Walkway Casino Network Requirements

The recent development of Walkway Casino has rejuvenated the beachfront area of Nelson Mandela Bay. Due to poor planning, they have not yet implemented the casino's network infrastructure. Mr. Pringle has contacted our company to remedy the situation. The Walkway Casino has provided us with the following specifications:

- The casino needs a central location in which to place all of their servers.
- The casino patrons regularly need to perform tasks such as internet banking. The casino has decided to implement a 10 PC internet café for this purpose.
- Security personnel have all been allocated mini tablets on which they need to complete reports on any discrepancies they might find while doing their rounds. The patrol routes of the security guards are indicated on the floor plan.
- All the casino cashiers need to have PCs connected to the central server, which keeps an audit log of all payments and receipts.
- The casino also has a policy under which it provides a networked PC to all of the shop tenants.
- The casino has also purchased 4 information touchscreen kiosks, which have to be placed at the locations indicated. All 4 of these kiosks must connect to a central information server.
- The casino floor needs to be a very secure area. As such, the casino management has decided to implement video cameras to monitor all activity. All entrances to the casino should also be under constant surveillance. All security cameras should relay their feeds to a central server.
- The doors to the "Staff" areas should all be access controlled, from a central server.
- The casino needs a constant connection to the internal network of its parent company Royal Flush Entertainment. Mr. Pringle is very concerned about the security of the sensitive information that may be sent over the internet.
- Their parent company has its headquarters in Las Vegas. Mr. Pringle has asked you to find out if there are any technologies you can incorporate which may save them money on international phone calls.
- For security reasons, deliveries are not made directly to the casino, but to an adjacent depot. Staff members at the depot need access to a secure radio system with which to communicate with the main building.
- The depot is a separate building, as shown in the diagram. The server in the depot must have a physical connection to the servers in the main building.
- Mr. Pringle has also asked whether or not it would be possible to use a future-proof networking scheme. This is an optional parameter and should not take precedence above any of the other specifications.