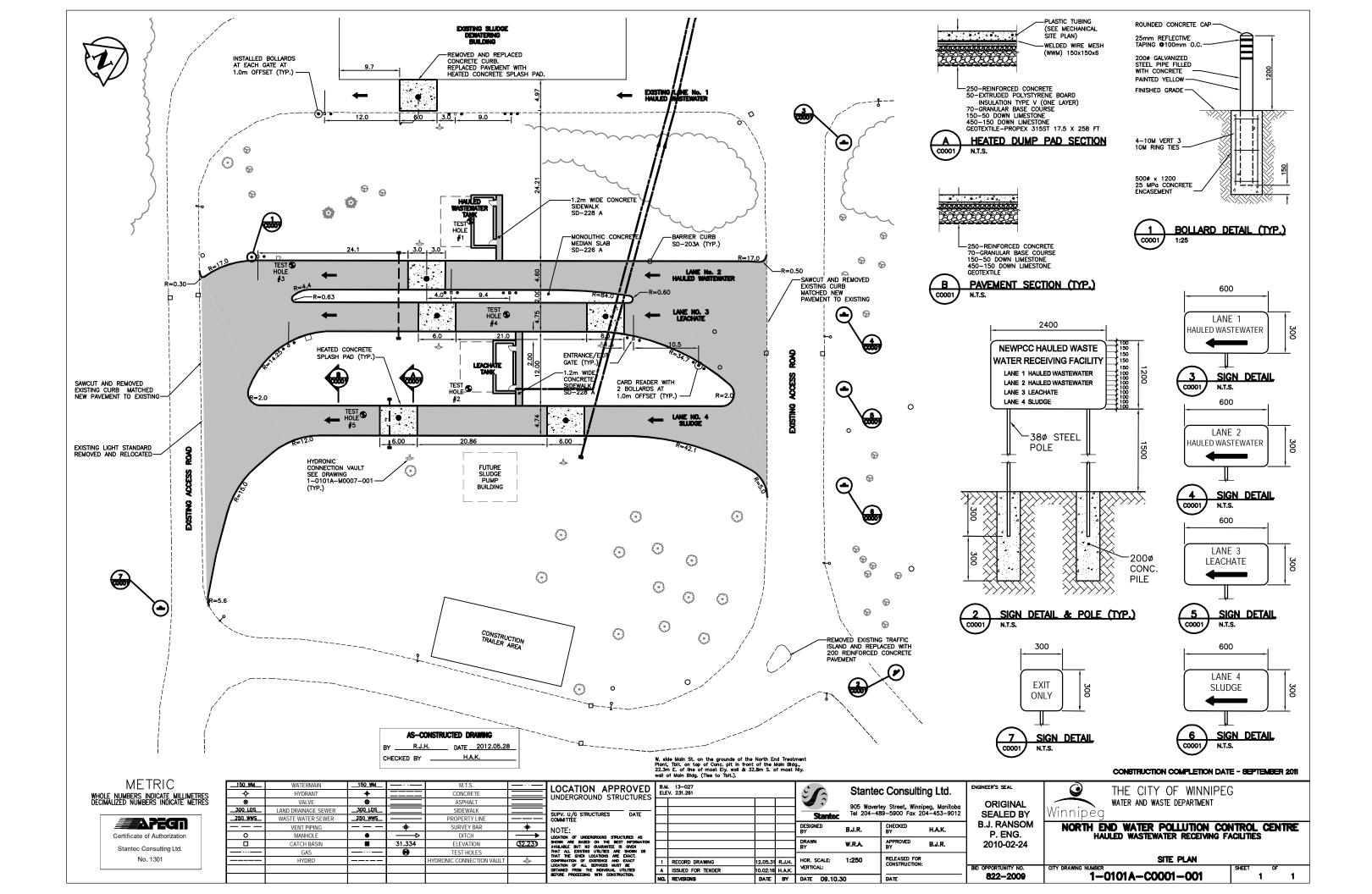
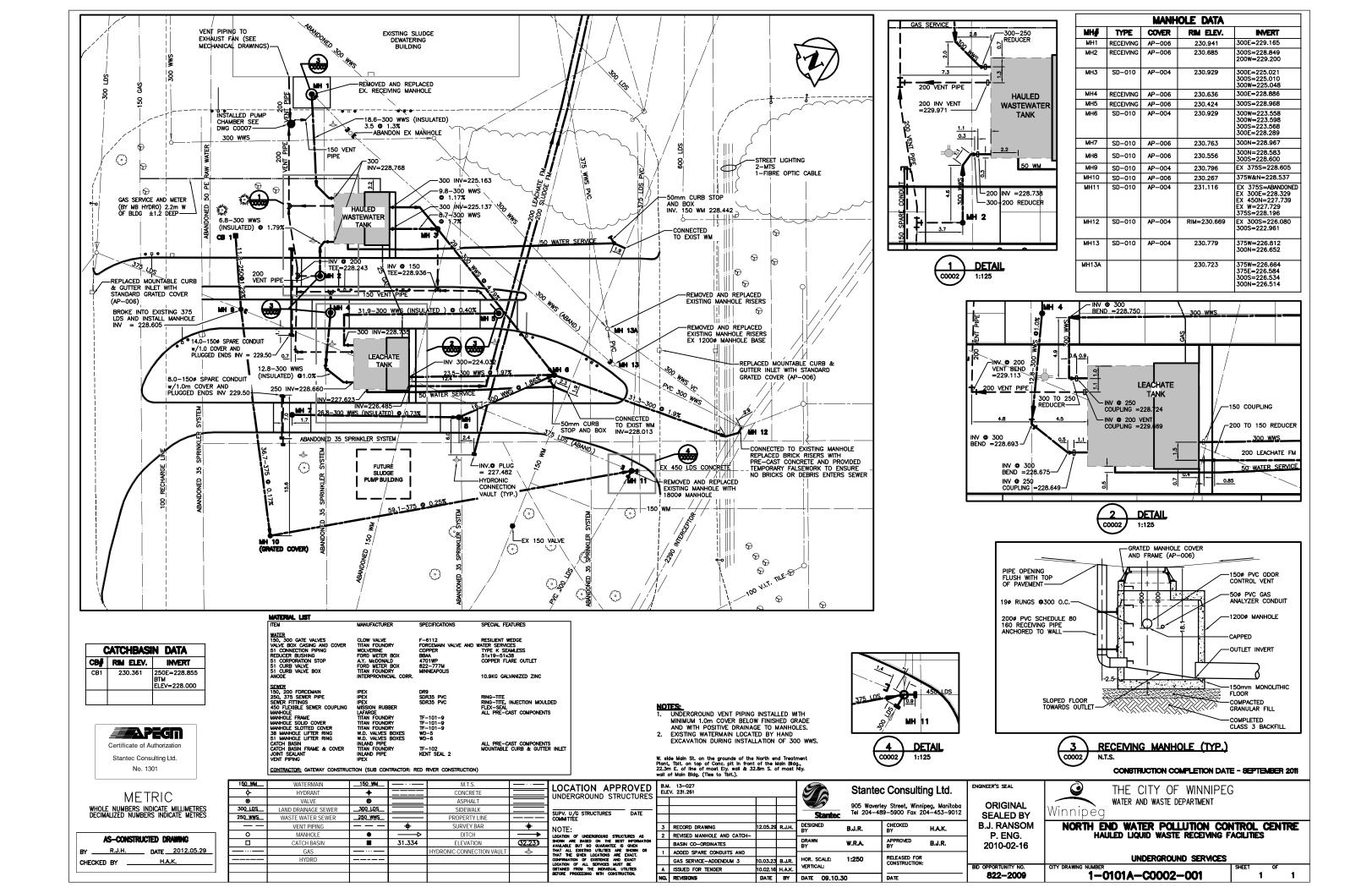
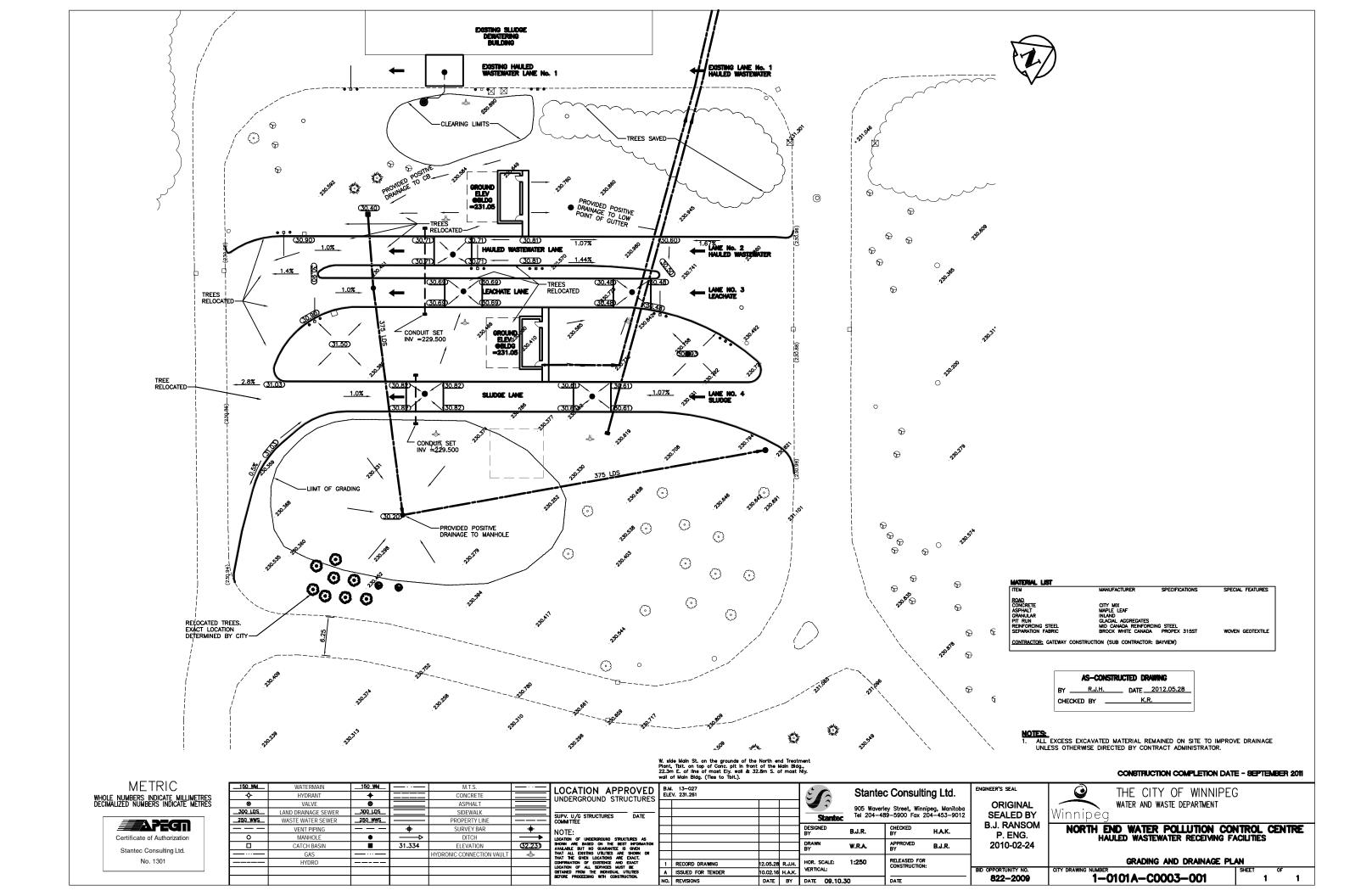
APPENDIX A – DRAWINGS

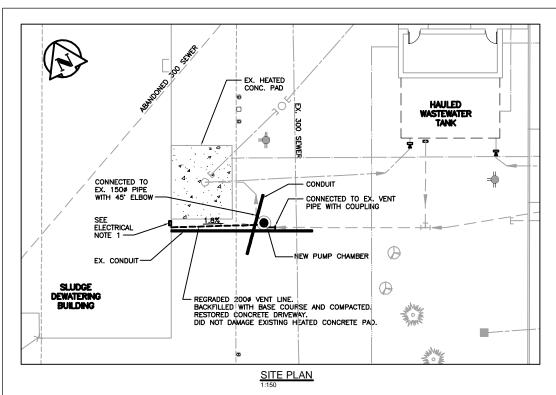
Item Number	Drawing Number	Drawing Title
1.	1-0101A-C0001-001	Hauled Wastewater Receiving Facilities – Site Plan
2.	1-0101A-C0002-001	Hauled Liquid Waste Receiving Facilities – Underground Services
3.	1-0101A-C0003-001	Hauled Liquid Waste Receiving Facilities – Grading and Drainage Plan
4.	1-0101A-C0007-001	Hauled Liquid Waste Receiving Facilities – Air Vent Manhole
5.	1-0101A-S0003-001	Hauled Wastewater Building – Foundation, Floor and Roof Plan
6.	1-0101A-S0007-001	Leachate Receiving Building – Foundation, Floor and Roof Plan
7.	1-0101A-P0001-001	Hauled Liquid Waste Receiving Building Process Flow Schematic
8.	1-0101A-P0002-001	Hauled Wastewater Receiving Building Sample Room floor Plan and Section
9.	1-0101A-P0003-001	Hauled Wastewater Receiving Building Lower Floor Plan and Details
10.	1-0101A-P0004-001	Leachate Receiving Building Process Flow Schematics
11.	1-0101A-P0005-001	Leachate Receiving Building Sample Room Floor Plan and Sections
12.	1-0101A-P0006-001	Leachate Receiving Building Pump Room Floor Plan and Sections
13.	1-0101A-P0007-001	Leachate Storage Tank Pumping – Gallery 2 &3 Plans and Sections
14.	1-0101A-M0001-001	Hauled Wastewater Receiving Building Mechanical Site Plan
15.	1-0101A-M0002-001	Hauled Wastewater Receiving Building Mechanical Plans
16.	1-0101A-M0003-001	Hauled Wastewater Receiving Building Mechanical Sections
17.	1-0101A-M0004-001	Hauled Wastewater Receiving Building Mechanical Details
18.	1-0101A-M0004-002	Hauled Wastewater Receiving Building Mechanical Details
19.	1-0101A-M0005-001	Hauled Wastewater Receiving Building Mechanical System Schematics
20.	1-0101A-M0007-001	Leachate Receiving Building Mechanical Site Plan
21.	1-0101A-M0008-001	Leachate Receiving Building Mechanical Plans
22.	1-0101A-M0009-001	Leachate Receiving Building Mechanical Sections
23.	1-0101A-M0010-001	Leachate Receiving Building Mechanical Details
24.	1-0101A-M0010-002	Leachate Receiving Building Mechanical Details
25.	1-0101A-M0011-001	Leachate Receiving Building Mechanical System Schematics
26.	1-0101A-E0005-001	Hauled wastewater and Leachate Receiving Buildings – Site Plan, Trench Details
27.	1-0101A-E0006-001	Hauled Wastewater Building Floor Plan and Leachate Building Floor Plan
28.	1-0101A-E0007-001	Hauled Wastewater and Leachate Receiving Buildings Single Line Diagrams, Panel Schedules

