Structured Cabling Solutions

Structured Cabling ● Network Services & Equipment ● Inside/Outside Plant Design ● Trenching

502 Buffalo Rd., Ft. Pierre, SD 57532
(605) 224-1111 or (800) 747-6427
www.windcircle.net
sales@windcircle.net
Computers and IT infrastructure were once an investment, providing an edge to businesses who used them. Anymore, they are as essential to a business as the people that work for them.

We at Wind Circle Network believe in designing efficient and reliable structured cabling solutions custom-tailored to grow with you.

With our holistic approach to information technology, we believe every good network must start with structured cabling.
Structured Cabling Solutions

We have a number of infrastructure solutions available to meet the demands of all businesses or organizations. From copper to fiber, inside and out, we can serve your communications needs.

Design and Installation
- IP mapping
- Communication Closet layout
- Network Traffic
- As Built Documentation

Certification and Testing
- Fluke DTX-1800
- Results provided in electronic format

Inside Plant Cabling
- Copper: Cat6, Cat5, Cat3, Coaxial
- Fiber Optic: Single mode, Multi mode
- Wire management
- Ladder, Basket, Rack & Cabinet Systems

Outside Plant Cabling
- Fiber optic: Single-mode, Multi-mode
- Penetrations
- Communication Huts

OSP Aerial and Direct Buried Applications

Trenching/Conduit Interduct

BICSI Certified Technicians
- Wind Circle Network is proud to be a BICSI Corporate Member
- BICSI sets the industry standard for communications cabling - members meet the highest technical standards.

What is BICSI?
Building Industry Consulting Service International, Inc. or BICSI is a professional association supporting the information technology systems (ITS) industry. ITS covers the spectrum of voice, data, electronic safety & security, project management and audio & video technologies.

From the cabling side
Wind Circle provides both copper and fiber optic solutions. Client options also include inside and outside plant cable installations. We are BICSI professional members providing telecommunication industry “best practices” and “professional standards.” Our staff is uniquely qualified to provide these services based on technical training and hands-on experience including a BICSI-Registered Communications Distribution Designer (RCDD).
Why Wind Circle Network?

Wind Circle boasts a very diverse customer base including, but not limited to: cities, counties, schools, hospitals, tribal governments and many branches of the federal government.

Wind Circle is a technology solutions provider specializing in:

**Voice, Video and Data Communications**
- Phone Systems/ Maintenance Plans
- VOIP Phone Systems
- Broadband Network Solutions
- Electronic Data Interchange
- Video Teleconferencing/Multimedia Network Equipment and Installation
- Data/ Video/ Voice Networks and Equipment and Management Plans
- Internet/Intranet Applications and Services
- Surveillance video management

**Enterprise Integration**
- Systems and Enterprise Integration
- Data Warehouse Architecture and Implementation
- Information System Life Cycle Support
- Business Planning: Groupware Technology and Group Facilitation

Visit www.windcircle.net/cabling
Our Capabilities

Wind Circle boasts a very diverse customer base including, but not limited to: cities, counties, schools, hospitals, tribal governments and many branches of the federal government. Our dedication to quality products and service builds a foundation strong enough to support your success. See what we have done for our customers:

Crow Creek Tribal Schools
101 Crow Creek Loop, Stephan, SD 57346  605-852-2455
Completion date: September, 2012

With the construction of a new building and all new network components, Crow Creek Tribal School (CCTS) decided to move away from its existing outdated telephone technology and install a Hosted Voice over IP (VoIP) solution. This change allowed for a few options previously unavailable to them, including: voicemail to email, selective call forwarding, web-based portal enabling the school to modify system preferences and High-definition call clarity and monthly savings, to name a few. CCTS wished to utilize the Federal Erate program to assist funding of monthly recurring charges. Wind Circle bid and was selected as the school’s Erate vendor.

Solution & Scope of Work: We prepared the phones to download their configurations from the hosted VoIP service, configured individual features such as “side-car” speed-dial buttons and voice-mail options and installed them at their location. We also installed and setup the Edgewater VoIP router to communicate between the Hosted VoIP provider and Crow Creek’s network, utilizing the Layer 3 switching capabilities of the Cisco switches to provide separate VLANs for voice and data on the same switch-port. This preserved maximum Quality-of-Service for the Voice LAN and reduced the number of ports required to deliver service.

New Equipment Installed:
- One Edgewater 720 VoIP router
- 90 Polycom 335 VoIP Handsets
- 10 Polycom 550 VoIP Handsets
- 24 Polycom 650 VoIP Handsets
- 40 Polycom Back-lit Expansion Modules
- Three Polycom “Kirk” Polycom Wireless handsets
- Two Polycom Soundstation IP 5000 Conference Phones

State of South Dakota - Bureau of Information Technology
523 E. Capitol, Pierre, SD 57501  605-773-6877 or 605-773-4347
Completion date: Ongoing contract

Place of Performance - South Dakota statewide.

In January 2011, Wind Circle, Inc., was awarded the Telephone and Cable Plant Services contract with the Bureau of Information and Telecommunications. The period of this contract was for one (1) year, renewing annually for three (3) more years. Beginning in 2004, Wind Circle was awarded and successfully completed its first, 4-year contract.

