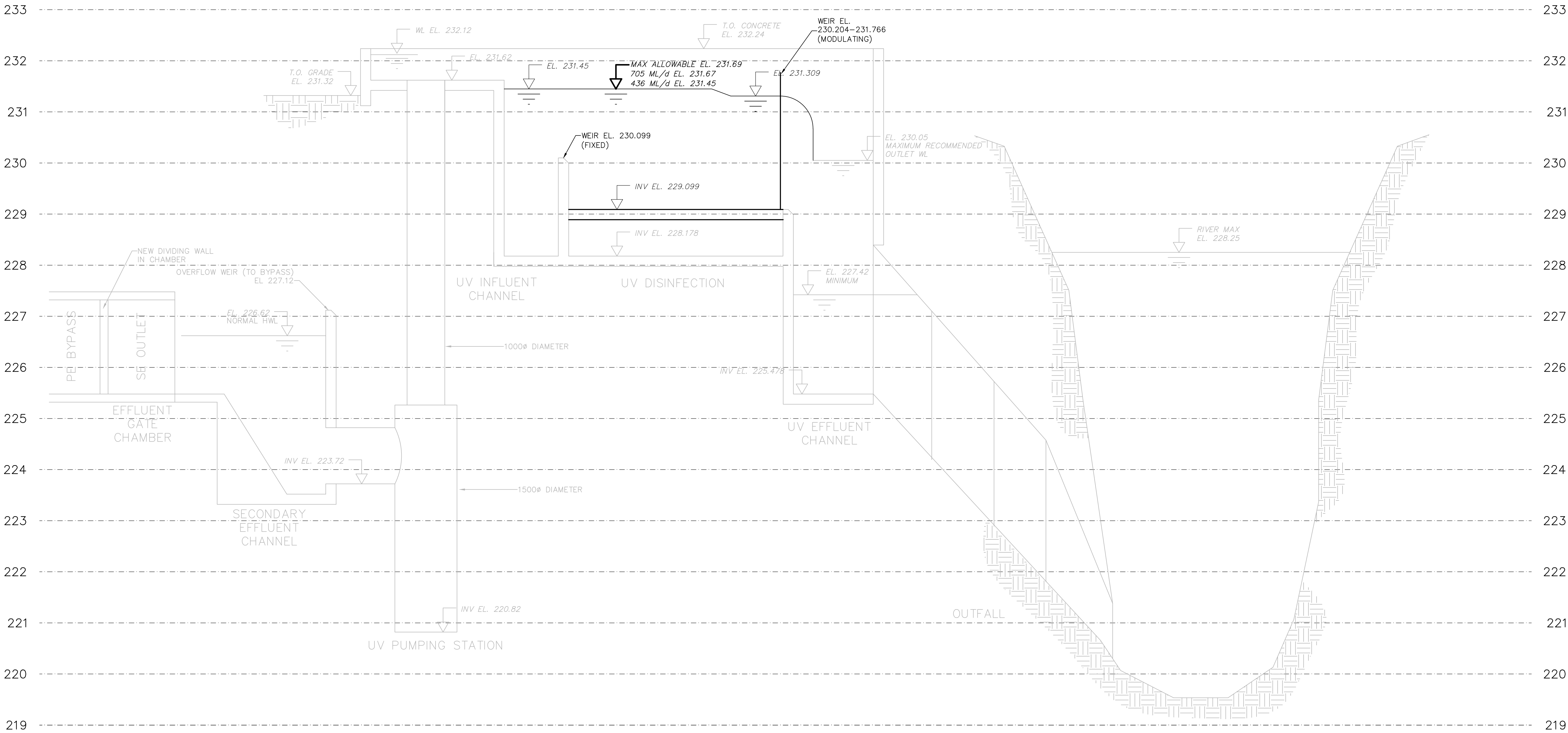


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- NOTES:
- MINIMUM WL AT OUTFALL INLET IS LEVEL IMPOSED BY OUTFALL GEOMETRY TO CONVEY 380 ML/d.
 - MAXIMUM RIVER LEVEL SHOWN IS MAXIMUM RIVER LEVEL AT WHICH DISINFECTION CAN FUNCTION.

REVISION 03 CHANGES THE ENGINEER'S DESIGN RESPONSIBILITIES ARE LIMITED TO THE CHANGES INDICATED IN THE CLOUDED WORK			
DESIGNED BY:	CGL	CHECKED BY:	PB
DRAWN BY:	MM	APPROVED BY:	NW
DATE:	2025-02-26	RELEASED FOR CONSTR. DATE:	



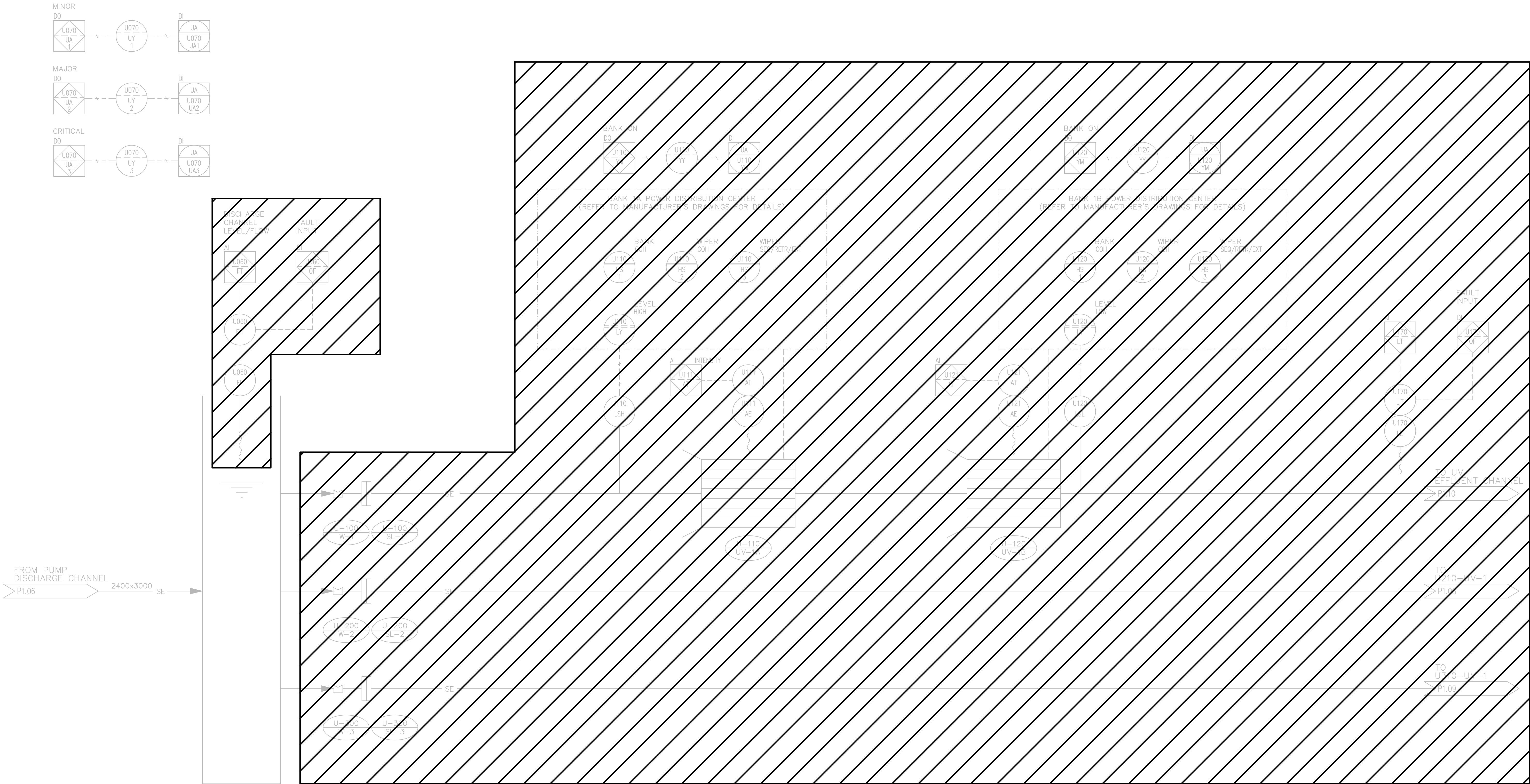
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02	AS-CONSTRUCTED DRAWING	08/10/16	CGL	DT
01	ISSUED FOR CONSTRUCTION	05/06/08	CGL	DT
00	ISSUED FOR TENDER	05/02/18	CGL	DT

AECOM	
DESIGNED BY:	CGL
CHECKED BY:	DT
DRAWN BY:	KJW
APPROVED BY:	DT
SCALE:	NONE
DATE:	2023-07-24
RELEASED FOR CONSTRUCTION BY:	
DATE:	
CONSULTANT NO.:	66303D-CP1.02



TENDER NO. 30-2025			
THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT			
NEWPCC - SECONDARY EFFLUENT UV DISINFECTION FACILITY PROCESS HYDRAULIC PROFILE @ 380 ML / d			
CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0101U-P0002-001-02	-	03	A1

LAST SAVE: 2025/02/03 8:20 AM
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UV MODULE 1A & 1B

TYPE: MEDIUM PRESSURE HIGH INTENSITY
BANKS: 2
NO OF LAMPS: 168 PER BANK
CAPACITY: 143 ML/d
HEADLOSS @ MAX FLOW: 260 mm

REVISION 04 CHANGES THE ENGINEER'S DESIGN RESPONSIBILITIES ARE LIMITED TO THE CHANGES INDICATED IN THE CLOUDED WORK			
DESIGNED BY:	IG	CHECKED BY:	PB
DRAWN BY:	MM	APPROVED BY:	NW
DATE:	2025-02-26	RELEASED FOR CONSTR. DATE:	



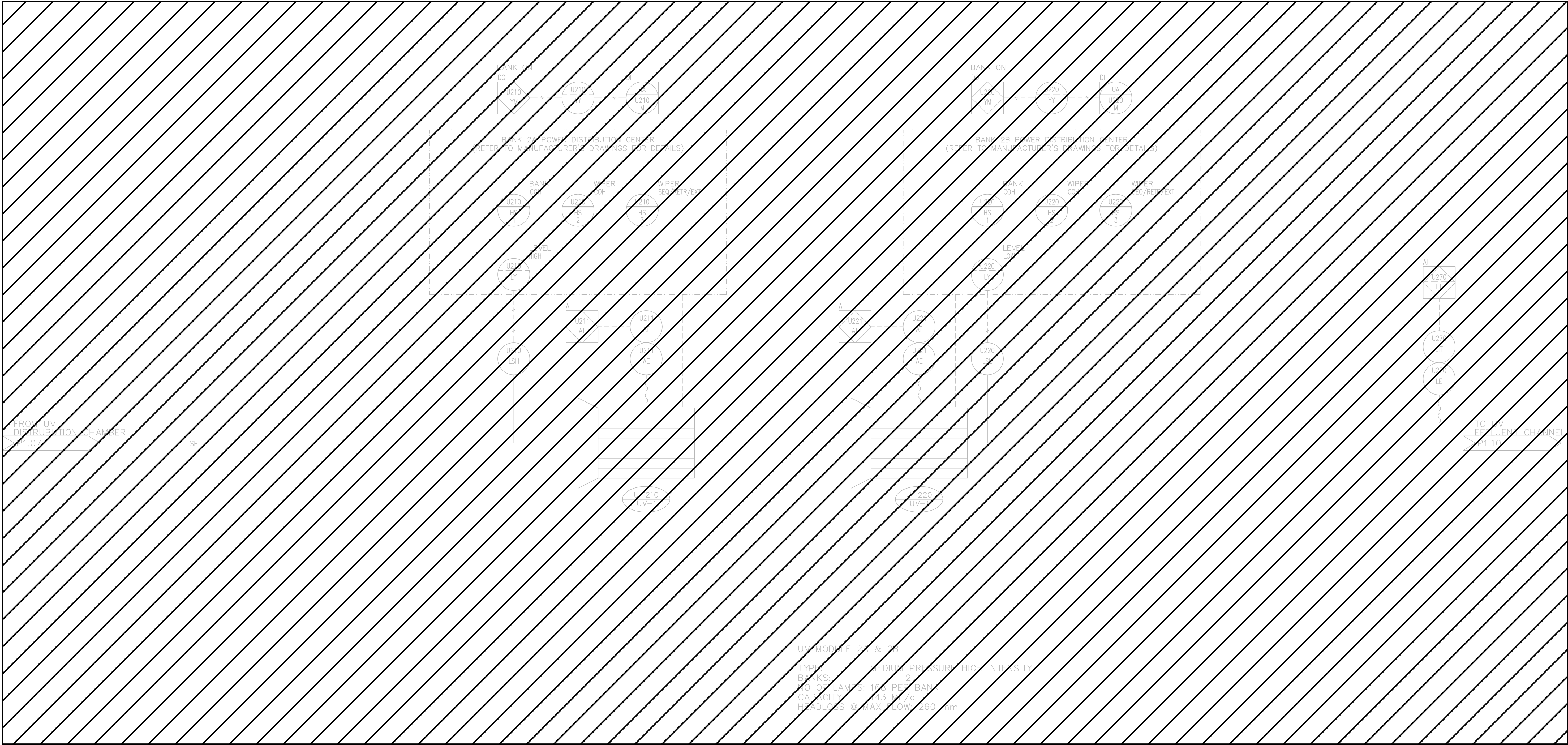
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03	AS-CONSTRUCTED DRAWING	08/10/16	CGL	DT
02	ISSUED FOR CONSTRUCTION	05/06/08	CGL	DT
01	ISSUED FOR ADDENDUM 1	05/03/11	CGL	DT
00	ISSUED FOR TENDER	05/02/18	CGL	DT

AECOM	
DESIGNED BY: CGL	CHECKED BY: DT
DRAWN BY: JD	APPROVED BY: DT
SCALE: NONE	RELEASED FOR CONSTRUCTION BY: T. KJARTANSON
DATE: 2023-07-24	DATE: 2005-02-18
CONSULTANT NO.: 66303D-CP1.07	



TENDER NO. 30-2025			
THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT			
NEWPCC - SECONDARY EFFLUENT UV DISINFECTION FACILITY PROCESS UV CHANNEL 1 - MODULES 110 / 120			
CITY DRAWING NUMBER 1-0101U-P0007-001-03	SHEET -	REV. 04	SIZE A1

