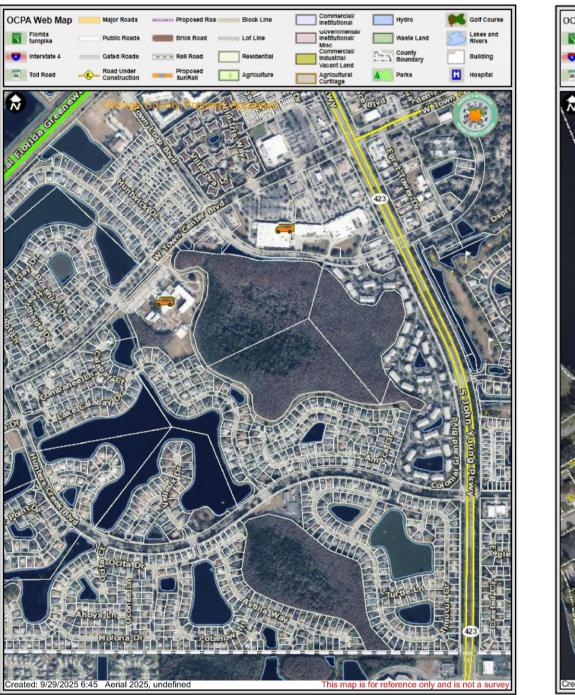
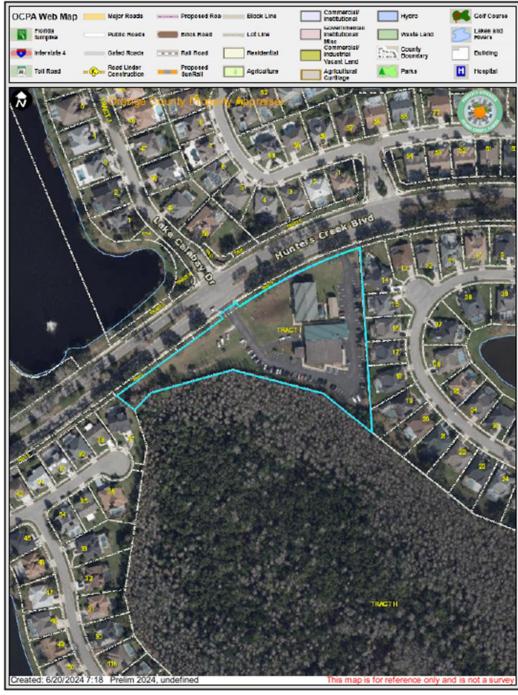
Skyway Towers South Orlando Communication Tower Orange County Board of County Commissioners Meeting

SEPTEMBER 30, 2025

Request

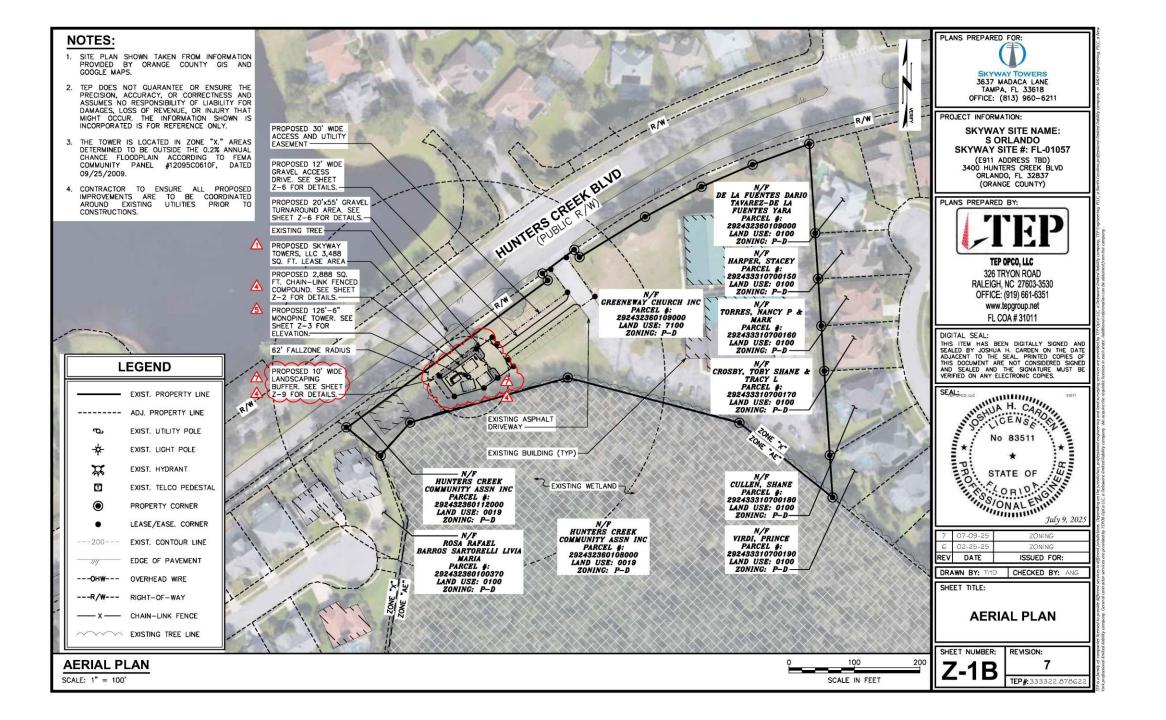
- PD LUP change determination to permit the installation of a 126'- 6" monopine communication tower on Greeneway Church Property
 - Waiver from residential separation
 - Waiver to not provide landscaping on south side of tower compound abutting conservation area
- Tower to be owned and maintained by Skyway Towers
- T-Mobile anchor tenant needed to resolve coverage gap in the area
- Church property chosen because it is a large parcel located within the residential area where the antennas are needed.