29.	1-0101A-E0008-001	Hauled Wastewater and Leachate Receiving Buildings Motor Schedules
30.	1-0101A-A0004-001	Hauled Wastewater Receiving Facilities Digester Gallery – Miscellaneous Wiring Details
31.	1-0101A-A0005-001	Hauled Wastewater and Leachate Receiving Building – Miscellaneous Wiring Details
32.	1-0101A-A0007-001	Hauled Wastewater Receiving Building PLC Panel Network Diagram
33.	1-0101A-A0008-001	Leachate building and Digester Gallery PLC Panel Network Diagram
34.	1-0101D-A0084-001	Process & Instrumentation Diagram - Digester Gallery – Leachate Pumping
35.	1-0101D-A0085-001	Process & Instrumentation Diagram – Digester Gallery – Leachate Discharge
36.	1-0101W-A0011-001	Process & Instrumentation Diagram – Dewatering building Truck Bay – Exhaust Fan W680-EF
37.	1-0101X-A0001-001	Process & Instrumentation Diagram – Leachate Building Receiving Manholes & Holding Tanks
38.	1-0101X-A0002-001	Process & Instrumentation Diagram – Leachate Building - Leachate Pumping System
39.	1-0101X-A0003-001	Process & Instrumentation Diagram Miscellaneous Building Systems
40.	1-0101X-A0004-001	Process & Instrumentation Diagram – Leachate Building Domestic Water System
41.	1-0101X-A0005-001	Process & Instrumentation Diagram Leachate Building Boiler System
42.	1-0101X-A0006-001	Process & Instrumentation Diagram Leachate Building Heat Recovery Ventilator X650-HRV & Heating Pump X640-P
43.	1-0101X-A0007-001	Process & Instrumentation Diagram Leachate Building Heating Pumps X630-P & X635-P
44.	1-0101X-A0008-001	Process & Instrumentation Diagram Leachate building Sump Pump X560-SMP
45.	1-0101Y-A0001-001	Process & Instrumentation Diagram Hauled wastewater Building Receiving Manholes & Holding Tanks
46.	1-0101Y-A0002-001	Process & Instrumentation Diagram Miscellaneous Building Systems
47.	1-0101Y-A0003-001	Process & Instrumentation Diagram Hauled Wastewater Building Domestic Water System
48.	1-0101Y-A0004-001	Process & Instrumentation Diagram Hauled Wastewater Building Boiler System
49.	1-0101Y-A0005-001	Process & Instrumentation Diagram Hauled Wastewater Building Heat Recovery Ventilator Y650-HRV & Heating Pump Y640-P
50.	1-0101Y-A0006-001	Process & Instrumentation Diagram Hauled Wastewater Building Heating Pumps Y630-P & Y635-P
51.	1-0101Y-A0007-001	Process & Instrumentation Diagram Hauled Wastewater Building Sump Pump Y560-SMP









- INSTALLED NEW 200 X 200 X 100 PVC JUNCTION BOX IN DEWATERING FACILITY.
- INSTALLED NEW 200 X 200 X 100 PVC JUNCITON BOX IN NEW PUMP CHAMBER.
- CONNECTED TO EXISTING CONDUIT WITH WYE FOR PVC JUNCTION BOX IN CHAMBER AND DEWATERING FACILITY.

SEWER MATERIAL LIST

DEVICE WILLIAMS DOT								
ITEM	MANUFACTURER	SPECIFICATIONS	SPECIAL FEATURES					
150, 200 SEWER PIPE	IPEX	ASTM D3034	RING-TITE					
150 - 45° BEND	IPEX	PVC SDR-35	RING-TITE					
200 COUPLING	DALLAS SPECIALTY							
INSULATION	DOW	HIGHLOAD 40						
PUMP CHAMBER BASE	LAFARGE		ALL PRE-CAST COMPONENTS					
MANHOLE FRAME & COVER	TITAN FOUNDRY	TF-113-5	127mm HIGH FRAME & SOLID-BLANK COVER					
CONTRACTOR: MAPLE LEAF CONSTRUCTION								

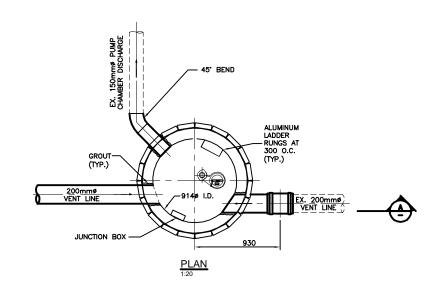
GENERAL NOTES

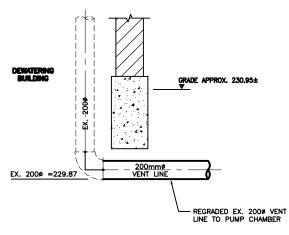
1. LOCATED UNDERGROUND SERVICES AND PROTECTED THEM AT ALL TIMES DURING THE CONSTRUCTION.

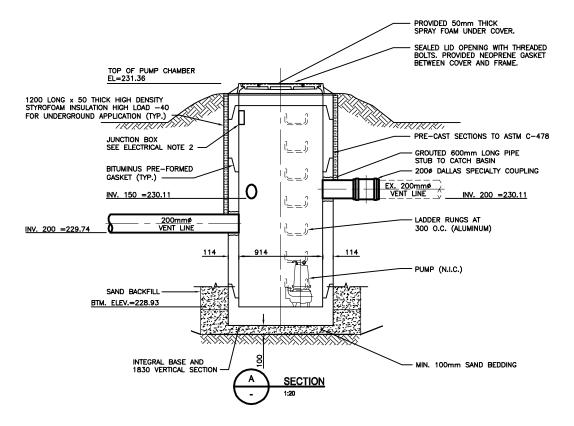
2. MOUNTED JUNCTION BOX OPPOSITE LADDER AND WITHIN 600mm FROM TOP OF MANHOLE.

RIGID INSULATION

INSTALLED TO MAINTAIN CONTINUITY OF THERMAL BARRIER, FIT TIGHT TO PENETRATIONS







CONSTRUCTION COMPLETION DATE - JULY 2014

METRIC WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

AS-CONSTRUCTED DRAWING							
BY	0.S.	DATE 2014/07/22					
CHECK	ED BY	H.A.K.					

_150_WM	WATERMAIN	150 WM		M.T.S.	
♦	HYDRANT	+		CONCRETE	
8	VALVE	8		ASPHALT	
300 LDS	LAND DRAINAGE SEWER	_300 LDS_		SIDEWALK	
250 WWS	WASTE WATER SEWER	_250_WWS_		PROPERTY LINE	
	VENT PIPING	I — — —	#	SURVEY BAR	+
0	MANHOLE	•	→	DITCH	
	CATCH BASIN		31.334	ELEVATION	(32.23)
	GAS		•	TEST HOLES	
	HYDRO			HYDRONIC CONNECTION VAULT	-
				i	

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NO STREET	CIONES		
JPV. U/G STRUCTURES	DATE		
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CATION OF ALL SERVICES MUST TAINED FROM THE INDIVIDUAL UT FORE PROCEEDING WITH CONSTRUC	LITTES	1	RECORD
PORE PROGEEDING WITH CONSTRUC	TION.	NO.	REVISION

D ES	B.M. ELE					ENGINEER'S SEAL			
_						905 Waverley: www.stantec.c	ntec St., Winnipeg MB Can com	e ada	ORIGINAL SEALED BY
					DESIGNED BY	S.A.B.	CHECKED BY	H.A.K.	S.A.BEZAK P. ENG.
TION OR					DRAWN BY	K.R.	APPROVED BY	S.A.B.	yy/mm/dd
					HOR. SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION:		
	1	RECORD DRAWING	14.07.22	o.s.	VERTICAL:	-	Sono mon.		BID OPPORTUNITY NO.
	NO.	REVISIONS	DATE	BY	DATE 2013-1	2-10	DATE		

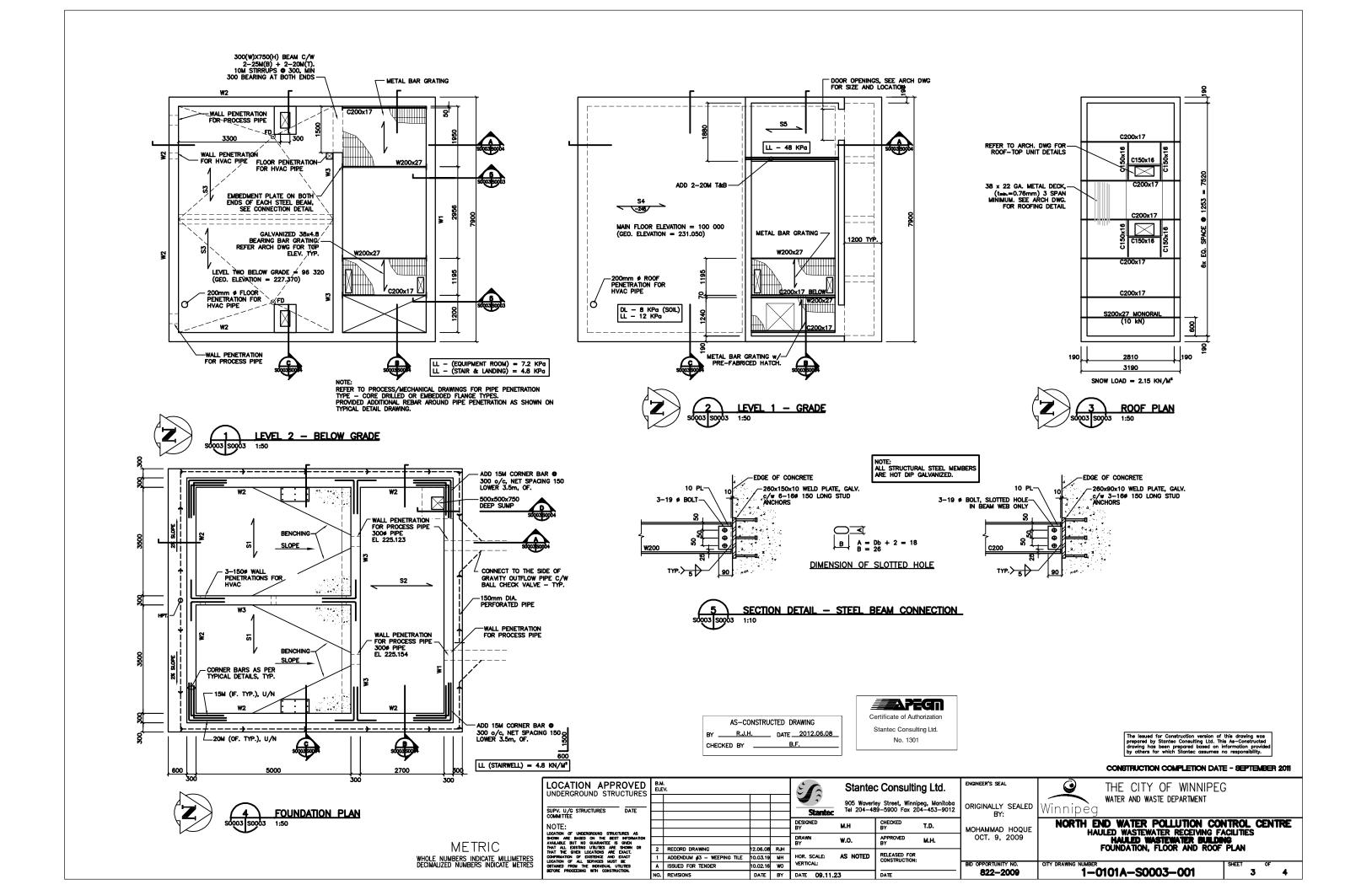
Winnipeg	THE Water	_
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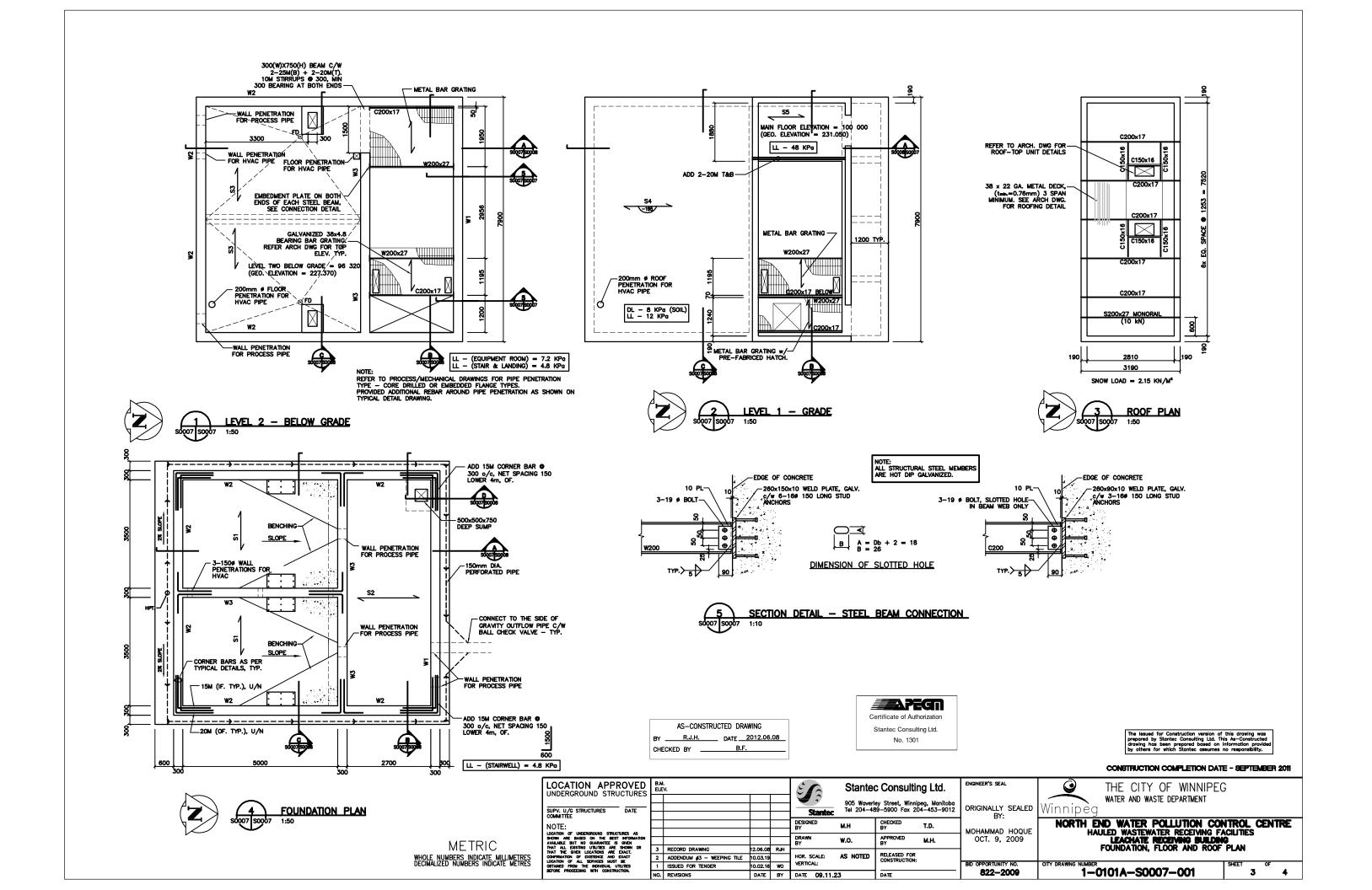
CITY OF WINNIPEG AND WASTE DEPARTMENT