LAST SAVE: 2025/02/03 8:45 AM
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UV MODULE 21 & 22
TYPE: MEDIUM PRESSURE HIGH INTENSITY
BANKS: 2
NO. OF LAMPS: 168 PER BANK
CAPACITY: 143 M³/d
HEADLOSS @ MAX FLOW: 260 mm

REVISION 03 CHANGES THE ENGINEER'S DESIGN RESPONSIBILITIES ARE LIMITED TO THE CHANGES INDICATED IN THE CLOUDED WORK			
DESIGNED BY:	IG	CHECKED BY:	PB
DRAWN BY:	MM	APPROVED BY:	NW
DATE:	2025-02-26	RELEASED FOR CONSTR. DATE:	

Certificate of Authorization
AECOM Canada ULC
No. 4671

NO.	REVISIONS	DATE	DESIGN	CHECK
03	ISSUED FOR TENDER	2025-02-26	IG	PB
02	AS-CONSTRUCTED DRAWING	08/10/16	CGL	DT
01	ISSUED FOR CONSTRUCTION	05/06/08	CGL	DT
00	ISSUED FOR TENDER	05/02/18	CGL	DT

DESIGNED BY: CGL	CHECKED BY: DT
DRAWN BY: KJW	APPROVED BY: DT
SCALE: NONE	RELEASED FOR CONSTRUCTION BY: T. KJARTANSON
DATE: 2023-07-24	DATE: 2005-02-18
CONSULTANT NO.: 66303D-CP1.08	

ENGINEER'S SEAL

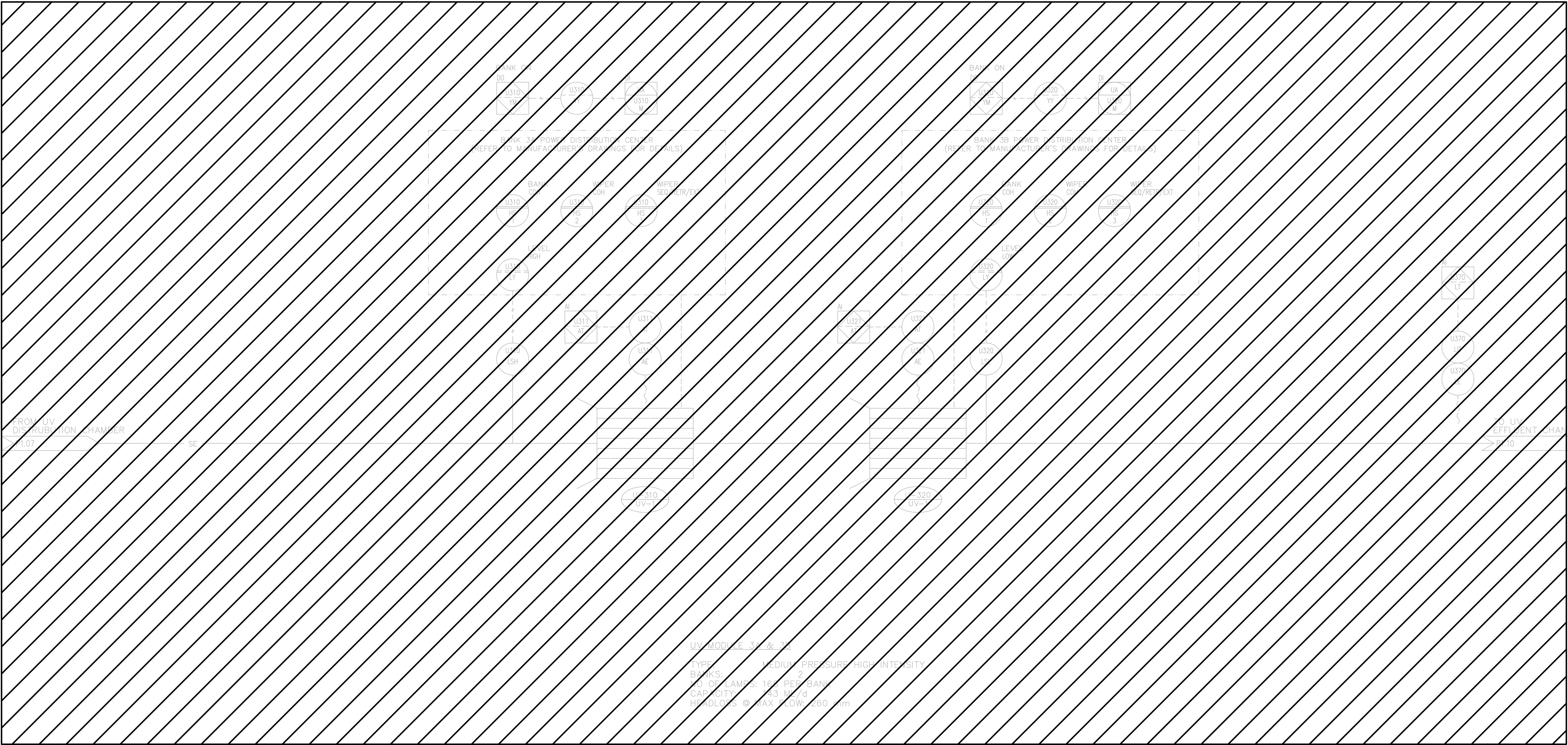
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

NEWPCC - SECONDARY EFFLUENT
UV DISINFECTION FACILITY
PROCESS
UV CHANNEL 2 - MODULES 210 / 220

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0101U-P0008-001-02	-	03	A1

TENDER NO. 30-2025

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UV MODULE 3A & 3B

TYPE: MEDIUM PRESSURE HIGH INTENSITY
BANKS: 2
NO. OF LAMPS: 165 PER BANK
CAPACITY: 143 M³/d
HEADLOSS @ MAX FLOW: 260 mm

REVISION 03 CHANGES THE ENGINEER'S DESIGN RESPONSIBILITIES ARE LIMITED TO THE CHANGES INDICATED IN THE CLOUDED WORK			
DESIGNED BY:	IG	CHECKED BY:	PB
DRAWN BY:	MM	APPROVED BY:	NW
DATE:	2025-02-26	RELEASED FOR CONSTR. DATE:	



Certificate of Authorization
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NO.	REVISIONS	DATE	DESIGN	CHECK
03	ISSUED FOR TENDER	2025-02-26	IG	PB
02	AS-CONSTRUCTED DRAWING	08/10/16	CGL	DT
01	ISSUED FOR CONSTRUCTION	05/06/08	CGL	DT
00	ISSUED FOR TENDER	05/02/18	CGL	DT



DESIGNED BY: CGL	CHECKED BY: DT
DRAWN BY: KJW	APPROVED BY: DT
SCALE: NONE	RELEASED FOR CONSTRUCTION BY: T. KJARTANSON
DATE: 2023-07-24	DATE: 2005-02-18
CONSULTANT NO.: 66303D-CP1.09	

ENGINEER'S SEAL



TENDER NO. 30-2025

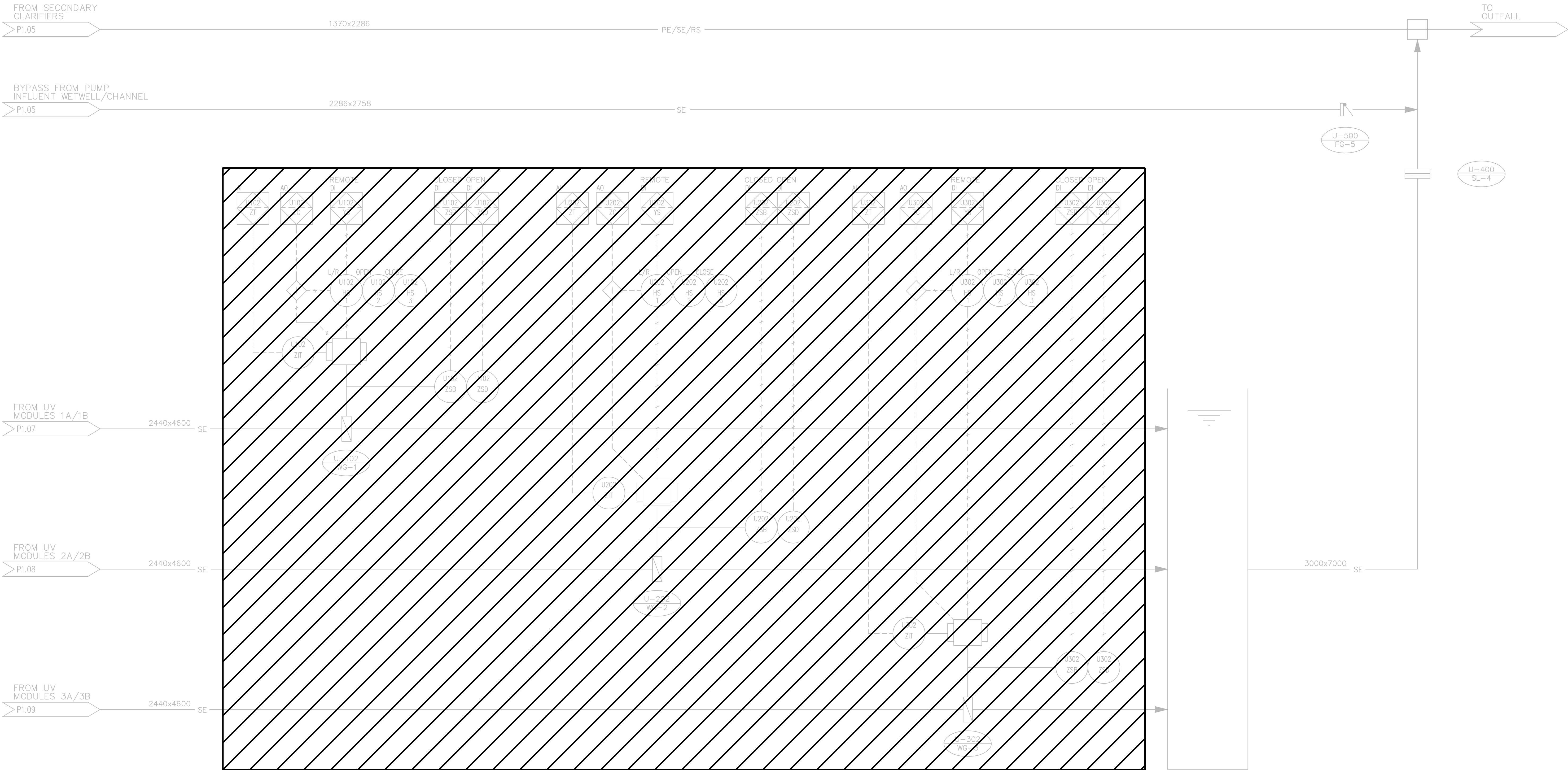


THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

NEWPCC - SECONDARY EFFLUENT
UV DISINFECTION FACILITY
PROCESS
UV CHANNEL 3 - MODULES 310 / 320

CITY DRAWING NUMBER	SHEET	REV.	SIZE
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REVISION 04 CHANGES
THE ENGINEER'S DESIGN RESPONSIBILITIES
ARE LIMITED TO THE CHANGES INDICATED
IN THE CLOUDED WORK

DESIGNED BY:	IG	CHECKED BY:	PB
DRAWN BY:	MM	APPROVED BY:	NW
DATE:	2025-02-26	RELEASED FOR CONSTR. DATE:	

ENGINEERING PROFESSIONALS
MANITOBA
Certificate of Authorization
AECOM Canada ULC
No. 4671

NO.	REVISIONS	DATE	DESIGN	CHECK
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03	AS-CONSTRUCTED DRAWING	08/10/16	CGL	DT
02	ISSUED FOR CONSTRUCTION	05/06/08	CGL	DT
01	ISSUED FOR ADDENDUM 1	05/03/11	CGL	DT
00	ISSUED FOR TENDER	05/02/18	CGL	DT

AECOM

DESIGNED BY: CGL	CHECKED BY: DT
DRAWN BY: JD	APPROVED BY: DT
SCALE: NONE	RELEASED FOR CONSTRUCTION BY: T. KJARTANSON
DATE: 2023-07-24	DATE: 2005-02-18
CONSULTANT NO.: 66303D-CP1.10	



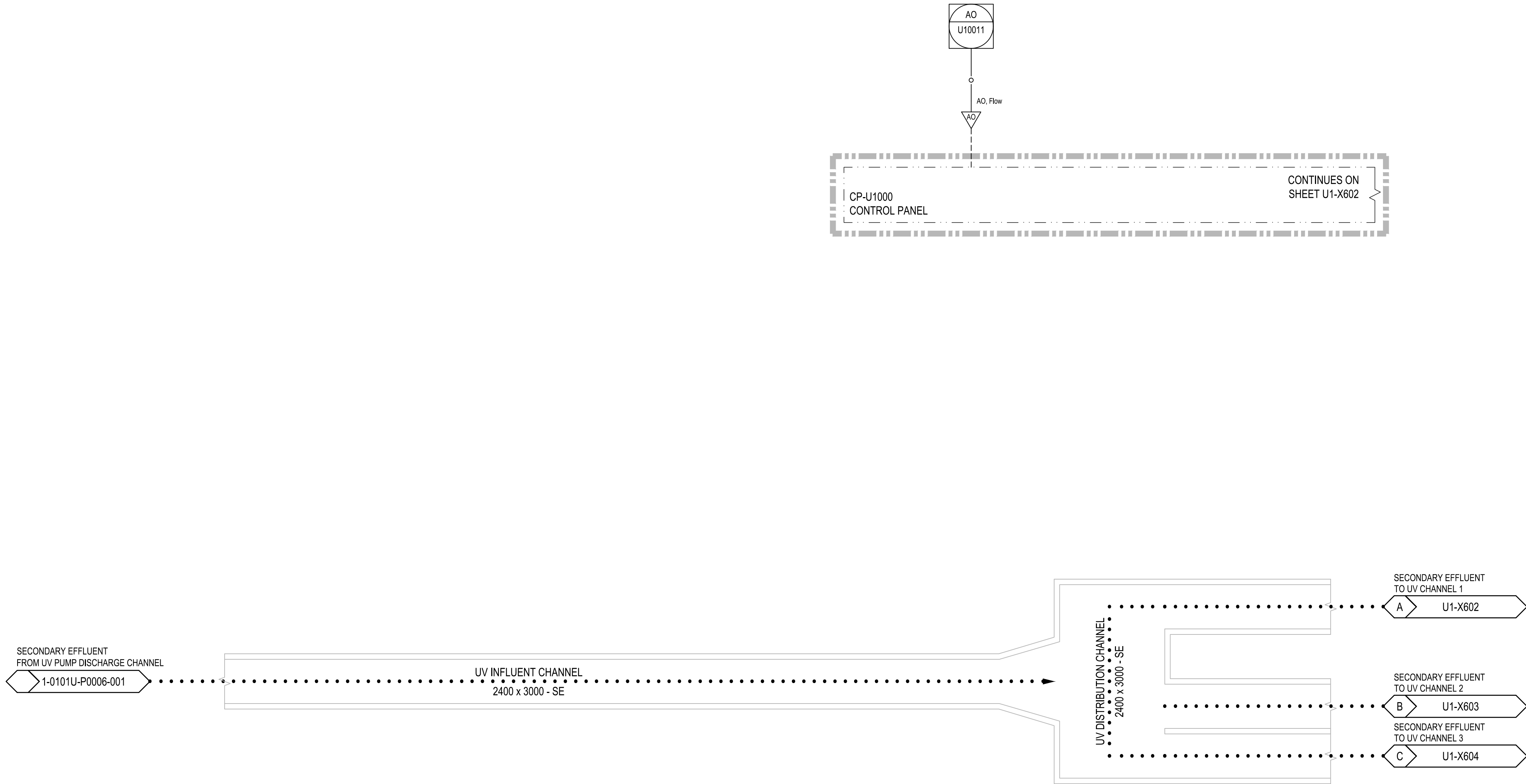
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

