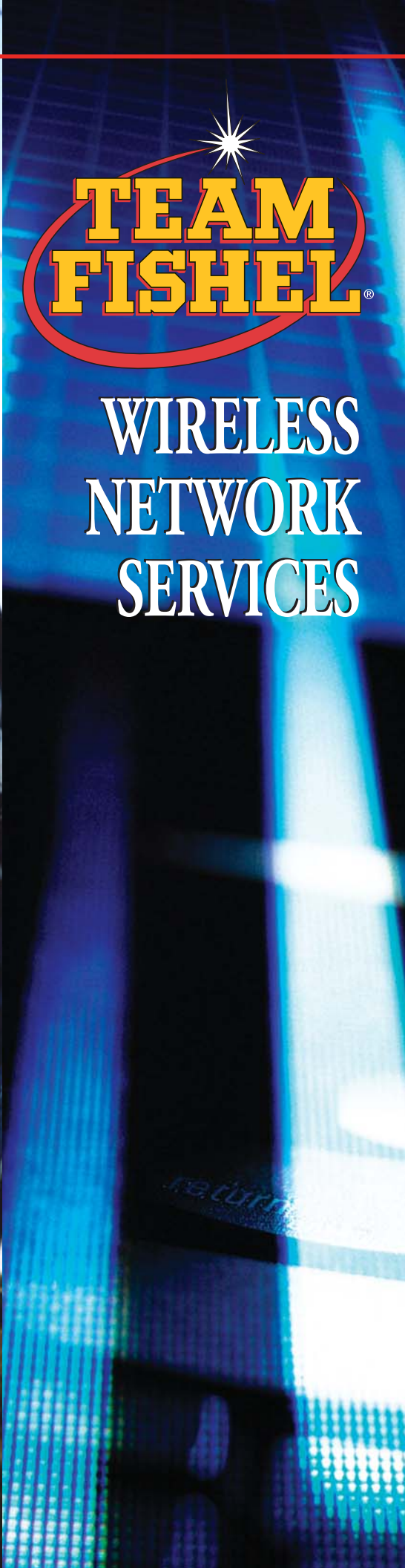




WIRELESS  
NETWORK  
SERVICES



*Designing, Building and Maintaining  
Wireless Communication Systems*



As technological advancements continue to emerge in the wireless communications arena, Team Fishel has formed a wireless services group to design, build and maintain the network infrastructure to address the growing demands for both fixed wireless and mobile radio, both in the network backhaul and last mile access.

From obtaining the necessary permits for site selection to tower mapping and

construction, collocation of high-capacity network equipment, to overall site maintenance, Team Fishel provides end-to-end wireless solutions for both incumbent service providers as well as emerging wireless carriers. We also specialize in providing 802.11 wireless local area networks for commercial, educational and institutional networks, both inter-office and inter-building for campus environments.

## Design

Our in-house RF designers and Engineering Specialists can identify tower site locations and perform site audits and surveys to maximize the wireless coverage for both point-to-point and point-to-multi-point systems. We handle all zoning and permitting as well as rights-of-way acquisition for site preparation and engineering for tower construction.

## Build

Our installation crews are ComTrain and Andrews certified and qualified to build out the wireless network system. We have experienced Project Managers and Supervisors to oversee the installation of new antennas as well as collocate new 3G equipment for high capacity sites. Our Technicians are also experienced with installing P-Com and Ceragon systems for 38GHz last mile solutions.



BUILD



### **Service and Maintenance**

Our Teammates take great pride in their work to ensure that your wireless network is designed and installed to the highest standards. We utilize RF spectrum analyzers to test and troubleshoot any network interference as well as perform network diagnostic tests to ensure system availability.

Whether you are deploying a 900 MHz spread-spectrum radio system for public safety, wireless LANS, Wi-Fi hot spots, 3G mobile radio upgrades, or point-to-point free space optics links, Team Fishel has the tools, the talent, and the necessary expertise to match your ongoing system requirements.

## **OUR SERVICE CAPABILITIES:**

### Design/Engineering Services

Site Selection/Acquisition  
Tower Leasing/Title Search  
Tower Mapping  
Structural Analysis  
Field Engineering/Site Layout  
AutoCAD Construction Drawings  
Zoning/Permitting & ROW Acquisition  
Construction Staking  
Utility Locating  
Tower Site Audits/Surveys

### Construction Services

Foundation, Civil and Aerial Tower Construction  
Shelter Placement  
Equipment Upgrades

### Installation Services

Coax and Fiber Optic Cable Terminations  
ComTrain Certified Tower Technicians  
Certified Andrew/RFS/Commscope Technicians  
Certified PROXIM Installers for Tsunami and Orinoco  
Certified fSONA Installers  
Free Space Optics Gear

### Service and Maintenance

Tower Site and Rooftop Management  
D/C Power Installation and Maintenance  
System Diagnostics and RF Spectrum Testing  
Antenna Maintenance



## **BEST CHOICE FOR UTILITY CONSTRUCTION & NETWORK INSTALLATION**

**Corporate Headquarters**

**1366 Dublin Road**

**Columbus, OH 43215**

**614-274-8100**

**800-FISHEL-1**

**[www.TeamFishel.com](http://www.TeamFishel.com)**