# Available For Lease 15040 Skyline Blvd - The Highest Tower on SF Penninsula

## Silicon Valley's Premier Tier 3 Communications Hub – Infrastructure Overview

Located in Woodside, California, atop the historic AT&T Long Lines infrastructure, this facility stands at 2,600 feet—the highest point in the Bay Area. Enjoy 360-degree views and line-of-sight connectivity to every major city in the region.

An ideal site for so many things including:

- **1. Radio Transmissions**
- 2. Data Storage & Transfer Station
- **3. Base Stations for Space Communications**
- 4. Weather Monitoring & Alert Systems
- 5. Advanced Communication Networks
- 6. IOT (Internet of Things) Systems
- 7. Video Monitoring Systems
- 8. Military Defense Systems
- 9. Aviation & Arial Monitoring
- **10. Education, Research & Observations**
- **11. Environmental Consulting**
- 12. Track Terrestrial, Airborne and space Assets
- **13. Security Monitoring, base station & Vantages**
- **14. Insurance Companies for Live Monitoring**
- **15. Civil & Public Safety Radio networks**

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**Building Address:** 

15040 Skyline Blvd Woodside, CA 94062

GPS Coordinates: @37.410485,-122.3098005

FCC ASR Registration #: 1260084

**District: Unincorporated San Mateo County** Lot Size: 40,000 sq ft **Building Size:** 2200 sq ft Stories: 2.5 Levels Zoning: (RM) Resource Management Year Built: 1960 **Rentable Sq ft:** 2500 sq ft Expandable sq ft Approx. 20,000 sf **Current Power:** 3 Phase 408v 800A 45Kva **Expandable Power:** 50+ MW of Grid Power **Tower Size:** 97' above grade **Property Elevation:** 2450' above sea **Total Elevation:** 2547' above sea level

For more info Contact info@SierraMorenaTower.com - +1-702-720-4750

## **SF BAY AREA - TERRESTRIAL DEMOGRAPHICS**



#### **Terrestrial Coverage:**

A 70-mile radius from the tower encompasses a significant portion of Northern California's major metropolitan areas, such as San Francisco County, Marin County, Alameda County, Santa Clara County, and parts of the Central Valley, including Stockton and Vacaville.

#### **Estimated Population:**

The San Francisco Bay Area alone has a population of approximately 7.52 million people. Including adjacent regions within the 70-mile radius, the total population is estimated to exceed 9 million residents as of 2024.

#### **Population Statistics:**

The region includes some of the wealthiest and most educated areas in the United States, particularly in Silicon Valley, with median household incomes significantly above the national average. Over 50% of residents hold bachelor's degrees or higher, reflecting the presence of numerous technology companies and research institutions.

#### **Regional Businesses:**

The Bay Area is a global economic powerhouse, home to leading industries in technology, finance, and biotechnology. Silicon Valley drives innovation and hosts numerous Fortune 500 companies. Its highly educated, diverse workforce and exceptional venture capital funding foster a dynamic startup ecosystem alongside established enterprises. This thriving business environment, coupled with some of the highest median incomes in the nation, makes the region a hub for innovation and economic growth.

Note: These demographic figures are approximate and based on available data. For precise and up-to-date information, consulting local census data or demographic studies is recommended.

The Woodside, CA site, historically known as Sierra Morena, was part of the historic AT&T Long Lines Network. This network features terrestrial communication towers strategically placed to bypass the Earth's curvature, creating a nationwide point-to-point wireless infrastructure extending across the U.S. and neighboring countries.

To explore maps, photos, and the history of over 2,000 sites throughout the USA, Canada, and Mexico, visit https://long-lines.com



## **ELECTRICAL SPECIFICATIONS**



Existing Power:	3ph / 400Amp / 408V
<b>Potential Power:</b>	50Mw + (PGE 230Kv)
Backup Power:	Generac Propane 14Kw
Backup Potential:	5Mw
Solar Potential:	50Kw

## **Available Full Rack Stations: 100+**





# The 97' - 3 Platform - Tier 3 - Tower Structure



# 360° Views Including Marin, Santa Clara, San Mateo, San Francisco County & the Pacific Ocean



#### Elevation and Horizon View:

At 2,547' feet above sea level, the geometric horizon is approximately 61 miles away. This gives the location an exceptionally broad and clear view of the sky with minimal atmospheric distortion.

The elevation angle from the horizon to directly overhead (zenith) is 90°, covering a vertical field of view ideal for observing celestial objects at varying altitudes.

#### Azimuth Range:

The location provides an azimuthal view of 0° to 360°, meaning it offers complete horizontal coverage around the compass, from true north (0°) clockwise through east, south, and west back to north. Angular Field of View:

The site can observe space objects within a field of view from approximately -0.5° (just below the horizon, factoring in atmospheric refraction) to the zenith (90°). This translates to a hemispherical sky view spanning 180° in the vertical plane.

