GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS AND IS RESPONSIBLE FOR ALL SCHEDULING, ALL REQUIRED INSPECTIONS FOR THE PERMIT, AND ASSOCIATED COSTS. THE ELECTRICAL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST APPROVED CANADIAN ELECTRICAL CODE, MBC, MEBC, AND LOCAL AUTHORITY LAWS.
2. THE CONTRACTOR SHALL SUPPLY A PDF OF SHOP DRAWINGS FOR REVIEW BY THE CONSULTANT PRIOR TO INSTALLATION/PURCHASE. REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL SUBMITTAL REQUIREMENTS.
3. THE CONTRACTOR SHALL PREPARE OPERATION/MAINTENANCE MANUALS IN ACCORDANCE WITH THE SPECIFICATIONS.
4. ALL WIRING, CONDUIT, AND TECK CABLE SHALL BE INSTALLED ON THE SQUARE, PARALLEL WITH THE BUILDING LINES. WIRING SHALL NOT BE INSTALLED ON THE DIAGONAL.
5. THE LOCAL INSPECTION AUTHORITY SHALL HAVE JURISDICTION WITH RESPECT TO THE INSTALLATION. CONTRACTOR IS NOT PERMITTED TO SELF-CERTIFY INSPECTIONS. ALL INSPECTIONS SHALL BE COMPLETED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
6. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND TERMINATE ALL WIRING, INCLUDING WIRING AND TERMINATION OF ELECTRICAL AND CONTROL EQUIPMENT PROVIDED BY THE OWNER AND OTHER TRADES. WIRING SHALL INCLUDE ALL JUNCTION BOXES, WIRE CONNECTORS AND ANCILLARY DEVICES FOR A COMPLETE AND FUNCTIONAL CONNECTION.
7. JUNCTION BOXES SHALL BE NEMA 4X AS INSTALLED. ALL CONNECTORS SHALL BE NEMA4X OR GREATER.
8. DISCONNECT AND FUSED SWITCHES SHALL BE HEAVY-DUTY INDUSTRIAL GRADE, WATER PROOF, NEMA 4X QUICK MAKE, QUICK BREAK WITH FUSES SIZED TO MATCH LOAD (AS PER CODE).

10. ALL CONDUCTORS SHALL BE SIZED ACCORDING TO THE ELECTRICAL CODE, WHERE THE MAXIMUM NUMBER OF WIRES IS BEING INSTALLED IN A CONDUIT, THE NEXT SIZE OF CONDUIT SHALL BE USED.
11. WHERE CONDUITS AND/OR CABLES PENETRATE THROUGH CONCRETE BELOW GRADE, STEEL SLEEVES SHALL BE PROVIDED. LINK-SEAL SHALL BE USED AS A SLEEVE SEAL.
12. ALL CONDUIT AND CABLES SHALL BE PROPERLY SUPPORTED.
13. ALL CABLES SHALL MEET OR EXCEED FT4 FLAME TESTING STANDARDS.
14. COORDINATE ALL INSPECTIONS WITH THE AHJ AND THE ENGINEER OF RECORD.

KEYNOTES:

1. FIELD RUN POWER CABLE FROM PANEL PP-D30 TO PUMP CONTROL PANEL. PATH TO BE APPROVED BY RESIDENT ENGINEER PRIOR TO PURCHASE OF CABLE LENGTH AND INSTALLATION.

2. COORDINATE WITH MECHANICAL EQUIPMENT SUPPLIER TO ENSURE SUFFICIENT CABLE LENGTHS FOR LEVEL SWITCHES AND PUMP.

3. SUMP PUMP NOT DRAWN TO SCALE FOR CLARITY.

4. RUN CABLE HORIZONTALLY ALONG THE WEST AND SOUTH WALLS OF THE VALVE VAULT BEFORE PENETRATING UPWARDS. REFER TO SPECIFICATIONS FOR MOUNTING REQUIREMENTS TO CONCRETE WALLS.

