor shall be connected to ground electrode system. When the AC panel in the tower cabinet is considered a sub-panel, the grounding bars shall be installed in the AC power panel. All exothermic weld connections shall be made by the electrical contractor.

22. Economic welding is recommended for grounding connection where practical. Otherwise, the manufacturer’s specifications shall be followed. The Antenna cabinet shall be bonded to a copper ground bar at the lower most point of a vertical run before it begins to bend toward the horizontal plane. Wire runs to ground shall be kept as straight as possible and short as possible. Antenna cable shield shall be bonded to a copper ground bar at the top and bottom of pole. Antenna cables over 200 feet in length shall also be equipped with additional grounding at mid-point.

23. All grounding conductors when the building shall be run in conduit raceway system and shall be installed as straight as practical, with minor bends to avoid obstruction. The bending radius of any #2 grounding conductor shall be a minimum of 10 times its diameter. The grounding conduit shall be bonded to the main ground bar just before entering the cell cabinet. Any antenna cable over 200 feet shall also be equipped with additional grounding at mid-point.

24. Provide PVC sleeves where grounding conductors pass through the building walls and floor-ceilings.

25. Install ground busings on all metallic conduits and boxes to the equipment grounding bars in the panel boxes.

26. Grounding antenna bases, frames, cable racks and other metallic components with #2 grounding conductors and connected to insulated surface mounted ground bars. Connection details shall follow manufacturer’s specifications. The ground wire shall be installed in the ac power panel in the power cabinet is considered a sub-panel.

27. All proposed grounding conductors shall be routed and connected to the main ground bar or existing ground ring.

28. Provide "double-up" of lugs. If welding is used, then "double-up" of lugs.

29. Attach equipment grounding from outside conduit (where practical) to the equipment grounding bars.

30. Grounding equipment grounding bars are not shown for clarity.
CABLE GROUNDING KIT
WEATHERPROOFING KIT

1/2" Ø COAX CABLE
NEW GPS ANTENNA
GROUNDING KIT
MOUNTING BRACKET
GAR, TYP. (2) PLACES
CONNECT BURNDY TYPE KIT CABLE TO PIPE

NOTE:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY THE CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY THE CABLE MANUFACTURER.

GROUND BAR DETAIL
NOT USED

NEW GPS ANTENNA
"X 1/4"X 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)

GROUND ROD DETAIL
NOT USED

1- COPPER GROUND BAR, "X 1/4"X 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
2- HEATHERING BRACKET, NEWTON INSTRUMENT CAT. NO. 3012-1 OR EQUAL
3- 5/8" LOCKWASHERS, NEWTON INSTRUMENT CAT. NO. 3015-8 OR EQUAL
4- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CAT NO. A-6056
5- 5/8"-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1
6- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056

NOTE: ALL HARDWARE SHALL BE STAINLESS STEEL

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY THE CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY THE CABLE MANUFACTURER.

GROUND CONNECTION TO GROUND BAR

NOT USED

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Issued For:
CCL05707
SHARON HEIGHTS
10 LAWLER RANCH ROAD
MENLO PARK, CA 94025

From (E) Power Source

Normal Source
2P/200A

Mechanical Interlock

Emergency Generator Receptacle Mounted on H-Frame

120/240V, 1Ø, 3W, 200A

TO (E) Loads

(E) Power Panel B Mounted on H-Frame at Lease Area

Existing AC Panel Schedule

Proposed AC Panel Schedule

AC Single Line Diagram

Sheet Title: SINGLE LINE DIAGRAM & AC PANEL SCHEDULE
Sheet Number: E-1
NOTES TO CONTRACTOR:

1. CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.

SIGNED: 08/27/2021
EXPIRES: 09/30/2023
GS BATTERY FRONT TERMINAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>JAMBER</th>
<th>INTERIOR RESISTANCE (mOhms)</th>
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<tbody>
<tr>
<td>PYL12V185FT</td>
<td>2.9</td>
<td></td>
</tr>
<tr>
<td>PYL12V160FT</td>
<td>3.5</td>
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BATTERY INFORMATION (VRLA TYPE BATTERIES)