NEWPCC - SECONDARY EFFLUENT
UV DISINFECTION FACILITY
PROCESS
UV EFFLUENT CHANNEL

CITY DRAWING NUMBER	SHEET	REV.	SIZE
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TENDER NO. 30-2025

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NO.	REVISIONS	DATE	DESIGN CHECK
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DESIGNED BY: IG		CHECKED BY: PB	
DRAWN BY: MM		APPROVED BY: NW	
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CONSULTANT NO.:		U1-X601	



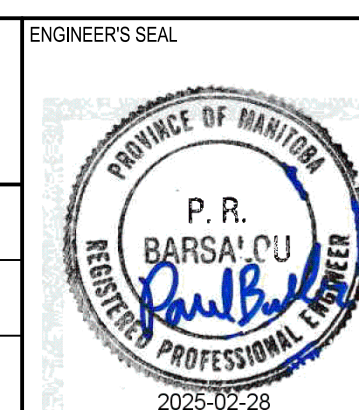
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THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT			
NORTH END SEWAGE TREATMENT PLANT NEWPCC UV UPGRADES PROCESS & INSTRUMENTATION DIAGRAM UV DISINFECTION FACILITY UV INFLUENT CHANNEL			
CITY DRAWING NUMBER		SHEET	REV. SIZE
		-	00 A1



**ES ENGINEERS
GEO-SCIENTISTS
MANITOKA**
Certificate of Authorization
AECOM Canada ULC
No. 4671

00	ISSUED FOR TENDER	2025-02-26	IG	PI
NO.	REVISIONS	DATE	DESIGN	CHE

	
DESIGNED BY:	CHECKED BY:
IG	PB
DRAWN BY:	APPROVED BY:
MM	NW
SCALE:	RELEASED FOR CONSTRUCTION
NTS	BY:
DATE:	DATE:
2023-07-24	
CONSULTANT NO.:	



 THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT			
NORTH END SEWAGE TREATMENT PLANT NEWPCC UV UPGRADES PROCESS & INSTRUMENTATION DIAGRAM UV DISINFECTION FACILITY UV CHANNEL 1			
CITY DRAWING NUMBER	SHEET -	REV. 00	SIZE A1



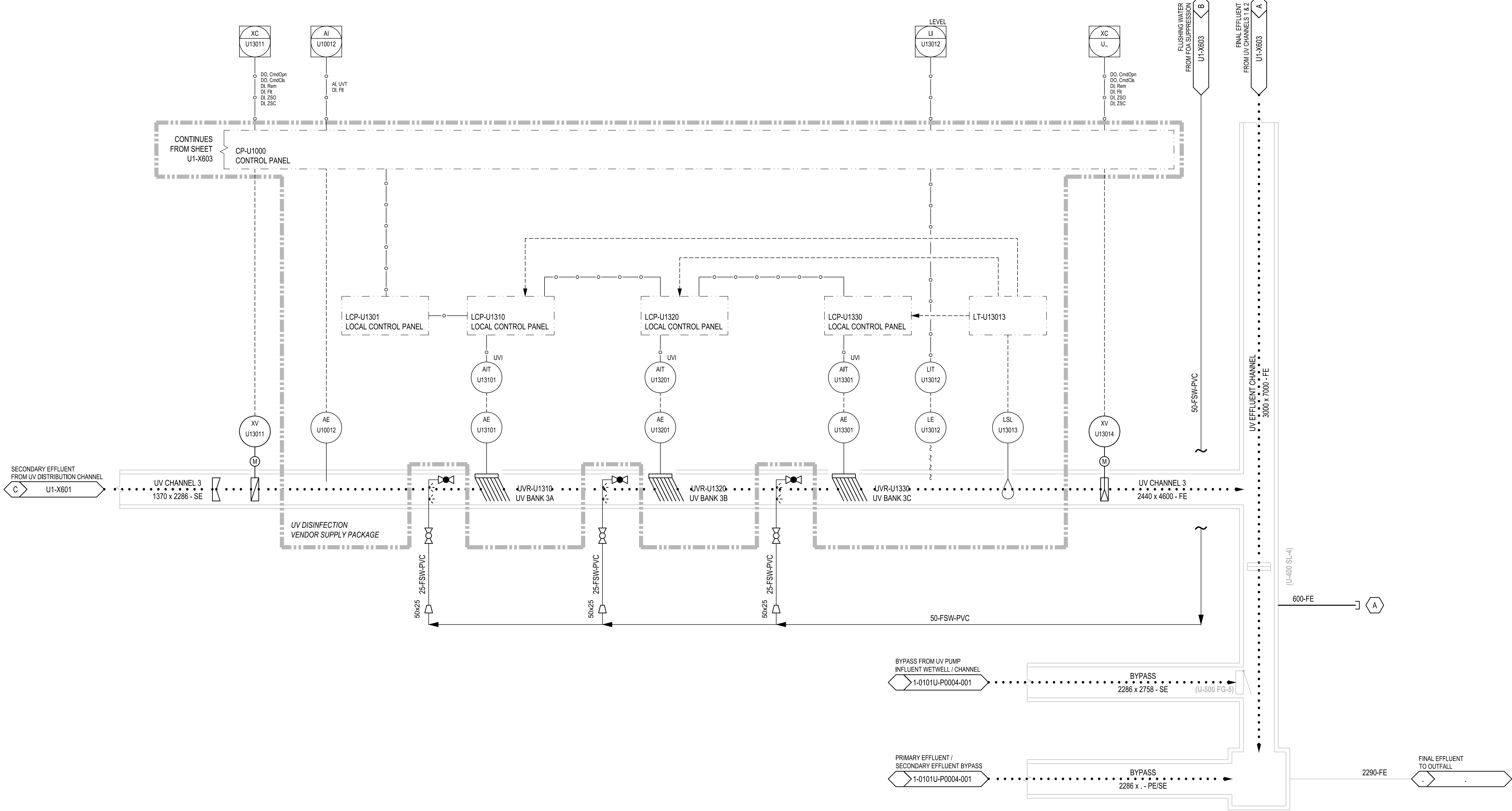
**ENGINEERING
GEOSCIENTISTS
MANITOA**

Certificate of Authorization

AECOM Canada ULC

No. 4671

										AECOM		ENGINEER'S SEAL 		THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT							
														NORTH END SEWAGE TREATMENT PLANT NEW/PCC UV UPGRADES PROCESS & INSTRUMENTATION DIAGRAM UV DISINFECTION FACILITY UV CHANNEL 2							
00		ISSUED FOR TENDER				2025-02-26		IG		PB		CITY DRAWING NUMBER				SHEET		REV.		SIZE	
NO.		REVISIONS				DATE		DESIGN		CHECK		CONSULTANT NO.: U1-X603				-		00		A1	



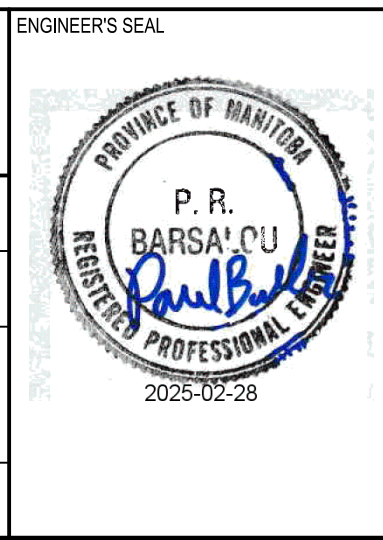
KEYNOTES:
A. FINAL EFFLUENT PIPING INSTALLED FOR FUTURE CONNECTION TO FUTURE FLUSHING WATER FACILITY.

GENERAL NOTES:
1. SEE MANUFACTURER'S DRAWINGS FOR COMPREHENSIVE LIST OF FEATURES & I/O.



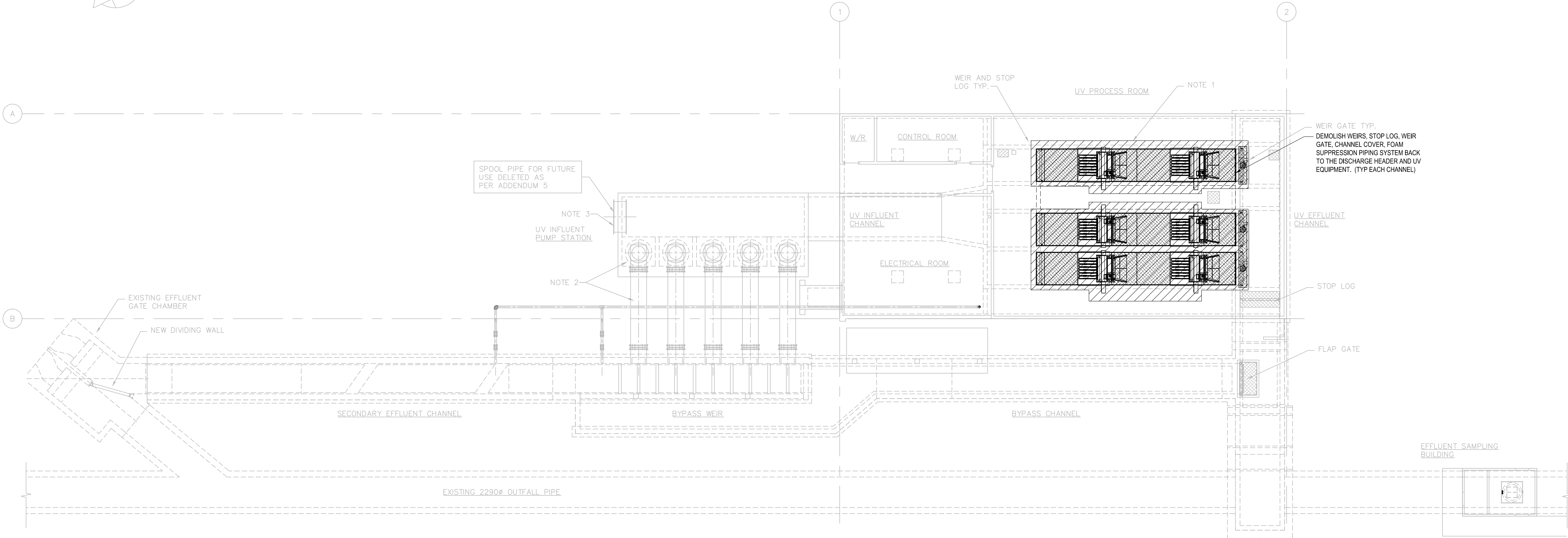
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DATE: 2023-07-24		DATE:	
CONSULTANT NO.:		U1-X604	



TENDER NO. 30-2025			
THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT			
NORTH END SEWAGE TREATMENT PLANT NEWPCC UV UPGRADES PROCESS & INSTRUMENTATION DIAGRAM UV DISINFECTION FACILITY UV CHANNEL 3			
CITY DRAWING NUMBER	SHEET	REV.	SIZE
	-	00	A1

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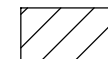
GENERAL ARRANGEMENT
SCALE 1:150

NOTES

- UV MODULES PROVIDED BY CITY, INSTALLED BY CONTRACTOR.
- SEE PUMP GENERAL ARRANGEMENT DRAWING CP1.05 AND MANUFACTURER'S DETAILS. PUMPS, INTERCONNECTING PIPING AND COUPLINGS SUPPLIED BY CITY, INSTALLED BY CONTRACTOR.
- 2230Ø BLIND SPOOL FOR FUTURE EXPANSION PROVIDED AND INSTALLED BY CONTRACTOR.
- REMOVE ANY CABLES, CONDUITS AND WIRING ALL THE WAY FROM EQUIPMENT TO SOURCE.

