



**Proposed Small Cell Wireless Facility
on the
Scotts Valley High School Campus
Verizon Wireless Site ID: Scotts Valley
High School**

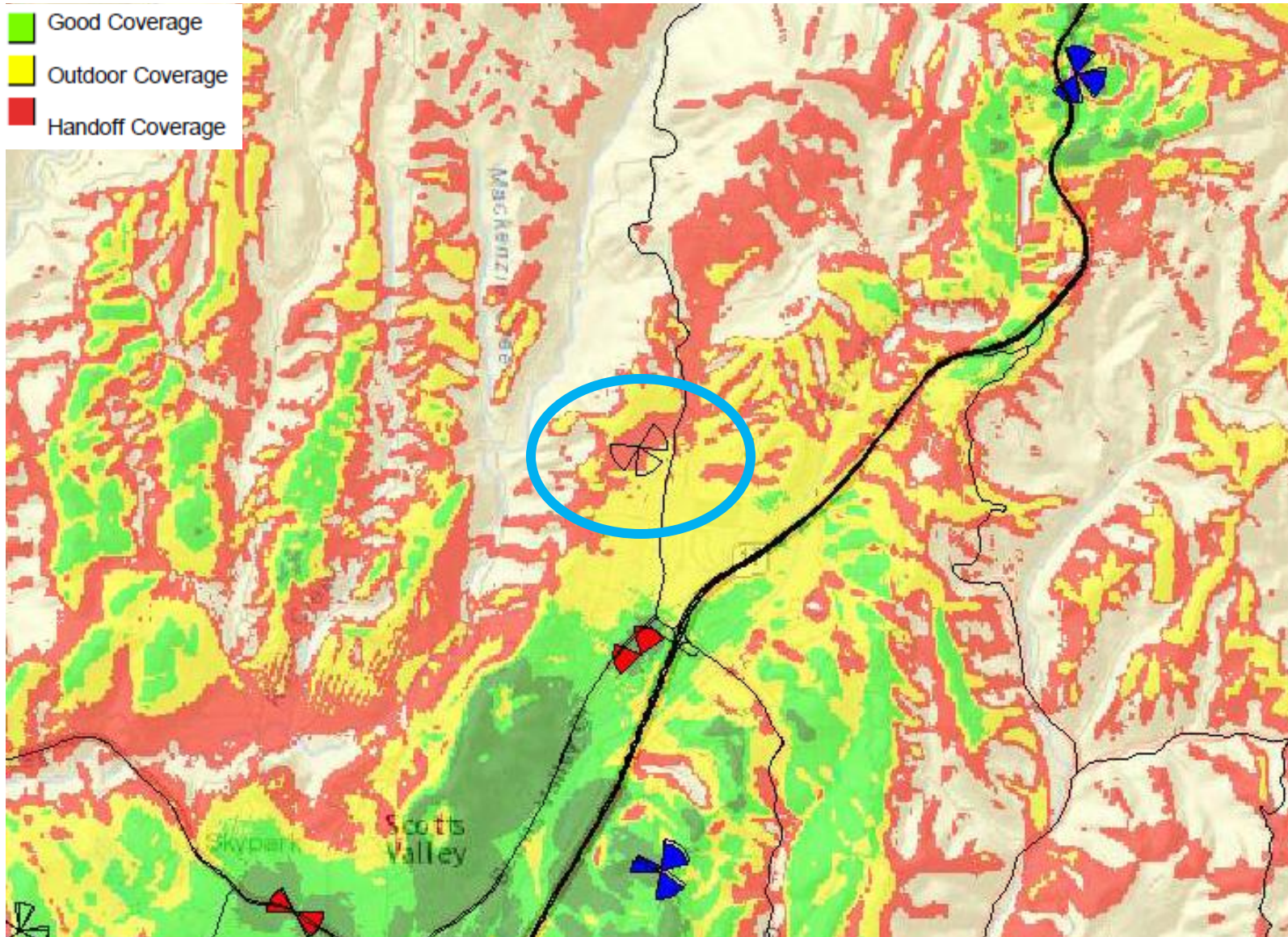
Introduction

- Verizon Wireless identified a need for more service support at the high school because the current Scotts Valley site is being overloaded by a large amount of users at the high school.
- Peak usage times:
 - Before school starts
 - During lunch break
 - After school ends
- Therefore, a small cell site at the high school was selected as the solution to provide this capacity relief.