5. VALVE VAULT SHALL BE CONSIDERED A WET LOCATION UP TO 1220mm FROM TOP OF CONCRETE.

6. SUMP PUMP MONITORING SIGNALS TO BE CONNECTED TO EXISTING PLC PANEL. COORDINATE TERMINATION TO I/O CHANNELS WITH OWNER.

7. PROVIDE MOUNTING BRACKET FOR LEVEL SWITCHES. REFER TO CIVIL DETAIL DRAWING 1-601D-C0003-01 FOR SLOPE OF SUMP PIT.

EXISTING CABLE TRAY(S)

DUCT

3200
2515
2591
2286

1x3C #12 TECK90 CU
1X4C #14 TECK90 CU
LCP-700

EL 226.00m
EL 227.00m

2750

1x3C #12 TECK90 CU
1X4C #14 TECK90 CU

EL 223.25m

PUMP
LSHH
LSH
LSL

3800
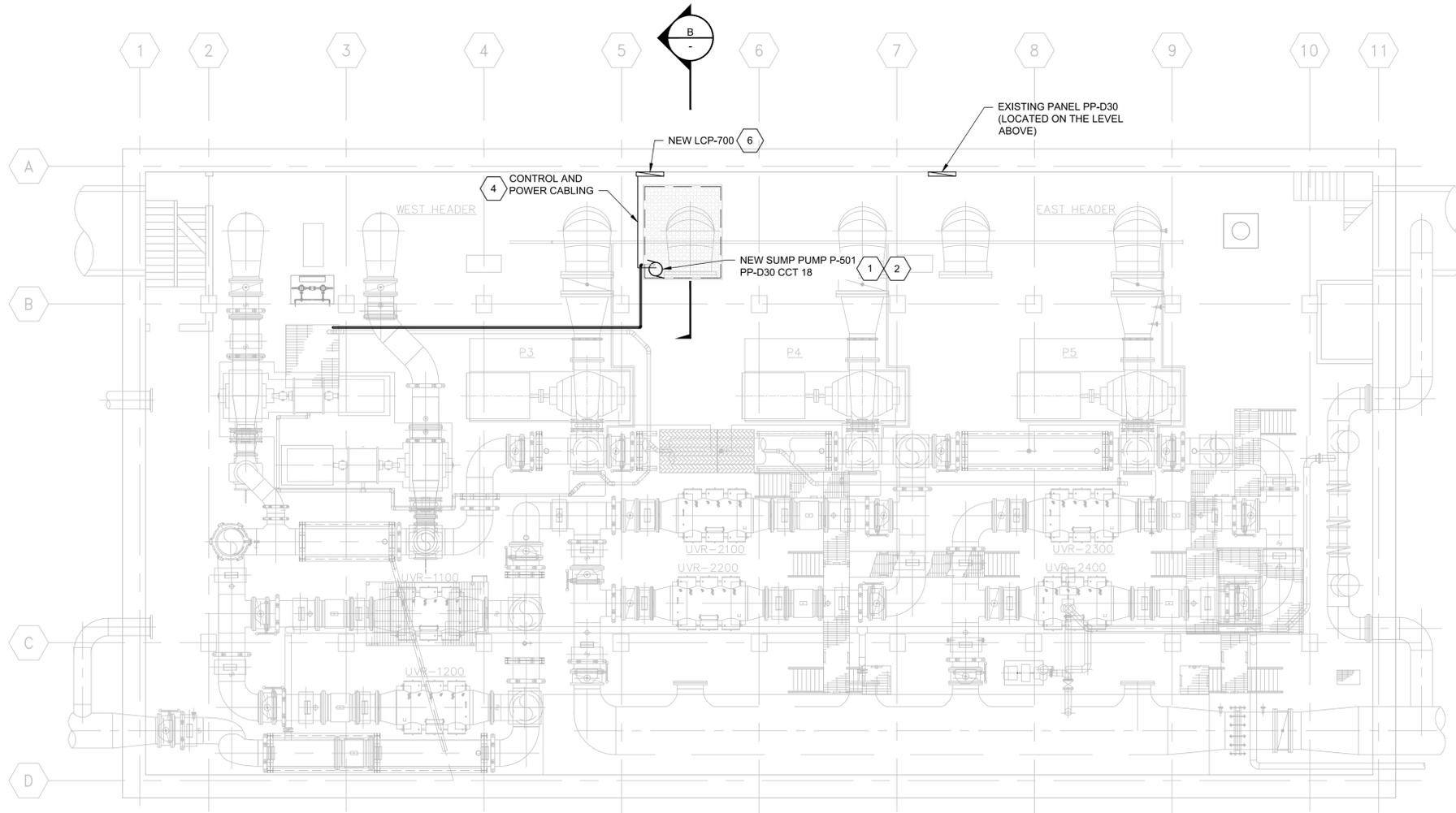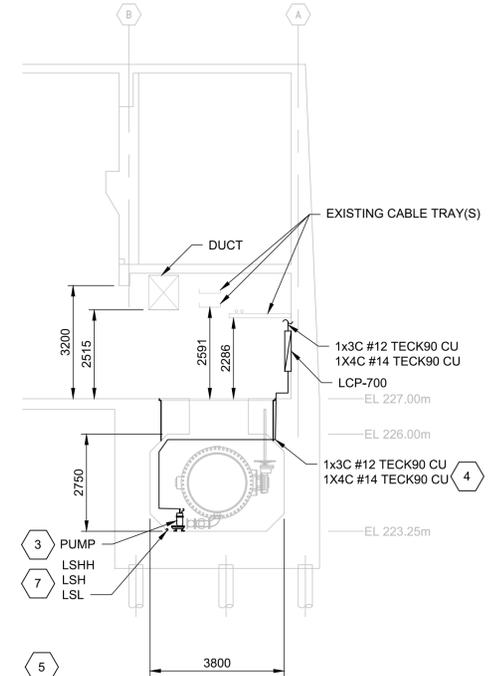
B | SECTION (5)
ABOVE EL 227.00m