SPOOL PIPE FOR FUTURE
USE DELETED AS
PER ADDENDUM 5

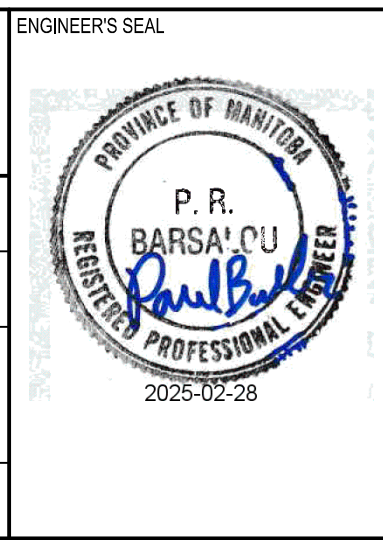
LEGEND

 TO BE DEMOLISHED



REVISIONS			
NO.	REVISIONS	DATE	DESIGN CHECK
00	ISSUED FOR TENDER	2025-02-26	IG PB

AECOM	
DESIGNED BY: IG	CHECKED BY: PB
DRAWN BY: ES	APPROVED BY: NW
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DATE: 2023-07-24	DATE:
CONSULTANT NO.:	UD-P101



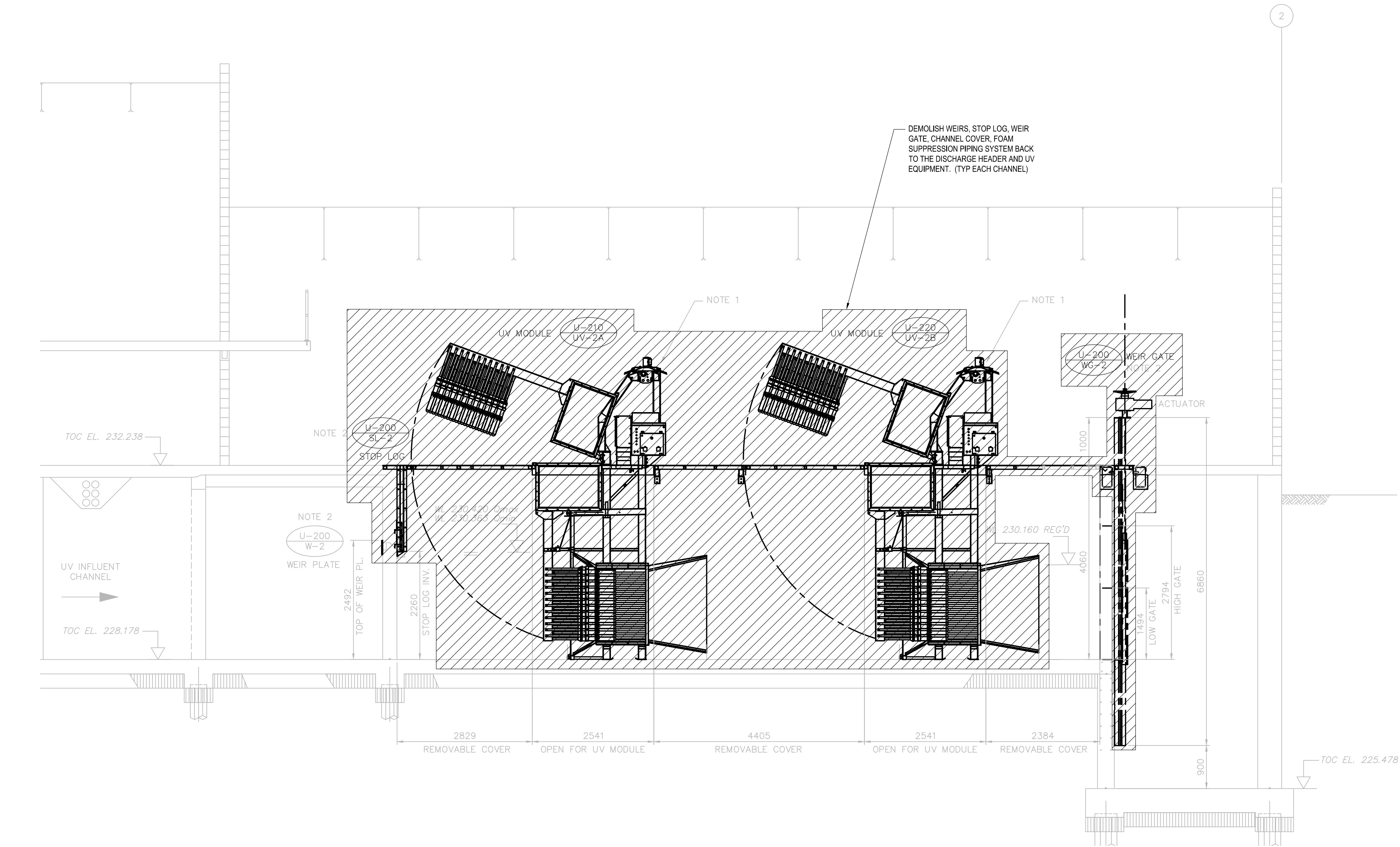
THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT			
NORTH END SEWAGE TREATMENT PLANT NEWPCC UV UPGRADES PROCESS MECHANICAL EXISTING UV DISINFECTION FACILITY CHANNELS 1 TO 3 - DEMOLITION			
CITY DRAWING NUMBER	SHEET	REV.	SIZE
-	-	00	A1

TENDER NO. 30-2025



SPOOL PIPE FOR FUTURE
USE TO BE DELETED AS
PER ADDENDUM 5

 TO BE DEMOLISHED[illegible]



NOTES

- UV MODULES PROVIDED BY CITY, INSTALLED BY CONTRACTOR. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- USE HILTI HY150 ADHESIVE TYPE SS ANCHORS TO FIX EQUIPMENT TO CONCRETE IN SUBMERGED LOCATIONS.
- EXISTING UV CULVERTS AND MODULE FRAMES ARE ENCASED IN CONCRETE. CONTRACTOR TO REMOVE CONCRETE, CULVERTS AND FRAMES TO MINIMIZE DAMAGE TO EXISTING CHANNEL. COORDINATE WITH UV MANUFACTURER FOR REMOVAL INSTRUCTIONS. REPAIR ALL DAMAGE AS DIRECTED BY THE ENGINEER.
- REMOVE ANY CABLES, CONDUITS AND WIRING ALL THE WAY FROM EQUIPMENT TO SOURCE.

LEGEND

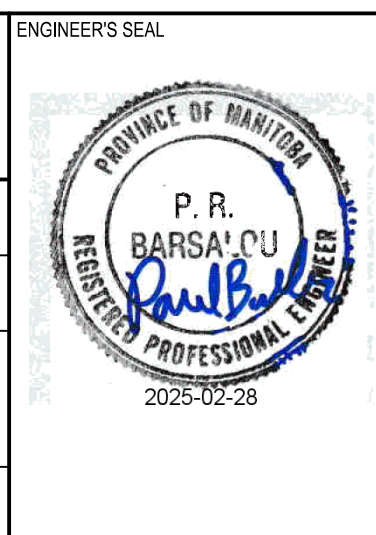
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3 SECTION
P2.02 SCALE 1:50



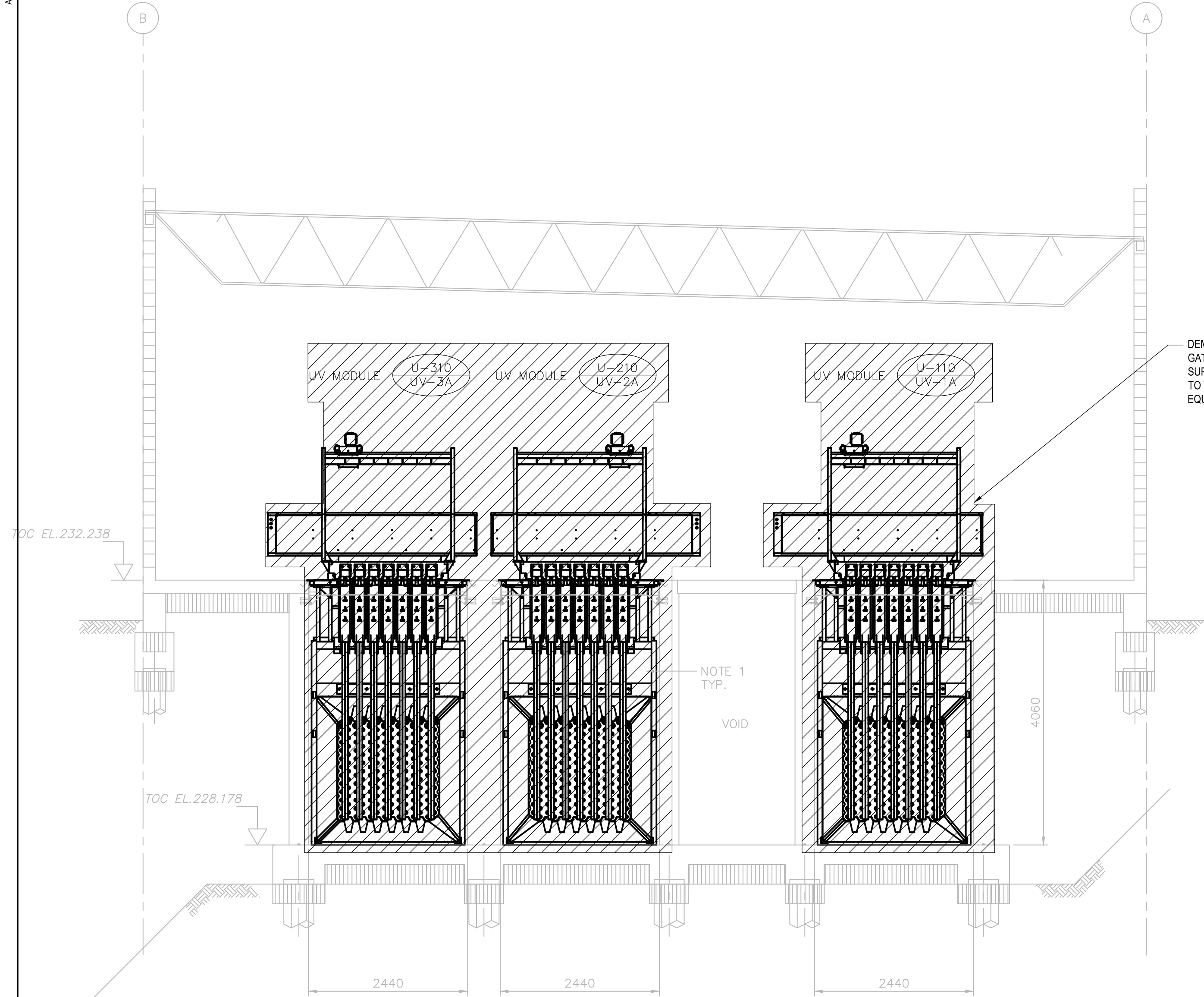
REVISIONS			
NO.	REVISIONS	DATE	DESIGN CHECK
00	ISSUED FOR TENDER	2025-02-26	IG PB

AECOM	
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DRAWN BY: ES	APPROVED BY: NW
SCALE: NONE	RELEASED FOR CONSTRUCTION BY:
DATE: 2023-07-24	DATE:
CONSULTANT NO.:	UD-P301



TENDER NO. 30-2025			
THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT			
NORTH END SEWAGE TREATMENT PLANT NEWPCC UV UPGRADES PROCESS MECHANICAL EXISTING UV DISINFECTION FACILITY OVERALL SECTION - DEMOLITION			
CITY DRAWING NUMBER	SHEET	REV.	SIZE
-	-	00	A1

LAST SAVE: 2025/01/30 10:18 AM
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B SECTION
P2.02 SCALE 1:50

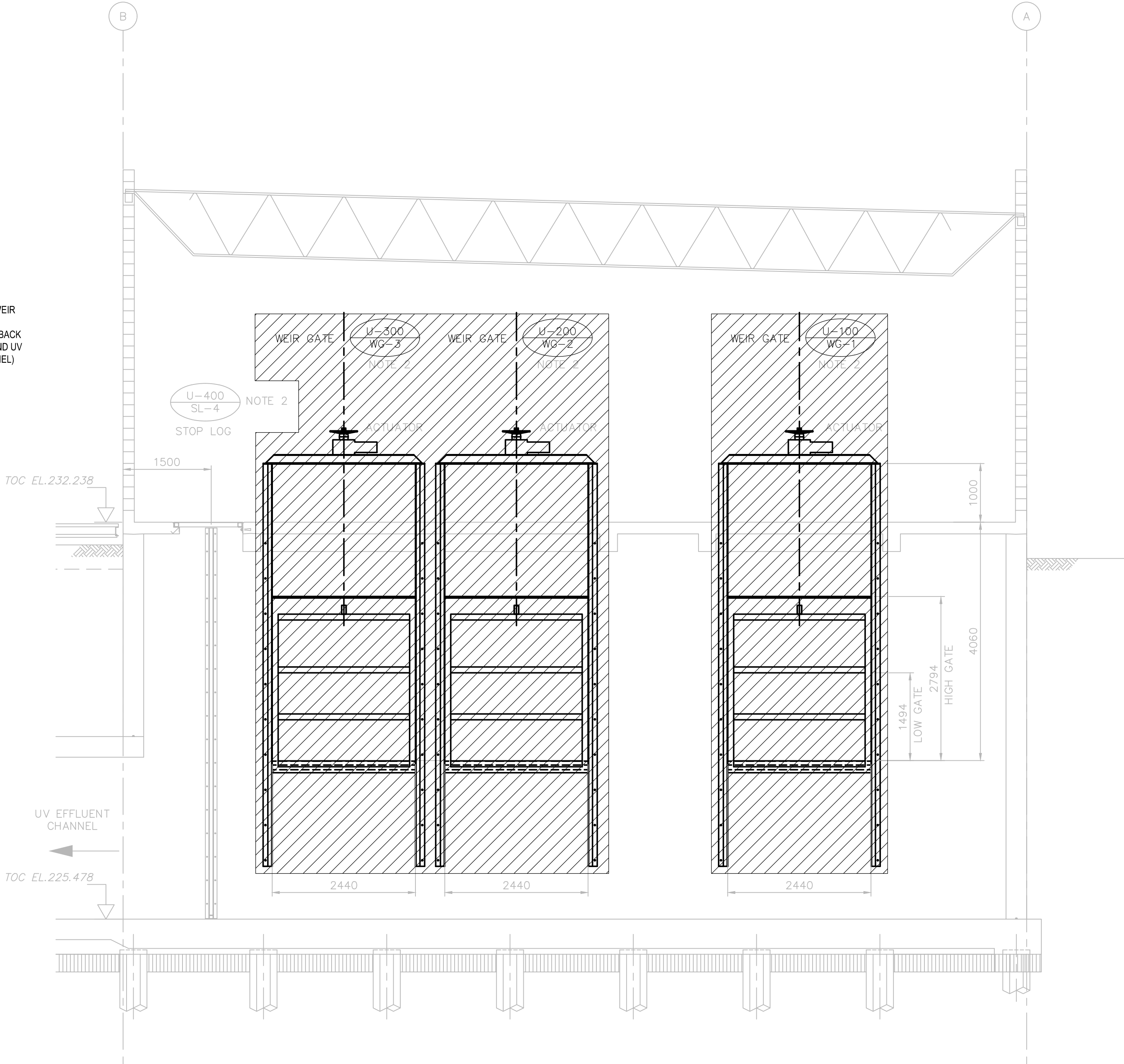
NOTES

- UV MODULES PROVIDED BY CITY, INSTALLED BY CONTRACTOR. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- USE HILTI HY150 ADHESIVE TYPE SS ANCHORS TO FIX EQUIPMENT TO CONCRETE IN SUBMERGED LOCATIONS.
- REMOVE ANY CABLES, CONDUITS AND WIRING ALL THE WAY FROM EQUIPMENT TO SOURCE.

