

Every Woman's Place  
Bid Specifications - VOIP Phone Upgrade

**Objective:** Replace all current phones with a voice over internet protocol (VOIP) phone including all supportive infrastructure. All technical specifications are required for bid no exceptions. Any bid proposal that does not meet the requirements below will not be considered for bid award.

**Scope of Work:**

Each floor with exception of the main floor will require Network cabinets to be installed with a direct fiber-optic home run to the main Network rack and fiber-optic tray. New Cat6 cabling to VOIP locations patched down to the floors Network cabinets patch panel. Each floor will require 2 additional Cat6 drops to the Access Points along with AP mounting. Installed Network cabinets will require Network switch, UPS, and patch cables for connection.

Configuration will be required for hardware including network switching to match current Vlan segmentation, wireless networks (main/guest) and access points, along with all 3cx installations and set-up. Phones must be able to connect and operate inside and outside of network. A written plan will be provided to the awarded company for phone configuration (call queues, voicemail, digital receptions call flow, etc). All faxing will be sent/received through online fax application.

**Technical Specifications:**

**Phone System:**

3cx VOIP with 8 simultaneous call annual license

- Configuration
  - o Digital Receptionist
  - o Voice talent for recording
  - o Call queues
  - o Connect front doorbell into phone system

**Hardware:**

- **Phones**
  - o Yealink T42S (25qty)
  - o Yealink T46S (5qty)
  - o Yealink CP960 (1qty)
  - o Snom PA1 SIP Bridge (1qty)
  - o Yealink EXP40 LCD Expansion Module (1qty)
  - o **E-30-IP-EWP**
  - o Phone wall mounts (6qty)
- **Network**
  - o 12U Enclosed Wall mountable Network cabinet (3qty)
  - o Cisco 2960X 48pt PoE+ SFP+ switching (4qty)
  - o 10g connection between switch and main core LC-LC
  - o Cisco Aironet 1830 with Mobility Express Access Points (7qty)
  - o 1000VA Uninterrupted Power Supply w/ Network Management Card (3qty)

## Cabling

### - General

- OM3 6-strand armored plenum fiber optic
  - All fiber trays, bulkheads, and fusion splice pigtails
- PANGEN Cat 6 cable with net key jacks
  - All patch panels and terminations
- Fiber Optic panels and internals for each network rack (4qty)
- Cat 6 patch cables (1' and 3' per drop)
- Conduit sleeves above doors and through floors for fiber pathway
- All cabling support and pathway for all new cable installed
- White Panduit LD5 raceway molding, ceiling entrance, and surface mount boxes at each location
- Cable demo of old/unused cabling
- All testing and certification of both copper and fiber connections to be provided at completion
- As built drawing to be provided at completion

### Scope of Work (By Floor)

#### Basement level:

- Install Network cabinet
  - Mount fiber tray and terminate fiber optic
  - Mount patch panel and terminate new cabling
  - Mount Network Switch
  - Mount UPS
  - Mount Access Point
- Install Cat6 cabling totally 26 drops
  - Dual drops in 12 offices
  - Single Drop for AP
  - Single Drop in File Room

#### Main Level:

- Install Cat6 cabling totally 21 drops
  - Dual drops in 8 offices
  - (2) Single Drops for Access Points
  - Single Drop in Kitchen
  - Single Drop in Business Office
  - Single Drop Exit area w/conduit
- Install Network Switch
  - Mount fiber tray and terminate fiber optic
  - Mount patch panel and terminate new cabling

### **Second Level:**

- Install Network cabinet in Stairway
  - Mount fiber tray and terminate fiber optic
  - Mount patch panel and terminate new cabling
  - Mount Network Switch
  - Mount UPS
  - Mount Access Point
- Install Cat6 cabling totally 9 drops
  - Dual drops in 3 offices
  - (2) Single Drops for AP
  - Single Drop in File Room

### **Third Level:**

- Install Network cabinet in Stairway
  - Mount fiber tray and terminate fiber optic
  - Mount patch panel and terminate new cabling
  - Mount Network Switch
  - Mount UPS
  - Mount Access Point
- Install Cat6 cabling totally drops
  - Dual drops in 4 offices
  - (2) Single Drops for AP
  - Single Drop in Hallway
  - Patch down to Patch Panel