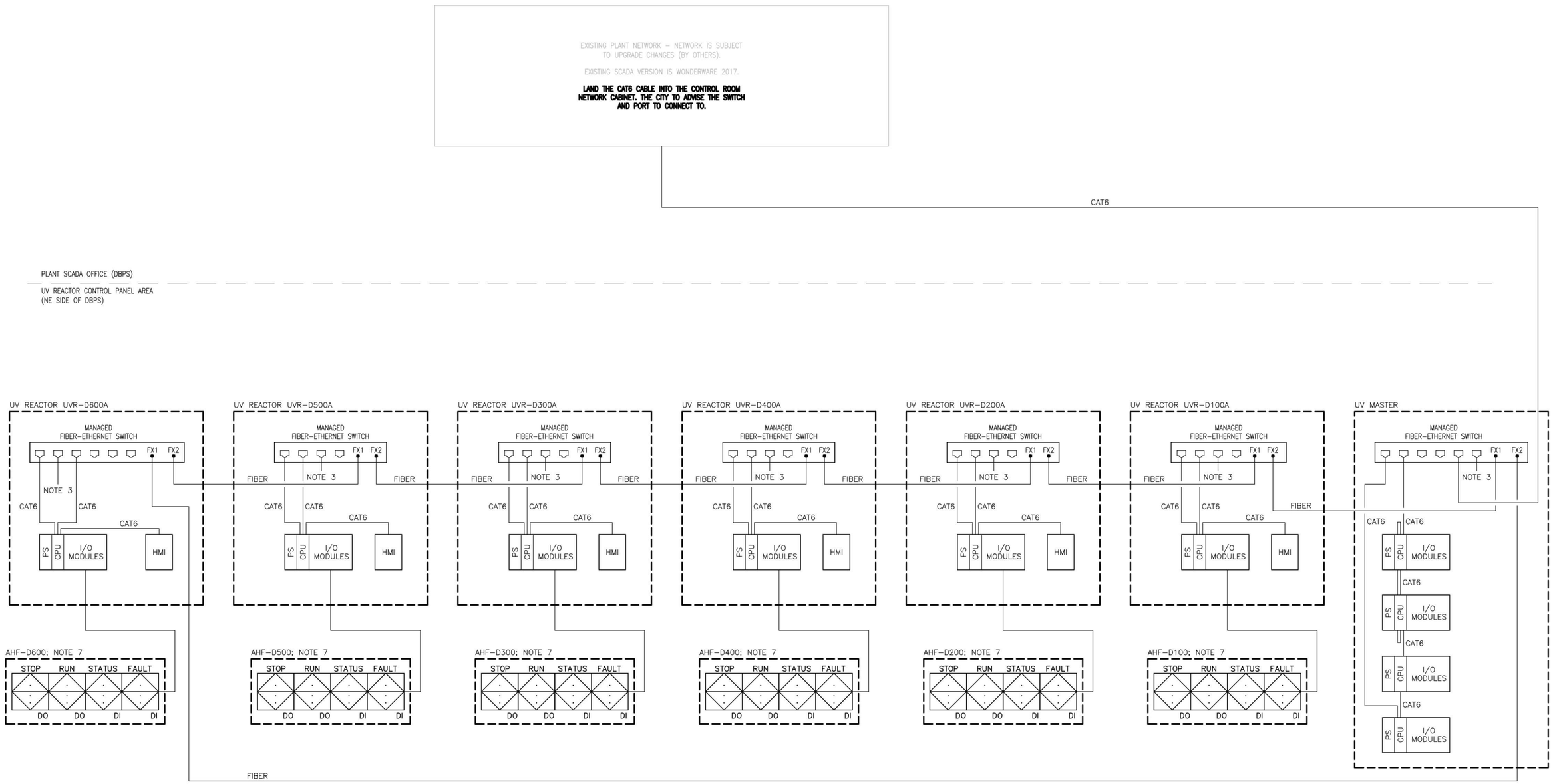
A1 SIZE - 594mm x 841mm



NOTES:

1. NETWORK ARCHITECTURE IS RING TOPOGRAPHY TO IMPROVE ON NETWORK STABILITY.
2. UV NETWORK RING TOPOGRAPHY. NETWORK SWITCHES SHALL BE PROGRAMMED FOR THE APPROPRIATE PORT-FORWARDING AND DATA RATES. WHERE FIBER IS USED PROVIDE OM3, WHERE ETHERNET CABLE IS REQUIRED PROVIDE CAT6 SHIELDED TWISTED PAIR.
3. UV ENCLOSURE PROVIDED WITH A COMBINATION LAPTOP RECEPTACLE AND TCP PORT.
4. UV PLC SYSTEM BASED ON THE MODICON M580 EPAC, WITH MAGELIS HMIS, COMPLETE WITH ALL APPURTENANCES, SOFTWARE, AND SD CARDS.
5. NETWORK PROTOCOL IS MODBUS TCP/IP. STAGED REMOVAL OF THE MODBUS+ NETWORK IS REQUIRED AS PART OF THE UPGRADES.
6. EACH UV SYSTEM SHALL BE TAKEN OFFLINE MAXIMUM TWO AT A TIME AS PART OF EACH UV REACTOR AND ASSOCIATED CONTROL UPGRADE.
7. PROGRAM EACH PLC TO OPERATE ITS RESPECTFUL AHF ONLY WHEN ITS LOCAL UV REACTOR IS IN OPERATION.
8. COMMUNICATION AND CONTROL CABLING EXTERIOR TO ENCLOSURES IN CONDUITS. REFER TO DRAWING 1-0601D-E0021-001 AND 1-0601D-E0022-001 FOR ROUTING.

REFERENCE DRAWING

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10	-	-
9	-	-
8	-	-
7	-	-
6	-	-
5	-	-
4	-	-
3	1-0601D-E0022-001	ELECTRICAL - LAYOUT ABOVE ELEVATION 230.800m & 236.460m
2	1-0601D-E0021-001	ELECTRICAL - LAYOUT ABOVE ELEVATION 227.000m & 229.800m
1	1-0601D-D0004-001	GENERAL - COVER AND DRAWING INDEX

ENGINEERING GEOSCIENTISTS MANITOBA
Certificate of Authorization
AECOM Canada Ltd.
No. 4671 Date: 22.05.02

NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR TENDER	22/05/04	JG	DSA

AECOM

DESIGNED BY: JG	CHECKED BY: DSA
DRAWN BY: RC	APPROVED BY: SRB
SCALE: NTS	RELEASED FOR CONSTRUCTION BY:
DATE: 2006-06-28	DATE:
CONSULTANT NO.: -	

ENGINEER'S SEAL

PROVINCE OF MANITOBA D.S. ALLEN 22-05-04 REGISTERED PROFESSIONAL ENGINEER

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

DEACON BOOSTER PUMPING STATION
ULTRAVIOLET DISINFECTION SYSTEM UPGRADES

INSTRUMENTATION
UV INSTALLATION
MODIFICATIONS CONTROL SYSTEM ARCHITECTURE

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0601D-A0102	001	00	A1

LAST SAVE: 2022/05/02 2:27 PM
PATH: C:\Users\paul.alcos\ACCDocs\AECOM\CA-MNER (CAN)\60640942-Deacon UV Upgrade\Project Files\900 Design Collaboration\E1-0601D-A0102_001-00D.dwg