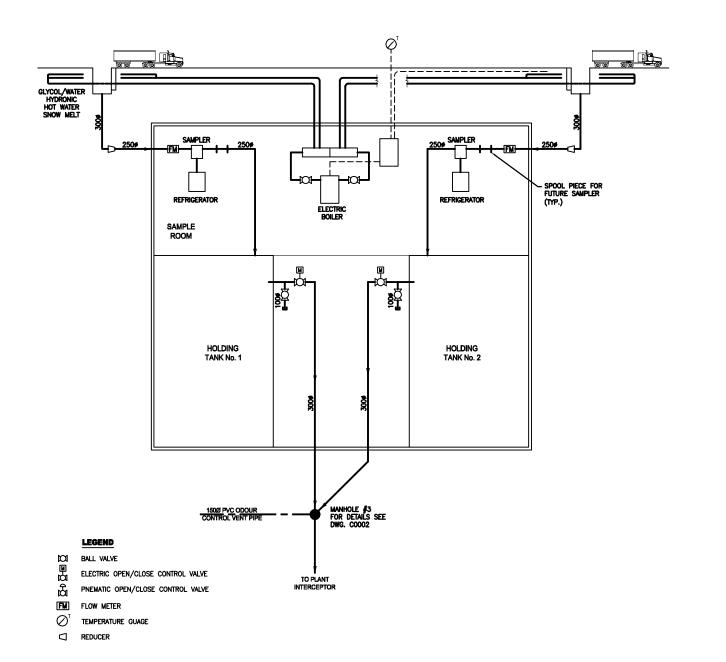
ER POLLUTION CONTROL CENTRE STEWATER RECEIVING FACILITIES

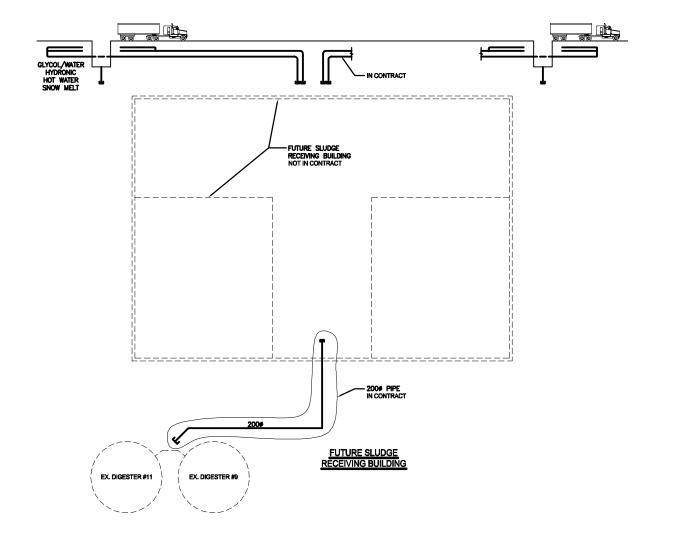
AIR VENT MANHOLE

1-0101A-C0007-001









Certificate of Authorization
Stantec Consulting Ltd.

No. 1301

The Issued for Construction version of this drawing was prepared by Stantec Consulting Ltd. This As-Constructed consulting Ltd. This As-Constructed to the later of the later

CONSTRUCTION COMPLETION DATE - SEPTEMBER 2011

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

AS-CONSTRUCTED DRAWING
BY _______ DATE _____ 2012.04.17
CHECKED BY ______ A.H.B.

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/O STRUCTURES DATE COMMITTEE

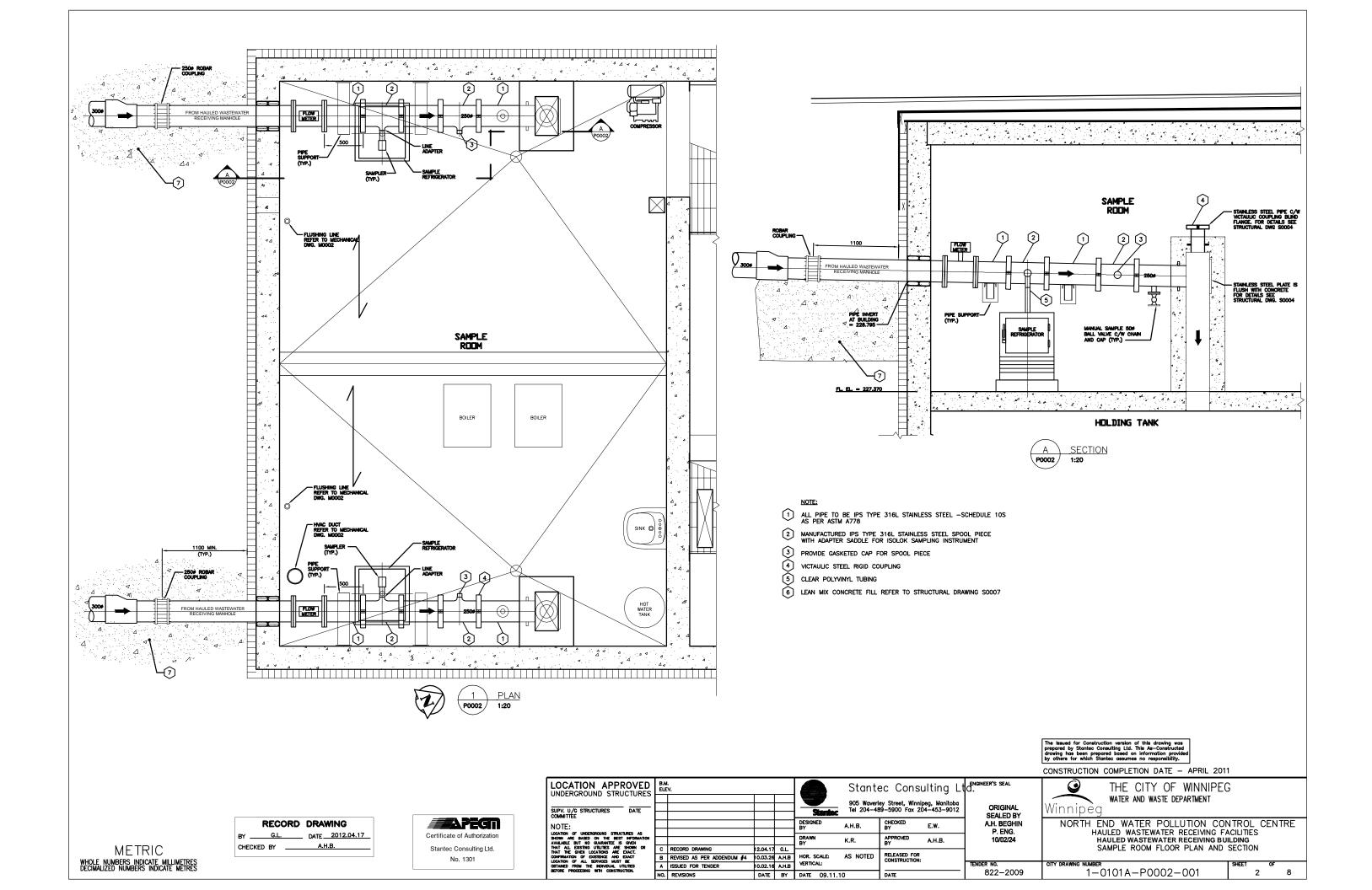
LOCATION OF LANDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST NOTOMATION HAT ALL DESTRING UTBUST ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE DEACT. CONFINANTION OF DESTRUCTURES AND SHOWN OF THE GIVEN LOCATIONS ARE DEACT. CONFINANTION OF DESTRUCTURE AND DEACT LOCATION OF ALL SERVICES MIST BE GOTAMED FROM THE ROUNDAL UTBLIES BEFORE PROCEEDING WITH CONSTRUCTION. NO.