0   2500   5000   mm
1:100

NEW LCP-700 (6)

EXISTING PANEL PP-D30
(LOCATED ON THE LEVEL ABOVE)

CONTROL AND POWER CABLING (4)

WEST HEADER

EAST HEADER

NEW SUMP PUMP P-501
PP-D30 CCT 18

P3   P4   P5

UVR-2100
UVR-2200   UVR-2300
UVR-1100   UVR-2400

UVR-1200

PLAN
ABOVE EL 227.00m

TENDER NO. 640-2022

AECOM

ENGINEER'S SEAL

ORIGINAL SIGNED BY C.L. ROBINSON
2022—08—17

Winnipeg — **THE CITY OF WINNIPEG**
WATER AND WASTE DEPARTMENT
ENGINEERING SERVICES DIVISION

WINNIPEG WATER TREATMENT PLANT
DEACON BOOSTER PUMPING STATION
ELECTRICAL
SUCTION HEADER SPLIT
PLAN AND SECTION

		DESIGNED BY: CR	CHECKED BY: SS
		DRAWN BY: TW	APPROVED BY: CR
		SCALE: AS NOTED	RELEASED FOR CONSTRUCTION BY: JESSICA McCOMBE
		DATE: 2022-08-17	DATE: 2022-08-18
01	ISSUED FOR CONSTRUCTION	2022/08/17	CR	SS
00	ISSUED FOR 90%	2022/07/20	CR	SS	CONSULTANT NO.:
NO.	REVISIONS	DATE	DESIGN	CHECK	E-001

CITY DRAWING NUMBER: 1-0601D-E0001-001   SHEET: 009   REV.: 01   SIZE: A1

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

A1 SIZE - 594mm x 841mm

LAST SAVE:
PATH: