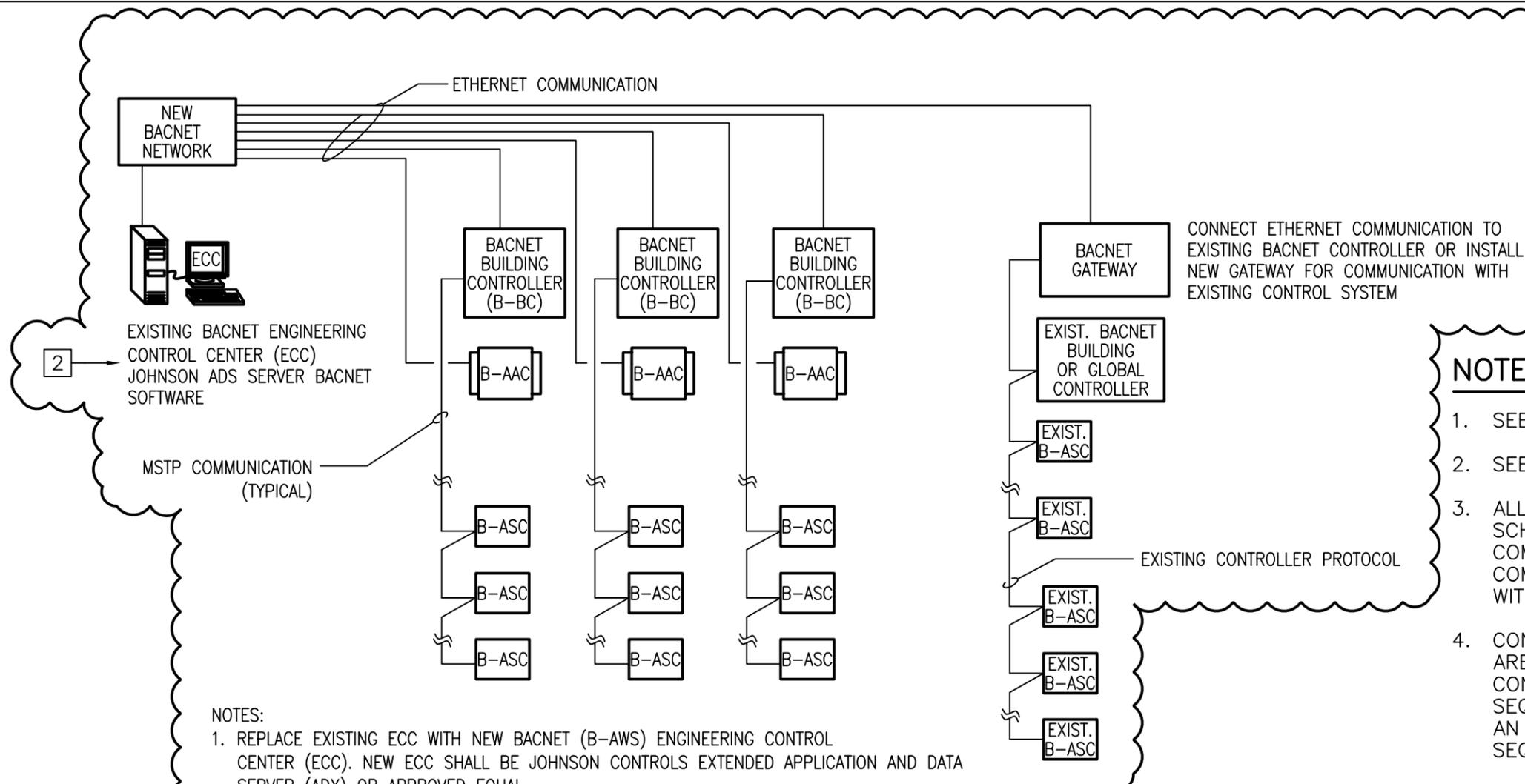# AECOM

Project	LOUIS A. JOHNSON VA MEDICAL CENTER BUILDING AUTOMATION SYSTEM UPGRADE	Project No.	540-11-108
Title	MECHANICAL TEMPERATURE CONTROLS	Phase	
		Date	2012-06-08
Des By	ODM	Dept	MECHANICAL	Rev Date	
Ckd By	SOL	Sketch	SK-002	Sheet No.	1 Of 1