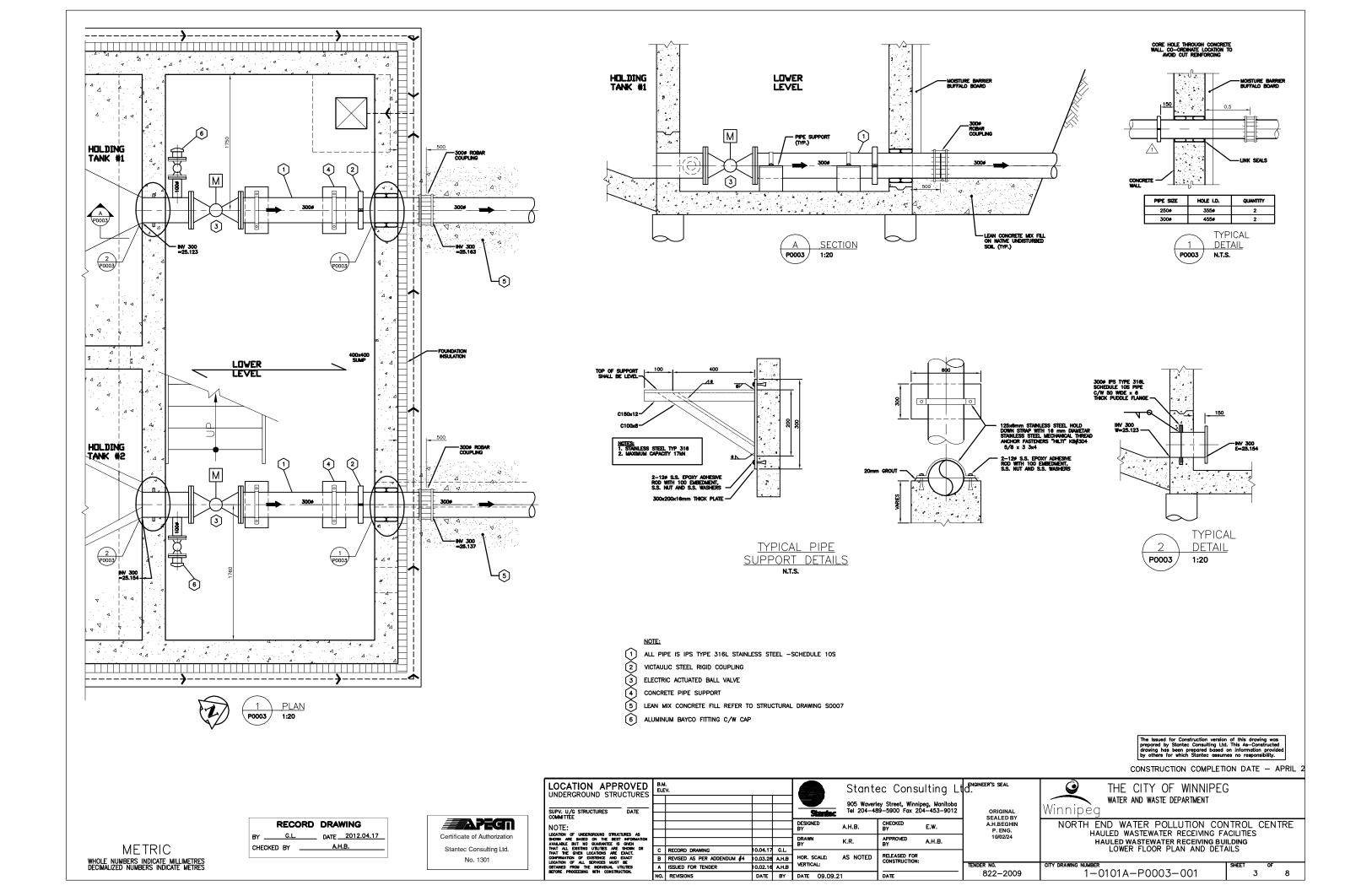
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_					Stamboo		ey Street, Winnip 19–5900 Fax 20		ORIGINAL SEALED BY
					DESIGNED BY	A.H.B.	CHECKED BY	J.A.	A.H. BEGHIN P. ENG.
TION					DRAWN BY	K.R.	APPROVED BY	A.H.B.	10/02/24
	2	RECORD DRAWING	12.04.17	G.L.	HOR, SCALE:	AS NOTED	RELEASED FOR		
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	NO.	REVISIONS	DATE	BY	DATE 09.09.21		DATE		822-2009

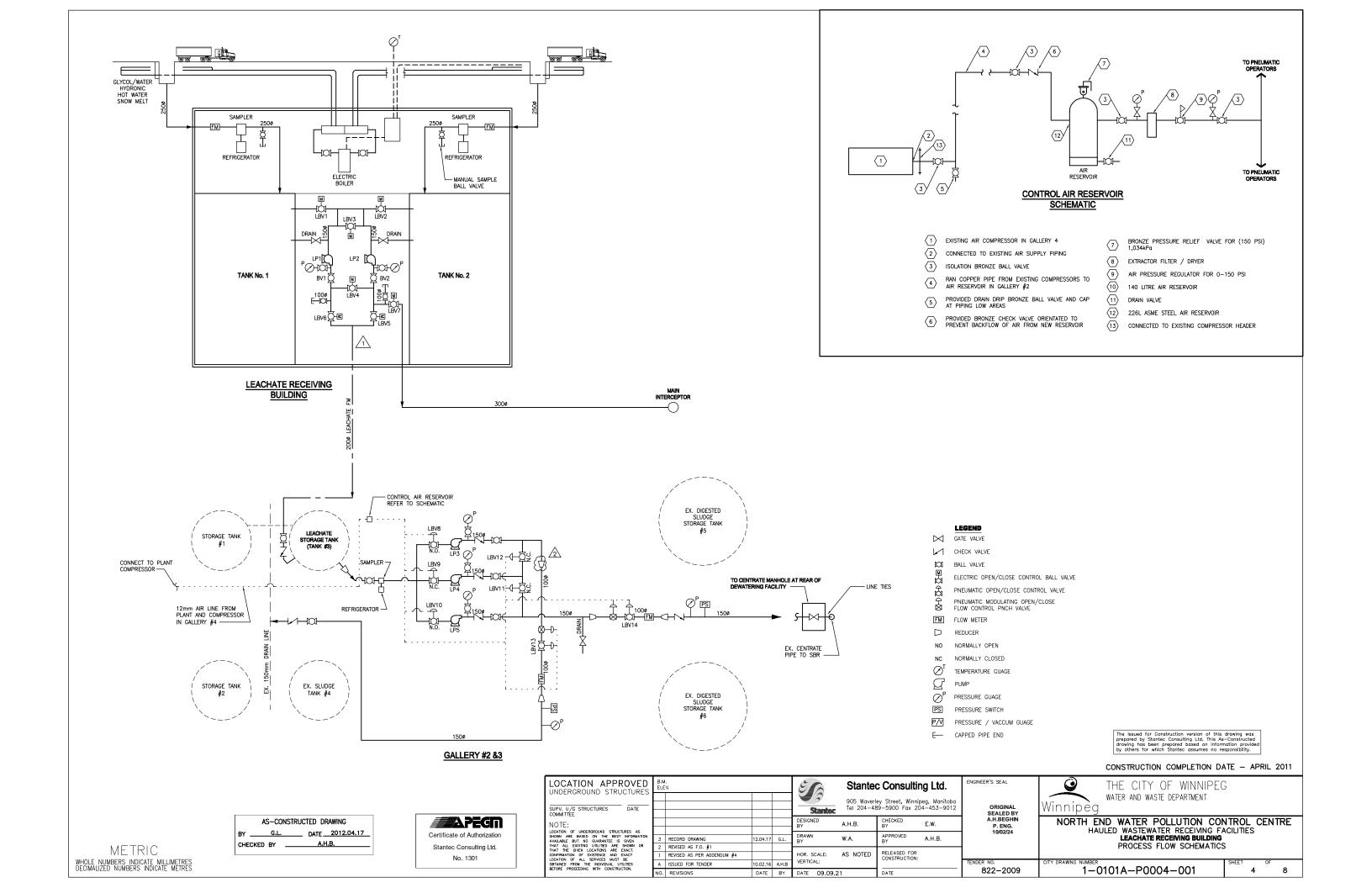
THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

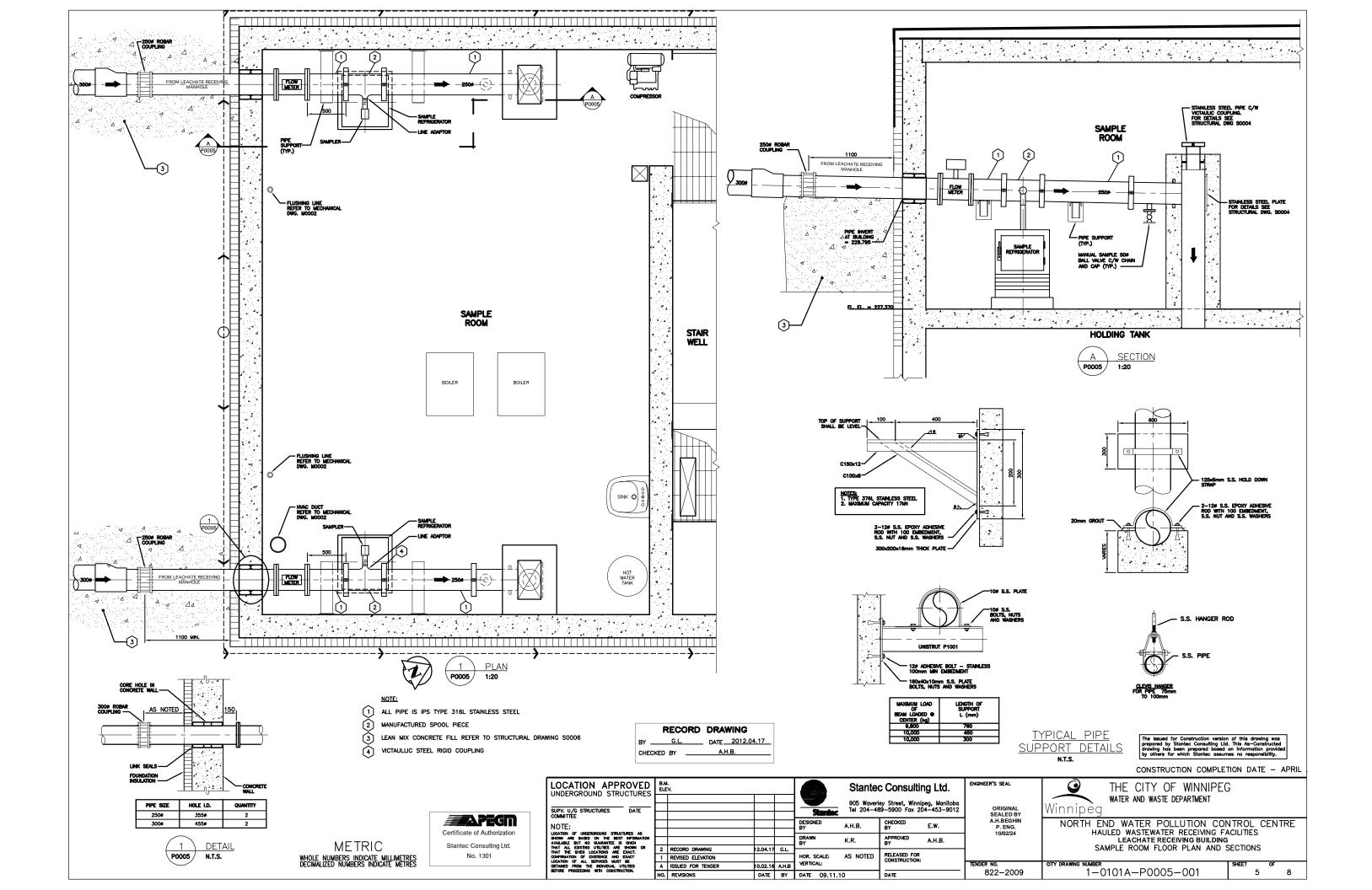
NORTH END WATER POLLUTION CONTROL CENTRE
HAULED WASTEWATER RECEIVING FACILITIES
HAULED WASTEWATER RECEIVING BUILDING
PROCESS FLOW SCHEMATIC

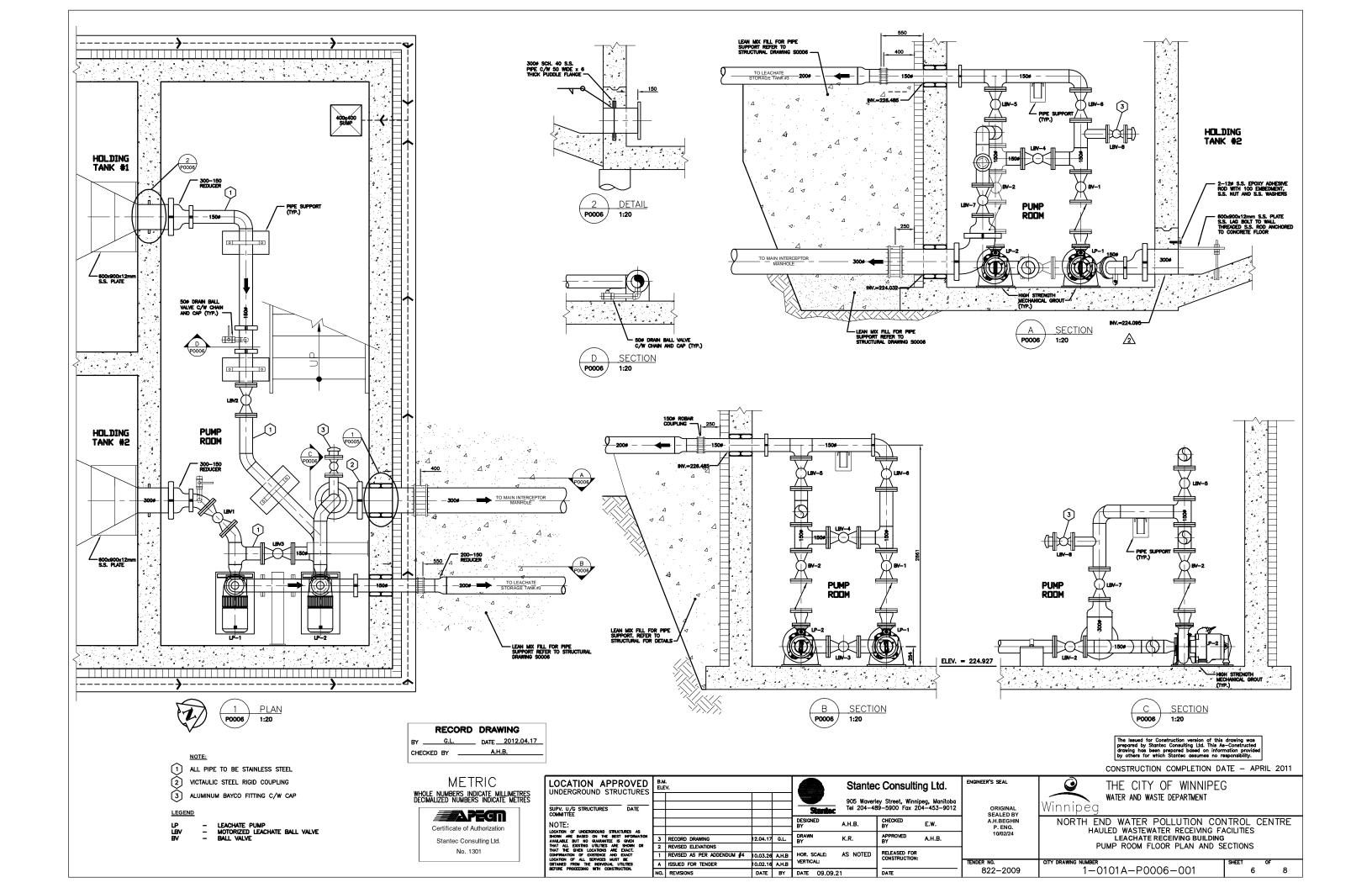
CITY DRAWING NUMBER 1-0101A-P0001-001 SHEET OF 1 8