<table>
<thead>
<tr>
<th>INSTALL STATUS</th>
<th>BATTERY MODEL</th>
<th>TOTAL # OF BATTERY UNITS INSTALLED (EA)</th>
<th>VOLTAGE (V)</th>
<th>AMP. HOURS (AH)</th>
<th>KWh, Kilowatt-hours (W*h)/1000</th>
<th>TOTAL BATTERY CAPACITY, KWh</th>
<th>STATIONARY BATTERY STORAGE SYSTEM THRESHOLD QUANTITY, PER CFC 2019 SECTION 1206</th>
<th>STATIONARY BATTERY STORAGE SYSTEM CODE CHECK</th>
<th>TOTAL ELECTROLYTE VOLUME (GALLONS) PER UNIT</th>
<th>TOTAL ELECTROLYTE BY VOLUME (GALLONS)</th>
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</thead>
<tbody>
<tr>
<td>EXISTING TO REMAIN</td>
<td>GNB INDUSTRIAL POWER MARATHON - M12V18BPT</td>
<td>12</td>
<td>12</td>
<td>180</td>
<td>2.16</td>
<td>25.92</td>
<td></td>
<td></td>
<td>2.47</td>
<td>29.64</td>
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<tr>
<td>PROPOSED</td>
<td>GS PYL12V18BFT</td>
<td>8</td>
<td>12</td>
<td>185</td>
<td>2.22</td>
<td>17.76</td>
<td></td>
<td></td>
<td>2.504</td>
<td>20.032</td>
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<tr>
<td>TOTAL</td>
<td></td>
<td>20</td>
<td></td>
<td></td>
<td>43.68</td>
<td>70</td>
<td>CFC 2019 SECTION 1206 DOES NOT APPLY</td>
<td></td>
<td></td>
<td>49.672</td>
</tr>
</tbody>
</table>

FLOAT VOLTAGE & CHARGING
CONSTANT VOLTAGE CHARGING IS RECOMMENDED.
RECOMMENDED FLOAT VOLTAGE: 1.75 VPC @ 25°C (77°F)

NOTE:
DESIGN AND/OR SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. IF QUESTIONS AROSE, CONTACT YOUR LOCAL GNB SALES REPRESENTATIVE FOR CLARIFICATION.
It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document.

Issued For:
Sheet Title: EME SIGNAGE LOCATION PLAN
Sheet Number: 1

RECOMMENDATIONS:
ATE&T ACCESS POINT(S):
CAUTION SIGN 2B (TOWER) AT BASE OF MONOPOLE (TO BE POSITED).
ATE&T SECTOR A:
NO SIGNAGE OR BARRIER ACTION REQUIRED.
ATE&T SECTOR B:
NO SIGNAGE OR BARRIER ACTION REQUIRED.
ATE&T SECTOR C:
NO SIGNAGE OR BARRIER ACTION REQUIRED.

NOTE:
1. RF SAFETY MEASURES COMPLETED PER EME REPORT COMPLETED ON 06/25/2021, BY "WATERFORD CONSULTANTS, LLC"
2. ANY OTHER RF REPORT IS FOR REFERENCE ONLY.

SIGNED: 08/27/2021
EXPIRES: 09/30/2023
**GENERAL NOTES**

IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS OVER 0.5 INCH HIGH BLACK LETTERING. THE BODY TEXT SHALL BE IN BLACK LETTERING WITH WHITE BACKGROUND AND BLACK LETTERING. THE GREEN BAND SHALL BE MADE USING VINYL OR SIMILAR WEATHERPROOF MATERIALS TO ADD GPD + EME.

1. CONDUCTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN A COORDINATABLE METHOD AND BE SUITED TO AND COMPLY WITH THE CONSTRUCTION DRAWINGS. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO AS NOT TO BLOCK RADIATION ENERGY AND SHOULD BE USED AS ALERTING & INFORMATION SIGNAGE.

2. CONTRACTOR SHALL PROVIDE ALL RF SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF SAFETY PAINT IN A CROSS-HATCH PATTERN AS DETAILED BY THE CONSTRUCTION DRAWINGS. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO AS NOT TO BLOCK RADIATION ENERGY AND SHOULD BE USED AS ALERTING & INFORMATION SIGNAGE.

3. RF SAMPLE会造成5%的误差，是因为RF泄露的原因不会被检测到。RF泄露会导致信号的失真，使得RF泄露的信号不能被正确检测。

4. PROPERTY OF AT&T

   1. IN FRONT OF THE SIGN.
   2. IN FRONT OF THE SIGN.
   3. IN FRONT OF THE SIGN.
   4. IN FRONT OF THE SIGN.
   5. IN FRONT OF THE SIGN.

