

Proposed Tower Fact Sheets

In order to proceed with the approved 2005 bond referendum communications system project the County must construct nine (9) new communications towers within the County. The nine (9) new towers, in conjunction with the use of three (3) commercial towers and three (3) County owned towers which are already in use, will create a 15-site communications system. When completed, the system will allow our public safety personnel to communicate throughout the County and within most commercial businesses, schools, government buildings and residential occupancies.

The proposed towers are proposed to be strategically located in a manner that will provide public safety personnel with 95% in-building portable radio coverage. Redundancy, back-up capabilities and connectivity of the sites will be obtained using a loop point-to-point microwave subsystem which enables the wide-area 700/800 MHz coverage.

The new towers are proposed to be constructed at the following locations:

- Rockville Site – 16486 MLC Lane - 330-ft self –supported tower located off the west side of Missionary Learning Center Lane (private road), approximately 2,200 feet west of its intersection with South Anna Drive (State Route 703), on GPIN 7729-43-4175
- Old Church Site – 2343 Old Church Road - 400-ft self-supported tower located off the south side of Old Church Road (State Route 606), approximately 2,700 feet west of its intersection with Flannigan Mill Road (State Route 693), on GPIN 8765-25-2607
- Doswell Site – 10076 Kings Dominion Blvd. - 400-ft self-supported tower located at the Doswell Water Treatment facility off the north side of Kings Dominion Boulevard (State Route 30), approximately 1,060 feet east of its intersection with Doswell Road (State Route 688), on GPIN 7893-08-2029
- Ellyson’s Garage Site - 5830 Cold Harbor Road – 400-ft self-supported tower located off the east side of Cold Harbor Road (State Route 156), approximately 1,700 feet south of its intersection with Rockhill Road (State Route 619), on GPIN 8743-09-4401
- Elmont Site – 12007 Cedar Lane - 400-ft self-supported tower located behind Elmont Elementary School off the north side of Karen Drive (State Route 772), at its intersection with Cedar Lane (Sate Route 623), on GPIN 7768-95-8984
- Beaverdam Site – 15478 Beaverdam School Road - 350-ft self-supported tower located behind Beaverdam Elementary School off the south side of Beaverdam School Road (State Route 739), at its intersection with Halls Hideaway Lane (private road), on GPIN 7836-04-4007

- Farrington Site – 14582 Mountain Road - 300-ft self-supported tower located off the north side of Mountain Road (U.S. Route 33), approximately 850 feet east of its intersection with Stone Horse Creek Road (State Route 670), on GPIN 7749-47-4209
- Holly Hill Site - 11230 Lake Shore Court - 300-ft self-supported tower located off the east side of Old Washington Highway (State Route 626), approximately 3,000 feet south of its intersection with Cedar Lane (State Route 623), on GPIN 7777-67-6294 (west of the Dominion Power Sub-Station)
- Georgetown Site – 450-ft guyed tower located on the west side of Georgetown Road (State Route 651), approximately 600 feet north of its intersection with Chestnut Church Road (State Route 750), on GPIN 8718-15-1828
- Sinclair Site – 8098 Shady Grove Road - a privately owned tower is being proposed to relocate from its location off Meadowbridge Road to a new location for a 400-ft guyed tower off the east side of Shady Grove Road (State Route 640), approximately 1,600 feet north of its intersection with Olde Grove Glenn (State Route 1490), on GPIN 8715-01-2811

Eight (8) of the proposed new towers will be self-supporting towers and one will be a guy tower. The towers will range in height from 300' to 450' and will be lighted with medium intensity white/red beacons on the top and sides as required by the Federal Aviation Administration (FAA). The towers will also have red side marker lights as required by the FAA.

The tower site compounds will be approximately 70' x 70' with gravel access roads and turn-around areas. The towers, guy anchors, equipment shelters, and generators will be secured by fencing and locked gates. Where private roads are being proposed for access, the County is planning to assist with the road maintenance. The County and Motorola (the County's chosen System Provider/Integrator) have gone to great lengths to propose locations in wooded areas that will help shield the towers from roadways and homes.

All towers will be constructed in a manner where they will be safe and secure and built to specifications that will allow potential co-locators. This will reduce the overall number of towers needed in the County and that will create revenue to help offset the ongoing cost of the system.

The County also understands the safety concerns associated with towers, and they are assuring the towers are being constructed to the strictest industrial design criteria (ANISI/EIA/TIA-222-G). These code design requirements regarding wind and materials safety factors are equal to or more stringent than most of these established for general building structures. When properly engineered and constructed, the proposed towers are no more likely to fail than a properly engineered and constructed building of the same height.