#### Astronomical Coordinates:

Based on its latitude and longitude (approximately 37.396°N, 122.245°W), the location is positioned to track celestial objects along the ecliptic (the apparent path of the sun) and is well-suited for observing key constellations, satellites, and astronomical phenomena visible from the northern hemisphere.

#### Geographical Advantage:

With its altitude and line-of-sight clarity, the site is optimal for observations of low-earth-orbit satellites and celestial bodies. The precise angle to geostationary satellites (at ~22,236 miles altitude) varies but is typically around 45° to 55° above the southern horizon from this location.

## **Facility Security**

## **Security Overview:**

Onsite Security:Unarmed Guard 16+ hours daily 7 days a weekCamera System:24/7 AI Monitored and Recorded Exterior & InteriorFencing System:Double Gate with 12' tall fencing with barbed wireLaw Enforcement:Armed Open Space Rangers, County Sheriffs & CHPLocks:High Security Unpick-able Lock SystemsTower:Heavy Duty Blast Resistant ConstructionFacility:12" Thick Reinforced Concrete structureDoor System:Double 3 Hour Blast and Fire Proof Steel

## **Available Data Connectivity**



**1. AT&T - Dedicated Internet, Ethernet, & IP Transit** services - 100 Gbps

2. CenturyLink (Lumen Technologies) - IP Transit, Wavelength, & Ethernet - 100 Gbps

**3. Cogent Communications - Dedicated Internet Access & Ethernet services - 100 Gbps** 

4. Zayo Group - Dark Fiber, Wavelength, and Ethernet services - 400 Gbps

5 - 10. Verizon Business, Comcast Business, Etheric Networks, Arelion, Hurricane Electric, NTT Communications, GTT Communications 100 - Gbps Ea

## **Coverage Propagation Maps**

Туре	Frequency Range	Typical Range (km)	<b>Propagation Characteristics</b>
Radar	1-10 GHz	20-500 km	Line of sight; influenced by atmospheric ducting and target reflectivity.
AM Radio	530-1700 kHz	100-1000+ km	Ground wave propagation over large distances; depends on ground conductivity and time of day (night increases range).
FM Radio	88-108 MHz	30-100 km	Limited to line of sight; highly affected by terrain.
Two-Way Radio (VHF)	30-300 MHz	3-30 km	Better for open areas; terrain dependent.
Two-Way Radio (UHF)	300-3000 MHz	1-10 km	Urban areas; highly terrain dependent.
Business Band Radio	450-470 MHz (UHF)	1-20 km	Highly dependent on antenna height and power; used for short-range communication.
<b>3G Networks</b>	850-2100 MHz	2-10 km	Dependent on network type (CDMA/WCDMA); higher frequencies are shorter range.
4G LTE	600-2600 MHz	1-20 km	Requires more towers for coverage; rural areas use lower frequencies for broader coverage.
5G Sub-6 GHz	3-6 GHz	1-10 km	Good for mid-range coverage; ideal balance of speed and range.
6G	100 GHz - 1 THz	0.1-1 km (theoretical)	Expected to rely on ultra-dense network infrastructure and advanced beamforming for short, high-speed connections

# Tallest tower on the SF Peninsula & 7th tallest in Bay Area& The only tower with Line of Sight to every bay county

	Tower Name	Location	Tower Height	Ground Elevation	Total Elevation	Distance from San Mateo, CA
1	Mount Hamilton Tower	Santa Clara County	100 ft (30 m)	4,265 ft (1,300 m)	4,365 ft (1,330 m)	30 miles (48 km)
2	Loma Prieta Tower	Santa Clara/Santa Cruz County	200 ft (61 m)	3,790 ft (1,155 m)	3,990 ft (1,216 m)	40 miles (64 km)
3	Mount Diablo Tower	Contra Costa County	150 ft (46 m)	3,849 ft (1,173 m)	3,999 ft (1,219 m)	35 miles (56 km)
4	Mount Umunhum Tower	Santa Clara County	150 ft (46 m)	3,486 ft (1,063 m)	3,636 ft (1,109 m)	25 miles (40 km)
5	Monument Peak Tower	Milpitas	605 ft (184 m)	3,199 ft (975 m)	3,804 ft (1,159 m)	20 miles (32 km)
6	Mount Allison Tower	Fremont	200 ft (61 m)	2,650 ft (808 m)	2,850 ft (869 m)	20 miles (32 km)
7	Sierra Moreno Tower	Woodside	150 ft (46 m)	2,450 ft (747 m)	2,600 ft (793 m)	10 miles (16 km)
8	Mount Tamalpais Tower	Marin County	150 ft (46 m)	2,571 ft (784 m)	2,721 ft (830 m)	25 miles (40 km)
9	San Bruno Mountain Tower	San Bruno	200 ft (61 m)	1,314 ft (400 m)	1,514 ft (461 m)	10 miles (16 km)
10	Sutro Tower	San Francisco	977 ft (298 m)	834 ft (254 m)	1,811 ft (552 m)	15 miles (24 km)
11	Twin Peaks Tower	San Francisco	100 ft (30 m)	925 ft (282 m)	1,025 ft (312 m)	15 miles (24 km)

