Department of Public Works
Traffic Management Division

500 S. Grand Central Pkwy. Las Vegas, NV 89155-4000 (702)455-6000

Type 3 / 4 Smart Pole Performance Specifications

	Specification NO. 1 - Pole	Yes	No	If No, Specify
1.1	Maximum height of pole without Modular Antenna Canister shall not exceed height of the existing facility that is being replaced, or the adjacent street light facilities. Modular Antenna Canister shall not exceed 10 feet in height.			
1.2	Pole shall be able to accommodate the placement of a Clark County QPL listed fixture at the same offset and height relative to the curb and finished grade as the facility that it is replacing. Specific site to be listed on encroachment plan submittal.			
1.3	Pole flange where the pole bolts to the foundation should not exceed 24 inches.			
1.4	Pole shall be monolithic in appearance or smoothly transition from the outside diameter of the base of the pole to the outside diameter of the Antenna Section at an angle of not more than 45 degrees.			
1.5	Pole and luminaire arms shall be galvanized to match the structure being replaced or adjacent structure. In the case of concrete poles the smart pole and arms shall be of similar material, color and texture.			
1.6	All conduit and cabling shall be internal to the pole and concealed from public view.			
1.7	Anchor bolts shall be concealed from public view with a metal boot or cover that is galvanized or painted to match. In the case of concrete poles, anchors may be covered in concrete.			
1.8	Pole provider should certify that pole meets AASHTO Load and Resistance Factor Design (LRFD) specifications to withstand an extreme event wind speed of 105 miles per hour.			
1.9	An adapter plate shall be made available to install a Clark County Standard Streetlight Pole (Uniform Standard Drawings DWG. No. 319) to the Smart Pole foundation. This plate design shall allow installation of a Standard Streetlight and allow for clearance of conduits intended for Smart Pole use.			
1.10	A structural drawing of the pole and foundation stamped by a Licensed Professional Engineer from State of Nevada shall be provided. The drawing should include conduit depths, size and number of conduits, anchor bolts, etc.			

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	Specification NO. 1 - Pole (cont.)	Yes	No	If No, Specify
1.11	An electrical diagram of the pole shall be provided including raceways or conduit paths.			
	Specification No. 2 - Antenna Section	**Yes**	**No**	**If No, Specify**
2.1	Antenna Section shall be designed to provide at least 2 no more than 3 antenna rad center bays for 4G and at least 2 no more than 3 integrated radio/antenna rad center bays for 5G located between 15 feet above finished grade to 10 feet over the structure being replaced or adjacent structures.			
2.2	It is preferred that all 5G equipment including antenna be concealed within the antenna section of the pole or flush mounted to the pole as to maintain the cylindrical shape of the pole. All 4G equipment and antennae shall be shrouded or concealed.			
2.3	Top of pole shall be designed to accept a modular canister that can accommodate at least 2 no more than 3 carrier antennas.			
2.4	Modular Antenna Canister shall not exceed a dimension of 24" outside diameter and 120" in height.			
2.5	Any recessed openings in the Antenna Section rad centers and/or public safety sections shall have a removable cover matching the contour of the pole to be installed when the sections are not in use.			
	Specification No. 3 - Equipment Section	**Yes**	**No**	**If No, Specify**
3.1	At minimum an 8" x 12" hand hole shall be provided at the bottom of the pole for conduit and grounding lug access.			
3.2	The AC load center shall be designed to accommodate 2 separate AC inputs from a common service point, one feeding 2 carriers and one feeding the luminaire. All wiring and connections for streetlights and carriers are to be kept separate.			
3.3	All equipment bays shall feature a lockable door access.			
3.4	It is preferred that all lockable access conform to the general shape of the pole in a manner that is flush in appearance.			

**Any pole to be installed where a height approval from the FAA or Nevada Energy is necessary shall require a separate specific approval.*