



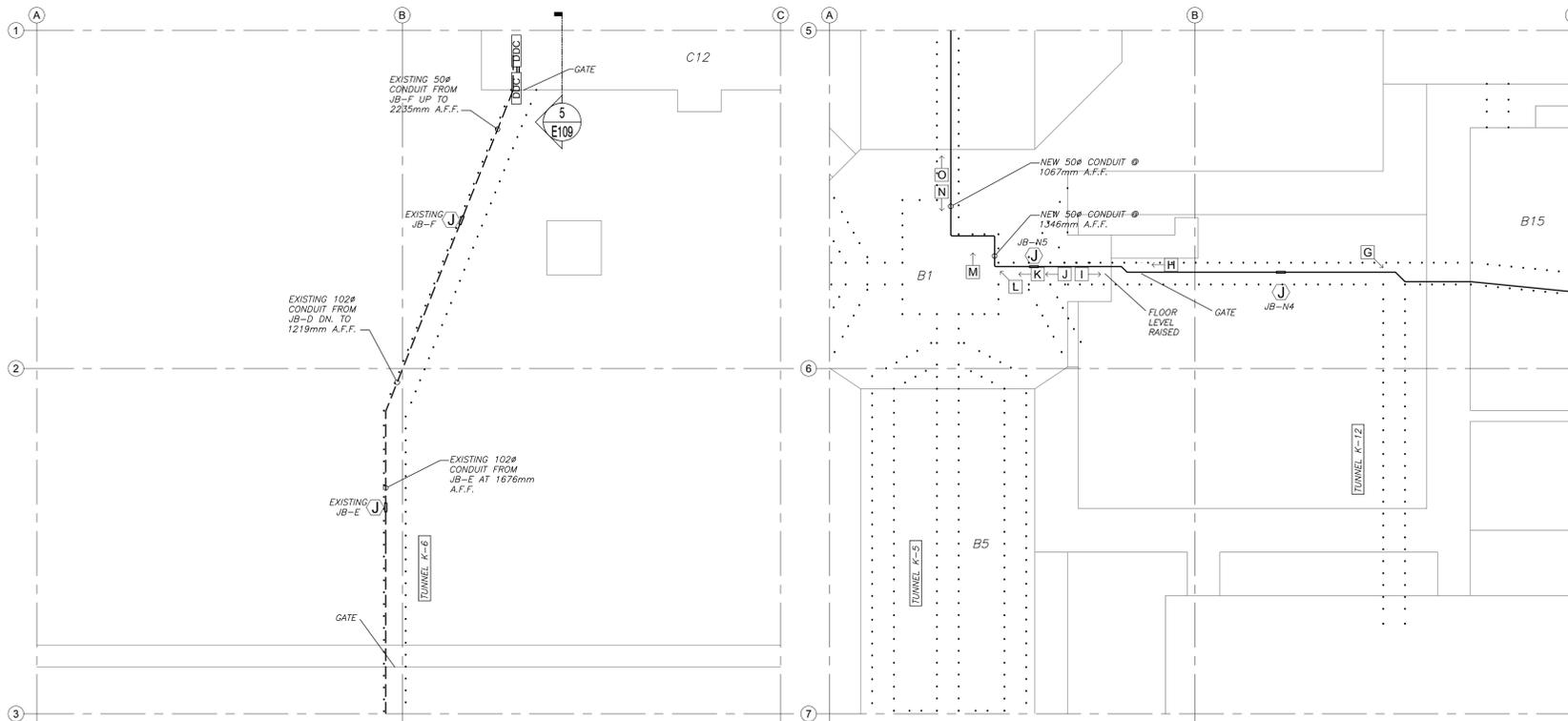
KEY NOTES:			
A1	ADMINISTRATION	B19	CHAPEL
B1	PRISON DOME	B20	VISITING DUPLEX 1,2
B2	"A" RANGE	B21	ARTS & CRAFTS
B3	"M" RANGE	C5	INDUSTRIAL SHOP - CORCH
B5	"B" RANGE	C12	POWER HOUSE
B6	CULTURAL CENTRE	C16	METAL & TAILOR SHOP
B8	MULTIPURPOSE BLDG	C17	STORES
B12	KITCHEN	C18	RECREATION HALL
B15	S.I.S.	C20	FIREHALL
B16	VISITING DUPLEX 3	C22	WORKS
B17	SCHOOL	UNIT 6	96 BED BUILDING
B18	HOSPITAL PSYCHOLOGY		

ELECTRICAL LEGEND		
ITEM	SYMBOL	REMARKS
ELECTRICAL PANEL	[Symbol]	
DDC PANEL	[Symbol]	
NEW EMT CONDUIT FOR DDC	[Symbol]	500
NEW EMT CONDUIT FOR 120V	[Symbol]	
EXISTING CONDUIT	[Symbol]	500
JUNCTION BOX	[Symbol]	
PHOTO LOCATION	[Symbol]	ARROW SHOWS VIEWING DIRECTION
FAN COIL	[Symbol]	26W 24VDC
FAN COIL TAG	[Symbol]	

EXISTING JUNCTION BOX SCHEDULE				
BOX TAG	SIZE (WxHxD)	INCOMING CONDUIT (SIZE & CONTENTS)	OUTGOING CONDUIT (SIZE & CONTENTS)	ELEV. (A.F.F.)
JB-1	610x150x150	1020 CONDUIT w/ 3 FIBRE OPTIC CABLES	500 CONDUIT w/ 3 FIBRE OPTIC CABLES	1118
JB-2	1219x200x127	500 CONDUIT w/ 3 FIBRE OPTIC CABLES	500 CONDUIT w/ 3 FIBRE OPTIC CABLES	400
JB-3	1219x200x127	500 CONDUIT w/ 3 FIBRE OPTIC CABLES	500 CONDUIT w/ 3 FIBRE OPTIC CABLES	1689
JB-4	1219x200x127	500 CONDUIT w/ 3 FIBRE OPTIC CABLES (1 CUT IN BOX)	500 CONDUIT w/ 6 FIBRE OPTIC CABLES 1 #14 AWG	787
JB-5	300x100x114	500 CONDUIT w/ 6 FIBRE OPTIC CABLES 1 #14 AWG	500 CONDUIT w/ 6 FIBRE OPTIC CABLES 1 #14 AWG	1295
JB-6	1219x200x127	500 CONDUIT w/ 6 FIBRE OPTIC CABLES 1 #14 AWG	500 CONDUIT w/ 6 FIBRE OPTIC CABLES 1 #14 AWG	1956
JB-7	400x400x150	500 CONDUIT w/ 5 FIBRE OPTIC CABLES 1 #14 AWG 500 CONDUIT w/ 2 GREY DATA CABLES 500 CONDUIT w/ 3 FIBRE OPTIC CABLES 1 GREY DATA CABLE 2 #14 AWG	500 CONDUIT w/ 2 FIBRE OPTIC CABLES 1 GREY DATA CABLE 1 #14 AWG	1295
JB-8	1219x200x150	500 CONDUIT w/ 2 FIBRE OPTIC CABLES	500 CONDUIT w/ 2 FIBRE OPTIC CABLES	1524
JB-A	914x200x127	500 CONDUIT w/ 3 FIBRE OPTIC CABLES	500 CONDUIT w/ 3 FIBRE OPTIC CABLES	
JB-B	914x200x127	500 CONDUIT w/ 3 FIBRE OPTIC CABLES	500 CONDUIT w/ 3 FIBRE OPTIC CABLES	
JB-C	914x200x127	500 CONDUIT w/ 3 FIBRE OPTIC CABLES	500 CONDUIT w/ 3 FIBRE OPTIC CABLES	533
JB-D	914x200x127	500 CONDUIT w/ 3 FIBRE OPTIC CABLES	500 CONDUIT w/ 1 FIBRE OPTIC CABLE 4 #24 AWG GREY 2 #24 AWG YELLOW	1219
JB-E	914x200x127	500 CONDUIT w/ 1 FIBRE OPTIC CABLE 4 #24 AWG GREY 2 #24 AWG YELLOW	500 CONDUIT w/ 1 FIBRE OPTIC CABLE 4 #24 AWG GREY 2 #24 AWG YELLOW	1676
JB-F	914x200x127	500 CONDUIT w/ 1 FIBRE OPTIC CABLE 4 #24 AWG GREY 2 #24 AWG YELLOW	500 CONDUIT w/ 1 FIBRE OPTIC CABLE 4 #24 AWG GREY 2 #24 AWG YELLOW	1219
JB-G	914x914x300	250 CONDUIT w/ 2 FIBRE OPTIC CABLES	380 CONDUIT w/ 3 FIBRE OPTIC CABLES	NOT VERIFIED
JB-H	914x914x300	NOT VERIFIED	NOT VERIFIED	NOT VERIFIED