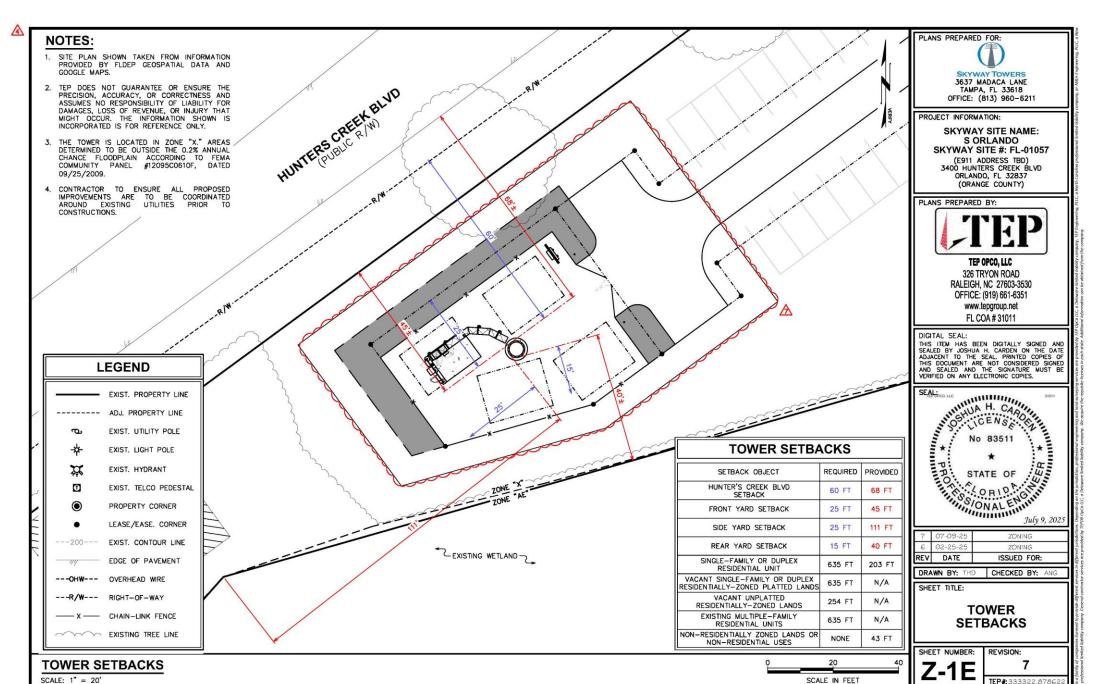




Communication Tower

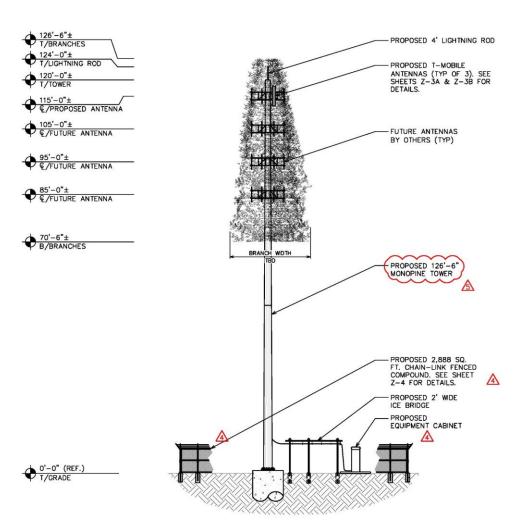
- 126' 6" monopine communication tower
- 3,500 s.f. tower compound on west side of church property
 - Accessed from Hunter's Creek Boulevard through Church's main entrance
- Monopine design for camouflage with abutting wetland conservation area and existing mature trees on property
- Engineered fall zone on parent parcel
- No lighting required based on tower height
- Designed for collocation of other carriers
- Meets FCC and TIA-222 design standards







- PROPOSED CABLES TO BE RUN PER SPECIFICATIONS OF PASSING STRUCTURAL ANALYSIS.
- 2. TOWER SHALL BE CONSTRUCTED OF GALVANIZED STEEL OR PAINTED PER APPLICABLE STANDARDS OF THE FAA OR OTHER APPLICABLE FEDERAL OR STATE AGENCY
- 3. TOWER ELEVATION SHOWN FOR REFERENCE ONLY, VERIFY ACTUAL TOWER DESIGN & LOADING WITH TOWER DRAWINGS FROM MANUFACTURER AND/OR PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION.





OFFICE: (813) 960-6211

PROJECT INFORMATION:

SKYWAY SITE NAME: S ORLANDO SKYWAY SITE #: FL-01057

(E911 ADDRESS TBD) 3400 HUNTERS CREEK BLVD ORLANDO, FL 32837 (ORANGE COUNTY)

PLANS PREPARED BY:

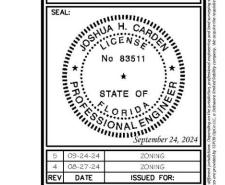


TEP OPCO, LLC

326 TRYON ROAD RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351 www.tepgroup.net FL COA # 31011

DIGITAL SEAL:

DIGITAL SEAL:
THIS TIEM ASS BEEN DIGITALLY SIGNED AND
SEALED BY JOSHUA H. CARDEN ON THE DATE
ADJACENT TO THE SEAL PRINTED COPIES OF
THIS DOCUMENT ARE NOT CONSIDERED SIGNED
THIS DOCUMENT ARE NOT CONSIDERED MIST BE AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



REV	DATE	ISSUED FOR:
4	08-27-24	ZONING
5	09-24-24	ZONING

DRAWN BY: THD CHECKED BY: ANG

SHEET TITLE:

TOWER ELEVATION

SHEET NUMBER:

REVISION:

TEP#:333322.8786

TOWER ELEVATION

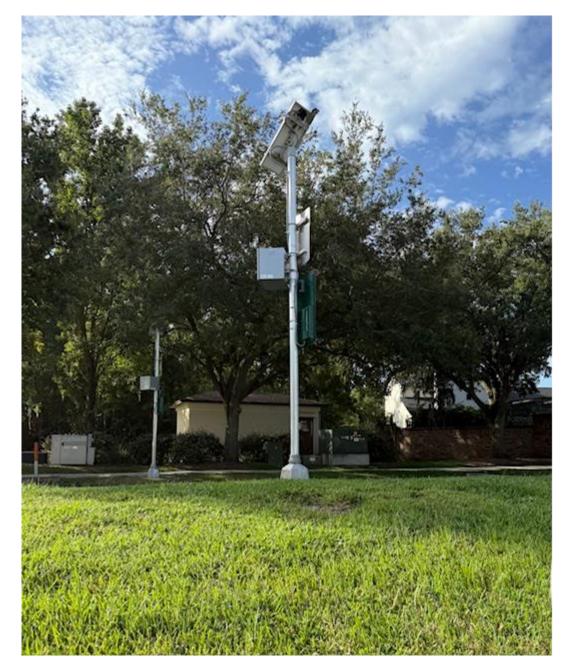
20 SCALE IN FEET

Waivers

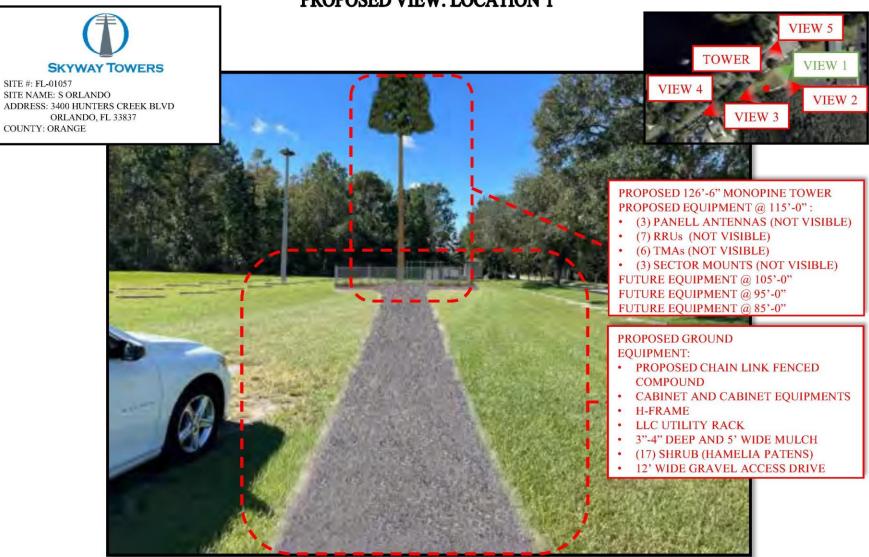
- Reduction in separation from residential
 - 500% tower height (635') required
 - 203' proposed
- Antennas needed at this height to serve demand created by residential in the surrounding community
 - No way to meet the 500% separation and provide needed coverage to surrounding densely populated residential area
 - T-Mobile antennas already located on existing Hunter's Creek towers
- Other towers approved in Hunter's Creek that don't meet current separation requirements
- Camouflage design abutting conservation area, existing mature trees and utility building on the property, and proposed landscaping provide necessary screening and buffering

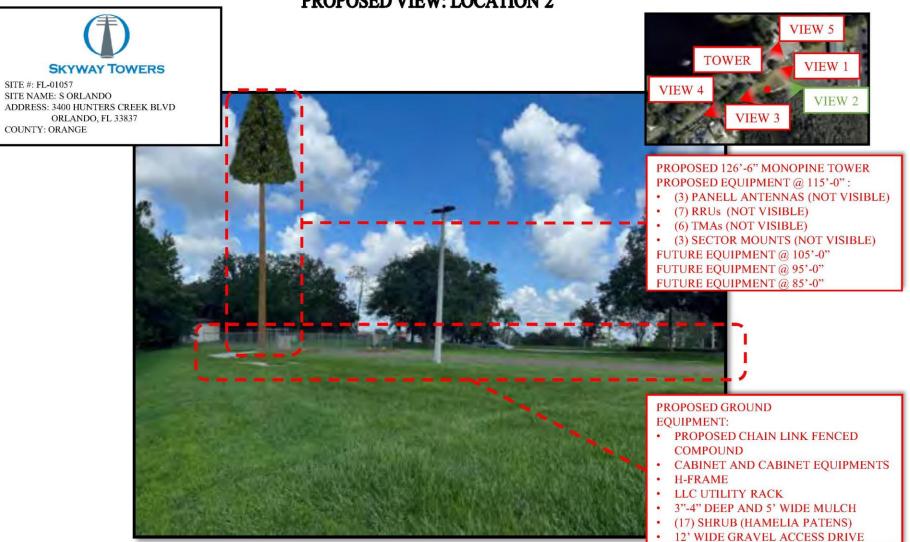


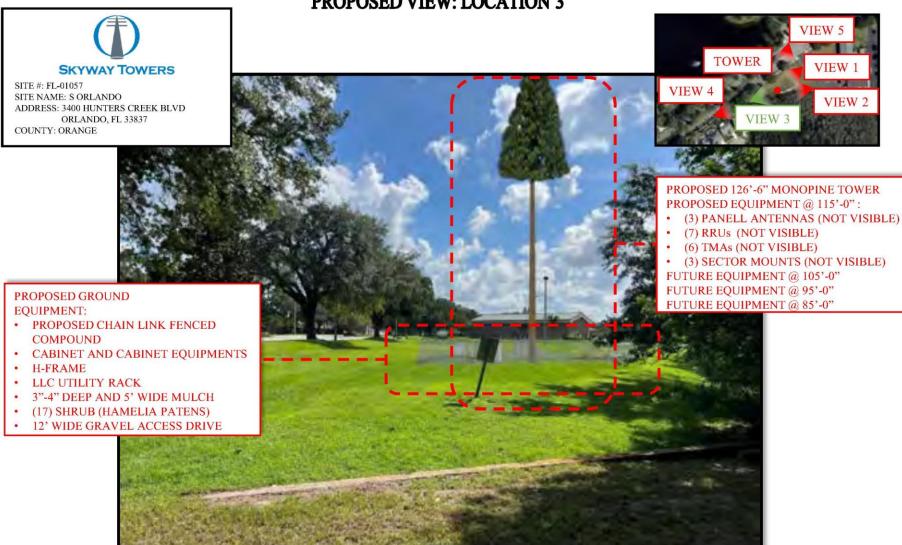




















PROPOSED 126'-6" MONOPINE TOWER

PROPOSED EQUIPMENT @ 115'-0":

- (3) PANELL ANTENNAS (NOT VISIBLE)
- (7) RRUs (NOT VISIBLE)
- (6) TMAs (NOT VISIBLE)
- (3) SECTOR MOUNTS (NOT VISIBLE)

FUTURE EQUIPMENT @ 105'-0" FUTURE EQUIPMENT @ 95'-0"

FUTURE EQUIPMENT @ 85'-0"

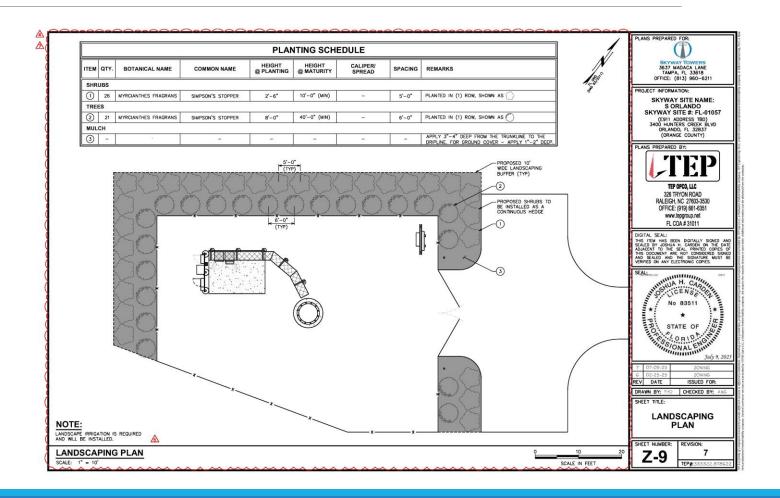
PROPOSED GROUND **EQUIPMENT:**

