

- **Three elements of a network build:**

- Design/engineering
- Make-ready
- Construction

- **Town Concerns:**

- Disconnect between town authority and town responsibility
- Construction risk
- Need for speed

- **MBI Assist:**

- Structure design/engineering and make-ready to reduce construction risk and accelerate projects

- **One option for towns**
- **Emphasis on comprehensive, professional design**
 - Led by MBI technical team with experienced design and engineering firm
- **Accelerate make-ready process**
 - Shortens project schedule by 6 – 9 months
- **Reduce construction expense and risks**
 - Comprehensive construction bid package with detailed network design & technical specs.
 - Block unqualified contractors
 - Eliminate make-ready uncertainty & risk from construction process
 - Achieve construction price certainty
 - Defer town's financial commitment until firm, binding construction bids are in hand

- **Reallocate authority to track responsibility**
 - Issue raised by towns: towns responsible for bulk of capital costs and any overruns;
 - Construction responsibility sets stage for operational responsibility
- **Provide resources and tools for towns to succeed**
 - Professional design and engineering team will oversee entire construction and make-ready process from inception through acceptance testing and turnover of the network to the town
 - MBI to provide support and guidance to towns with other decisions they face as owner of a broadband network, including selection of qualified network operator, internet service provider and other vendors
 - MBI to convene working group of towns to develop collaborative operational strategies

- **Execution of Term Sheet**
 - Reservation of construction allocation
- **Selection of Design Engineer**
 - Reservation of design allocation
- **Design/Engineering process**
 - **Initial Phase:**
 - Statement of project principles
 - Preliminary route survey
 - **Three concurrent efforts:**
 - Make ready – through to completion;
 - Design/engineering process – through to construction bid package
 - Preliminary design;
 - Final design
 - Construction documents
 - Town support activities:
 - Selection of network operator & ISP
 - Identification of other town needs: insurance, owner's representative, legal etc.
 - Town working group

- **Town assumes Owner's construction responsibility:**
 - Transfer of bid package to town
 - Assignment of design/engineering contract to town, with provision for full:
 - bid review and general contractor selection assistance,
 - contract negotiation assistance;
 - Oversight regarding contractor performance and adherence to contract document specifications;
 - Acceptance testing and turnover of network to town
- **Town issues bid package, reviews bids and makes determination to proceed or not**
 - Based on firm bid;
 - Opportunity for re-design and re-bid
- **If town proceeds to construction: MBI makes construction grant commitment:**
 - Reimburses town for design/engineering costs; and
 - Grant of remainder of town's construction allocation in three equal payments
 - Decision on additional assistance to town: Owner's Representative

- **Construction Process:**

- Design Engineer acts as the agent of the town in
 - Exercising oversight regarding contractor performance and adherence to contract document specifications;
 - Acceptance testing and turnover of network to town;
- Owner's Representative as additional agent of town if necessary

- **Other activities during construction process:**

- Selection of network operator and ISP
- Bundle of services preparatory for network operations