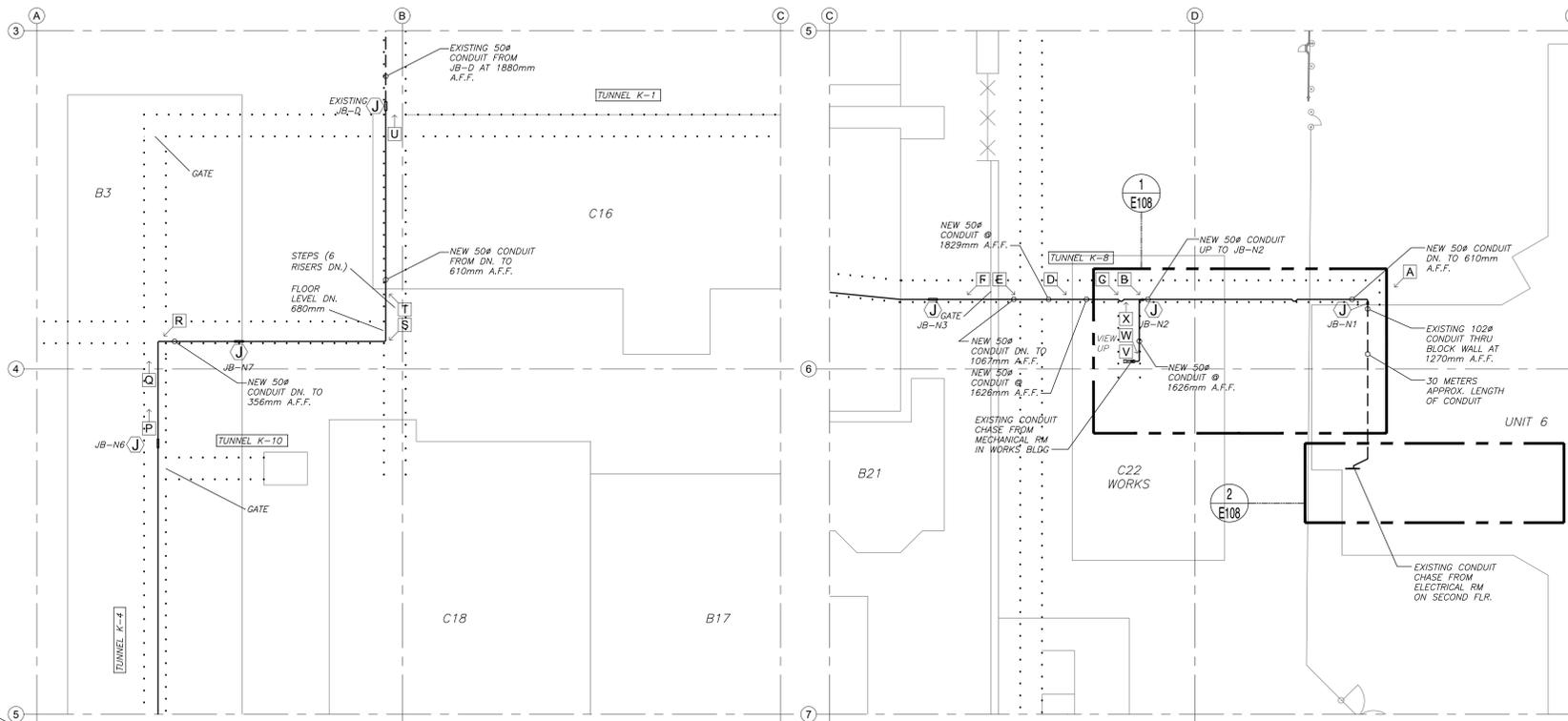
NEW JUNCTION BOX SCHEDULE				
BOX TAG	SIZE (WxHxD)	INCOMING CONDUIT (SIZE & CONTENTS)	OUTGOING CONDUIT (SIZE & CONTENTS)	ELEV. (A.F.F.)
JB-N1	914x200x127	1020 CONDUIT w/ 2 FIBRE OPTIC CABLES	500 CONDUIT w/ 2 FIBRE OPTIC CABLES	610
JB-N2	914x200x127	500 CONDUIT w/ 2 FIBRE OPTIC CABLES	500 CONDUIT w/ 2 FIBRE OPTIC CABLES	1628
JB-N3	914x200x127	500 CONDUIT w/ 2 FIBRE OPTIC CABLES	500 CONDUIT w/ 2 FIBRE OPTIC CABLES	1067
JB-N4	914x200x127	500 CONDUIT w/ 2 FIBRE OPTIC CABLES	500 CONDUIT w/ 2 FIBRE OPTIC CABLES	~1829
JB-N5	914x200x127	500 CONDUIT w/ 2 FIBRE OPTIC CABLES	500 CONDUIT w/ 2 FIBRE OPTIC CABLES	~762
JB-N6	914x200x127	500 CONDUIT w/ 2 FIBRE OPTIC CABLES	500 CONDUIT w/ 2 FIBRE OPTIC CABLES	~914
JB-N7	914x200x127	500 CONDUIT w/ 2 FIBRE OPTIC CABLES	500 CONDUIT w/ 2 FIBRE OPTIC CABLES	~356