5. RF SAMPLE会造成5%的误差，是因为RF泄露的原因不会被检测到。RF泄露会导致信号的失真，使得RF泄露的信号不能被正确检测。
GENERAL NOTES:

1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2014 EDITION.
2. ALL STRIPING AND MARKINGS SHALL CONFORM TO THE STATE OF CALIFORNIA 2010 STANDARD PLAN A20A.
3. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL ADJACENT PROPERTIES.
4. FLASHING YELLOW BEACONS, TYPE "B" SHALL BE USED ON ALL W20-1 SIGNS AND ON ALL TYPE III BARRICADES GUARDING THE WORK OVERNIGHT.
5. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
6. ALL TUBULAR DELINEATORS AND CONES SHALL BE 28" MINIMUM HEIGHT. REFLECTORIZED AND MAINTAINED DIRECTLY IN THE INDICATED POSITION AT ALL TIMES, AND SHALL BE REPLACED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY, AND SHALL INCLUDE A 12" HIGH-INTENSITY REFLECTORIZED BLYEYE.
7. THE CONTRACTOR SHALL MAINTAIN ON CONTINUOUS BASE, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL HAVE SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
9. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ABUTTING PROPERTY OWNERS.
10. ADDITIONAL TRAFFIC CONTROLS, TRAFFIC SIGNS OR BARRICADING MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL DEVICES NECESSARY TO ENSURE THE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
11. EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS SHALL BE DIRECTED BY THE ENGINEER BASED UPON CONSTRUCTION CONDITIONS.
12. MOVE DELINEATORS AND/OR CONES TO SIDEWALK DURING NON-WORKING HOURS. REMOVE BARRICADES ETC. FROM TRAVEL LANE.
13. REMOVE OR TURN OFF SIGNS DURING NON-WORKING HOURS.
14. ALL CONFLICTING LINES, EXISTING CURB PAINT, AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW/TEMPORARY STRIPLING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. Pavement that is damaged due to removal of markers shall be repaired, replaced, or cleaned as necessary to preserve their appearance and continuity. If necessary, a new, reflective marker shall be installed in the same location. All new markers shall be painted to the satisfaction of the City Engineer and/or State Inspector.
15. DIMENSIONS BASED ON RECORD DRAWINGS AND NOT A SURVEY.
16. TIME OF LANE CLOSURE TO BE IN ACCORDANCE WITH REQUIREMENTS OF JURISDICTION.
17. ADDITIONAL ADVANCED FLAGGERS MAY BE REQUIRED. FLAGGER SHOULD STAND IN A CONSPICUOUS PLACE, BE VISIBLE TO APPROACHING TRAFFIC. PLACE A MINIMUM OF FOUR CONES AT 40-FT INTERVAL IN ADVANCE OF FLAGGER STATION AS SHOWN.

MINIMUM RECOMMENDED CHANNELING DEVICE AND SIGN SPACING

<table>
<thead>
<tr>
<th>SPEED &quot;S&quot;</th>
<th>MINIMUM Channeling Device</th>
<th>MINIMUM SIGN SPACING</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>100 ft</td>
<td>65 ft</td>
</tr>
<tr>
<td>35</td>
<td>105 ft</td>
<td>35 ft</td>
</tr>
<tr>
<td>50</td>
<td>50 ft</td>
<td>50 ft</td>
</tr>
</tbody>
</table>

TRAFFIC CONTROL PLAN

Sheet Title: TRAFFIC CONTROL PLAN
Sheet Number: TCP-1

Issued For: CCL05707

If it is violation of law for one person, unless they are acting under the direction of a person, to alter this document, to alter this document.
TOWER INFORMATION:

TOWER DESIGN: WSC/PROJ. #: 11-0062
TOWER HEIGHT/TYPE: 21'-2" MONOPOLE
TOWER LOCATION:
  LAT.: 37° 25' 20.04"
  LONG.: -122° 13' 36.98"
STREET ADDRESS: 10 LAWLER RANCH ROAD
CITY, STATE ZIP: MENLO PARK, CA 94025
COUNTY: SAN MATEO

REFERRED ANALYSIS: GPDP/PROJ #: 2021723.15.113035.02
ANALYSIS DATE: 07/01/2021

CODE COMPLIANCE:

GOVERNING CODES: TIA-222-H & 2019 CBC
WIND SPEEDS: 92 MPH 3 SECOND GUST
ICE THICKNESS: NA

RISK CATEGORY: II
EXPOSURE CATEGORY: C
TOPO CATEGORY: 1
SEISMIC CRITERIA:

SITE CLASS: D
RESPONSE COEFFICIENT (R): 1.5
SHORT PERIOD SPECTRAL RESPONSE ACCELERATION (S1): 0.921
1-SECOND SPECTRAL RESPONSE ACCELERATION (S1): 2.341
**GENERAL**

1. The MI is an on-site visual and hands-on inspection of tower modifications including a review of construction reports and additional pertinent documentation provided by the general contractor (GC), as well as any inspection documents provided by 3rd party inspectors. The MI is to ensure the modifications are being performed in accordance with industry standards and as designed by the engineer of record (EoR).

2. No document, code or policy can anticipate every situation that may arise. Accordingly, this checklist is intended to serve as a source of guiding principles in establishing guidelines for modification inspection.

3. The MI is to confirm installation configuration and workmanship only and is not a review of the modification design itself. The MI inspector does not take ownership of the modification design and the MI inspector shall inspect and note conformance/non-conformance and provide to the tower/structure owner and GC for evaluation.

4. To ensure that the requirements of the modification inspection are met, it is vital that the general contractor (GC) and the MI inspector begin communicating and coordinating as soon as a PO or payment is received. It is expected that each party will be proactive in reaching out to the other party. Contact listed on the title sheet shall be contacted if specific contact information is unknown.

