

# Memo

**To:** David Plyman  
**From:** Scott Koteski  
**CC:**  
**Date:** 12/5/2012  
**Re:** Fiber To The Premise Project

---

Mr. Plyman:

With additional revenue from newly acquired collocation leases within the Rochelle Technology Center, the Advanced Communications Department would like to explore options to reinvest funds back into our community. One option under consideration is a fiber to the premise project; this option would expand our current fiber network to include all business and residential customers within the Rochelle City limits. Offering a higher quality of Internet, phone and possible entertainment services to business and residential customers located in our City limits,

Exp. (formerly TENG & Associates) has submitted to the City of Rochelle a design and engineering quote for a fiber to the premise project. The proposal provided covers the entire project from base design and cost estimates to construction administration services. Exp. has broken services out in 3 phases and each phase can be executed individual at any time the City is ready to proceed, also if the City decides at any time not to proceed there is no penalty for not executing the additional phases. The first phase of the exp. proposal is the Conceptual Communication Master Plan this includes,

- o Definition of project boundaries.
  - o Preliminary site surveys of existing fiber optic cable plant.
  - o Evaluation of existing communication/fiber network.
    - Review fiber availability.
    - Available space in existing ductwork.
    - Age and condition records.
    - Optimize existing infrastructure to the extent possible.
  - o Coordinate with various utility agencies, in order to share infrastructure, coordinate location, and timing (especially with electrical agency), and to avoid conflicts.
- Define design standards.
- Coordination with proposed 12 kV electrical distribution upgrades to take advantage of savings from shared evacuation activities.
- Define access topology alternatives- Provisions for distributed active equipment and GPON overlay.
- Recommendations on equipment and vendor selection.
- Fiber recommendation. Our preliminary recommendation is zero water peak single mode fiber.
- Provide an Opinion of probable costs for construction.

Cost of phase one is \$35,000.00 with a reimbursable expense allowance of \$700.00. This project was presented at the RMU Utilities Advisory Board meeting on November 28<sup>th</sup> 2012, after discussion the UAB members voted unanimously to proceed with the first phase of the exp. proposal.

RMU has worked with TENG (exp.) in the past and has an exceptional relationship with them; it is my recommendation for the Rochelle City Council to approve proceeding with the Conceptual Communication Master Plan phase of the proposal, with additional phases to be approved as necessary if the project is to proceed.

Scott Koteski