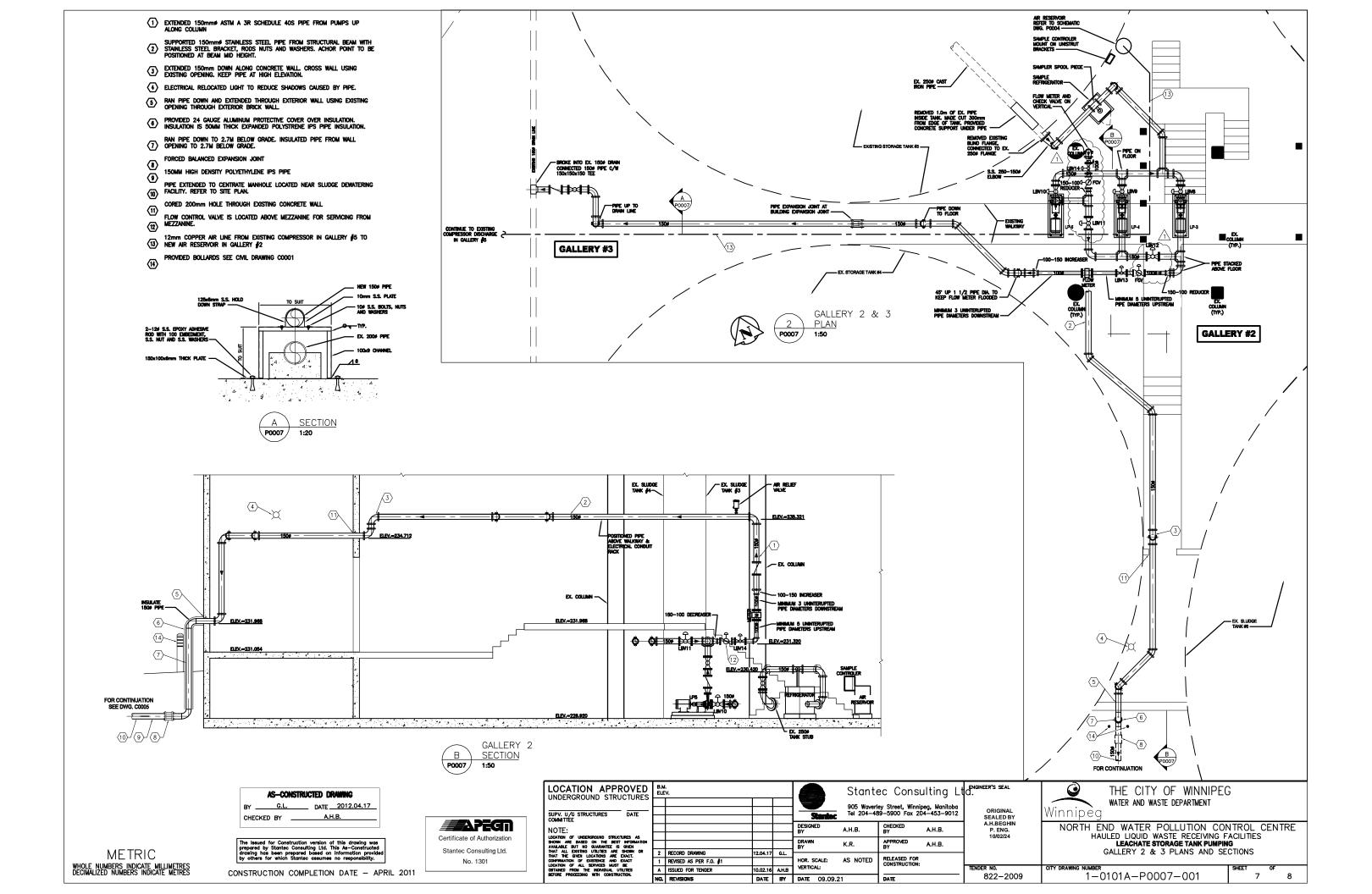


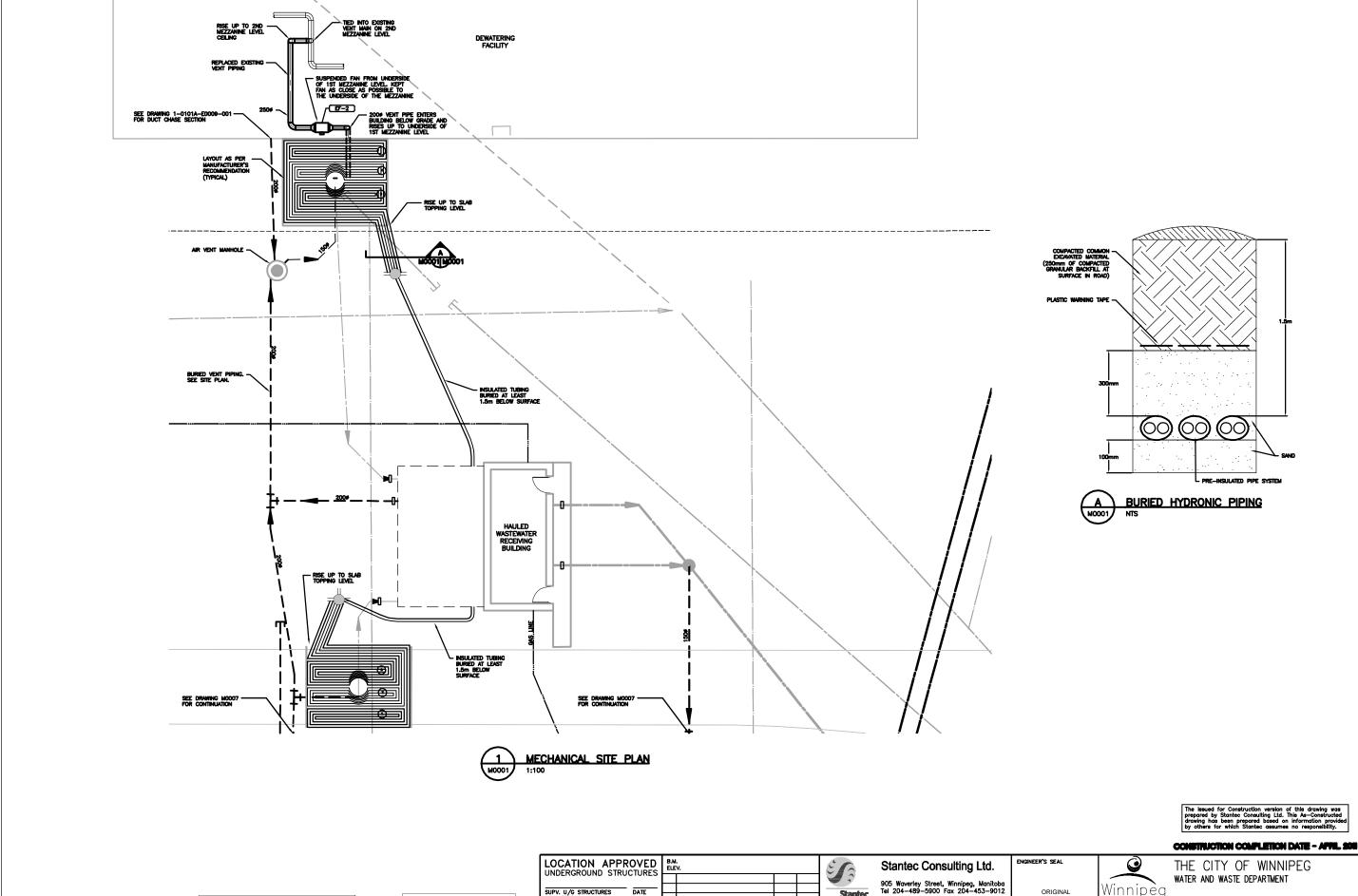












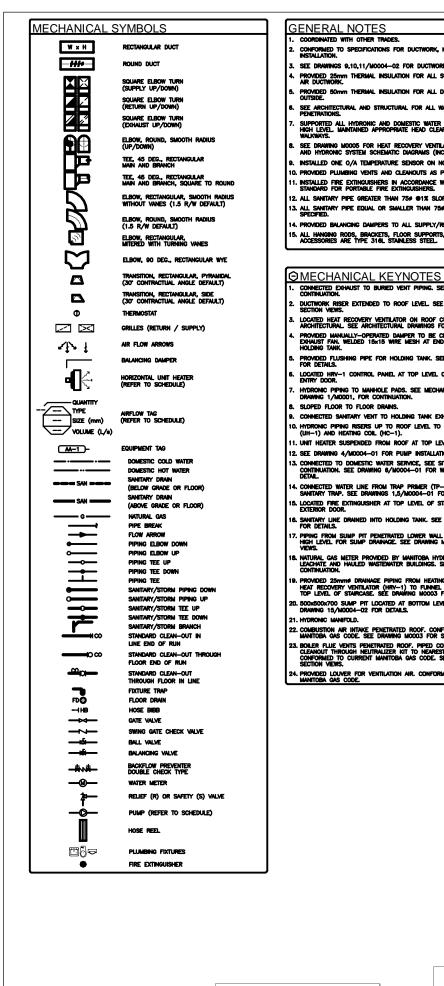
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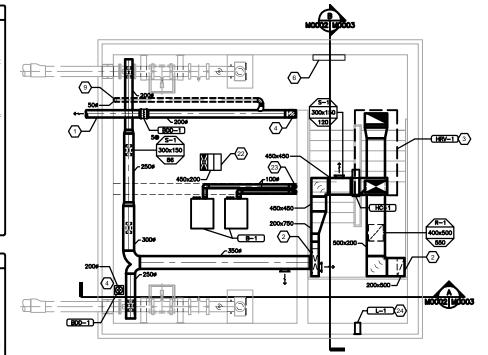
				66	Stante	ntec Consulting Ltd.			
				Stantec	905 Waverle Tel 204–48	ey Street, Winnip 19–5900 Fax 20	eg, Manitoba 4–453–9012		
				DESIGNED BY	L.W.	CHECKED BY	A.B.		
				DRAWN BY	J.L.T.	APPROVED BY	A.B.		
						BELEASED FOR			
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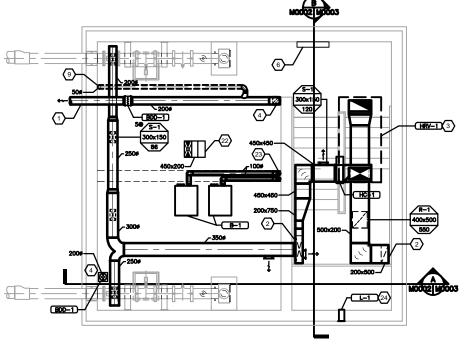
ORIGINAL SEALED BY L. WANG P. ENG. 10/02/16

NORTH END WATER POLLUTION CONTROL CENTRE
HAULED WASTEWATER RECEIVING FACILITIES
HAULED WASTEWATER RECEIVING BUILDING
MECHANICAL SITE PLAN

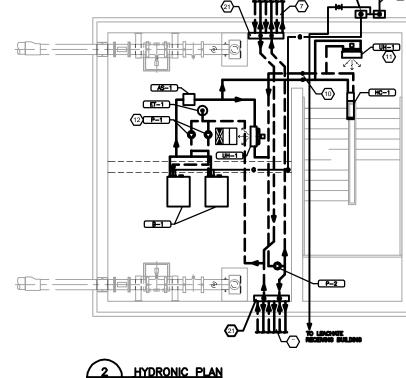
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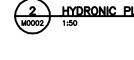


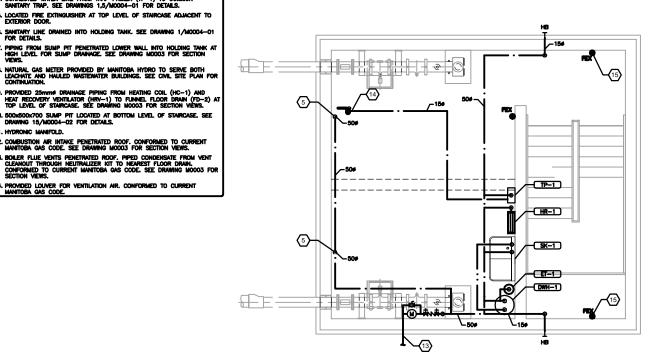




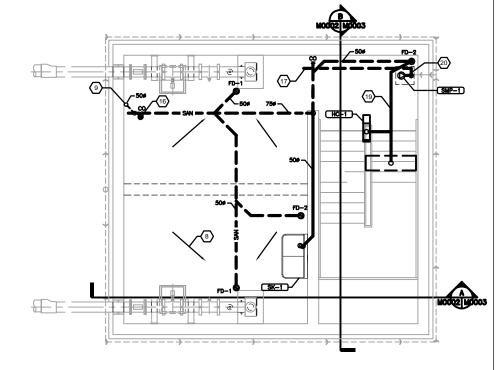








PLUMBING & FIRE PROTECTION PLAN



M0002

SANITARY PLAN

CONSTRUCTION COMPLETION DATE - SEPTEMBER 2011

Certificate of Authorization Stantec Consulting Ltd.