**FALING INSPECTION CORRECTIONS**

1. If the modification installation would fail the modification inspection (failed modification inspection), the GC shall work with the MI inspector to coordinate a remediation plan in one of two ways:
   - Correct failing issues to comply with the specifications contained in the original modification drawings and coordinate a supplemental modification inspection
   - Or, with owner’s approval, the GC may work with the EoR to re-analyze the GC as-built condition

**SERVICE LEVEL COMMITMENT**

1. The following recommendations and suggestions are offered to enhance the efficiency and effectiveness of delivering an MI report:
   - The GC shall provide a minimum of 5 business days notice, preferably 10, to the MI inspector as to when the site will be ready for the MI to be conducted.
   - The GC and MI inspector coordinate closely throughout the entire project.
   - Preferably, it is preferable to have the GC and MI inspector on-site during the MI to have any minor deficiencies corrected during the MI.
   - Therefore, the GC may choose to utilize the MI to carefully ensure all construction faceted are at or, to the reasonable satisfaction of the MI inspector is on site.
   - It may be beneficial to install all tower modifications prior to conducting the foundation inspections to allow the foundation and modification inspections to commence with one site visit.

**REQUIRED PHOTOS**

1. Between the GC and the MI inspector the following photographs, at a minimum, are to be taken and included in the MI report:
   - Pre-construction general site condition
   - Photographs during the reinforcement modification construction/erection and inspection
   - Raw materials
   - Photographs of all critical details
   - Foundation modifications
   - Weld preparation
   - Bolt installation
   - Final Installed condition
   - Surface coating repair
   - Surface coating inspection
   - Painted and coated structures
   - Final infield inspection
   - Any other photos deemed relevant to show complete details of the modification construction process.

2. Photos of elevated modifications taken from one of the ground levels shall be considered inadequate.
GENERAL NOTES


2. THE CONTRACTOR SHALL NOTIFY THE OWNER WITHIN 48 HOURS OF ANY MASSIVE EXISTING CONSTRUCTION THAT MAY AFFECT THE INSTALLATION. THE OWNER SHALL NOT BE RESPONSIBLE FOR THE INSTALLATION OF EXISTING CONSTRUCTION IF NOT DISCLOSED TO THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE STRUCTURE IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

3. THE CONTRACTOR SHALL PROVIDE A SITE ACCOMMODATION PLAN THAT CONFORMS TO THE CONTRACT DOCUMENTS AND ALL APPLICABLE LOCAL AND NATIONAL CODES.

4. THE CONTRACTOR SHALL PROVIDE SPECIFICATIONS AND DETAILS FOR ALL STRUCTURAL AND NON-STRUCTURAL HARDWARE, FABRICATION, INSTALLATION, AND ALL OTHER ITEMS RELATED TO THE INSTALLATION OF THE STRUCTURE.

5. THE CONTRACTOR SHALL PROVIDE A COMPREHENSIVE SITE ACCOMMODATION PLAN THAT CONFORMS TO THE CONTRACT DOCUMENTS AND ALL APPLICABLE LOCAL AND NATIONAL CODES.

6. THE CONTRACTOR SHALL PROVIDE A COMPREHENSIVE SITE ACCOMMODATION PLAN THAT CONFORMS TO THE CONTRACT DOCUMENTS AND ALL APPLICABLE LOCAL AND NATIONAL CODES, INCLUDING THE INSTALLATION OF THE STRUCTURE.

7. THE CONTRACTOR SHALL PROVIDE A COMPREHENSIVE SITE ACCOMMODATION PLAN THAT CONFORMS TO THE CONTRACT DOCUMENTS AND ALL APPLICABLE LOCAL AND NATIONAL CODES, INCLUDING THE INSTALLATION OF THE STRUCTURE.

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10. THE CONTRACTOR SHALL PROVIDE A COMPREHENSIVE SITE ACCOMMODATION PLAN THAT CONFORMS TO THE CONTRACT DOCUMENTS AND ALL APPLICABLE LOCAL AND NATIONAL CODES, INCLUDING THE INSTALLATION OF THE STRUCTURE.

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL SHALL BE NOT CORRODED-GALVANIZED PER ASTM A123, ASTM A133/133M, OR ASTM A693 G60, AS SPECIFIED IN THE PROJECT DOCUMENTS. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS.

2. ALL NON-STRUCTURAL HARDWARE, FABRICATION, INSTALLATION, AND ALL OTHER ITEMS RELATED TO THE INSTALLATION OF THE STRUCTURE.

3. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS.

4. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS.

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7. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS.

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9. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS.

10. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS.
**POLE SPECIFICATIONS**

<table>
<thead>
<tr>
<th>SHAFT SECTION</th>
<th>SECTION LENGTH (FT)</th>
<th>PLATE THICKNESS (IN)</th>
<th>LAP SPlice (IN)</th>
<th>DIAMETER (IN)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**NOTE:** Dimensions shown do not include galvanizing tolerances.