LEGEND

TO BE DEMOLISHED

DEMOLISH WEIRS, STOP LOG, WEIR GATE, CHANNEL COVER, FOAM SUPPRESSION PIPING SYSTEM BACK TO THE DISCHARGE HEADER AND UV EQUIPMENT. (TYP EACH CHANNEL)



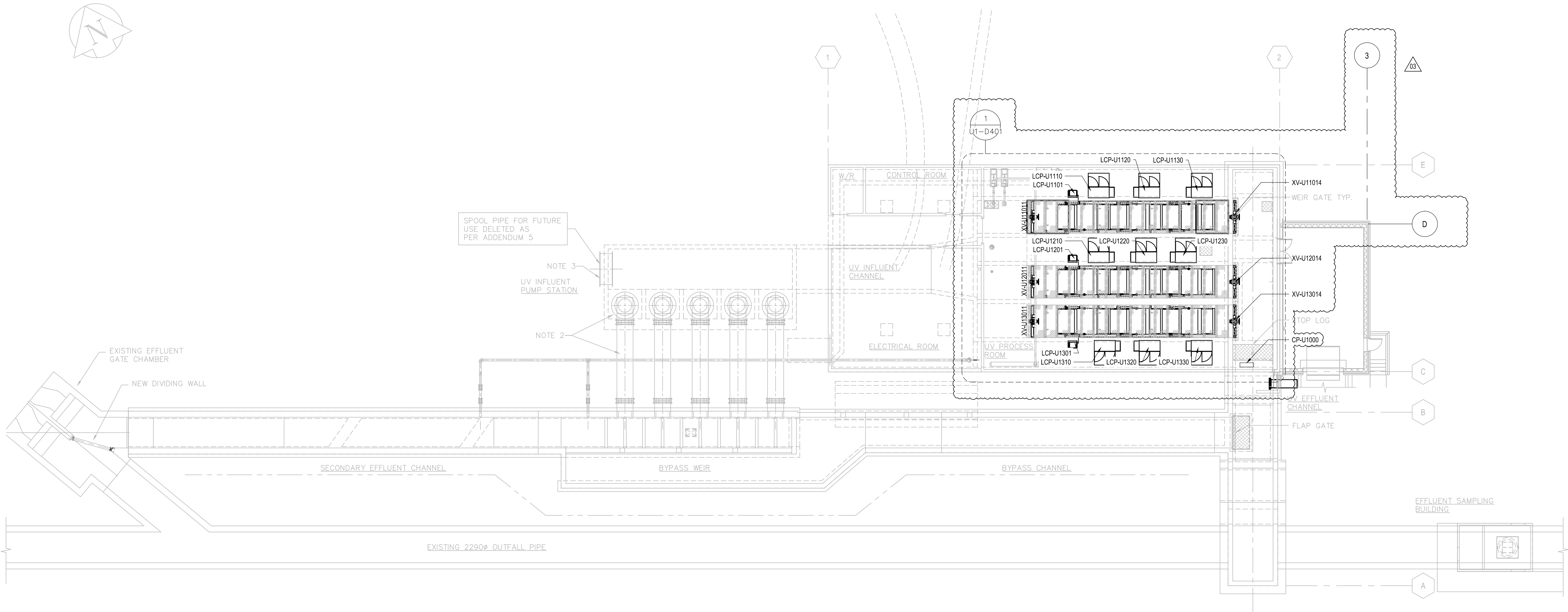
C SECTION
P2.02 SCALE 1:50



DESIGNED BY: IG DRAWN BY: ES SCALE: NONE DATE: 2023-07-24				CHECKED BY: PB APPROVED BY: NW RELEASED FOR CONSTRUCTION BY: DATE:		NORTH END SEWAGE TREATMENT PLANT NEWPCC UV UPGRADES PROCESS MECHANICAL EXISTING UV DISINFECTION FACILITY OVERALL SECTIONS - DEMOLITION	
CONSULTANT NO.: UD-P302				CITY DRAWING NUMBER: -		SHEET: -	REV. 00 SIZE A1

TENDER NO. 30-2025

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GENERAL ARRANGEMENT
SCALE 1:150

NOTES

- UV MODULES PROVIDED BY CITY, INSTALLED BY CONTRACTOR.
- SEE PUMP GENERAL ARRANGEMENT DRAWING CP1.05 AND MANUFACTURER'S DETAILS. PUMPS, INTERCONNECTING PIPING AND COUPLINGS SUPPLIED BY CITY, INSTALLED BY CONTRACTOR.
- 2230Ø BLIND SPOOL PIPE FOR FUTURE EXPANSION PROVIDED AND INSTALLED BY CONTRACTOR.

SPOOL PIPE FOR FUTURE
USE DELETED AS
PER ADDENDUM 5

REVISION 03 CHANGES THE ENGINEER'S DESIGN RESPONSIBILITIES ARE LIMITED TO THE CHANGES INDICATED IN THE CLOUDED WORK			
DESIGNED BY:	IG	CHECKED BY:	PB
DRAWN BY:	ES	APPROVED BY:	NW
DATE:	2025-02-26	RELEASED FOR CONSTR. DATE:	



NO.	REVISIONS	DATE	DESIGN	CHECK
03	ISSUED FOR TENDER	2025-02-26	IG	PB
02	AS-CONSTRUCTED DRAWING	08/10/16	CGL	HS
01	ISSUED FOR CONSTRUCTION	05/06/08	CGL	HS
00	ISSUED FOR TENDER	05/02/18	CGL	HS

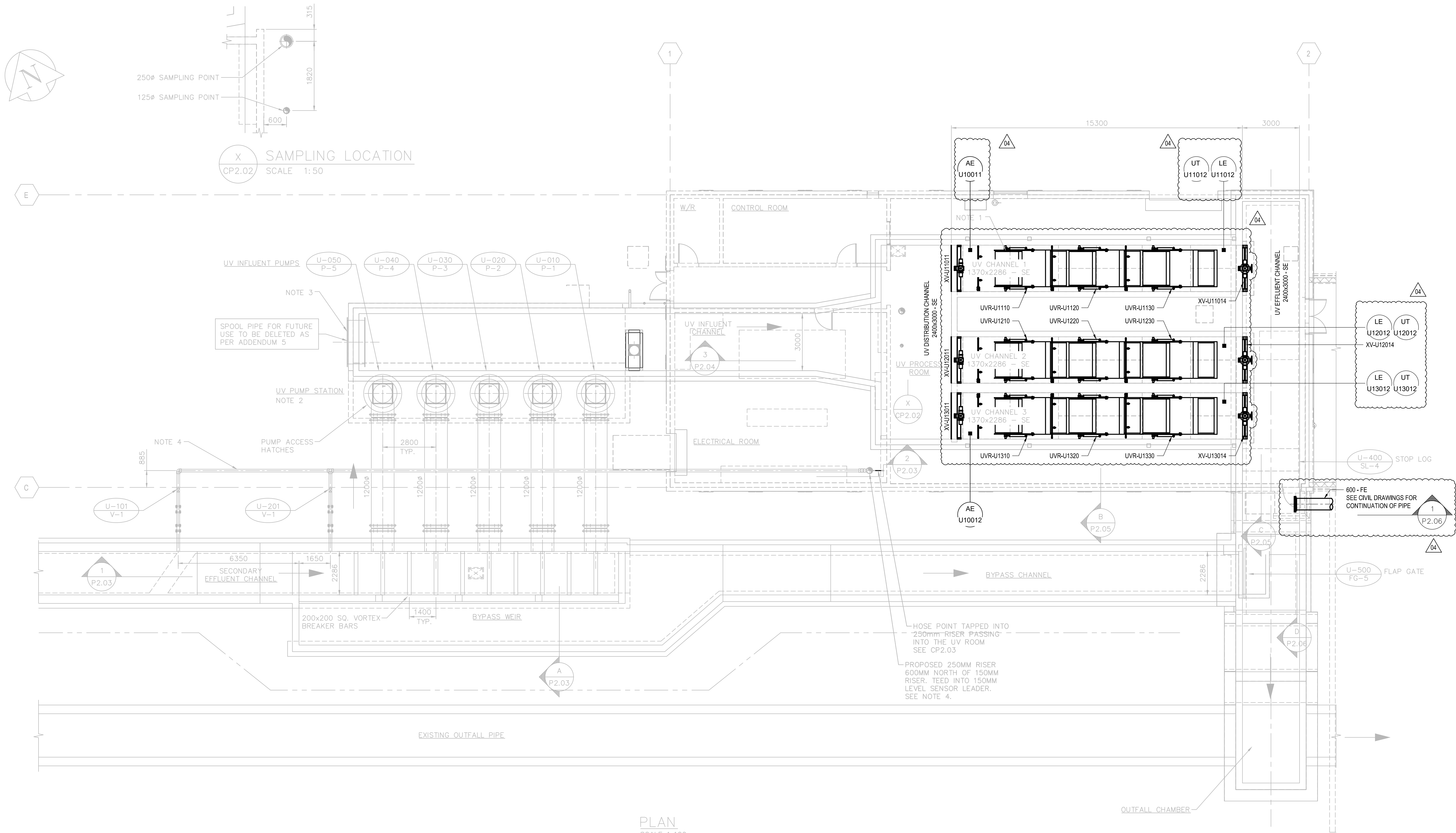
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DRAWN BY:	ES
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DATE:	2023-07-24
CONSULTANT NO.:	66303D-CP2.01



THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT	
NEWPCC - SECONDARY EFFLUENT UV DISINFECTION FACILITY PROCESS PUMP STATION & UV PLAN	
CITY DRAWING NUMBER 1-0101U-P0022-001-02	SHEET - REV. 03 SIZE A1

TENDER NO. 30-2025

LAST SAVE: 2025/02/03 3:56 PM
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PLAN
SCALE 1:100

NOTES

- UV MODULES PROVIDED BY CITY, INSTALLED BY CONTRACTOR.
- SEE PUMP GENERAL ARRANGEMENT DRAWING CP1.05 AND MANUFACTURER'S DETAILS. PUMPS, INTERCONNECTING PIPING AND COUPLINGS SUPPLIED BY CITY, INSTALLED BY CONTRACTOR.
- REFER TO SECTION 11055 FOR PIPE SPOOL SPECIFICATION
- LEVEL SENSOR PIPING SHALL BE 150 mm PVC C900 CONSTRUCTED IN ACCORDANCE WITH CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS SPECIFICATION NUMBER CW2110. PIPE SHALL BE BEDDED TO CLASS B BEDDING REQUIREMENTS WITH TYPE 2 MATERIAL AS SPECIFIED IN CW2030. GATE VALVES SHALL BE AWWA C509 CONFORMING TO CW2110. SUPPLY AND INSTALL VALVES BOXES TO CW2110 STANDARD DETAIL SD-016..

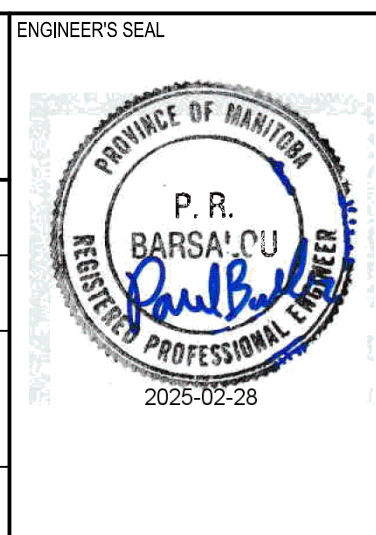
SPOOL PIPE FOR FUTURE
USE TO BE DELETED AS
PER ADDENDUM 5

REVISION 04 CHANGES THE ENGINEER'S DESIGN RESPONSIBILITIES ARE LIMITED TO THE CHANGES INDICATED IN THE CLOUDED WORK			
DESIGNED BY:	IG	CHECKED BY:	PB
DRAWN BY:	ES	APPROVED BY:	NW
DATE:	2025-02-26	RELEASED FOR CONSTR. DATE:	



