

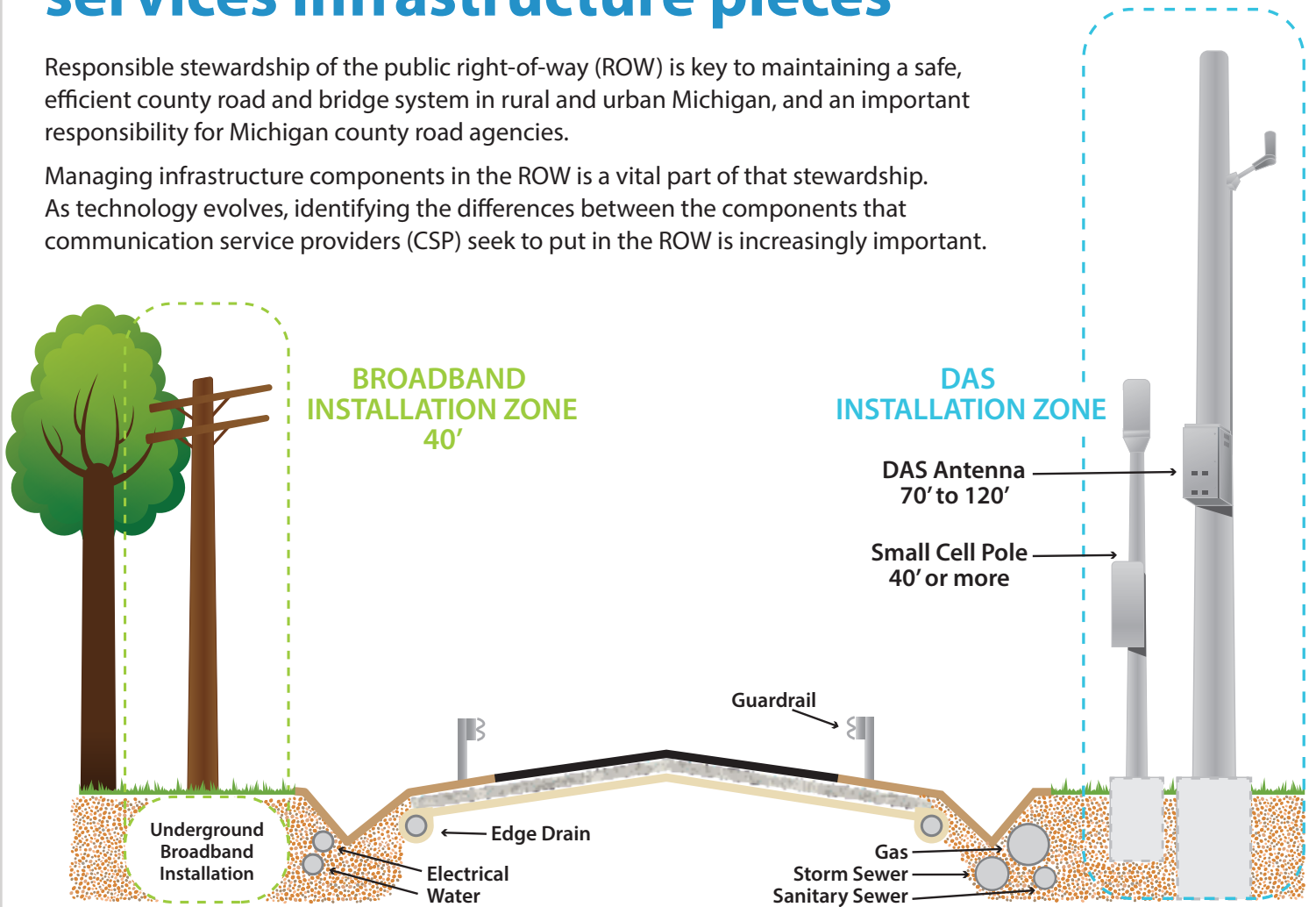


INFORMATION ON BROADBAND, SMALL CELLS AND DAS IN THE LOCAL ROAD RIGHT-OF-WAY

Key differences between communication services infrastructure pieces

Responsible stewardship of the public right-of-way (ROW) is key to maintaining a safe, efficient county road and bridge system in rural and urban Michigan, and an important responsibility for Michigan county road agencies.

Managing infrastructure components in the ROW is a vital part of that stewardship. As technology evolves, identifying the differences between the components that communication service providers (CSP) seek to put in the ROW is increasingly important.



Broadband definition:

Broadband from a consumer standpoint refers to cable internet or fiber-optic installations, providing high-speed internet.

In the context of ROW installations, broadband components can be either buried underground or run from an existing pole in the ROW.

Small Cell definition:

Small cells are low-powered nodes that have a range of up to 2 miles. The term "small" refers to the footprint of the device.

Small cell devices can be mounted on their own 40' or more poles, or on existing poles. They require some form of internet connection to function. Small cell poles are limited to one CSP.

DAS definition:

A Distributed Antenna System (DAS) installation consists of a 70'-120' centrally-located pole, remote communication nodes and something connecting the nodes to the central pole, usually fiber-optic wire. DAS are a self-contained system and do not need a separate internet connection

DAS coverage is determined by the size of the installation and number of nodes. DAS installations can be used by multiple CSPs.

For more information contact:

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