**MODIFICATION SCHEDULE**

<table>
<thead>
<tr>
<th>MEMBER TYPE</th>
<th>ELEVATION</th>
<th>EXISTING MEMBER</th>
<th>NEW MEMBER</th>
<th>REFERENCE DETAIL/SHEET</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANCHOR RODS TO BRACKET</td>
<td>0'-0&quot;</td>
<td>(1) 1-3/4&quot;Ø ANCHOR RODS</td>
<td>(2) #6 POWER TRUNK</td>
<td>S-02</td>
<td>INSTALL NEW ANCHOR RODS WITH BRACKETS TO THE EXISTING TOWER BASE.</td>
</tr>
</tbody>
</table>

**NOTES:**

1. All material removed from the tower shall be disposed of by the contractor off site.

**POLE ELEVATION**

**COAX LAYOUT**

**TOWER ELEVATION**

**SHARON HEIGHTS**

**10 LAWLER RANCH ROAD**

**MENLO PARK, CA 94025**

**GPD GROUP, INC.**

®

520 South Main Street, Suite 2531

Akron, OH 44311

330.572.2100

Fax 330.572.2102

**TOWER ELEVATION & MODIFICATION SCHEDULE**

** crafting a clear and comprehensive summary of the document's contents.**
EXISTING TOWER SHAFT

NEW 1-3/4" ANCHOR ROD (TYP. OF 3), SEE SECTION AS-02
NEW ANCHOR ROD BRACKET ASSEMBLY (TYP. OF 3), SEE SECTION AS-02
EXISTING 1/2" ANCHOR RODS (TYP. OF 4)
EXISTING 30"x1" THICK SQUARE BASE PLATE

EXISTING TOWER SHAFT

EXISTING 1/2" ANCHOR RODS (TYP. OF 4) LOCATED ON A 30" BOLT CIRCLE
EXISTING 30"x1" THICK SQUARE BASE PLATE
EXISTING FOUNDATION AND REBAR CAGE, NOTIFY EOR IF STEEL IS ENCOUNTERED DURING DRILLING FOR ANCHOR RODS
EXISTING PORT HOLE (TYP. OF 1 CENTERED ON FLAT 10) AT 3'-0" ± (F.V.)

NOTE:
ALL EXPOSED STEEL FROM NOTCHING THE BASE PLATE SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF BRUSH APPLIED ZRC ZINC RICH COIL GALVANIZING COMPOUNDS.

EXISTING PORT HOLE (TYP. OF 1 ON CORNER OF FLATS 14/15) AT 3'-0" x (F.V.)
EXISTING 1/2" ANCHOR RODS (TYP. OF 4) LOCATED ON A 32-7/8" BOLT CIRCLE
NEW 1-3/4" ANCHOR ROD (TYP. OF 3, LOCATED ON A 32-7/8" BOLT CIRCLE), SEE SECTION AS-02
NEW ANCHOR ROD BRACKETS (TYP. OF 3 CENTERED ON FLATS 1, 7, & 13), SEE SECTION AS-03
EXISTING PORT HOLE (TYP. OF 1 CENTERED ON CORNER OF FLATS 14/15) AT 3'-0" x (F.V.)
EXISTING 1/2" ANCHOR RODS (TYP. OF 4) LOCATED ON A 30" BOLT CIRCLE
EXISTING 30"x1" THICK SQUARE BASE PLATE
EXISTING FOUNDATION AND REBAR CAGE, NOTIFY EOR IF STEEL IS ENCOUNTERED DURING DRILLING FOR ANCHOR RODS
EXISTING PORT HOLE (TYP. OF 1 CENTERED ON FLAT 10) AT 3'-0" ± (F.V.)

NOTE:
ALL EXPOSED STEEL FROM NOTCHING THE BASE PLATE SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF BRUSH APPLIED ZRC ZINC RICH COIL GALVANIZING COMPOUNDS.
**ANCHOR ROD**

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</tr>
<tr>
<td>Min Dimension</td>
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<tr>
<td>Hole Diameter</td>
<td>3</td>
</tr>
<tr>
<td>Target Tension Load</td>
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<tr>
<td>MAX. GAP</td>
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**ANCHOR BRACKET**

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<td>Width</td>
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<tr>
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<tr>
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<tr>
<td>HSS Tube Wall Thk</td>
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**HARDWARE**

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<td>Plate Washer</td>
<td>0.125</td>
</tr>
<tr>
<td>Quantity</td>
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</tbody>
</table>

**NOTES**

1. ALL SIZES AND QUANTITIES SHALL BE INSURED PRIOR TO FINAL SHOP DRAWINGS TO ENSURE ALL IS INCLUDED AND PROVIDE ADEQUATE INFORMATION.
2. ALL DIMENSIONS/MEASUREMENTS ARE SHOWN IN INCHES.
3. ALL CORE DRILLED HOLES SHALL BE MECHANICALLY ROUGHENED PRIOR TO INSTALLATION OF THE NEW ANCHOR ROD.
4. AFTER ANCHOR ROD PROOF TESTING IS COMPLETE INSTALL NUTS TO SNAP TIGHT PLUS 1/8 TURN BEFORE INSTALLING SECOND NUT FOR TOP CONNECTION.
5. ANCHOR ROD SHALL BE CUT IN FIELD BY CONTRACTOR TO MEET PROJECTION REQUIREMENTS SHOWN.