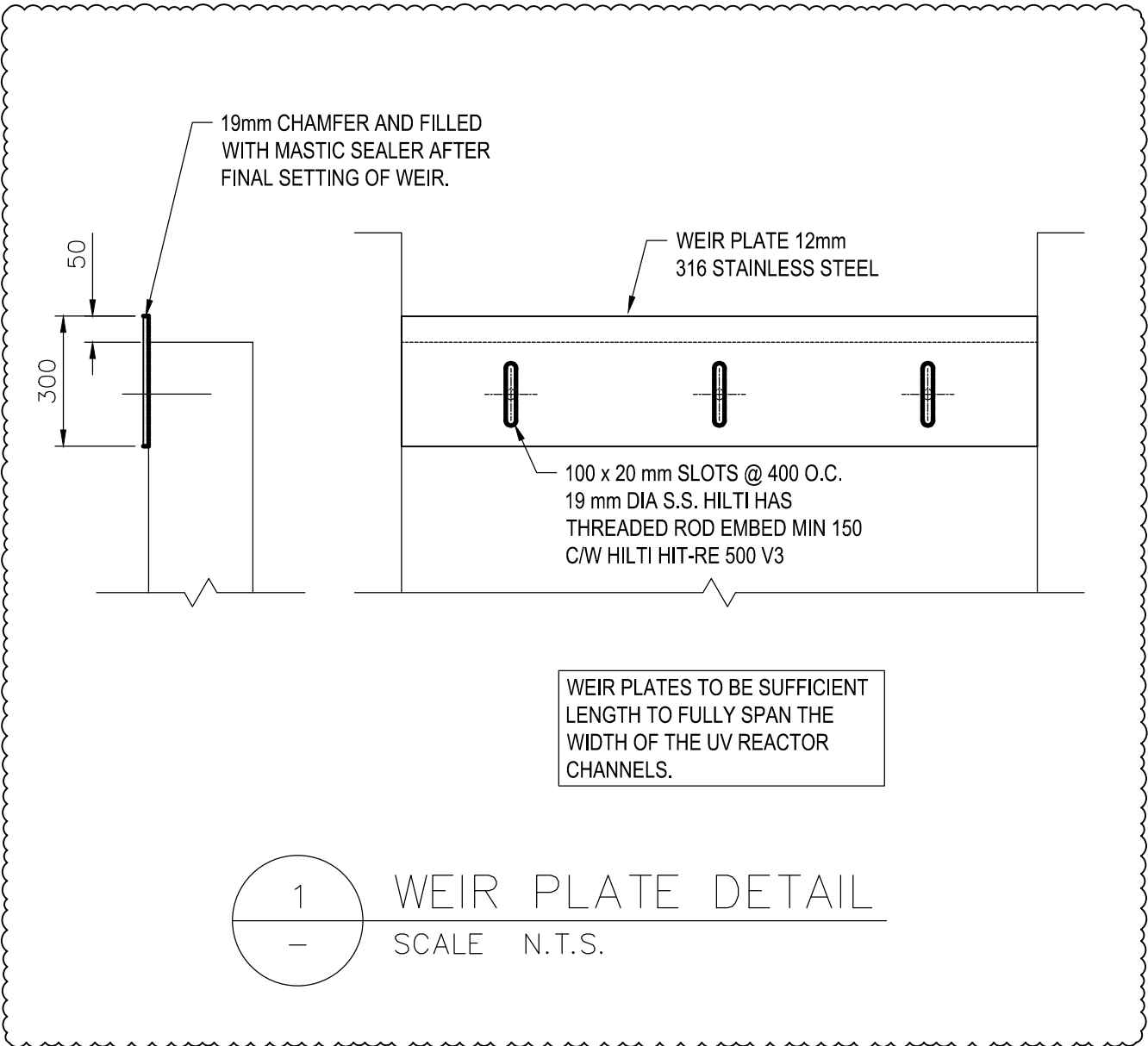
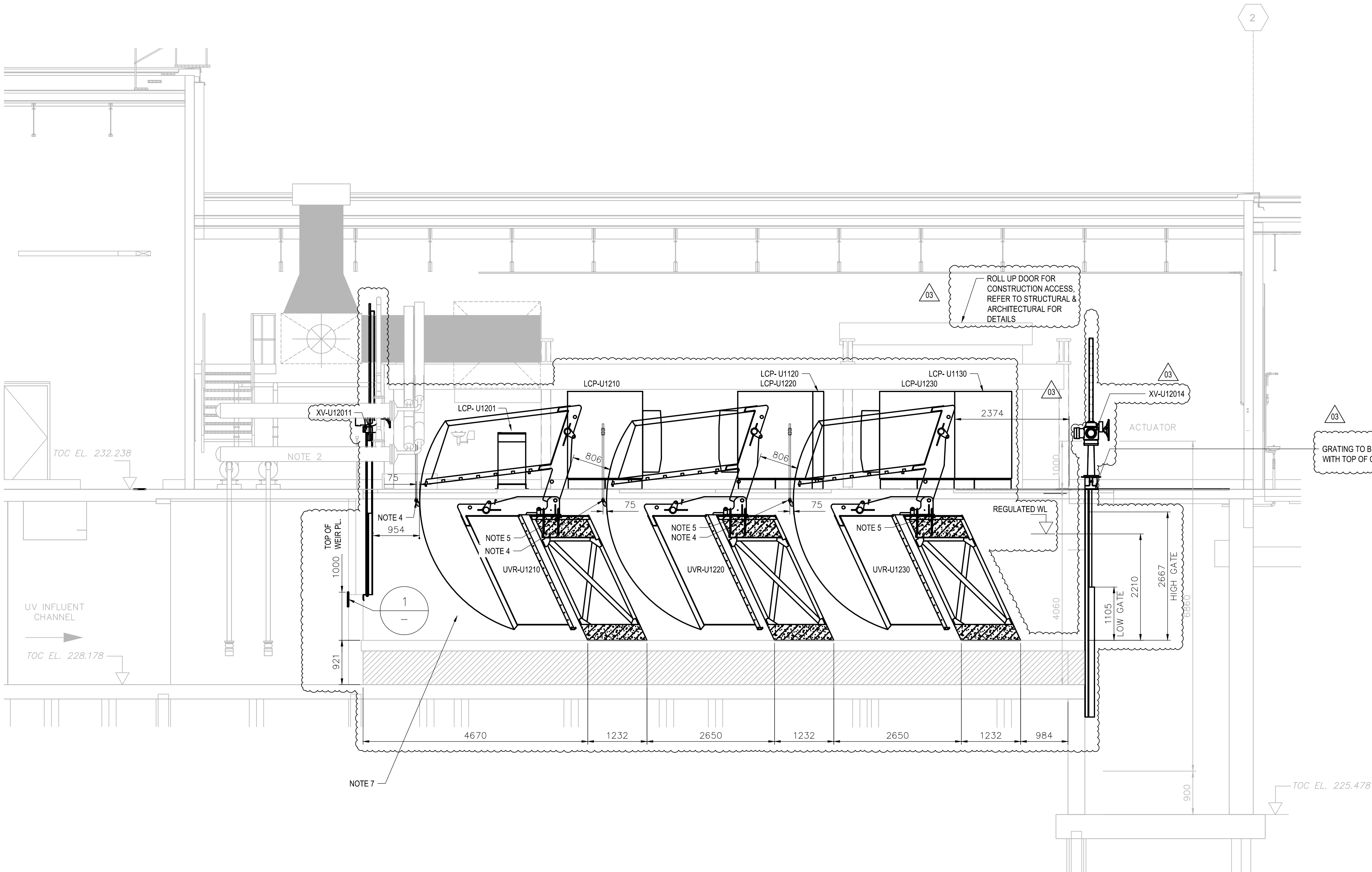
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DESIGNED BY:	IG
CHECKED BY:	PB
DRAWN BY:	ES
APPROVED BY:	NW
SCALE:	NONE
RELEASED FOR CONSTRUCTION BY:	T. KJARTANSON
DATE:	2023-07-24
DATE:	2005-02-18
CONSULTANT NO.:	66303D-CP2.02



TENDER NO. 30-2025			
THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT			
NEWPCC - SECONDARY EFFLUENT UV DISINFECTION FACILITY PROCESS PUMP STATION & UV PLAN			
CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0101U-P0023-001-04	-	04	A1

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NOTES

- UV MODULES PROVIDED BY CITY, INSTALLED BY CONTRACTOR. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- USE HILTI HY150 ADHESIVE TYPE SS ANCHORS TO FIX EQUIPMENT TO CONCRETE IN SUBMERGED LOCATIONS.
- PROVIDE BALL VALVE THAT IS ACCESSIBLE FROM THE PROCESS FLOOR ON EACH DROP LEG TO ISOLATE SPRAY NOZZLES. CONTRACTOR TO FIELD RUN PIPING FROM EXISTING FLUSHING WATER PUMPS.
- 25mm PVC Sch 80 C/W TWO SPIRAL NOZZLES (TYP 3 LOCATIONS ON EACH CHANNEL). SEE U1-D401.
- 4 - 130 HYDRAULIC HOSES SUPPLIED BY UV MANUFACTURER. TO RUN FROM THE HYDRAULIC SYSTEM CENTRES TO EACH OF THE LAMP BANKS AS PER UV MANUFACTURER'S SHOP DRAWINGS. INSTALLATION TO BE PERFORMED BY QUALIFIED TRADESPEOPLE WITH A MINIMUM OF 5 YEARS OF CONTINUOUSLY PERFORMING SIMILAR INDUSTRIAL HYDRAULIC INSTALLATIONS. COORDINATE WITH OTHER DISCIPLINES AS REQUIRED. SUPPORTS FOR HYDRAULIC HOSES TO BE SPACED AS REQUIRED AND APPROVED BY CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION. REFER TO PROCESS DRAWING U1-D401 FOR DETAILS.
- CONTRACTOR TO RELOCATE MISCELLANEOUS ITEMS AS REQUIRED FOR INSTALLATION OF UV SYSTEM. COORDINATE WITH OTHER DISCIPLINES AND CONTRACT ADMINISTRATOR PRIOR TO RELOCATION.
- AFTER REMOVAL OF EXISTING UV REACTORS, MODIFICATION OF THE CONCRETE IN THE CHANNELS, INSTALLATION OF NEW UV LAMP CULVERTS, AND REPAIR OF THE UV CHANNELS, APPLY COATING TO THE CONCRETE SURFACES IN ACCORDANCE WITH SPECIFICATIONS.

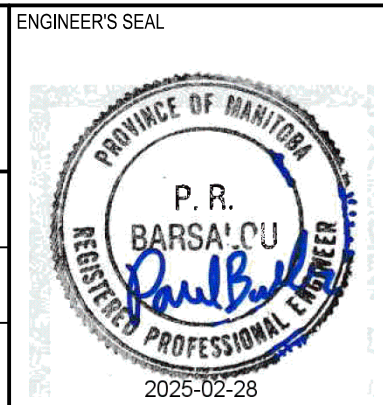
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DRAWN BY:	ES	APPROVED BY:	NW
DATE:	2025-02-26	RELEASED FOR CONSTR. DATE:	



NO.	REVISIONS	DATE	DESIGN	CHECK
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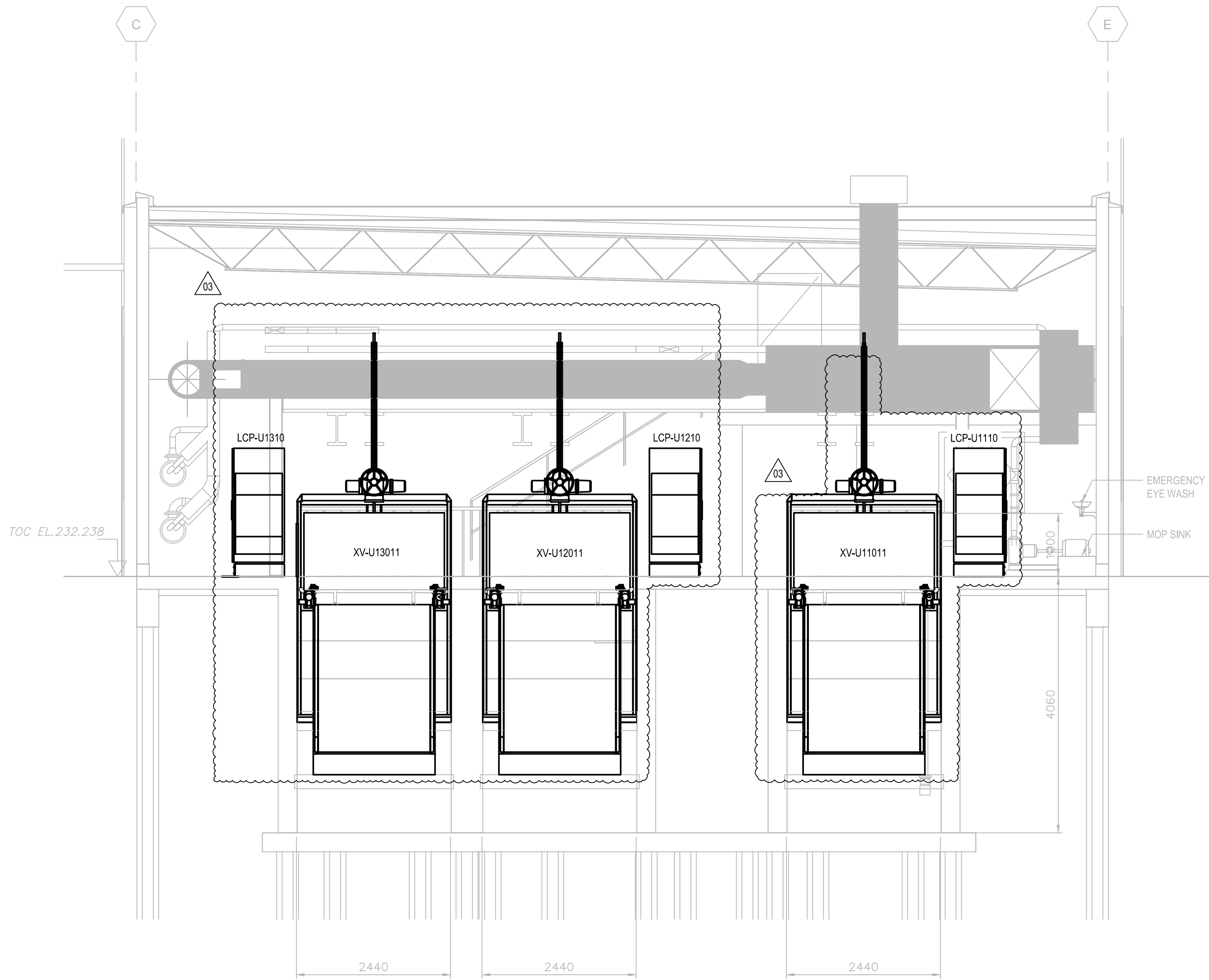
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CONSULTANT NO.:	66303D-CP2.04



THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT	
NEWPCC - SECONDARY EFFLUENT UV DISINFECTION FACILITY PROCESS UV CHANNEL DETAILS	
CITY DRAWING NUMBER 1-0101U-P0025-001-02	SHEET -
REV. 03	SIZE A1