Scope of Work: Installation, relocation, repair and maintenance of all telecommunications cabling, cable-related hardware infrastructure, terminations and attached telephone apparatus. In addition, facility design, development and as-built documentation to support new and existing cable infrastructure were included.
The Bureau of Indian Affairs (BIA) required a consolidation of their network cabling infrastructure at their Great Plains Regional Office (GPRO).

**Solution:** The project was for a Category 6 (Cat6), unshielded twisted pair (UTP) network cabling plant, including the installation of multi-mode fiber to connect Intermediate Distribution Frames (IDF) to the Main Distribution Frame (MDF) and were then connected to 255 dual drops and 12 triple drops. Outlets consisted of two, 8-pin modular (RJ45) network jacks with each being home runs from the designated outlet to the MDF or IDF closet. Duplex SC connectors were used for all cross-connects and fiber path panels. All components and cables were Cat6 or better and installed in a manner such that each network runs unambiguously and achieves ANSI/EIA/TIA-568 Cat6 or better performance as measured at the Basic Link using certified and calibrated test equipment meeting the standards of TSB-67 and TSB-95. This Cat6 cable plant now reliably supports up to gigabit speeds to the desktop.

**Actual Scope of Work:** Internal structured CAT6 cabling and 50/125 micron multi-mode fiber optics were installed, as well as 255 dual drop and 12 triple drops. BIA-approved equipment racks were also installed as a part to this project. Removal of abandoned voice and data cable was done once installation was complete. Finally, installed materials were certified to follow 568-B: Commercial Building Telecommunication Wiring Standards, as well all federal, state and local codes.

**New Equipment Installed:**
- 255 Cat6 Dual Data Drops
- 12 CAT6 Triple Data Drops
- Installed EIA racks
- 12 strands of UM3 50/125 micron multimode fiber optics

**Pierre Indian Learning Center**

**3001 E. Sully, Pierre, SD 57501  (605) 224-8661**  
**Completion date: 2013**

Provided IT integration to the entire campus. This included on-site surveys, outside/inside data/voice/video cable plant design. Fiber, copper and coax, voice cross-overs and connects were installed.

We additionally performed the following tasks:
- Built main/ intermediate data distribution closets
- Installed ADPE racks
- Extended the Demarcation
- Installed ADPE equipment
- Tested LAN/WAN connections
- Provided reconstruct of property grounds where cable path installed
- Installed manholes
- Provided as-builts and line run summaries

Project Management was coordinated with the school, Federal government, telephone company and the other contractors deployed on-site.

Wind Circle provided a full range of services associated with the design, development, deployment and support of the Pierre Indian Learning Center’s project. The project included cable plant installation, telecommunications engineering, software install, hardware integration, test and evaluation, training, trouble shoot support and maintenance, logistics support, network testing, configuration management, training and quality assurance.
Wind Circle provided state-of-the-art network hardware & software to increase network speed and capacity. Security equipment was installed to enhance the security of the data stored on the system, as well as the users of the network. A new, full-featured VoIP Phone Switch uses the same cables as the data network, thereby vastly reducing the size of the cable plant.

To make all projects’ installation an organized process, Wind Circle utilized Project Management and BICSI “best practices” during the planning and implementation. Status updates were frequently communicated with the project team.

**Department of Labor - Job Corps**

**General Services Administration - Federal Buildings Operation**

E. 8th St., Rm. G150, Austin, TX 78701 (512) 916-5751

Place of Performance - 127 Job Corps Centers (JCC) Rollout

We provided IT integration, which included the following tasks:

- On-site surveys
- Outside/inside data/voice/video cable plant design
- Outside cable installation (aerial/burial)
- Inside cable installation (fiber, copper and coax)
- Voice cross-overs and connects
- Build-out main/intermediate distribution closets
- Construct ADPE racks
- Installed ADPE equipment
- Extend Demarcation
- Test LAN/WAN connections
- Provided reconstruct of property grounds where cable path installed
- Installed manholes
- Provided as-builts and line run summaries
- Project Management among the JCC’s, Job Corp Data Center (JCDC) and other contractors deployed on-site.

Wind Circle provided a full range of services associated with the design, development, deployment, and support to the Job Corps Data Center, including: cable plant installation, telecommunications engineering, software install, hardware integration, test and evaluation, training, troubleshooting support and maintenance, logistics support, network testing, configuration management, training and quality assurance.

To make installation a reasonably simple process, Wind Circle utilized Project Management and BICSI “best practices” during implementation while effectively communicating status updates and completion of sites with the Data Center project team. An average JCC cable plant wiring connected a minimum of 8-10 buildings with fiber at an average of 60-100 Cat5e drops per center. Cost average centers and categorizing multiple sites on a single work order streamlined project integration. This helped the project office more effectively manage their time and reduced the number of hours of clerical work, additionally reducing paper waste by providing a more prioritized process. This integration project was accelerated in Phase 2. Timelines were also accelerated. This project came in ahead of schedule and under budgeted costs. This project was based on Time, Materials and Expenses.
Wind Circle Network
(Formerly Dakota 2000)
502 Buffalo Rd.
Ft. Pierre, SD 57532

Email: sales@windcircle.net
Toll-free: 1-800-747-6427
Local: 605-224-1111
Fax: 605-945-2200

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