No. 1301

NOTE:

M0002

LOCATION APPROVED B.M. Stantec Consulting Ltd. UNDERGROUND STRUCTURES Tel 204-489-5900 Fax 204-453-9012 SUPV. U/G STRUCTURES DATE CHECKED A.B. APPROVED BY A.B. RELEASED FOR CONSTRUCTION: 12.04.17 G.L. HOR. SCALE: VERTICAL: AS NOTED 10.02.16 L.W. 1 ISSUED FOR TENDER DATE BY DATE 09.11.13

0 THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ORIGINAL SEALED BY L. WANG P. ENG. 10/02/16 Winnipèq NORTH END WATER POLLUTION CONTROL CENTRE
HAULED WASTEWATER RECEIVING BUILDING
HAULED WASTEWATER RECEIVING BUILDING **MECHANICAL PLANS** 822-2009 1-0101A-M0002-001

SENERAL NOTES TED WITH OTHER TRADE

SEE DRAWINGS 9,10,11/M0004-02 FOR DUCTWORK MOUNTING DETAILS. PROVIDED 25mm THERMAL INSULATION FOR ALL SUPPLY AIR AND OUTSIDE AIR DUCTWORK.

PROVIDED 50mm THERMAL INSULATION FOR ALL DUCTWORK EXPOSED TO OUTSIDE.

INSTALLED ONE O/A TEMPERATURE SENSOR ON NORTH WALL. PROVIDED PLUMBING VENTS AND CLEANOUTS AS PER CODE.

INSTALLED FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 10— STANDARD FOR PORTABLE FIRE EXTINGUISHERS.

12. ALL SANITARY PIPE GREATER THAN 75# @1% SLOPE, UNLESS SPECIFIED. ALL SANTARY PIPE EQUAL OR SMALLER THAN 750 02% SLOPE. UNLESS SPECIFIED.

. PROVIDED BALANCING DAMPERS TO ALL SUPPLY/RETURN DIFFUSERS ALL HANGING RODS, BRACKETS, FLOOR SUPPORTS, AND SUPPORT ACCESSORIES ARE TYPE 316L STAINLESS STEEL.

CONNECTED EXHAUST TO BURIED VENT PIPING. SEE SITE PLAN FOR CONTINUATION.

DUCTWORK RISER EXTENDED TO ROOF LEVEL. SEE DRAWING MOOD3 FOR SECTION VIEWS.

LOCATED HRV-1 CONTROL PANEL AT TOP LEVEL OF STARCASE, INSIDE ENTRY DOOR.

CONNECTED SANITARY VENT TO HOLDING TANK EXHAUST DUCT.

2. SEE DRAWING 4/M0004-01 FOR PUMP INSTALLATION DETAILS. S. CONNECTED TO DOMESTIC WATER SERVICE, SEE SITE PLAN FOR CONTINUATION. SEE DRAWING 6/M0004-01 FOR WATER SERVICE ENTRY DETAIL.

. UNIT HEATER SUSPENDED FROM ROOF AT TOP LEVEL OF STAIRCASE.

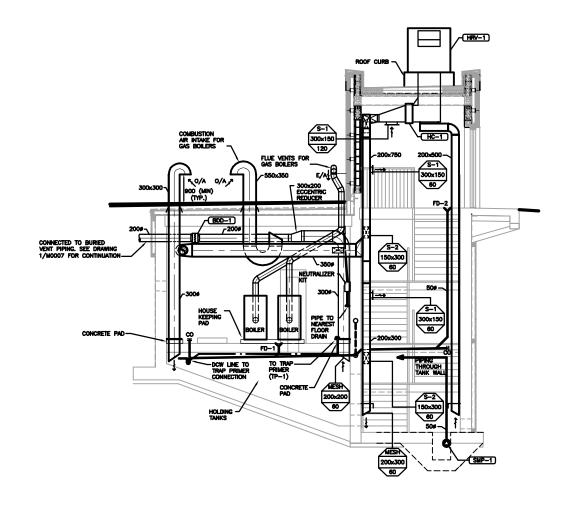
CONNECTED WATER LINE FROM TRAP PRIMER (TP-1) TO COMMON SANITARY TRAP. SEE DRAWINGS 1,5/M0004-01 FOR DETAILS.

COMBUSTION AIR INTAKE PENETRATED ROOF, CONFORMED TO CURREN MANTOBA GAS CODE, SEE DRAWING MODOJ FOR SECTION VIEWS.

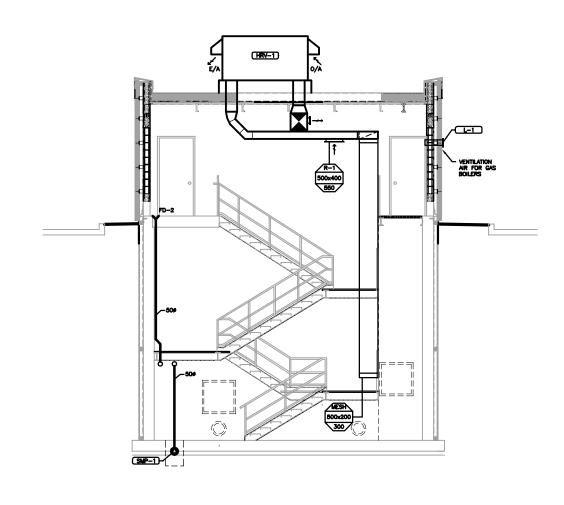
. PROVIDED LOUVER FOR VENTILATION AIR. CONFORMED TO CURRENT MANITOBA GAS CODE.

HYDRONIC PIPING TO MANHOLE PADS. SEE MECHADRAWING 1/M0001, FOR CONTINUATION.

SLOPED FLOOR TO FLOOR DRAINS.









The issued for Construction version of this drawing was prepared by Stantec Consulting Ltd. This As—Constructe drawing has been prepared based on information provide the stantes for which Stantec assumes no responsibility.

CONSTRUCTION COMPLETION DATE - SEPTEMBER 20

AS-CONSTRUCTED DRAWING
BY ______ DATE _____ 2012.04.17_
CHECKED BY ______ AH.B.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES Certificate of Authorization
Stantec Consulting Ltd.
No. 1301

OCATION APPROVED B.M. ELEV.					E 13	Stantec Consulting Ltd.			
UPV. U/G STRUCTURES DATE					Stantec	905 Waverle Tel 204–48	ey Street, Winnip 19–5900 Fax 20	eg, Manitoba 4-453-9012	
IOTE:					DESIGNED BY	L.W.	CHECKED BY	A.B.]
DICATION OF UNDERGROUND STRUCTURES AS HOWN ARE BASED ON THE BEST INFORMATION VAILABLE BUT NO GUARANTEE IS GIVEN HAT ALL EXISTING UTBLITTES ARE SHOWN OR					DRAWN BY	J.L.T.	APPROVED BY	A.B.	
HAT THE GIVEN LOCATIONS ARE EXACT. ONFIRMATION OF EXISTENCE AND EXACT DICATION OF ALL SERVICES MUST BE	2	RECORD DRAWING	12.04.17		HOR. SCALE: VERTICAL:	AS NOTED	RELEASED FOR CONSTRUCTION:		BID OF
BTAINED FROM THE INDIVIDUAL UTILITIES EFORE PROCEEDING WITH CONSTRUCTION.	NO.	ISSUED FOR TENDER REVISIONS	10.02.16 DATE	L.W. BY	DATE 09.11.1	3	DATE		SID O

ORIGINAL
SEALED BY
L. WANG
P. ENG.
10/02/16

OPPORTUNITY NO.

822-2009

WATER AND WASTE DEPARTMENT

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WATER AND WASTE DEPARTMENT

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WATER AND WASTE DEPARTMENT

NORTH END WATER POLLUTION CONTROL CENTRE

HAULED WASTEWATER RECEIVING BUILDING

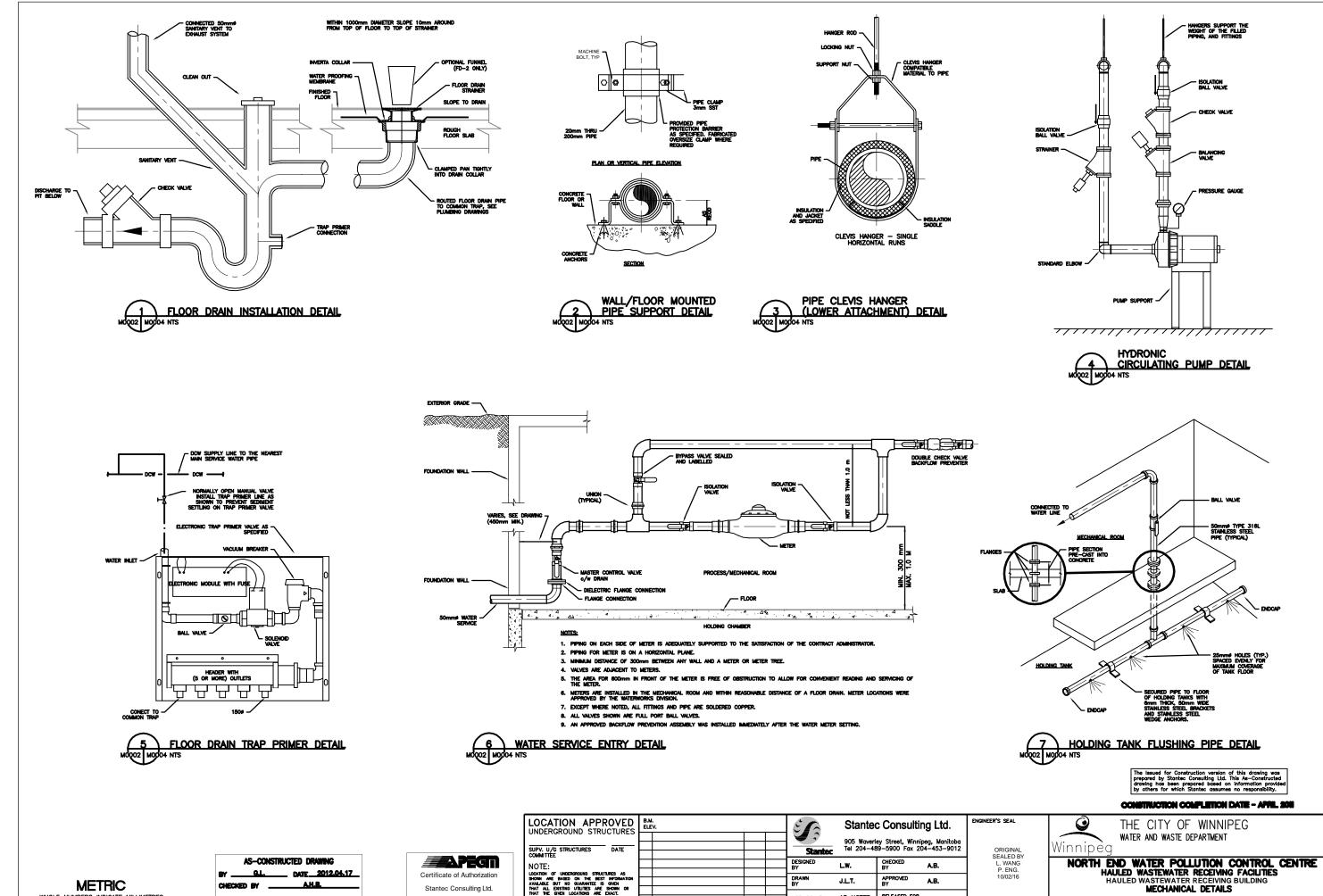
MECHANICAL SECTIONS

OPPORTUNITY NO.

822-2009

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THE CITY OF WINNIPEG



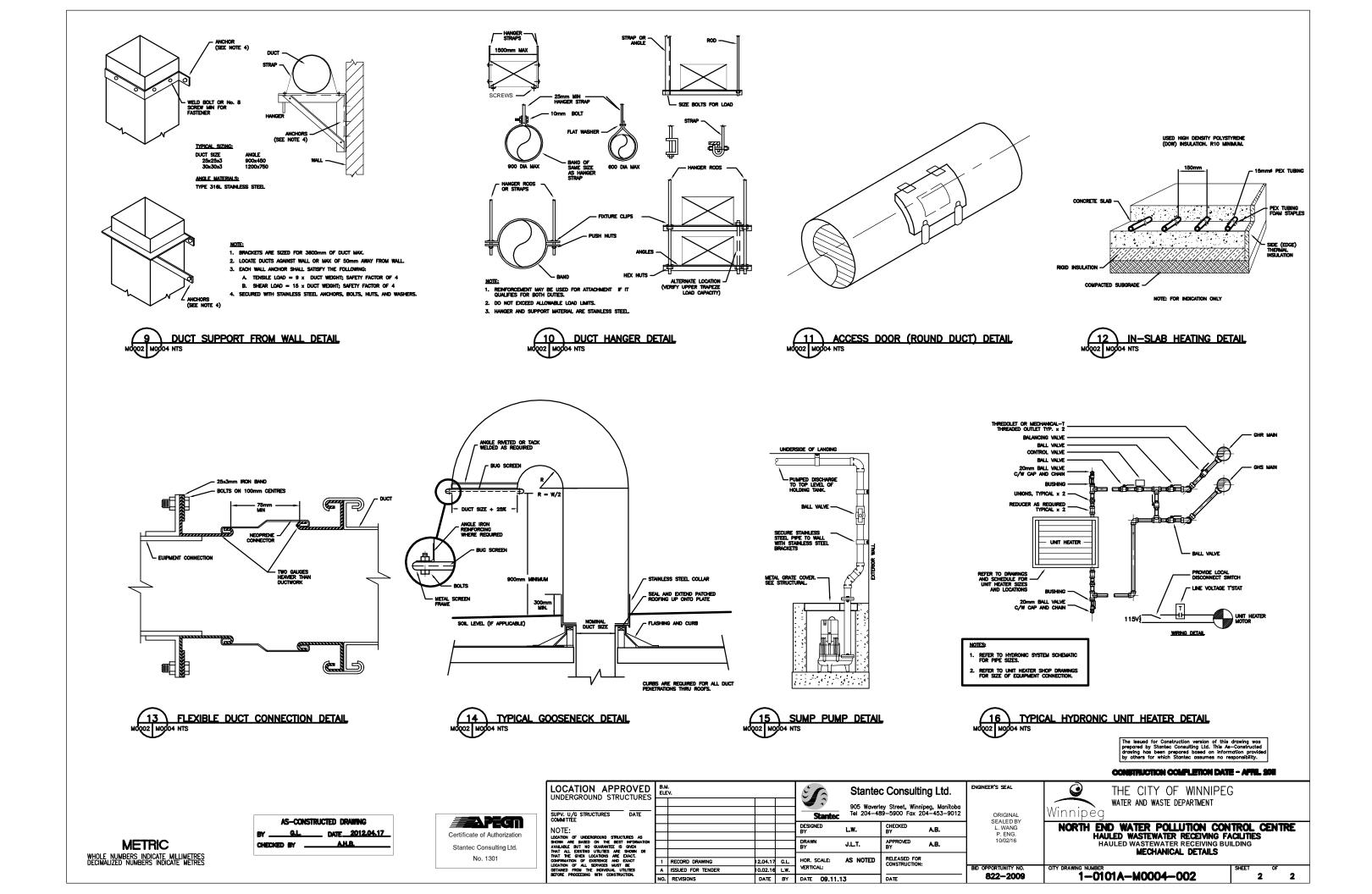
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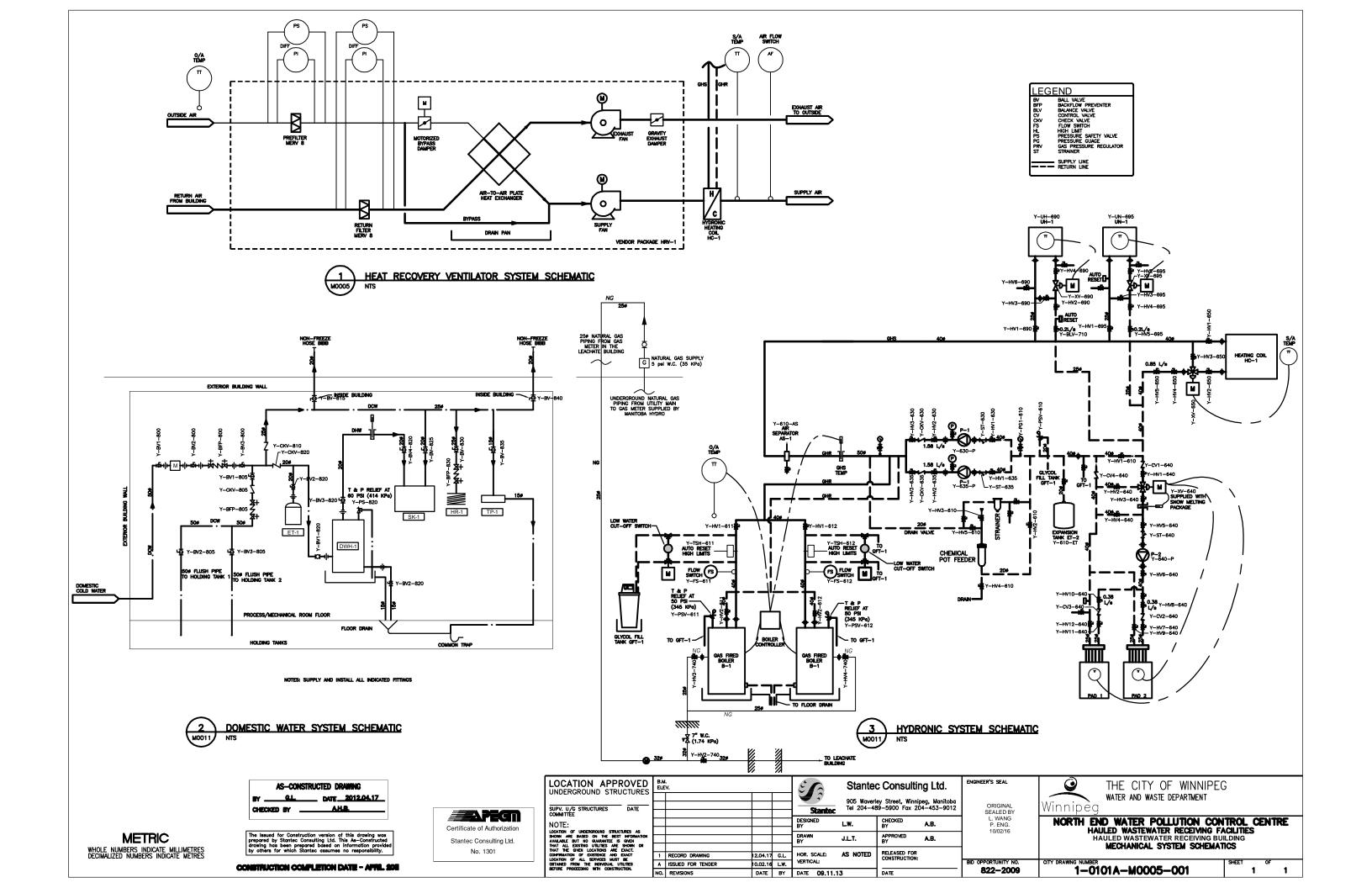
Stantec Consulting Ltd. No. 1301

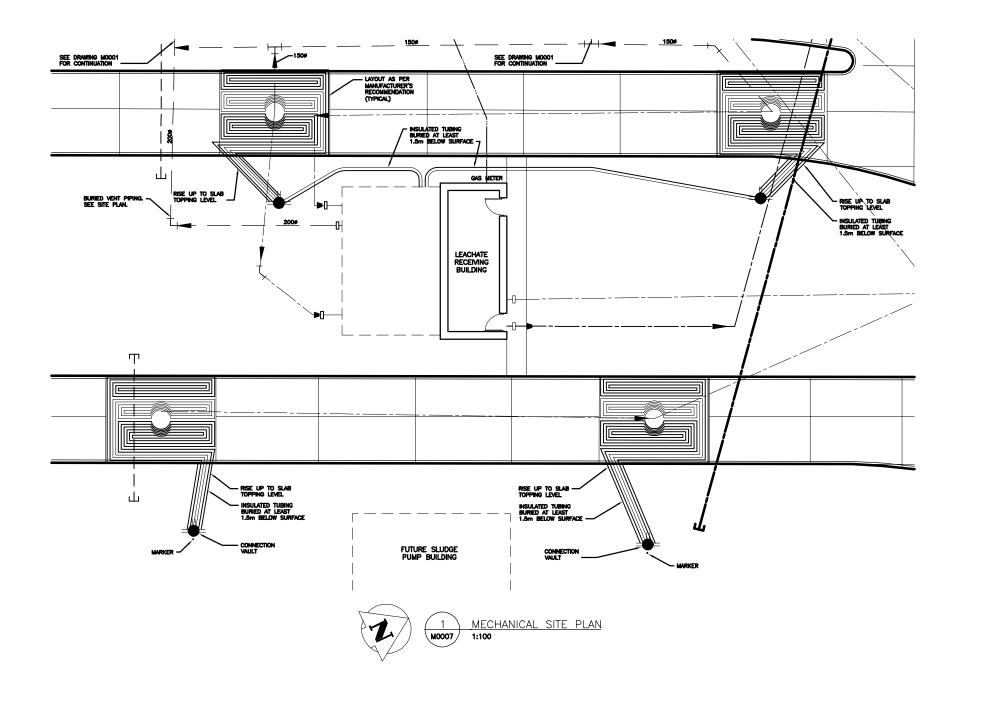
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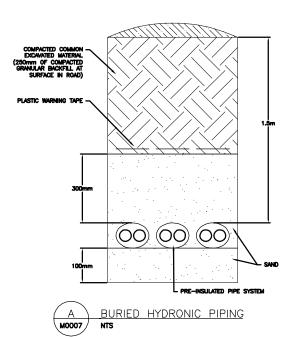
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822-2009









CONSTRUCTION COMPLETION DATE - APRIL 2011

AS-CONSTRUCTED DRAWING G.L. DATE 2012.04.17 CHECKED BY _____

Certificate of Authorization Stantec Consulting Ltd.

LOCATION APPROVED UNDERGROUND STRUCTURES	B.M ELE		
CHDENGROUND STRUCTURES			
SUPV. U/G STRUCTURES DATE			
COMMITTEE			
NOTE:			
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION			
AVAILABLE BUT NO GUARANTEE IS GIVEN			
THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE CIVEN LOCATIONS ARE EXACT.			
CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE	1	RECORD DRAWING	12.04.
OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	٨	ISSUED FOR TENDER	10.02.
EL GE PROGESIAS WITH CONSTRUCTION	NO.	REVISIONS	DATE

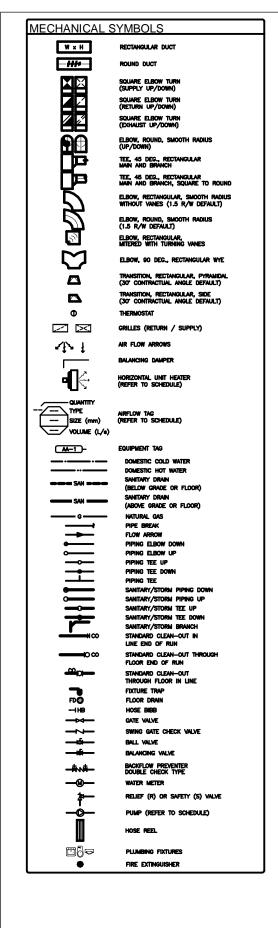
		ENGINEER'S SEAL								
	Stantec	905 Waverley Street, Winnipeg, Manitoba Tel 204–489–5900 Fax 204–453–9012								
	DESIGNED BY	L.W.	CHECKED BY	A.B.	SEALED BY L. WANG P. ENG.					
	DRAWN BY	J.L.T.	APPROVED BY	A.B.	10/02/16					
_	HOR. SCALE: VERTICAL:	AS NOTED	RELEASED FOR CONSTRUCTION:		BID OPPORTUNITY NO.					
	DATE 09.11.1	3	DATE	,	822-2009					

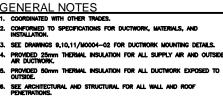
THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT Winnipèg

NORTH END WATER POLLUTION CONTROL CENTRE
HAULED WASTEWATER RECEIVING FACILITIES
LEACHATE RECEIVING BUILDING
MECHANICAL SITE PLAN

TY DRAWING NUMBER 1—0101A—M0007—001 -2009

METRIC WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES





INSTALLED ONE O/A TEMPERATURE SENSOR ON NORTH WALL.

PROVIDED PLUMBING VENTS AND CLEANOUTS AS PER CODE.

2. ALL SANITARY PIPE GREATER THAN 75# @1% SLOPE. UNLESS SPECIFIED. 5. ALL SANITARY PIPE EQUAL OR SMALLER THAN 75# 02% SLOPE. UNLESS SPECIFIED.

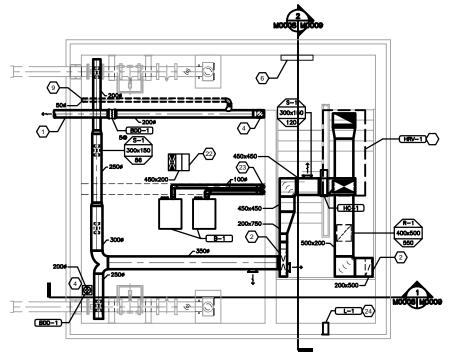
. PROVIDED BALANCING DAMPERS TO ALL SUPPLY/RETURN DIFFUSERS.

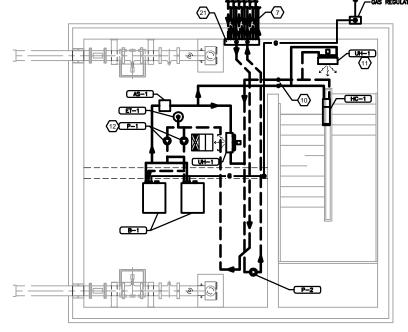
ALL HANGING RODS, BRACKETS, FLOOR SUPPORTS, AND SUPPORT ACCESSORIES ARE TYPE 316L STAINLESS STEEL.

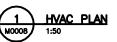
MECHANICAL KEYNOTES

- DUCTWORK RISER EXTENDED TO ROOF LEVEL. SEE DRAWING MOOO3 FOR SECTION VIEWS.

