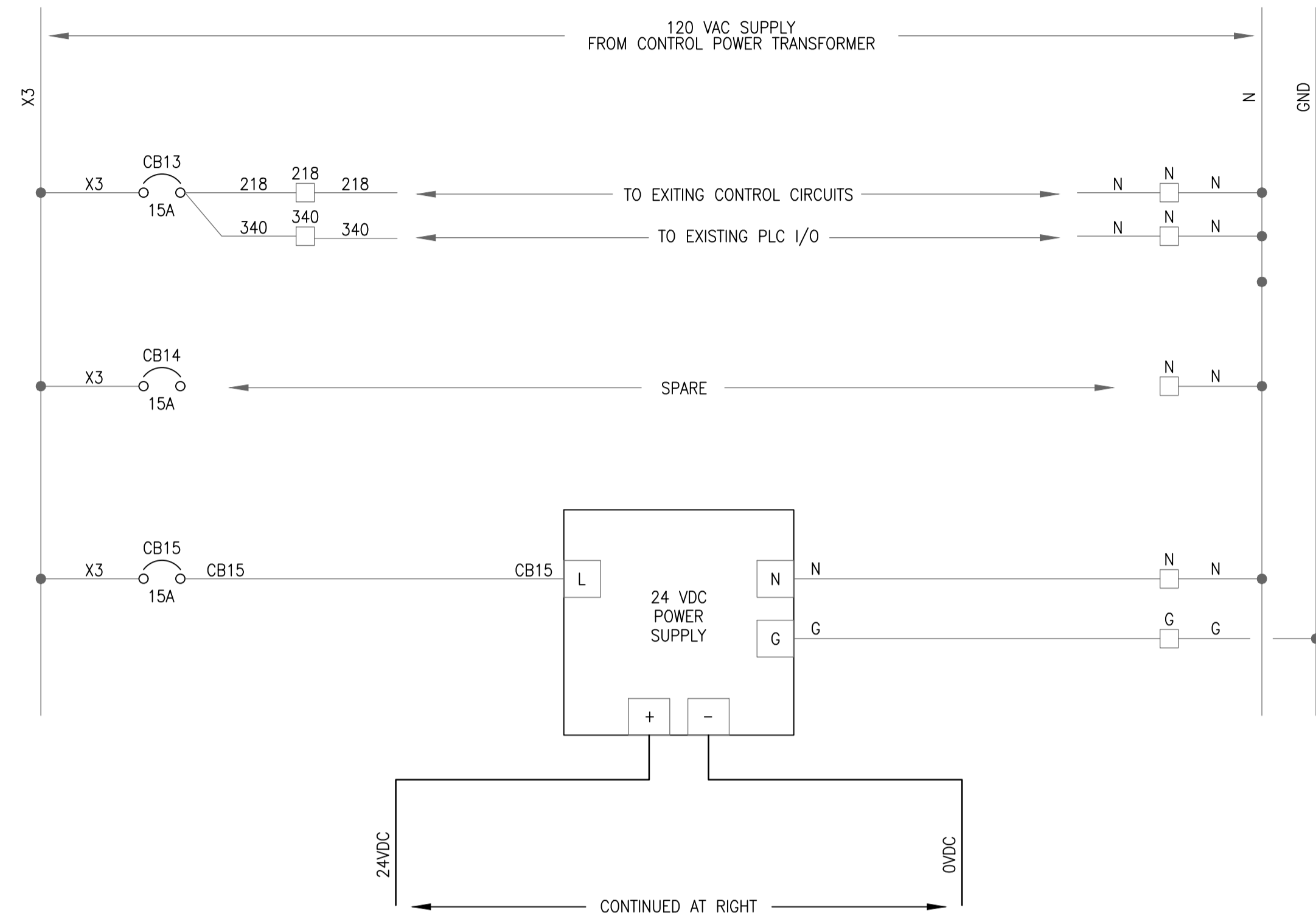