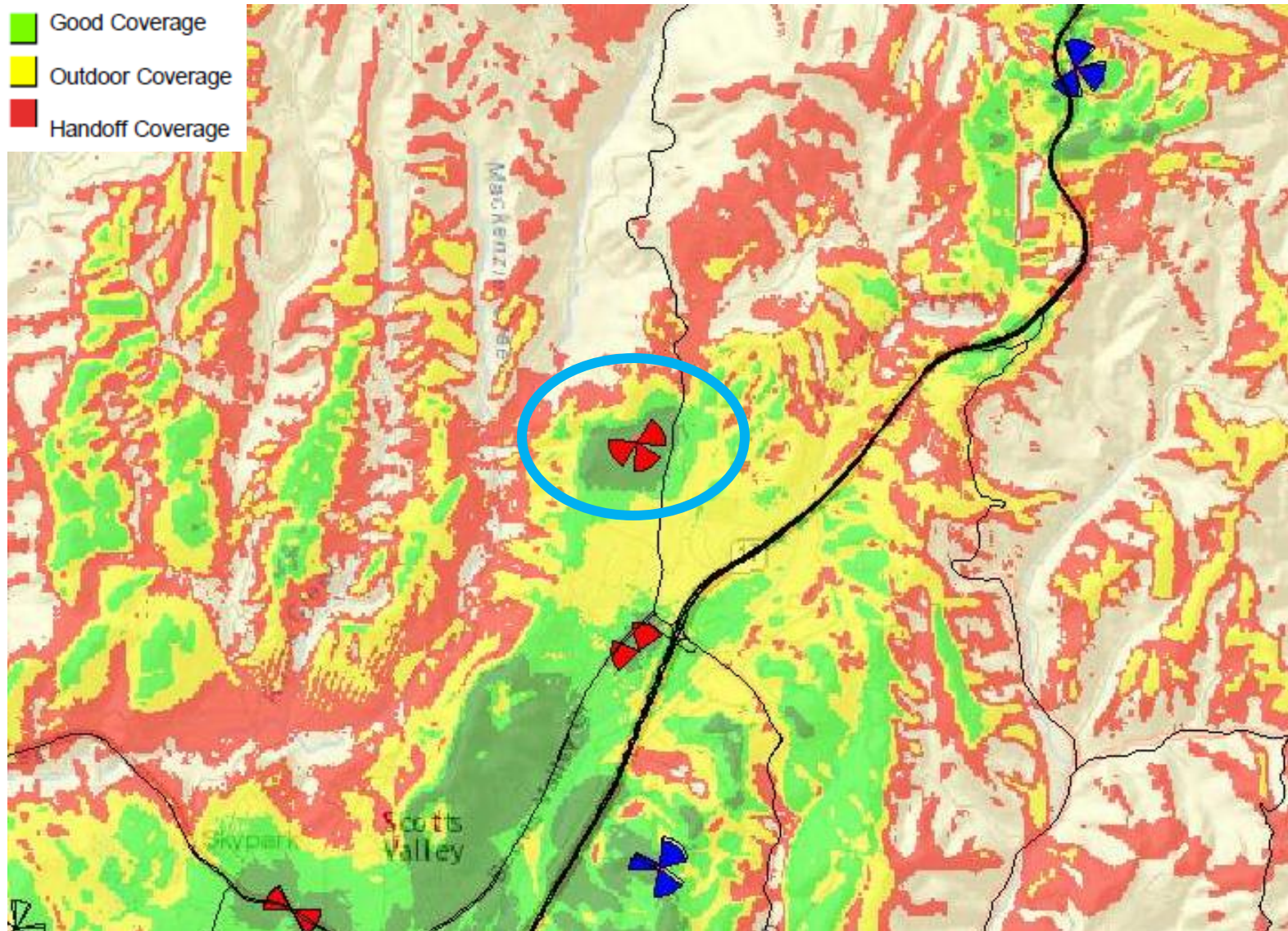
Increased Capacity Benefits Public Services

- Wireless communications enhance public safety and allow for critical communication between the public and 911 services. 76% of 911 calls originate from a cell phone.(National Highway Traffic Administration, February, 2016)
- 240 Million 911 calls are made annually from wireless phones (Anwars, March 2015)
- Verizon Wireless is the primary communication source for numerous federal, state, and local emergency service organizations. It is critical that these groups have the coverage and capacity in their wireless networks to meet their E911 and other needs.

Coverage Map-Existing service



Coverage with new site



Small Cell Site

- Small cell sites are typically smaller wireless facilities whose main purpose is to provide coverage to a specific targeted area.
- Examples of designs:
 - Rooftop sites
 - Pole sites
- While wireless communication towers cover multiple miles, small cell sites usually only cover between 0.11 – 0.22 miles (200-400 yards).
- No collocation of other carriers possible

Verizon Wireless Proposal Choice #1: Gym Rooftop Site (Highest Preference)



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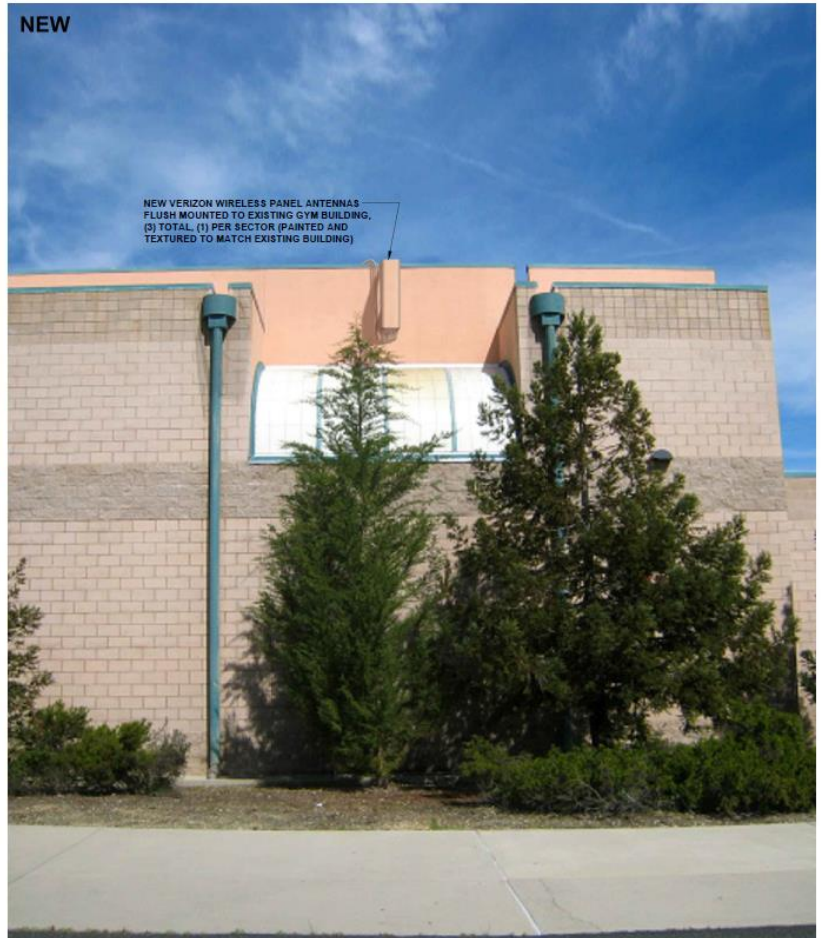


Verizon Wireless Proposal Choice #1: Gym Rooftop Site (Highest Preference)

