

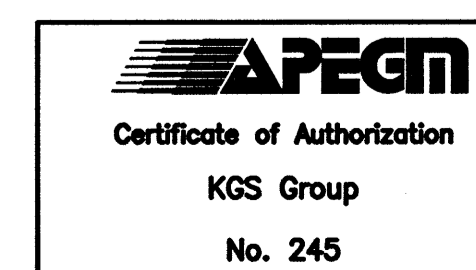
NOTES:

1. FIBRE-OPTIC CABLE SHALL BE 6 STRAND, SUITABLE FOR DIRECT INDOOR/OUTDOOR AND BURIAL, LOOSE TUBE, 50/125 MULTI-MODE, ARMOURD WITH OVERALL POLYETHYLENE JACKET. CABLE SHALL MEET TIA 492-AAAD (OM4) DESIGNATION. REFER TO DRAWING 1-0103-EGAD-2003 FOR CABLE ROUTE.
2. SURFACE MOUNT BOX TO BE INSTALLED ON INTERIOR SIDE WALL OF CPCU-2WB CABINET 3.
3. REFER TO DRAWING 1-0103-AGAD-S001 FOR LOCATION OF PANELS WITHIN SECONDARY CLARIFIER CONTROL ROOM.
4. FIBRE-OPTIC PATCH PANEL IN SECONDARY CLARIFIER CONTROL ROOM TO BE MOUNTED TO BACK SIDE OF EXISTING FIELD DEVICE PANEL 'B'.
5. PROVIDE A 25mmØ NIPPLE BETWEEN FIBRE-OPTIC PATCH PANEL AND ETHERNET SWITCH ENCLOSURE IN SECONDARY CLARIFIER CONTROL ROOM FOR INSTALLATION OF FIBRE-OPTIC PATCH CORD.

LEGEND:

- FIBRE-OPTIC (ETHERNET)
- CAT6 ETHERNET
- PROFIBUS DP
- PA --- PA --- PROFIBUS PA

NETWORKING BILL OF MATERIALS					
ITEM	QUANTITY	PART NUMBER	MANUFACTURER	DESCRIPTION	NOTES
①	2	TCS ESU043F1N0	SCHNEIDER ELECTRIC	ETHERNET SWITCH WITH FIBRE OPTIC PORT	
②	1	TCS ESM083F23F1	SCHNEIDER ELECTRIC	ETHERNET SWITCH	
③	1	TCS EGPA23F14F	SCHNEIDER ELECTRIC	PROFIBUS REMOTE MASTER MODULE	
④	2	M-FT	PEPPERL + FUCHS	PROFIBUS NETWORK TERMINATOR	
⑤	AS REQUIRED	-	-	PROFIBUS INSTRUMENT	
⑥	1	MBCB-FB-GT	PEPPERL + FUCHS	PROFIBUS DP/PA COUPLER MOTHERBOARD	
⑦	1	HD2-GTB-2PA	PEPPERL + FUCHS	PROFIBUS DP/PA GATEWAY	
⑧	2	HD2-FBPS-1.25.360	PEPPERL + FUCHS	PROFIBUS DP/PA POWER SUPPLY	
⑨	1	R2-SP-N4	PEPPERL + FUCHS	PROFIBUS PA SEGMENT PROTECTOR W/ 4 OUTPUTS	
⑩	1	FCW4SP C/W FSPLC6	HUBBELL	WALL MOUNTED FIBRE OPTIC PATCH PANEL C/W ONE ADAPTER PANEL WITH 6 DUPLEX LC CONNECTORS	4
⑪	2	DFPCLCSCC5mm	HUBBELL	LC TO SC PATCH CORD; 5 METRE LENGTH	5
⑫	1	FSPLC6	HUBBELL	6 PORT LC DUPLEX ADAPTER PANEL	
⑬	1	2L-2ES-25C	RED LION	FIBRE TO ETHERNET MEDIA CONVERTER	
⑭	2	ISB2	HUBBELL	SURFACE MOUNT BOX-2 PORT	
⑮	4	HXJ6B	HUBBELL	CAT6 RJ45 JACK	
⑯	2	HC6B03	HUBBELL	CAT6 PATCH CORD	



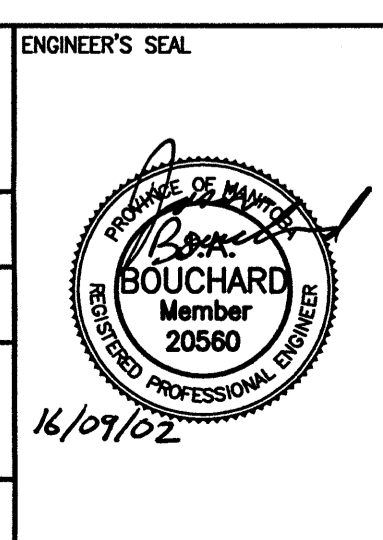
B.M.	-
ELEV.	-
NO.	REVISIONS
00	ISSUED FOR CONSTRUCTION
DATE	2016/09/02
DESIGN	DN
CHECK	AS

KGS GROUP
CONSULTING ENGINEERS

DESIGNED BY: D. D. WILSON
DRAWN BY: G. C. NELSON
SCALE: N.T.S.
DATE: 2016/03/15

CHECKED BY: J.A. BOUCHARD
APPROVED BY: J.A. BOUCHARD
ISSUED FOR CONSTRUCTION BY: J.A. BOUCHARD
DATE: 16/09/16

CONSULTANT NO.: 15-0107-019_E12



THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

WEST END SEWAGE TREATMENT PLANT
EFFLUENT MONITORING STATION
BLOCK DIAGRAM
CONTROL SYSTEM ARCHITECTURE

CITY DRAWING NUMBER: 1-0103-ABDG-Z001
SHEET: 00
REV: 00
SIZE: A1