**ANCHOR ROD NOTES**

1. CONTRACTOR SHALL INSTALL RODS AND BRACKETS AT LOCATIONS INDICATED ON DRAWINGS.
2. CONTRACTOR SHALL VERIFY THAT TOWER IS PLUMB PRIOR TO INSTALLATION OF ANY TOWER MODIFICATIONS.
3. CONTRACTOR SHALL PROVIDE TOP AND BOTTOM HEX NUTS FOR PROPOSED ANCHOR RODS. TOP CONNECTION SHALL BE DOUBLE NUTTED.
4. CONCRETE HSS TUBE MUST BE PLUMB TO WITHIN 1/8 INCH OF THE DESIGN DRAWING FOR PROPOSED ANCHOR RODS. ANCHOR RODS MUST BE INSTALLED IN THE PROPOSED LOCATION TO WITHIN 1/8 INCH OF THE DESIGN DRAWING.
5. ALL ANCHORS TO BE INSTALLED SHALL BE TESTED TO THE MAXIMUM TENSION LOAD AS SPECIFIED IN THE SUPPORT SYSTEM ASSEMBLY. ALL TESTS SHALL BE CONDUCTED IN A MANUFACTURER-PROVIDED PROOF TEST DRAWING, AND THE RESULTS OF THE TESTS SHALL BE APPROVED BY THE ENGINEER OF RECORD.
6. INSTALLATION OF THE CONCRETE TO TOWER CONNECTION IS DEEMED COMPLETE AFTER THE TEST IS COMPLETE.
7. HALF OR A MINIMUM OF 4 (WHICHEVER IS GREATER) NEW ANCHOR RODS SHALL BE TESTED.
8. CONCRETE HSS TUBE MUST BE PLUMB TO WITHIN 1/8 INCH OF THE DESIGN DRAWING FOR PROPOSED ANCHOR RODS. ANCHOR RODS MUST BE INSTALLED IN THE PROPOSED LOCATION TO WITHIN 1/8 INCH OF THE DESIGN DRAWING.
9. FULL TESTING SHALL BE IN ACCORDANCE WITH ASTM E488M.
10. WHEN ASSEMBLING ANCHOR RODS TO THE HSS TUBE, THE HSS TUBE LIES BETWEEN THE ANCHOR ROD AND THE PLATE WASHER. NO REINFORCEMENT IS TO BE Installed IN THE HSS TUBE.
11. NEW ANCHOR RODS TO BE HOT DIPPED GALVANIZED TO A MINIMUM OF 15' BELOW THE CONCRETE SURFACE.
12. THE ANCHOR SYSTEM LIES BETWEEN THE ANCHOR ROD AND THE PLATE WASHER. NO REINFORCEMENT IS TO BE INSTALLED IN THE HSS TUBE. ALL NUTS WITHIN THE HSS TUBE MUST BE HOT DIPPED GALVANIZED.
13. INSTALLATION OF GROUT AND/OR BOTTOM NUT Flush TO BASE PLATE IS PROHIBITED PRIOR TO COMPLETION OF ANCHOR ROD FULL TEST.
15. ANCHOR ROD INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADVISORY OF ACI 318-11. FOR ADHESIVE ANCHORS, THE ADHESIVE IS A 1:1 ADHESIVE."
NO TRESPASSING

Property of AT&T
Authorized Personnel Only
No Trespassing
Violators will be Prosecuted

INFORMATION

NOTICE

ACID

AT&T Panel

AT&T METER
CN5707
SHARON HEIGHTS
11 Linder Ranch Rd
Mentor Park, CA 94032

MAIN DISCONNECT
WARNING

Entering this area can expose you to lead from lead acid batteries.
Lead is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
November 17, 2010

AT & T/NSA Wireless
James Singleton
2000 Crow Canyon Place, Suite 400
San Ramon, CA 94583

Dear Mr. Singleton:

Subject: LETTER OF DECISION
File Number: PLN2010-00205
Location: 10 Lawler Ranch Road, “C”, Menlo Park
APN: adjacent to 073-250-050

On November 10, 2010, the San Mateo County Planning Commission considered a Use Permit, pursuant to Sections 6500 and 6512 of the County Zoning Regulations, and Architectural Review Exemption, pursuant to the State Streets and Highways Code, to allow the co-location of a new AT&T wireless telecommunications facility immediately adjacent to an existing telecommunications facility. The proposed AT&T facility will primarily consist of (1) a 22-foot high monopole; (2) nine antennas mounted on the pole; and (3) five equipment cabinets within a 15 ft. by 25 ft. lease area to be enclosed by a 7 ft. fence. The parcel is located in a CalTrans right-of-way, on the west side of I-280, in the unincorporated Stanford Lands area of San Mateo County.

Based on information provided by staff and evidence presented at the hearing, the Planning Commission approved the project with the conditions of approval as shown in Attachment A.

