



FRONT RANGE

WIRELESS

YOUR TRUSTED WIRELESS PARTNER





About Us

- Highly Dedicated And Trusted Partner In The Wireless Communications Sector
- WBE Certified 2023
- An Experienced, Well-Trained And Committed Team Is The Bedrock For Our Customer Service
- Our Fully Outfitted Fleet Of 30 Trucks Offers The Tools And Mobility For Immediate Deployment To Our Clients' Construction And Emergency Response Needs
- FRW Has Dedicated Project Managers To Ensure Timely And Accurate Communication And Coordination For Our Customers
- We Provide Timely, Cost-Effective Solutions Without Compromising Safety And Quality

Services Offered

- ✓ Turnkey Cell Site Deployment Solutions
- ✓ Tower, Cell Site, And MSC Maintenance
- ✓ Site Audits
- ✓ Construction Management Consulting
- ✓ Site Acquisition/Zoning/Permitting
- ✓ Architectural/Engineering And Noise Studies
- ✓ Environmental/Regulatory Compliance
- ✓ DC Power And Transport Installations
- ✓ MSC Project Management
- ✓ Warehousing/Procurement Solutions
- ✓ Staffing Solutions



More About Us

- Founded In 2000 By Aaron Kingstrom, Still Actively Involved Today
- 100+ years of industry experience within our executive team members
- Office Headquarters Located In Centennial, Colorado
- Satellite Office in Colorado Springs, Colorado
- Warehouse Facilities in both Centennial CO, & Colorado Springs
- Western Power Installation (WPI) Is A Subsidiary of FRW Offering Specialized MSC Services
- Future Locations TBD In California, Arizona, Nevada, Great Plains Region (IA, SD, ND, OH, WI, MN, MI)
- Electrical License In CO, HI, OR, ID, UT, MT WY, ND,SD, NB, MN, IA, MI,WI
- GC License's In CO,WY,UT, CA
- Partner agreements (CX, Site Acq/A&E) that cover the West and Mid West
- Experts in Site Development, Site Concealment, Wireless Construction, A&E, Staffing and Professional Services
- Longstanding Relationships With Carriers, OEM's, Infrastructure Owners, Network Operators, Equipment Vendors, State and Government Agencies
- Crews Are Certified In The Following Safety LMS Certified Climber, Certified Rescuer, Certified Rigger, OSHA 30, OSHA 10, First-Aid, CPR, Bloodborne Pathogens, RF Awareness Training, NWSA Training
- Avetta Registered And Qualified – Multiple Clients



More Specifically...

Site Acquisition (2023)

CA, AZ, NV, NM, CO, ID, UT, WY, IL, TX, OH, PA, IA, WI, ND, SD
IN, NE, KY, WV, MI, TN, W.PA

A&E (Stamped)

AZ, CA, CO, GA, FL, IA, ID, IN, LA, KS, NC, NJ, NM, NV, NY, MD,
MI, MO, MT, OH, OR, TN, TX, SC, UT, VA, WA, WY, ND, SD, KY,
PA, MN

Construction

- ✓ 5G installation/Integration
- ✓ C-band Carve out Vendor
- ✓ Macros
- ✓ Small Cell
- ✓ Civil Construction
- ✓ Electrical (AC/DC)
- ✓ ROW Pole Installation
- ✓ ROW Fiber Backbone
- ✓ Utility Coordination
- ✓ IDAS Installation/Maintenance
- ✓ IoT Installation/ Maintenance
- ✓ Solar Installation

RAN

- ✓ Radio Network Integration Services
- ✓ RF Optimization Services
- ✓ Carrier Wi-Fi Solutions
- ✓ Small Cell & DAS Services
- ✓ OSP Engineering

Turnkey Solutions

- Full Turnkey Solutions From Site Acquisition To On Air
- New Site Construction With Erection Of Monopoles Or Self Support Towers
- Full Site Installations Of RF Equipment, Grounding, Ladder Rack, And Alarming
- In-House Experts Capable Of Testing All RF And Fiber Installations
- Full HVAC Maintenance And Installation
- Project Management Of Upgrades And Testing In The MSC Environment

National Staffing Services

- ✓ Project Coordinators
- ✓ Financial Analysts
- ✓ Project Managers
- ✓ Land Use Planning and Permitting Specialists
- ✓ Installation/Maintenance Technicians
- ✓ Design Services
- ✓ Engineers

Electric Vehicle Charging Stations

- ✓ Pre-Construction Services And Inspection
- ✓ Design Services
- ✓ Land Use Planning And Permitting
- ✓ Installation/Maintenance



Fiber Capabilities

Capabilities

- Aerial/Splicing
- Micro-Trench
- Directional Bore
- Pole Placement

Total Crew Members

- 35 Aerial Crews
- 11 Splicing Crews
- 4 Bore Crews
- 3 Micro-Trench Crews
- 3 Tower Crews (3man Crews) -Subcontractors

Office Locations

- Sacramento CA
- Phoenix AZ
- Salt Lake City UT
- Southern CA
- Lubbock TX

Service Locations

- WA, OR, CA, MT, CO, UT, NV, AZ, TX, NM.