- NOTE: "INCOMING" AND "OUTGOING" CONDUITS IN THIS SCHEDULE RELATE TO TRAVEL ALONG THE EXISTING CONDUITS FROM JB-A TO JB-F AND FROM JB-I TO JB-H.
- NOTE: "INCOMING" AND "OUTGOING" CONDUITS IN THIS SCHEDULE RELATE TO TRAVEL ALONG THE TUNNEL CONDUITS FROM JB-N1 TO JB-N7.
- CONSTRUCTION NOTES**
- INSTALL CONDUIT IN TUNNELS, MECHANICAL CHASES, AND BUILDINGS AS SHOWN.
  - PULL THREE CONTINUOUS SECTIONS OF FIBRE OPTIC CABLE TO CONNECT BETWEEN:
    - POWER HOUSE DDC PANEL AND WORKS BUILDING DDC PANEL
    - WORKS BUILDING DDC PANEL AND UNIT 6 DDC PANEL
    - UNIT 6 DDC PANEL AND POWERHOUSE DDC PANEL
  - INTEGRATE AND CONFIGURE THE WORKS BUILDING DDC SYSTEM AND UNIT 6 DDC SYSTEM INTO THE CENTRAL DDC SYSTEM.
  - PROVIDE MEANS TO MANUALLY SWITCH NETWORK CONNECTIONS BETWEEN EACH OF THE TWO FIBRE OPTIC CABLES PULLED TO EACH LOCATION SO THAT EACH BUILDING HAS 2 POSSIBLE CONNECTIONS TO THE POWER HOUSE DDC PANEL.
  - APPROXIMATE DISTANCE FROM DDC PANEL IN MECHANICAL ROOM IN UNIT 6 TO START OF CONDUIT IN ELECTRICAL ROOM IS 20 METERS.
  - APPROXIMATE DISTANCE THRU EXISTING CONDUITS FROM ELECTRICAL ROOM IN UNIT 6 TO BLOCK WALL IN TUNNEL IS 30 METERS.
  - APPROXIMATE TOTAL DISTANCE THRU NEW CONDUITS FROM UNIT 6 BLOCK WALL IN TUNNEL TO EXISTING JB-D & EXISTING CONDUITS FROM JB-D TO POWER HOUSE IS 330 METERS.



1 SMI TUNNEL LAYOUT - PARTIAL  
1:250 SHEET REF. E106

3 SMI TUNNEL LAYOUT - PARTIAL  
1:250 SHEET REF. E106



2 SMI TUNNEL LAYOUT - PARTIAL  
1:250 SHEET REF. E106

4 SMI TUNNEL LAYOUT - PARTIAL  
1:250 SHEET REF. E106

Revision	Description	Date
0	ISSUED FOR TENDER	2017/07/21

**PUBLIC WORKS & GOVERNMENT SERVICES**  
100-167 LOMBARD AVENUE  
WINNIPEG, MB R3B 0T6

Project: CORRECTIONAL SERVICE CANADA  
STONY MOUNTAIN INSTITUTION  
STONY MOUNTAIN, MB  
UNIT 6  
MECHANICAL UPGRADE

Designed by: ZHA  
Drawn by: RTD  
Approved by: KAS  
Project Manager: TIM LODGE

UNIT 6 TO POWER HOUSE PARTIAL TUNNELS - NEW

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.043722.003	E107	0