Any interested party aggrieved by the determination of the Planning Commission has the right of appeal to the Board of Supervisors within ten (10) business days from such date of determination. The appeal period for this matter will end at 5:00 p.m. on November 29, 2010.
If you have questions regarding this matter, please contact Lisa Aozasa at 650/363-4852.

Sincerely,

Rosario Fernandez
Planning Commission Secretary
Pedi1100U_rf (Caltrans)

Enclosure: San Mateo County Survey—An online version of our Customer Survey is also available at: http://www.co.sanmateo.ca.us/planning/survey
County of San Mateo  
Planning and Building Department  

FINDINGS AND CONDITIONS OF APPROVAL  

Permit or Project File Number: PLN 2009-00351  
Hearing Date: November 10, 2010  

Prepared By: Lisa Aozasa, Senior Planner  
Adopted By: Planning Commission  

FINDINGS  

Regarding the Negative Declaration, Found:  

1. That the Negative Declaration is complete, correct and adequate and prepared in accordance with the California Environmental Quality Act and applicable State and County Guidelines.  

2. That, on the basis of the Initial Study, comments received thereto, and testimony presented and considered at the public hearing, there is no substantial evidence that the project, if subject to the mitigation measures contained in the Negative Declaration, will have a significant effect on the environment.  

3. That the Negative Declaration reflects the independent judgment of San Mateo County.  

Regarding the Use Permit, Found:  

4. That the establishment, maintenance, and/or conducting of the proposed use will not, under the circumstances of the particular case, be detrimental to the public welfare or injurious to property or improvements in said neighborhood. The cumulative RF level for this project site will be 16.5% of the applicable public exposure limit at ground level. There is no evidence to suggest that this use will impact nearby property or public improvements.  

5. That the project is necessary for the public health, safety, convenience or welfare, as it will allow for increased transmission capability for wireless data transfer.  

Regarding the Architectural Review Exemption, Found:  

6. That the proposed AT&T wireless telecommunications facility will not be visible from the
Junipero Serra I-280 Scenic Corridor, due to distance, difference in elevation/topography, and screening provided by existing vegetation.

CONDITIONS OF APPROVAL

Current Planning Section

1. This approval applies only to the proposal, documents and plans described in this report and submitted to and approved by the Planning Commission on November 10, 2010. Minor adjustments to the project in the course of applying for building permits may be approved by the Community Development Director if they are consistent with the intent of, and in substantial conformance with, this approval.

2. Prior to final inspection for the building permit, the applicant shall paint and maintain the monopole and antennas a medium gray color to blend in, and have low visibility from the scenic roads in the area. The color shall match the existing adjacent facilities.

3. The applicant shall submit the following fees to the Current Planning Section:

   Within four (4) working days of the final approval date of this permit, the applicant shall pay an environmental filing fee of $2,010.25 (fee effective January 1, 2010), as required under Fish and Game Code Section 711.4(d), plus a $50.00 recording fee (total $2,060.25). The check shall be made payable to the San Mateo County Clerk, and submitted to the project planner to file with the Notice of Determination.

4. This use permit shall be valid for ten years following the date of final approval. The applicant shall file for a renewal of this permit six months prior to expiration with the County Planning and Building Department, if continuation of this use is desired.

5. At the time of use permit renewal, if staff has determined, based on a field inspection, that the color of the antennas is no longer in compliance with the approved color of non-reflective gray, the applicant shall repaint the structure and/or antennas.

6. The applicant shall receive and maintain approval from the Federal Communications Commission (FCC) for the operation of the project at this site. Upon receipt of this approval, the applicant shall supply the Current Planning Section with proof of approval. If this approval is ever revoked, the applicant shall inform the Current Planning Section of the revocation within 30 days of notice of revocation.
7. Any changes in use or intensity of use shall require an amendment to the use permit. Amendment to this use permit shall require compliance with all application, fee payment, and public hearing requirements, prior to construction.

8. This installation shall be removed in its entirety at that time when this technology becomes obsolete or this facility is no longer needed. Applicant shall notify the Current Planning Section within 30 days if it ceases to use the facility.

9. The applicant shall obtain a building permit and install the antennas and miscellaneous power/communication lines in accordance with the approved plans and conditions of approval. Any new cabling shall be installed underground.

10. During project construction, the applicant shall, pursuant to Section 5022 of the San Mateo County Ordinance Code, minimize the transport and discharge of stormwater runoff from the construction site into storm drain systems and water bodies by:
   a. Using filtration materials on storm drain covers to remove sediment from dewatering effluent.
   b. Stabilizing all denuded areas and maintaining erosion control measures continuously between October 15 and April 15.
   c. Removing spoils promptly, and avoiding stockpiling of fill materials, when rain is forecast. If rain threatens, stockpiled soils and other materials shall be covered with a tarp or other waterproof material.
   d. Storing, handling, and disposing of construction materials and wastes so as to avoid their entry to the storm drain system or water body.
   e. Avoiding cleaning, fueling, or maintaining vehicles on-site, except in an area designated to contain and treat runoff.
   f. Limiting and timing applications of pesticides and fertilizers to avoid polluting runoff.