- PROPOSED CHAIN LINK FENCED **COMPOUND**
- CABINET AND CABINET EQUIPMENTS
- H-FRAME
- LLC UTILITY RACK
- 3"-4" DEEP AND 5' WIDE MULCH
- (17) SHRUB (HAMELIA PATENS)
- 12' WIDE GRAVEL ACCESS DRIVE



Waivers

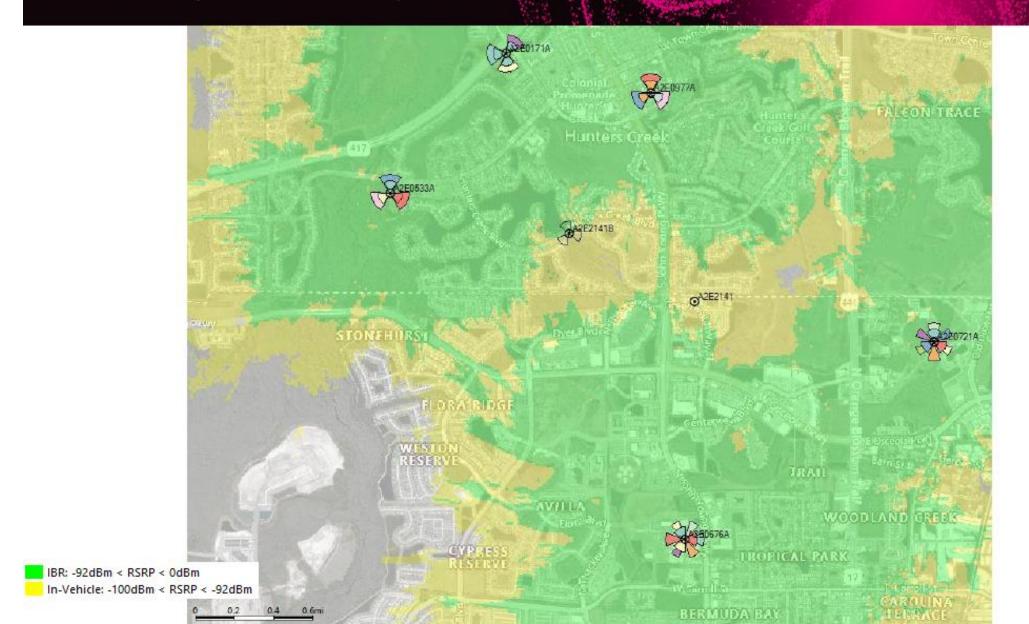
- Not providing landscaping along south side of compound
 - Abuts undeveloped conservation area
- Required landscaping from south side of compound incorporated into the north, west, and east sides