TENDER NO. 30-2025

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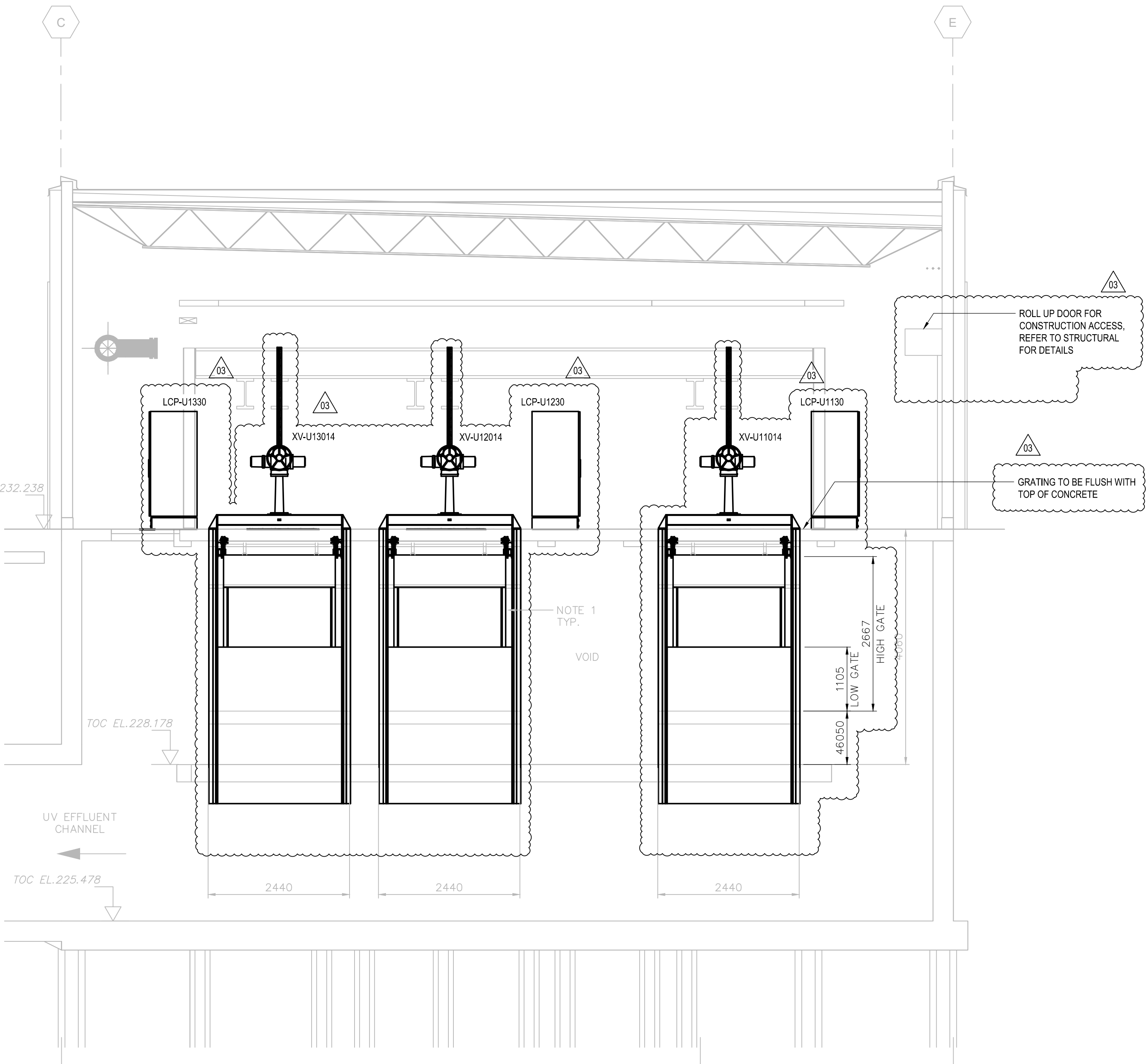


B
SECTION
P2.02 SCALE 1:50

NOTES

- UV MODULES PROVIDED BY CITY, INSTALLED BY CONTRACTOR. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- USE HILTI HY150 ADHESIVE TYPE SS ANCHORS TO FIX EQUIPMENT TO CONCRETE IN SUBMERGED LOCATIONS.

REVISION 03 CHANGES THE ENGINEER'S DESIGN RESPONSIBILITIES ARE LIMITED TO THE CHANGES INDICATED IN THE CLOUDED WORK			
DESIGNED BY:	IG	CHECKED BY:	PB
DRAWN BY:	ES	APPROVED BY:	NW
DATE:	2025-02-26	RELEASED FOR CONSTR. DATE:	



C
SECTION
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00	ISSUED FOR TENDER	05/02/18	CGL	HSB

AECOM

DESIGNED BY: IG	CHECKED BY: PB
DRAWN BY: ES	APPROVED BY: NW
SCALE: NONE	RELEASED FOR CONSTRUCTION BY: T. KJARTANSON
DATE: 2023-07-24	DATE: 2005-02-18
CONSULTANT NO.: 66303D-CP2.05	



THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

NEWPCC - SECONDARY EFFLUENT
UV DISINFECTION FACILITY
PROCESS
UV CHANNEL DETAILS

CITY DRAWING NUMBER
1-0101U-P0026-001-02

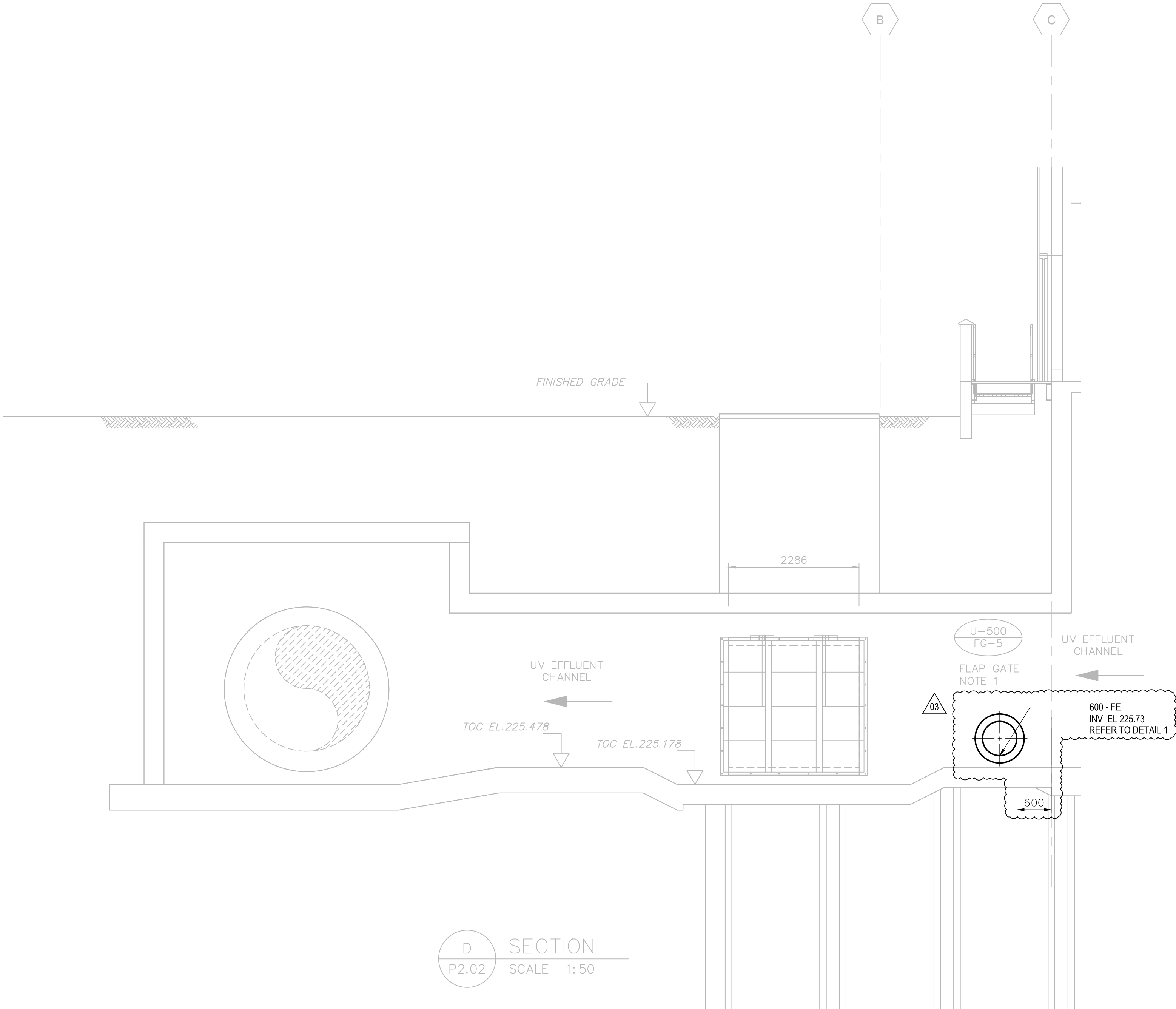
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-

REV.
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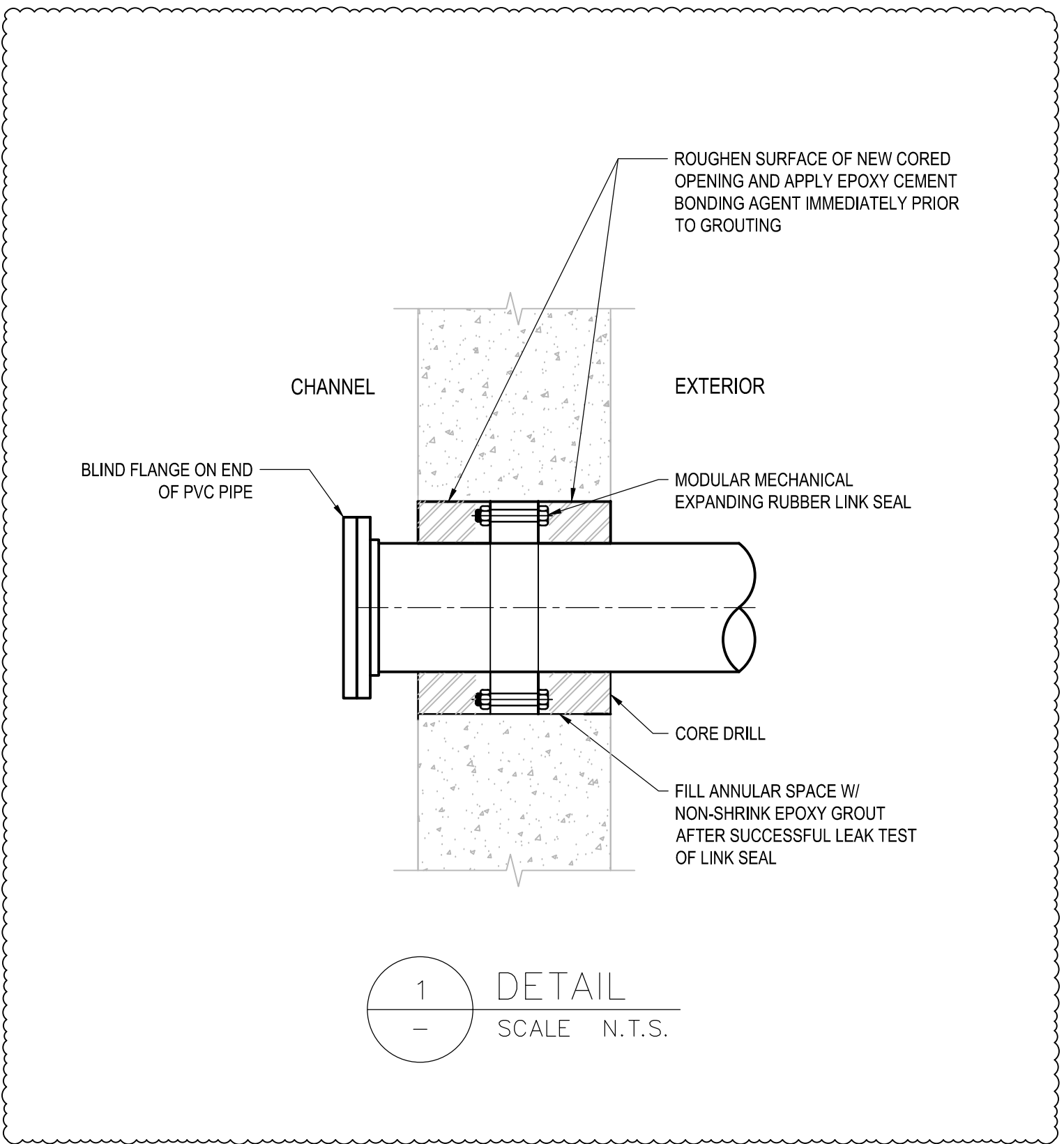
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D SECTION
P2.02 SCALE 1:50



1 DETAIL
- SCALE N.T.S.

NOTES

1. USE HILTI HY150 ADHESIVE TYPE SS ANCHORS TO FIX EQUIPMENT TO CONCRETE IN SUBMERGED LOCATIONS.

REVISION 03 CHANGES			
THE ENGINEER'S DESIGN RESPONSIBILITIES ARE LIMITED TO THE CHANGES INDICATED IN THE CLOUDED WORK			
DESIGNED BY:	IG	CHECKED BY:	PB
DRAWN BY:	ES	APPROVED BY:	NW
DATE:	2025-02-26	RELEASED FOR CONSTR. DATE:	