EXISTING



NEW



Verizon Wireless Proposal Choice #2: Parking Lot Light Pole Site



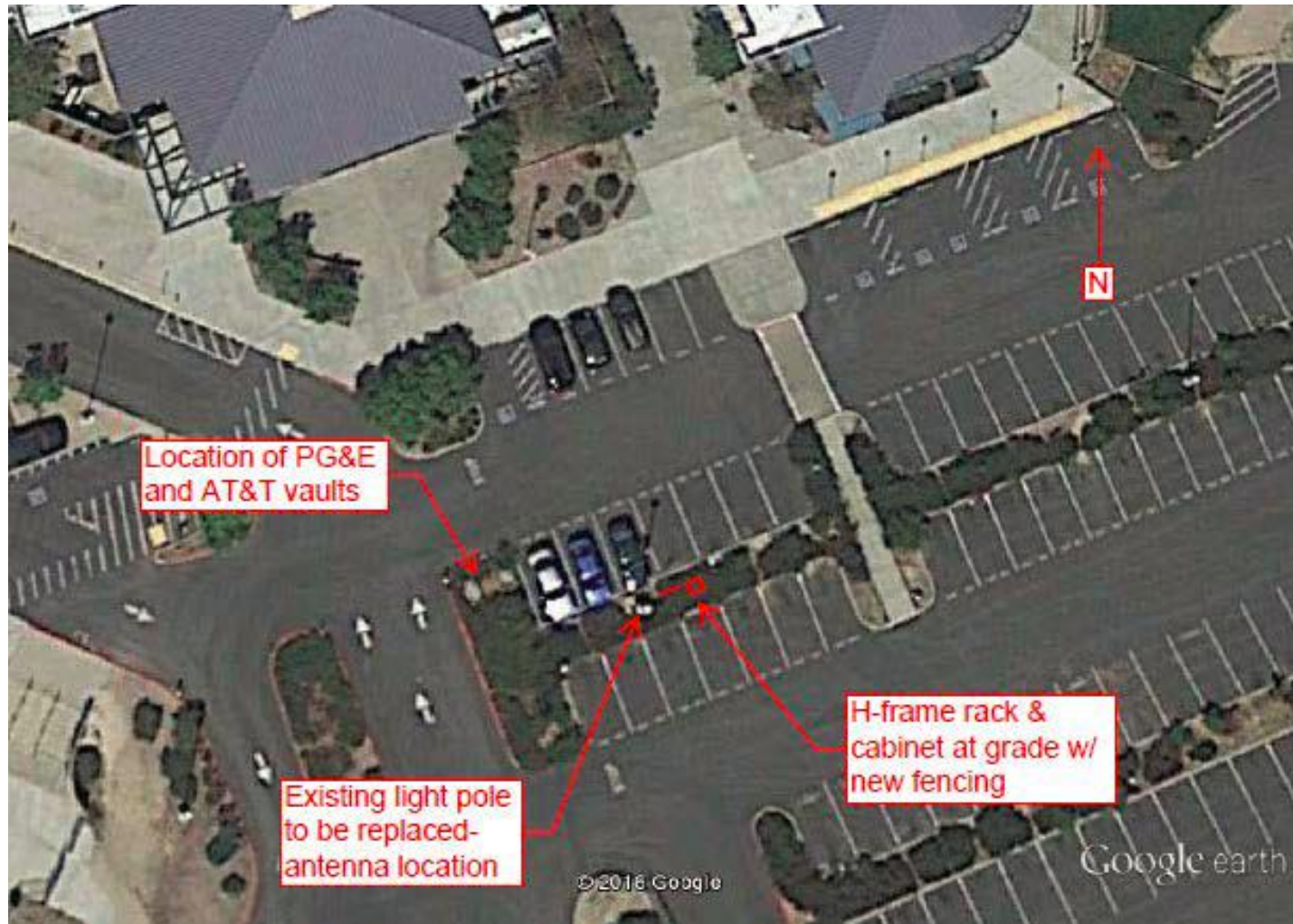
Verizon Wireless Proposal Choice #2: Parking Lot Light Pole Site



Verizon Wireless Proposal Choice #2: Parking Lot Light Pole Site



Verizon Wireless Proposal Choice #3: Parking Lot Light Pole Site



Verizon Wireless Proposal Choice #3: Parking Lot Light Pole Site



Conclusion

- A location at the high school is seen as the best option for servicing the needs of the campus as well as offloading capacity off of the current Scotts Valley site.
- Verizon Wireless's highest preference is a three antenna design at the gym because it will best service the campus out of the three options.

Casey Ogata-Tran
Specialist Site Development
209-747-1725
SAC Wireless
1851 Heritage Lane, Suite 182,
Sacramento CA 95815
casey.ogata.tran@sacw.com

Questions?