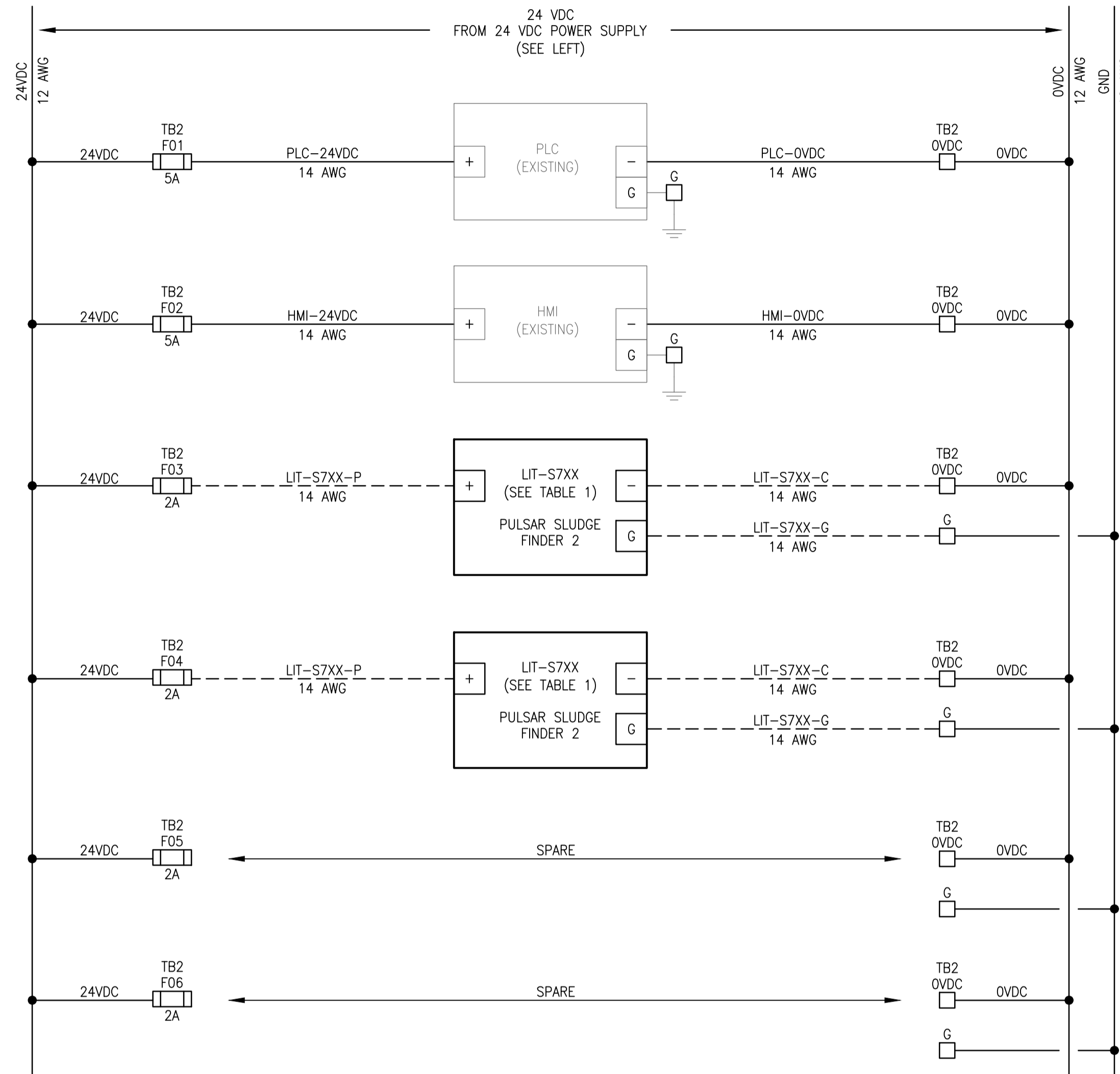