CONTROL SYSTEM CONFIGURATION
NEW BACNET ECC, INSTALL NEW BACNET SOFTWARE CONTROLS ON ECC, PROVIDE ETHERNET CONNECTION OR BACNET GATEWAY FOR EXISTING CONTROL SYSTEM. INSTALL NEW BACNET COMMUNICATION NETWORK. INTERFACING OF CONTROLS SHALL ALLOW FOR COMPLETE REPORTING AND CONTROL OF EXISTING SYSTEMS.

ETHERNET COMMUNICATION

NEW BACNET NETWORK

ECC

EXISTING BACNET ENGINEERING CONTROL CENTER (ECC) JOHNSON ADS SERVER BACNET SOFTWARE

MSTP COMMUNICATION (TYPICAL)

BACNET BUILDING CONTROLLER (B-BC)

B-AAC

B-ASC

CONNECT ETHERNET COMMUNICATION TO EXISTING BACNET CONTROLLER OR INSTALL NEW GATEWAY FOR COMMUNICATION WITH EXISTING CONTROL SYSTEM

BACNET GATEWAY

EXIST. BACNET BUILDING OR GLOBAL CONTROLLER

EXIST. B-ASC

EXISTING CONTROLLER PROTOCOL

NOTES:
1. REPLACE EXISTING ECC WITH NEW BACNET (B-AWS) ENGINEERING CONTROL CENTER (ECC). NEW ECC SHALL BE JOHNSON CONTROLS EXTENDED APPLICATION AND DATA SERVER (ADX) OR APPROVED EQUAL.

2. EXISTING CONTROLLERS TO REMAIN.

3. INSTALL NEW ETHERNET COMMUNICATION OR BACNET GATEWAY WITH FULL COMMUNICATION TO EXISTING CONTROLLERS TO REMAIN.

4. INSTALL NEW BACNET COMMUNICATION NETWORK.

5. INSTALL MULTIPLE BUILDING CONTROLLERS AS REQUIRED.

6. INSTALL NEW CONTROLLERS (B-AAC/B-ASC) AS REQUIRED.

7. PROVIDE NEW ETHERNET BACKBONE FROM THE BASEMENT TO THE PENTHOUSES OF BUILDINGS 1 & 2.

NOTES THIS SHEET:

1. SEE SHEET MI001 FOR LEGEND AND GENERAL NOTES.

2. SEE SHEET GI002 FOR ABBREVIATIONS.

3. ALL CONTROL COMPONENTS SHOWN IN CONTROL SCHEMATICS SHALL BE REPLACED WITH NEW CONTROL COMPONENTS UNDER THIS CONTRACT U.O.N. COMPONENTS SHALL BE CONTROLLED IN ACCORDANCE WITH SYSTEM CONTROL SEQUENCE.

4. CONTROL SCHEMATICS AND SEQUENCE OF OPERATIONS ARE FROM THE ORIGINAL RECORD DRAWINGS. CONTRACTOR SHALL REVIEW AND COORDINATE THE SEQUENCE OF OPERATIONS FOR SYSTEMS MODIFIED WITH AN OWNER REPRESENTATIVE TO CONFIRM FINAL SEQUENCE OF OPERATIONS FOR REVISED SYSTEMS.

5. PROVIDE NEW STAND ALONE APPLICATION SPECIFIC CONTROLLERS FOR EACH SYSTEM CONTROLLED.

☐ SHEET KEYNOTES:

2. UPGRADE EXISTING APPLICATION DATA SERVER (ADS) TO AN EXTENDED APPLICATION AND DATA SERVER (ADX).

Ref Drawing: MI701