11. Mitigation Measure 1: Prior to the issuance of a building permit, the applicant shall submit a landscape and irrigation plan to be reviewed by Current Planning staff. The goal of the plan should be to more completely screen both the equipment lease area and the monopole from I-280, and should feature native, drought tolerant plants. Landscaping and irrigation must be installed prior to a final inspection on the building permit. The applicant is responsible for replacing any plantings that do not survive promptly, as needed.
Woodside Fire Protection District

12. The applicant shall comply with all requirements of the Woodside Fire Protection District prior to issuance of a building permit.

Department of Public Works

13. No proposed construction work within the County right-of-way shall being until County requirements for the issuance of an encroachment permit, including review of the plans, have been met and an encroachment permit issued.

14. The applicant shall obtain an encroachment permit with CalTrans prior to the issuance of a building permit.
Compliance Statement
Based on information provided by AT&T Mobility and predictive modeling, the SHARON HEIGHTS installation proposed by AT&T Mobility will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. §§ 1.1307(b)(3) and 1.1310. RF alerting signage and restricting access to the Monopole to authorized climbers that have completed RF safety training is required for Occupational environment compliance. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings.

Certification
I, David H. Kiser, am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC’s OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

General Summary
The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure (“MPE”) limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.
Table 1: FCC Limits

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Limits for General Population/ Uncontrolled Exposure</th>
<th>Limits for Occupational/ Controlled Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Power Density (mW/cm²)</td>
<td>Averaging Time (minutes)</td>
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<tr>
<td>30-300</td>
<td>0.2</td>
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<td>300-1500</td>
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<tr>
<td>1500-100,000</td>
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</table>

f=Frequency (MHz)

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any location given the spatial orientation and operating parameters of multiple RF sources. The power density in the Far Field of an RF source is specified by OET-65 Equation 5 as follows:

\[ S = \frac{EIRP}{4\pi R^2} \text{ (mW/cm}^2\text{)} \]

where EIRP is the Effective Radiated Power relative to an isotropic antenna and R is the distance between the antenna and point of study. Additionally, consideration is given to the manufacturers’ horizontal and vertical antenna patterns as well as radiation reflection. At any location, the predicted power density in the Far Field is the spatial average of points within a 0 to 6-foot vertical profile that a person would occupy. Near field power density is based on OET-65 Equation 20 stated as

\[ S = \left(\frac{180}{\theta_{BW}}\right) \cdot \frac{100 \cdot P_{in}}{\pi \cdot R \cdot h} \text{ (mW/cm}^2\text{)} \]

where \( P_{in} \) is the power input to the antenna, \( \theta_{BW} \) is the horizontal pattern beamwidth and \( h \) is the aperture length.

Some antennas employ beamforming technology where RF energy allocated to each customer device is dynamically directed toward their location. This analysis includes a statistical factor reducing the actual power of the antenna system to 32% of maximum theoretical power to account for spatial distribution of users, network utilization, time division duplexing, and scheduling time. AT&T recommends the use of this factor based on a combination of guidance from its antenna system manufacturers, supporting international industry standards, industry publications, and its extensive experience.
Analysis

AT&T Mobility proposes the following installation at this location:

- REMOVE (9) EXISTING ANTENNAS, TYP. (3) PER SECTOR.
- INSTALL (9) NEW ANTENNAS, TYP. (3) PER SECTOR.
- REMOVE (3) EXISTING RRUS 11 B12 FROM EQUIPMENT AREA.
- INSTALL (3) RRUS 4449 B5/B12 AT ANTENNAS, TYP. (1) PER SECTOR.

The antennas will be mounted on a 22’ Monopole with centerlines 20’ above ground level. Proposed antenna operating parameters are listed in Appendix A. Other appurtenances such as GPS antennas, RRUs and hybrid cable below the antennas are not sources of RF emissions. Panel antennas have been installed at this site by other wireless operators. Operating parameters for these antennas considered in this analysis are also listed in Appendix A.
Power density decreases significantly with distance from any antenna. The panel-type antennas to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 54.0057% of the FCC General Population limits. Based on the operating parameters in Appendix A, the cumulative power density level at this location from all antennas is 57.2604% of the FCC General Population limits. There are no apparent inhabited buildings or structures in the immediate area as depicted in Figure 1. The proposed operation will not expose members of the General Public to hazardous levels of RF energy at ground level or in adjacent buildings.

Waterford Consultants, LLC recommends posting RF alerting signage with contact information (Caution 2B) near the antennas at the proposed Monopole to inform authorized climbers of potential conditions near the antennas. These recommendations are depicted in Figure 2.
### Appendix A: Operating Parameters Considered in this Analysis

<table>
<thead>
<tr>
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Notes: Table depicts recommended operating parameters for AT&T Mobility proposed operations. Colocated antenna parameters based on industry standards.