

HILTON HAMPTON INN & SUITES LOW-VOLT PROPOSAL

Introduction:

Our company, SYSTEC101, would like to propose a low volt project for the Hilton Hampton Inn and Suites. The project will involve the installation of network infrastructure to provide data, voice, TV, CCTV, access control, and wireless connectivity throughout the hotel. This proposal will outline the scope of work and the solutions to be provided to meet the Hilton Hampton Inn and Suites' technical requirements.

Scope:

The project includes the installation of network cabling on all four floors of the hotel. Specifically,

First Floor:

will have 33 single data drops, 27 Coax TV drops, 17 Wireless Access Point (WAP) runs, 29 voice drops, 29 dual data/voice drops, 9 access control cabling runs, and 6 camera drops.

Second Floor:

will have 34 voice drops, 34 TV coax drops, and 34 WAP drops to 34 different locations.

Third Floor:

will include 37 voice drops, 37 TV coax drops, and 37 WAP drops to 37 different locations.

Fourth Floor:

will include 37 voice drops, 37 TV coax drops, and 37 WAP drops to 37 different locations.

***All cabling will be CAT6 except for access control runs.**

Access controls:

We will include all the wiring in the first floor for the card readers located in different secure areas throughout the floor. This will include Banana cable ready to be used to install owner provided equipment.

Infrastructure:

The backbone cabling will be established using one 50-pair CAT3 cable and one 6-strand multimode fiber run. These runs will connect the Main Distribution Frame (MDF) on the first floor to the Intermediate Distribution Frame (IDF) on the third floor. We will install all patch panels, cabling, and racks in both rooms to ensure proper termination and organization of network equipment.

Network Room Build-Out:

Our team will build out both network rooms with 2 post racks to house the network equipment. We will ensure that the racks are properly anchored and grounded to provide a secure and reliable infrastructure for the network equipment. Room includes the installation of the following components:

Ladder Rack: 12" Wall Rectangular Steel Tubing with a rust resistant enamel finish. The ladder rack should be free of sharp burrs and all areas that have been field modified should be repainted.

Enclosed Cabinets: Chatsworth enclosed cabinets will be installed in the room 35"(H) X 22"(D) with a weight capacity of 300 lbs, swinging front zero clearance latch, front plexiglas lockable door.

Optical Fiber Distribution Cabinet: An optical fiber distribution cabinet with a minimum capacity of 72 fibers, front locking door, slide out rails for front access, jumper troughs in the connector panel, requires 1 19" x 1.75" rack mounting space will be installed.

Wall-mounted Ground Bar: A 4" H x 12" L x 1/4" D copper wall-mount ground bar with sixteen (16) sets of 5/16" holes spaced 5/8" on center and three (3) sets of 7/16" holes spaced 1" on center will be installed. The ground bar should be ANSI/EIA/TIA-607 and BICSI compliant and UL listed.

Single-Sided Horizontal Wire Manager: A 19" rack mount, T-shaped cable guide with a snap-on front will be installed.

Testing

Testing will be performed with a Fluke DSX8000 and will include the following tests:

- Cable length measurement
- Wire mapping and continuity testing
- Cable qualification (Category 5e/6/6A/8)
- Ethernet Speed and Link Testing
- Fiber Optic loss measurement (single-mode and multimode)
- OTDR Trace Analysis
- Optical Power Meter Testing
- Continuity Testing
- Resistance Testing
- Current Testing
- Insulation Resistance Testing
- Capacitance Testing
- Diode Testing
- Frequency Testing

Solution:

To achieve the objectives of the project, we will use the highest quality equipment, such as CAT6 cables, switches, routers, and other networking devices. Furthermore, we will provide power protection equipment such as surge protectors, uninterruptible power supplies (UPS), and backup generators to ensure network uptime.

Conclusion:

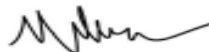
We would like to let you know that we have a very clear understanding of this project and have the experience to deliver the solution that will benefit your project the most. We will not only provide infrastructure for this scope, but we will account for your future needs and put in the necessary infrastructure during this project to accommodate it.

To make sure all your building's work is done up to code, we will have a licensed electrician as well as a BICSI certified technician to oversee the installation.

At the end of the project, each of the cables will be certified and our work will be warranted for up to 1 year.

Name: Murat Yildirim

Title: President



Date: 03/02/2023

Assumed Responsibilities:

- Provide all equipment for fully functioning network rooms. (patch panels, patch cords, labeling)
- Provide any lifts, ladders, and equipment required to perform the work in a safe and responsible manner.
- Provide designs and specifications for any system proposed to meet any requirements by any regulatory bodies.
- Provide any permits that may be required for satisfactory completion of the project.
- Provide any firestopping for the low voltage as required by code.

Exclusions:

- Any High Voltage work to be done by others.
- Main Fiber line to be provided by the service provider.
- Conduit work to be done by electricians.

Description	Qty.	Price	Ext Price
CAT6 Cable	1	29,430.00	29,430.00
Backbone Cable	1	3,690.00	3,690.00
Access Control Cable	1	1,350.00	1,350.00
Labor for Cable Installation	1	87,980.00	87,980.00
Labor for Network Room Build-Out	1	3,560.00	3,560.00
Tax			3,791.70
Total			129,801.70

References:

1. Adams County School District14

Project name: 10GB Fiber Optic Interconnect Between MDF and IDF Closets

David Powell | Network Administrator

Adams County School District 14

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2. Stryker

Project name: Stryker new facility network infrastructure.

Marc Terry | Senior Branch Operations Manager

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3.SiteOne Retail Stores Cabling

Gary Ledwell SR | ITS National Project Manager

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