TOWN OF HERNDON, VIRGINIA
SMART CITY PILOT PROJECT

DESIGN SERVICES — SMART CITY INFRASTRUCTURE — COMMON ACCESS INFRASTRUCTURE — FIBER & WIRELESS NETWORK — IMPROVED CITY SERVICES

With nearly 24,500 residents, the town of Herndon, Virginia, prides itself on its small-town charm, rich heritage and strong sense of community. The Town's commitment to its community is evident through its many parks, award-winning community center and lively downtown district. Just 22 miles northwest of Washington DC, Herndon is governed by a Town Council that is continually researching and investing in ways to maintain and improve its livability, sustainability and quality of life for its citizens, businesses and visitors.

In 2019, Herndon kicked off a smart city pilot project in partnership with Vivacity Networks and eX² Technology as its subcontractor. Vivacity is providing smart city technologies, including free WiFi, an electric vehicle charging station and Internet of Things (IoT) sensors throughout downtown Herndon in exchange for access to the Town's infrastructure (street lights, conduit, power facilities and electrical services) and the exclusive right to commercialize the assets to third parties. Vivacity designed, engineered, constructed and will manage the integrated fiber optic cable and wireless network to support these smart city applications. The design utilizes five existing and 26 new LED smart poles used to host

small cell, smart lighting, closed caption TV and push blue button technologies.

As part of this initiative, eX² provided final design services and supported Vivacity in the bidding and selection of construction contractors. eX² worked closely with the Town and Vivacity to design a below grade communications infrastructure to address Herndon's concerns for maintaining the Town's aesthetic appeal.

Anticipated project results include LED lighting cost savings and a centrally-controlled management system, carbon emission reduction, improved downtown wireless coverage and analytical data on bicycle and pedestrian flow along its Washington and Old Dominion Trail.

ABOUT US

eX² Technology, a Vivacity Company, is a single source solution for those seeking to build, scale or future proof their communications infrastructure. eX² specializes in standalone and turnkey network design-build-maintain and infrastructure asset commercialization services to maximize customer revenue potential and accelerate broadband expansion throughout the nation.

TRANSFORMING
AMERICA'S INFRASTRUCTURE
ONE PARTNERSHIP AT A TIME™

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