## **AM & FM Radio Coverage Propagation Maps**





144Mhz FM Radio (88-108MHz) 100km Frequency 144 MHz **Base Name** 15040 Skyline Latitude 37.41042785 ° Longitude -122.30720865 ° Elevation 724.7 m Base Antenna Height 50 m **Base Antenna Gain** 15.0 dBi Base Antenna Type omni Base Antenna Azimuth 0 ° **Base Antenna Tilt** 0 ° Mobile Antenna Height 50.0 m Mobile Antenna Gain 5.0 dBi Tx Power 1000.00000 W Tx Line Loss 2.0 dB Rx Line Loss 0.5 dB Rx Threshold 0.500 µV (-113.0 dBm) Required Reliability 90% Strong signal margin 7.0 dB

# **3G & 4G Coverage Propagation Maps**

Description	902	2Mhz 3G	Cell 1	0km
Frequency	902	2 MHz		
Base Name	15	040 Sky	line	
Latitude	37.41	042785	•	
Longitude	-122	2.30720	865 °	
Elevation	724.	7 m		
Base Antenna H	eight	50 m		
Base Antenna G	ain	18.0 dB	i l	
Base Antenna T	уре	omni		
Base Antenna A	zimuth	0 °		
Base Antenna T	ilt C	) °		
Mobile Antenna	Height	50.0 n	n	
Mobile Antenna	Gain	5.0 dBi		
Tx Power	100.	00000 \	N	
Tx Line Loss	1.0	dB		
Rx Line Loss	0.5	dB		
Rx Threshold	0.8	500 μV (	-113.0	dBm)
Required Reliab	ility 9	0%		
Strong signal ma	argin	7.0 dB		
0.50 μV	6719 km <sup>2</sup>	4144872 pop	1.12 µV	6371 km





Frequency	902 MHz
Base Name	15040 Skyline
Latitude	37.41042785 °
Longitude	-122.30720865 °
Elevation	724.7 m
Base Antenna	Height 50 m
Base Antenna	Gain 18.0 dBi
Base Antenna	Type omni
Base Antenna .	Azimuth 0 °
Base Antenna	Tilt 0°
Mobile Antenn	a Height 50.0 m
Mobile Antenn	a Gain 5.0 dBi
Tx Power	100.00000 W
Tx Line Loss	1.0 dB
Rx Line Loss	0.5 dB
Rx Threshold	0.500 μV (-113.0 dBm
Required Relial	bility 90%
Strong signal n	hargin 7.0 dB

## **5G & 6G Coverage Propagation Maps**

3300MHz 5G Cell 10km ✓ Description 3300 MHz Frequency **Base Name** 15040 Skyline Latitude 37.41042785 ° -122.30720865 ° Longitude Elevation 724.7 m Base Antenna Height 50 m **Base Antenna Gain** 22.0 dBi Base Antenna Type omni Base Antenna Azimuth 0 ° **Base Antenna Tilt** 0 ° Mobile Antenna Height 50.0 m Mobile Antenna Gain 5.0 dBi Tx Power 200.00000 W 1.0 dB Tx Line Loss Rx Line Loss 0.5 dB **Rx** Threshold 0.500 μV (-113.0 dBm) Required Reliability 90% Strong signal margin 5.0 dB





250MHz 6G Cell 1km ✓ Description 250000 MHz Frequency Base Name 15040 Skyline Latitude 37.41042785 ° Longitude -122.30720865 ° Elevation 724.7 m **Base Antenna Height** 50 m Base Antenna Gain 40.0 dBi Base Antenna Type omni Base Antenna Azimuth 0 ° 0 ° Base Antenna Tilt Mobile Antenna Height 50.0 m Mobile Antenna Gain 15.0 dBi Tx Power 200.00000 W Tx Line Loss 1.0 dB Rx Line Loss 0.5 dB **Rx Threshold** 0.390 µV (-115.2 dBm) Required Reliability 85% Strong signal margin 5.0 dB

## **UHF & VHF Coverage Propagation Maps**





# **UHF - Two-Way Radios**

Description 42	20MHz UHF two way radio 10km
Frequency 4	20 MHz
Base Name 1	5040 Skyline
Latitude 37.4	41042785 °
Longitude -1	22.30720865 °
Elevation 724	1.7 m
Base Antenna Height	50 m
Base Antenna Gain	20.0 dBi
Base Antenna Type	omni
Base Antenna Azimut	:h 0°
Base Antenna Tilt	0 °
Mobile Antenna Heig	ht 50.0 m
Mobile Antenna Gain	20.0 dBi
Tx Power 50	0.00000 W
Tx Line Loss 3	.0 dB
Rx Line Loss 0	.5 dB
Rx Threshold (	).500 μV (-113.0 dBm)
Required Reliability	90%
Strong signal margin	10.0 dB

## **1GHz & 10GHz Radar Propagation Maps**