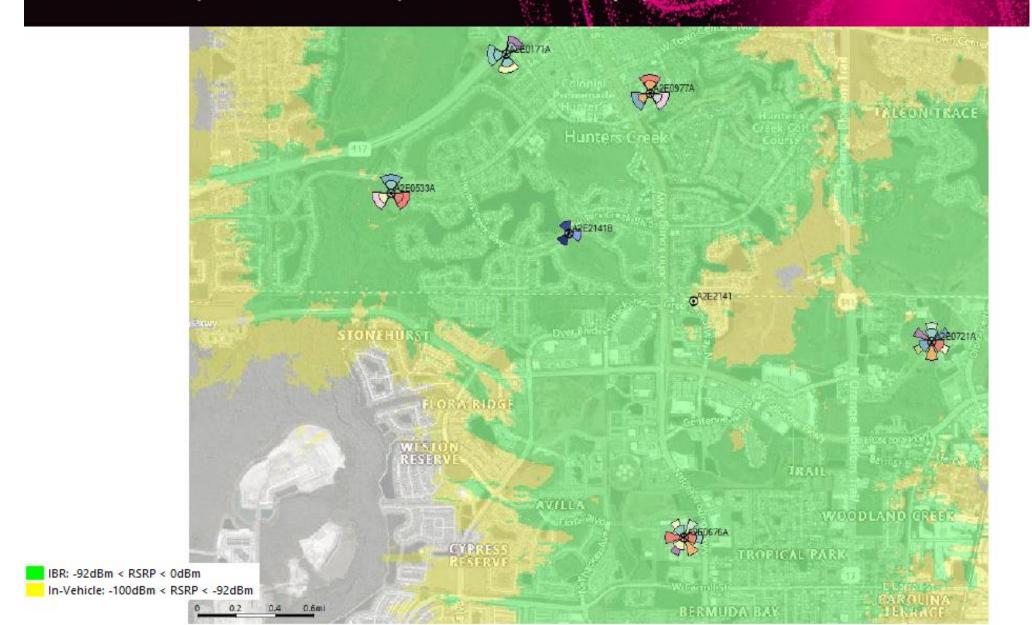
Tower Need

- T-Mobile as anchor tenant
- Needed by T-Mobile to fill coverage gap in the highly developed and densely populated area
 - T-Mobile RF report supports need
 - T-Mobile antennas on other existing towers in Hunter's Creek
 - Tower will also help offload other communication towers in surrounding area, including other towers in Hunter's Creek
- Proposed tower height required to resolve coverage gap
 - Proposed height lower than existing communication towers in Hunter's Creek
- Quality coverage and capacity important for public health, safety, and welfare

5G Coverage Without A2E2141B Mid-Band (B41-2500MHz) NR Service Map (RSRP)



5G Coverage With A2E2141B Mid-Band (B41-2500MHz) NR Service Map (RSRP)



Existing Communication Towers in Hunter's Creek







- Existing towers taller than proposed tower
- T-Mobile already located on existing towers
- Some existing towers do not meet current residential separation standards

Conclusion

- Tower needed by T-Mobile in this location and at this height
 - Height lower than other towers constructed in Hunter's Creek
 - Needed to serve the dense residential population in the surrounding area
- Camouflage design, location abutting conservation area, existing mature trees and utility building on the property, and proposed landscaping will provide necessary screening and buffering
 - No lighting required
- Proposed PD LUP changes and waivers reasonable to provide wireless infrastructure in dense residential area where it is needed
- Request approval of the PD LUP change determination and two waivers subject to DRC conditions of approval