River Valley Detention Center
Controls Architecture

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System Information	
Building Name	River Valley Detention Center
Address 1	3200 McDonough St.
Address 2	Joliet, IL 60431
Facility Type	Detention Center
Conditioned Area (sq. ft.)	106,000
Controls Technology	DDC
Existing Control System	Alerton, Johnson Controls
Protocols	N/A
Devices	N/A
Year Built	1997

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Digital Buildings – Advisory

Will County
River Valley Detention Center
Controls Upgrade Design

REVISION LOG

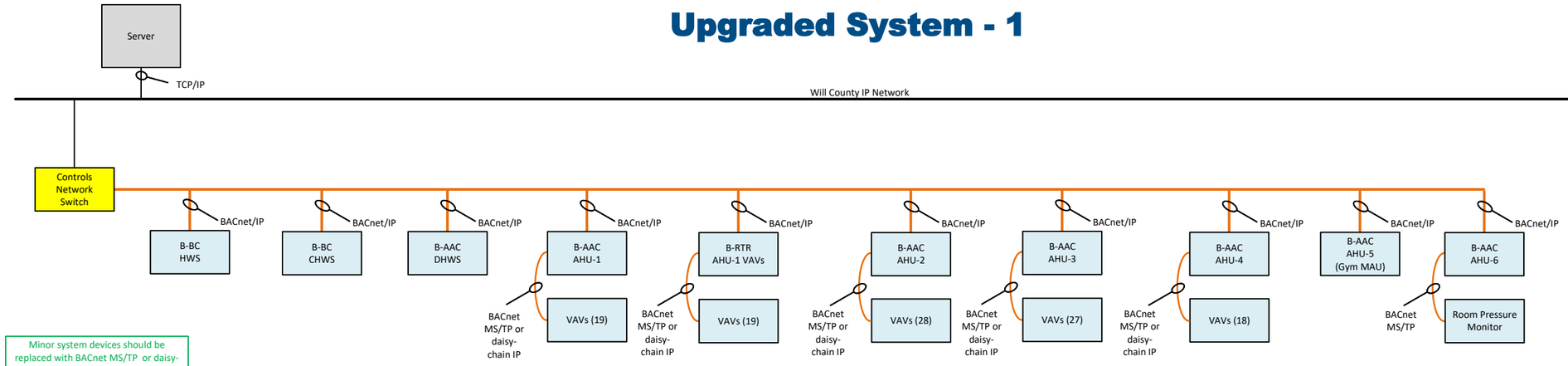
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STATUS: Final
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Controls Architecture

River Valley Detention Center
Upgraded System - 1



Minor system devices should be replaced with BACnet MS/TP or daisy-chained IP devices. The number of devices on each primary controller should not exceed manufacturer recommendations for streamlined communications.

LEGEND

- Existing Device
- Device obsolete, unsupported, and incompatible with modern products
- Device obsolete and unsupported
- Existing Modbus Device
- Modern BACnet Device
- Equipment Device
- Will County IP Network
- IP Connection
- JCI N2
- BACnet ARCNET
- BACnet MS/TP
- BACnet Daisy-Chained Ethernet
- I/O Bus
- Modbus RTU

Device scheduled for modification

Note — Upgrade notes

Recommended network architecture and device order may vary with installation from this diagram. Controls contractor to provide accurate as-built diagrams of network wiring.

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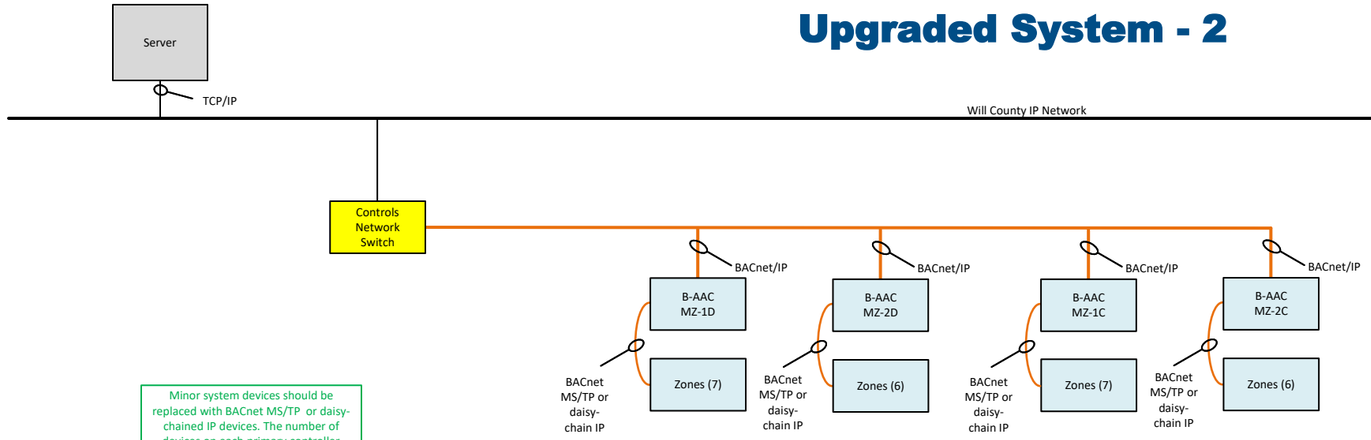
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2 of **3**

Upgraded System - 1

River Valley Detention Center
Upgraded System - 2



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3 of **3**

Upgraded System - 2