LEGEND:

-----	FIELD WIRE
—————	INTERNAL WIRE
—————	EXISTING



PARTIAL 120 VAC POWER DISTRIBUTION SCHEMATIC
SCALE: N.T.S.



24 VDC POWER DISTRIBUTION SCHEMATIC
SCALE: N.T.S.

DEMOLITION NOTES:

1. PROVIDE DEMOLITION OF THE EXISTING FUSES, TERMINALS, AND CONDUCTORS THAT POWER THE PLC AND HMI. NOT ALL EXISTING CONTROL PANELS ARE IDENTICAL.

CONSTRUCTION NOTES:

1. PROVIDE AND INSTALL NEW DIN RAIL, FUSED TERMINALS F01 TO F06, AND OVDC TERMINALS, AS SHOWN ON THIS DRAWING. REFER TO LAYOUT AND BILL OF MATERIAL ON DRAWING 1-0101-ACBD-S001.
2. PROVIDE NEW CONDUCTORS FROM 24VDC POWER SUPPLY TO FUSED TERMINALS AND OVDC TERMINALS.
3. PROVIDE NEW CONDUCTORS FROM FUSES F01 AND F02 TO RE-POWER THE EXISTING PLC AND HMI.
4. PROVIDE NEW CONDUCTORS TO POWER THE LEVEL TRANSMITTERS (LIT-LS7XX) FROM THE NEW FUSES AND TERMINALS AS SHOWN.
5. LABEL ALL CONDUCTORS AS PER THIS DRAWING. FOLLOW THE WIRE TYPE AND WIRE COLOUR STANDARDS AS PER THE GENERAL NOTES ON THIS DRAWING.

TABLE 1 - LEVEL INSTRUMENT TAGS

BRIDGE NO.	CLARIFIER NO.	LEVEL INSTRUMENT TAG
1	11	LE/LIT-S711
1	12	LE/LIT-S712
2	13	LE/LIT-S713
2	14	LE/LIT-S714
3	15	LE/LIT-S715
3	16	LE/LIT-S716
4	17	LE/LIT-S717
4	18	LE/LIT-S718
5	19	LE/LIT-S719
5	20	LE/LIT-S720
6	21	LE/LIT-S721
6	22	LE/LIT-S722
7	23	LE/LIT-S723
7	24	LE/LIT-S724
8	25	LE/LIT-S725
8	26	LE/LIT-S726

GENERAL NOTES:

1. NOT ALL EXISTING BRIDGE CONTROL PANELS ARE IDENTICAL.
2. ALL INTERNAL POWER WIRING TO BE TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 14 AWG. ALL FIELD POWER WIRING TO BE RW90, 300V, STRANDED COPPER, SIZE AS INDICATED ON THIS DRAWING.
3. STANDARD WIRE COLOURS:
120 VAC POWER: BLACK
120 VAC CONTROL: RED
120 VAC NEUTRAL: WHITE
24VDC POWER AND CONTROL: BLUE
24VDC COMMON: BROWN
GROUND/BOND: GREEN

1-0101-DAAA-S002	DRAWING INDEX
DRAWING NUMBER	REFERENCE DRAWINGS

00	ISSUED FOR CONSTRUCTION	2026/01/30	SW	BC
NO.	REVISIONS	DATE	DESIGN	CHECK

AtkinsRéalis
148 Nature Park Way, Winnipeg, Manitoba
Canada R3P 0X7 204-786-8080

DESIGNED BY: S. WARNAKULASOORIYA	CHECKED BY: B. CLEVEN
DRAWN BY: Y. KONIG	APPROVED BY: B. CLEVEN
SCALE: N.T.S.	ISSUED FOR CONSTRUCTION BY: A. KIAYEE
DATE: 2025/06/06	DATE: 2026/01/30

CONSULTANT NO.:

ENGINEER'S SEAL

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
AtkinsRéalis Canada Inc.
No. 4489

THE CITY OF WINNIPEG
Winnipeg
WATER AND WASTE DEPARTMENT

NORTH END SEWAGE TREATMENT PLANT
SECONDARY CLARIFIERS SLUDGE BLANKET LEVEL DETECTION
PARTIAL POWER DISTRIBUTION SCHEMATIC
BRIDGE CONTROL PANEL

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0101-ACBD-S002	00	00	A1

1-0101-ACBD-S002.dwg