Equipment

- Directional Bore Rigs
- Micro-Trenchers
- Bucket Trucks
- Mini-Ex
- Digger Derricks
- Vac Trailers
- Splice Trailers



Power Solutions

Telecommunications - National

We Support Both Wireline And Wireless Power Requirements Nationally:

- ✓ Utility Solutions
- ✓ Cell Site Upgrades
- ✓ DAS / In-Building Wireless Solutions
- ✓ Switch Solutions
- ✓ Generator Removal/Replacement



Residential /Commercial Electrical - National

Electrical Upgrades Are Essential In Homes And Commercial Buildings To Secure The Safety Of Our Communities. Our Solutions Include:

- ✓ Electrical Panel Upgrades/ Relocation
- ✓ Re-Wiring Solutions
- ✓ Circuit Breaker Upgrades
- ✓ LED Lite Installation/Maintenance
- ✓ Cosmetic Wiring Solutions (TV, Lighting, Etc.)
- ✓ Electrical Charging Stations

Western Power Installation (WPI)

Western Power Installation (WPI) is a wholly owned subsidiary of Front Range Wireless. WPI provides a wide range of services for switching centers in the Telecommunications and Cable Industries. Our DNA is comprised of quality and safety; characteristics that are fundamental throughout FRW and WPI.

WPI Offers The Following Services

- ✓ Central Office, Switch, Headend, Data Center Build Supporting Network And Infrastructure For All Accounts.
- ✓ Installation And Full Cabling Of All Telecom Equipment Including But Not Limited To All Networking Routers, Servers, Switches And Facility Infrastructure To Support And Upgrade Customer Network Rings.
- ✓ Data Floor Remodel To Facilitate Customer Infrastructure.
- ✓ Primary And Secondary DC Power.
- ✓ Upgrade, Integrate, And Decommission A Wide Variety Of Telecom Equipment.



- ✓ Thoroughly Build Overhead Multiple Tier Iron Aux Grids And Cable Rack Per Earthquake Zone Specifications To Support Customer Builds.
- ✓ Full Spectrum Of Fiber-Optics (OFNR/Riser/Trunk/MPO/Jumpers), Run, Secure, Test, Scope, Label And Terminate.
- ✓ Fiber-Optic Protection System Installs, Horizontal And Vertical.
- ✓ Copper Cabling- Ethernet, DS3, DSX, POTS, Timing, GPS.
- ✓ Troubleshoot Telecom Equipment And Cabling.
- ✓ Correct Installation Of Equipment Racks And Cabinets Per Code.
- ✓ Customer Cable Hole Retrofitting To Fire Code.
- ✓ Quality Integrity For All Installs.



- Host and Remote Installation
- RF and FOC Installation
- FOC Splicing, Termination, & Testing including link budget tuning and attenuating if necessary
- Pre-Commissioning (ATP Testing), Commissioning and Base Station Integration support.
- RF testing (VSWR, PIM)
- CPRI Testing
- Fiber/RF management per carrier MOP's.
- Troubleshooting and Demand maintenance restoration
- OEM Certified for:
 - Commscope Prism, Fusion, ION Platforms
 - Corning Mobile Access DAS Platform
 - Solid DAS Platform

Experience and Customer Data

1989 – 2015 Pac-Tel Cellular/LA Cellular (Verizon Wireless and AT&T Mobility)

- ✓ Constructed oDAS and associated OSP fiber for over 1000 nodes in the Hollywood Hills, Malibu/Oxnard, Carbon Canyon, Santiago Canyon, Anaheim Hills, West Hills, Las Virgenes Canyon, Kanan Dume, Decker/Encinal Canyon, Ortega Hwy, Grimes Canyon, Pacific Palisades, Baldwin Hills
- ✓ Completed 2G, 3G and ultimately 4G equipment and rf upgrades and associated commissioning for each oDAS string.
- ✓ Provided OSP and oDAS Maintenance 24/7 exclusively
- ✓ Royce Cozart & Phil Brown LA Cellular/Cingular Wireless/ AT&T Mobility
- ✓ Bill Purcell, Malcolm Brown, Brian Baldwin and Ty Nguyen Pac-Tell Cellular/Airtouch/Verizon Wireless

2012 – 2014 AT&T Mobility

- ✓ Constructed 105 oDAS Nodes in Palo Alto, Mountain View, Los Altos residential communities to deliver Wireless 4G service to affluent neighborhoods. Antenna Deployed on utility pole tops above high voltage. Worked with PG&E and Palo Alto Utilities to complete attachments
- ✓ Completed HUB installation using 1:1 simulcast, ATP composite testing as per AT&T requirements, worked with AT&T to deliver transparent transport and associated troubleshooting at each node.
- ✓ Emily Vaughn & Minh Nguyen AT&T

2010 – Current DAS Deployments (Various Carriers)

- ✓ Honda Center DAS Installation (ARQ Wireless sub-contractor)
- ✓ Anaheim Convention Center – Expansion
- ✓ Ratheon & Boeing El Segundo – Expansion
- ✓ Hollywood Bowl – Expansion Upgrade
- ✓ Beverly Center – Expansion/Upgrade
- ✓ Dodger Stadium- Expansion/Upgrade
- ✓ Rose Bowl-Expansion/Upgrade
- ✓ Crypto Center – Upgrade 5G



Clients

verizon^v



AT&T



FirstNetTM

 **Xcel Energy**[®]

 **MasTec**

dish[®]



L3HARRISTM

NOKIA

zayo[®]

T-Mobile[®]



AMERICAN TOWER[®]



ERICSSON



BLACK & VEATCH



FRONT RANGE
WIRELESS

We are ready and available to discuss your needs.



Thank You!

Melissa Acosta

President

626-374-8661

melissaa@frontranagewireless.com