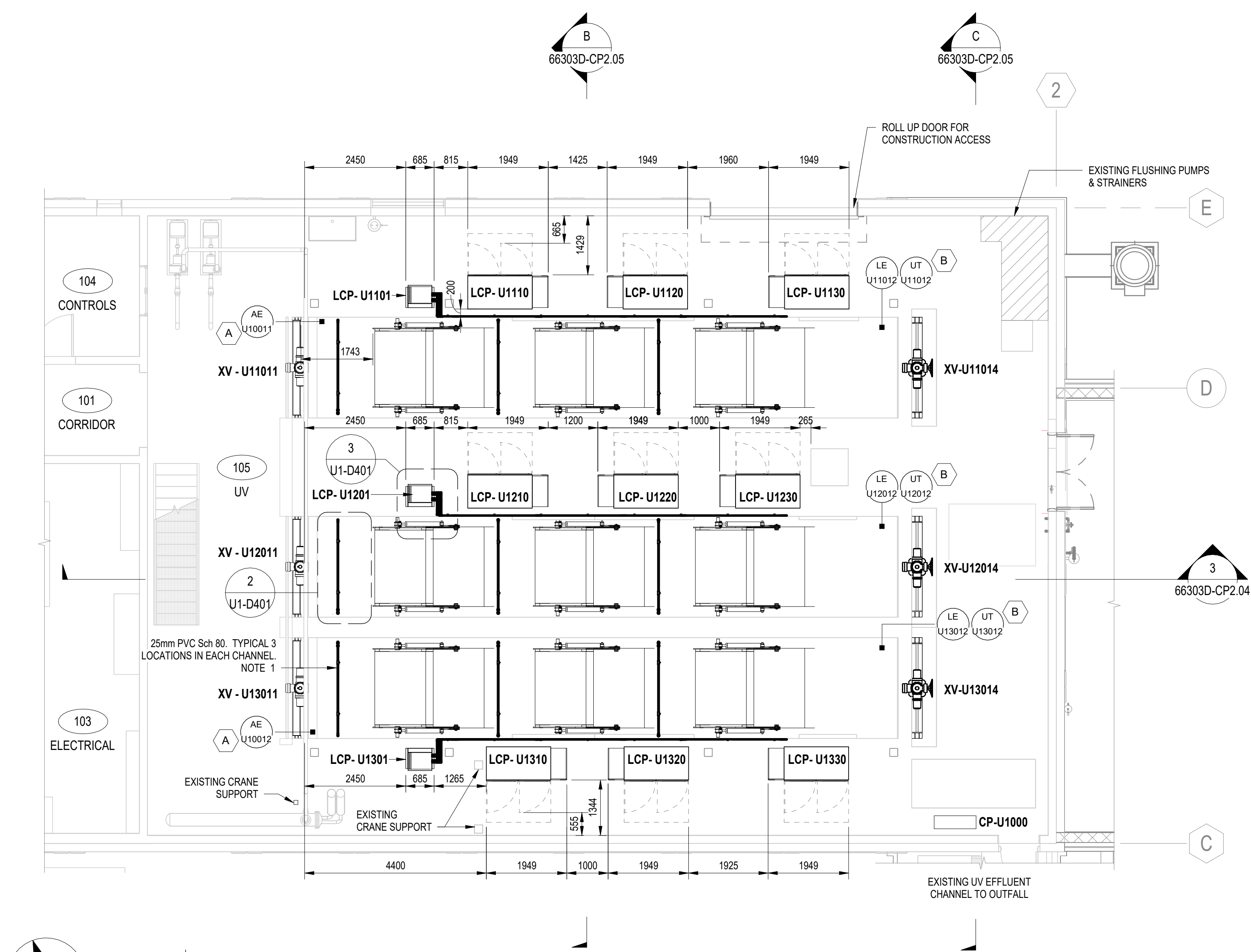
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01	ISSUED FOR CONSTRUCTION	05/06/08	GLG	-
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DESIGNED BY:	IG
DRAWN BY:	ES
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CONSULTANT NO.:	66303D-CP2.06

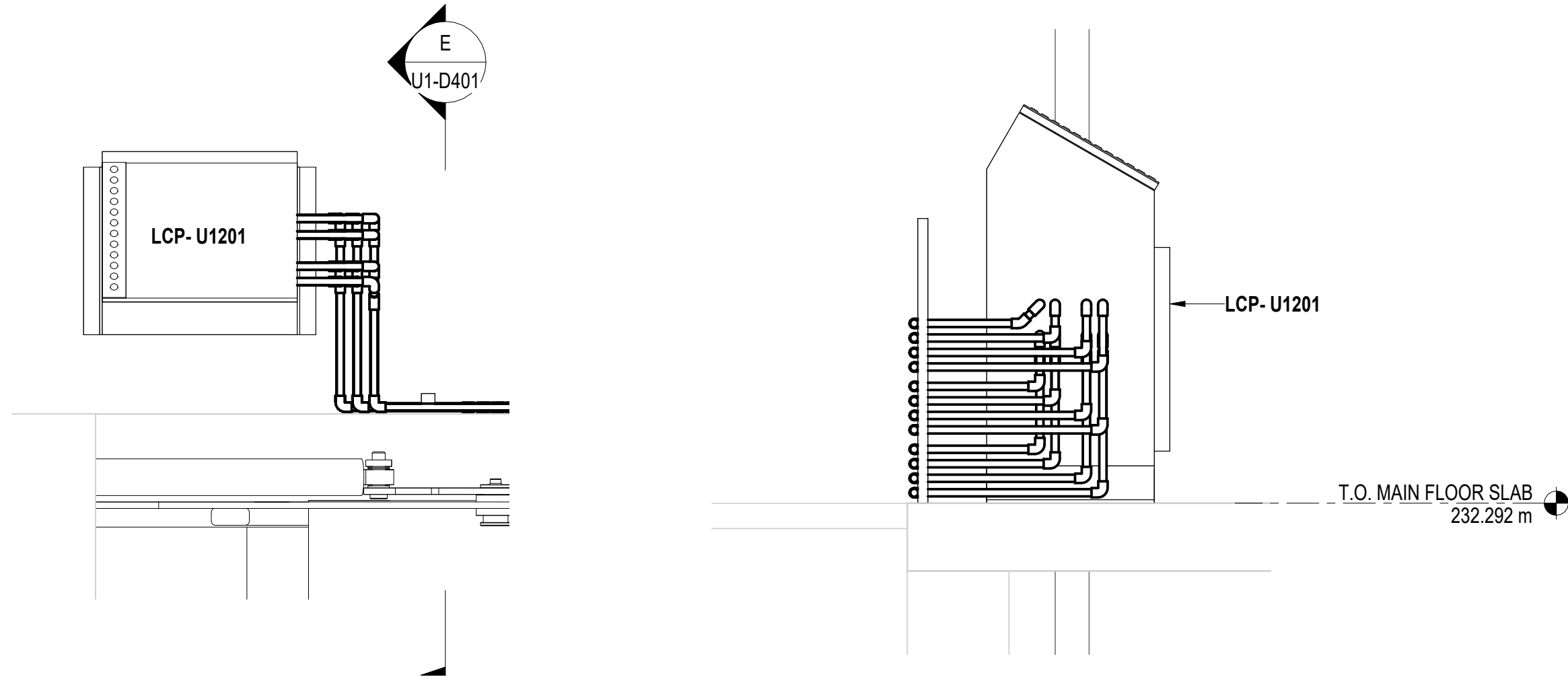
ENGINEER'S SEAL	
P. R. BARSALOU	2025-02-28

THE CITY OF WINNIPEG	
WATER AND WASTE DEPARTMENT	
NEWPCC - SECONDARY EFFLUENT UV DISINFECTION FACILITY PROCESS FLAP GATE DETAILS	
CITY DRAWING NUMBER	1-0101U-P0027-001-02
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REV.	03
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TENDER NO. 30-2025

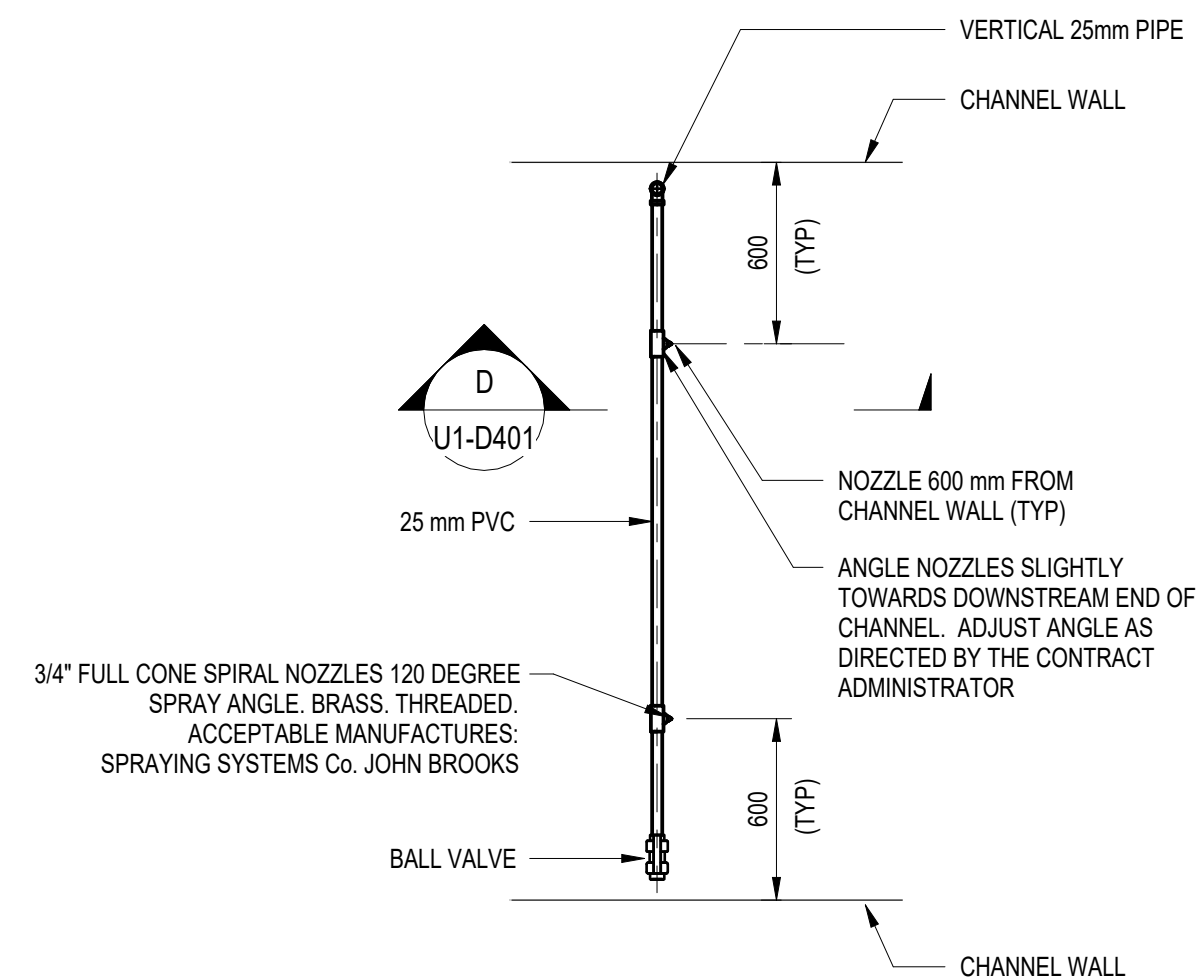


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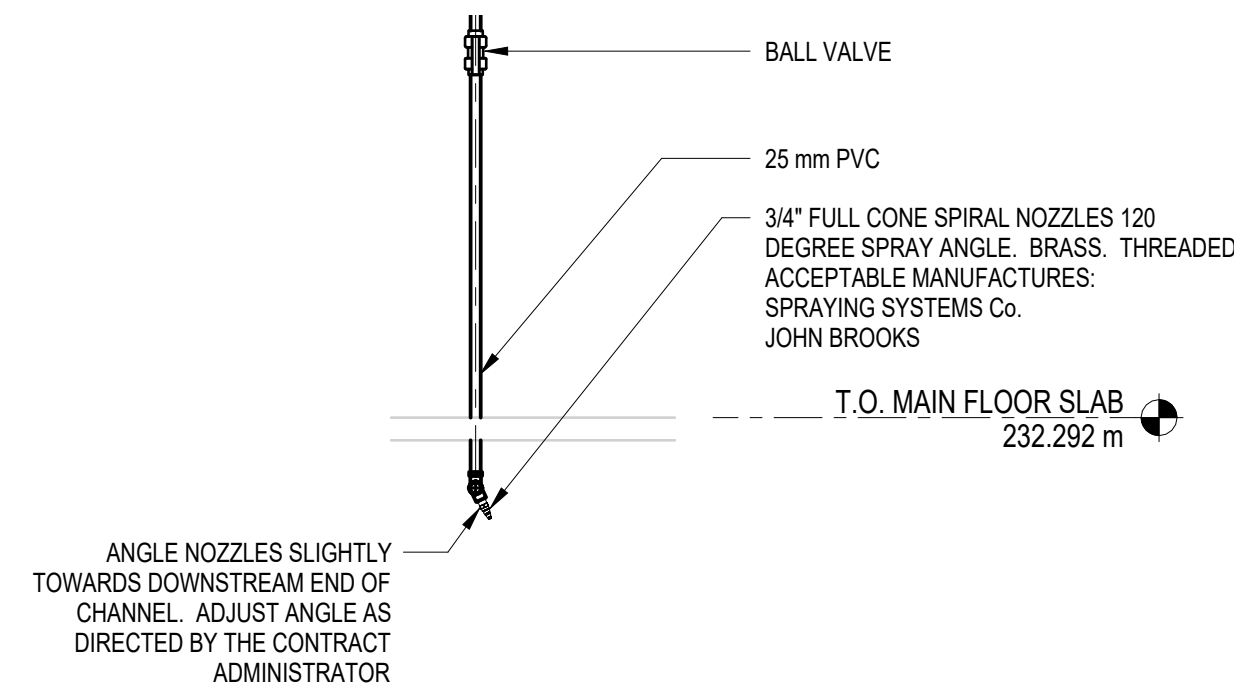


3 LCP - ENLARGED VIEW
U1-D401

E SECTION
U1-D401



FOAM SUPPRESSION
2 PIPING SYSTEM - ENLARGED PLAN
U1-D401



D SECTION
U1-D401

KEYNOTES:

- INSTALL UVT SENSOR IN ACCORDANCE WITH TROJAN'S INSTRUCTIONS.
- CONTRACTOR TO COORDINATE INSTALLATION LOCATION OF LEVEL SENSORS WITH TROJAN.

NOTES:

- PROVIDE BALL VALVE THAT IS ACCESSIBLE FROM THE PROCESS FLOOR ON EACH DROP LEG TO ISOLATE SPRAY NOZZLES. CONTRACTOR TO FIELD RUN PIPING FROM EXISTING FLUSHING WATER PUMPS.
- CHECKER PLATE NOT SHOWN FOR CLARITY.

TENDER NO.30-2025

REVISIONS			
NO	REVISIONS	DATE	DESIGN CHECK
00	ISSUED FOR TENDER	2025-02-26	IG PB

AECOM			
DESIGNED BY:	IG	CHECKED BY:	PB
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SCALE:	As indicated	RELEASED FOR CONSTRUCTION BY:	
DATE:	2023-07-24	DATE:	
CONSULTANT NO.:	U1-D401		



THE CITY OF WINNIPEG			
WATER AND WASTE DEPARTMENT			
NORTH END SEWAGE TREATMENT PLANT NEWPCC UV UPGRADES PROCESS MECHANICAL EXISTING UV DISINFECTION FACILITY ENLARGED PLAN			
CITY DRAWING NUMBER	SHEET	REV.	SIZE
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