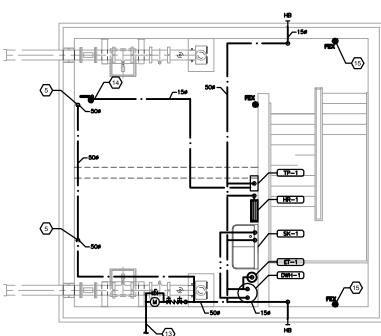
- LOCATED HRV-1 CONTROL PANEL AT TOP LEVEL OF STAIRCASE, INSIDE ENTRY DOOR.
- HYDRONIC PIPING TO MANHOLE PADS, SEE MECHANICAL SITE PLAN DRAWING 1/M0001, FOR CONTINUATION.
- SLOPED FLOOR TO FLOOR DRAINS.
- CONNECTED SANITARY VENT TO HOLDING TANK EXHAUST DUCT.
- . UNIT HEATER SUSPENDED FROM ROOF AT TOP LEVEL OF STAIRCASE.
- 12. SEE DRAWING 4/M0004-01 FOR PUMP INSTALLATION DETAILS.
- 3. CONNECTED TO DOMESTIC WATER SERVICE, SEE SITE PLAN FOR CONTINUATION. SEE DRAWING 6/M0004-01 FOR WATER SERVICE ENTRY DETAIL.
- I. CONNECTED WATER LINE FROM TRAP PRIMER (TP-1) TO COMMON SANITARY TRAP. SEE DRAWINGS 1,5/M0004-01 FOR DETAILS.
- . Sanitary line drained into holding tank. See drawing 1/M0004—01 For Details.
- I. NATURAL GAS SERMCE. SEE CIVIL SITE PLAN FOR CONTINUATION.
-). PROVIDED 25mm# DRAINAGE PIPING FROM HEATING COIL (HC-1) AND HEAT RECOVERY VENTILATOR (HRV-1) TO FUNNEL FLOOR DRAIN (FD-2) / TOP LEVEL OF STAIRCASE. SEE DRAINING MODOS FOR SECTION MEMS.
- 1. HYDRONIC MANIFOLD.
- COMBUSTION AIR INTAKE PENETRATED ROOF. CONFORMED TO CURRENT MANITOBA GAS CODE. SEE DRAWING MOOO3 FOR SECTION VIEWS.

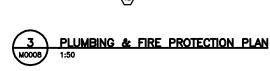


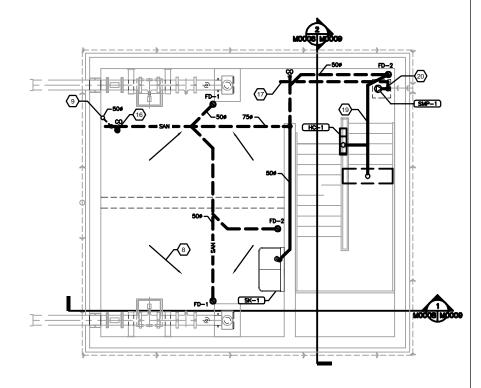










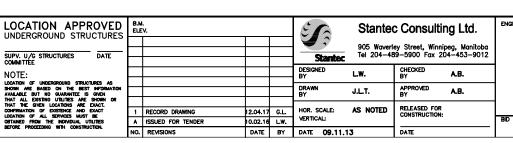




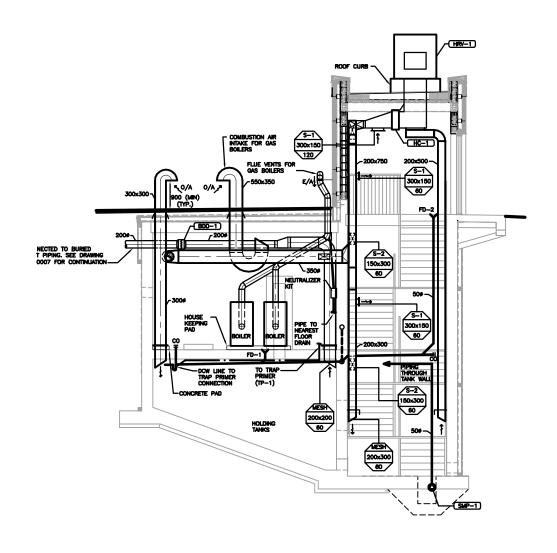
SANITARY PLAN

CONSTRUCTION COMPLETION DATE - AFFEL 201

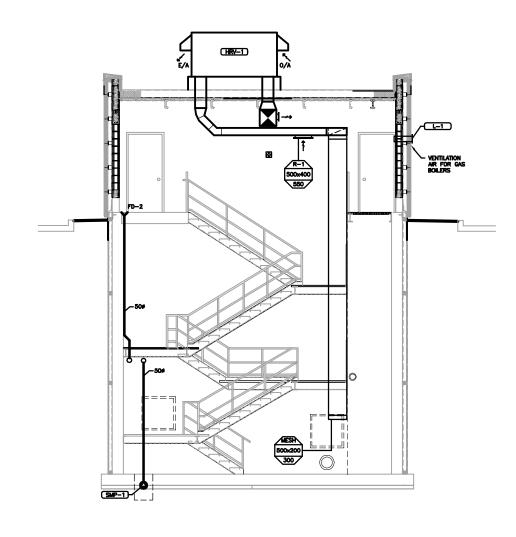
AS-CONSTRUCTED DRAWING ____ DATE <u>2012.04.17</u> CHECKED BY ___ Stantec Consulting Ltd. No. 1301













CONSTRUCTION COMPLETION DATE - APPL 201

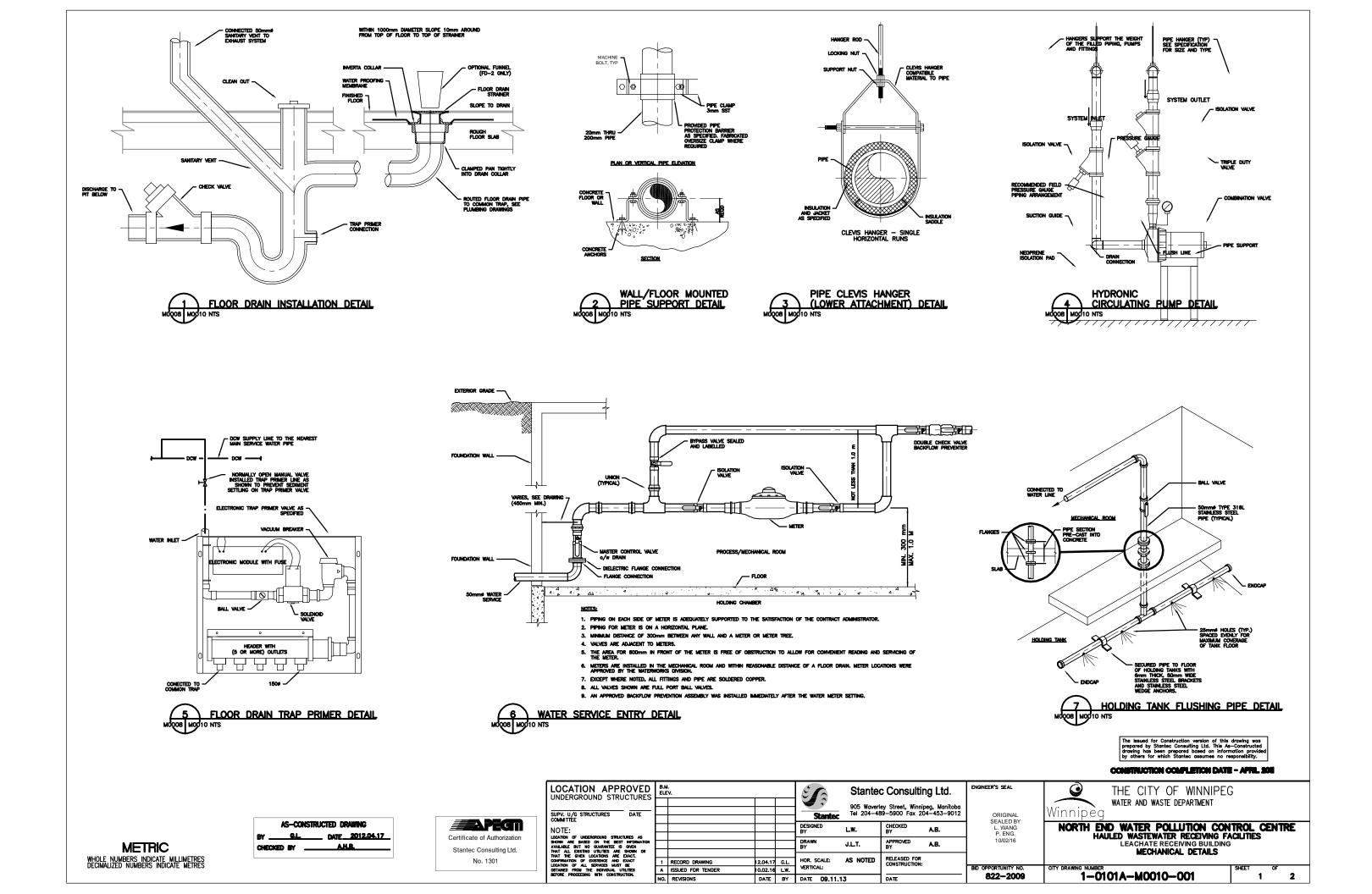
RECORD DRAWING G.L. DATE 2012.04.17 Stantec Consulting Ltd. No. 1301

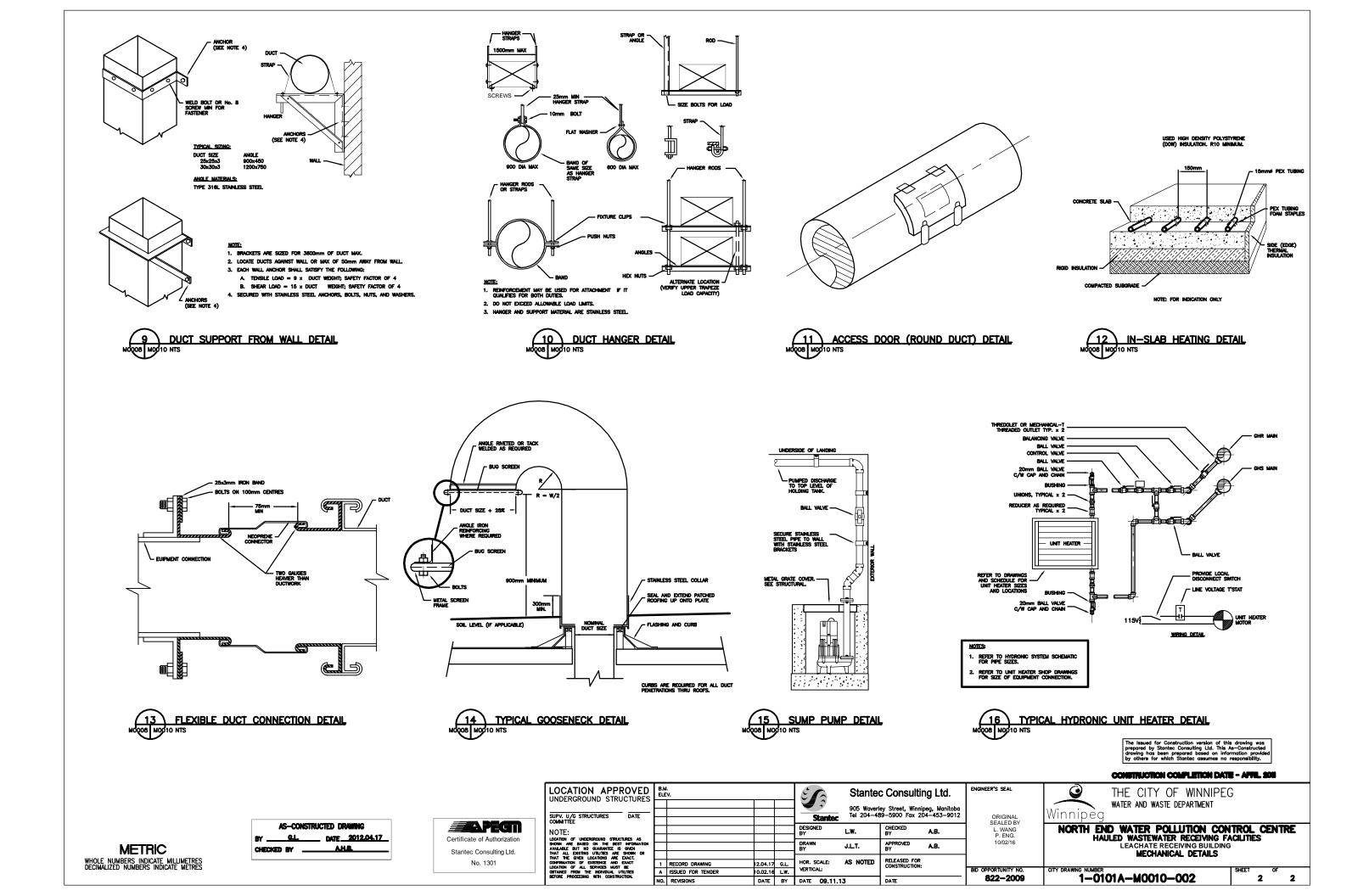
LOCATION APPROVED UNDERGROUND STRUCTURES	B.M ELE				50	Stante	Stantec Consulting Ltd.		
SUPV. U/G STRUCTURES DATE					Stantec	905 Waverl Tel 204–48	ey Street, Winnip 39–5900 Fax 20	eg, Manitoba 4-453-9012	
NOTE:					DESIGNED BY	L.W.	CHECKED BY	A.B.	
SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR					DRAWN BY	J.L.T.	APPROVED BY	A.B.	
THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE	1	RECORD DRAWING	12.04.17		HOR. SCALE: VERTICAL:	AS NOTED	RELEASED FOR CONSTRUCTION:		
OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	NO.	ISSUED FOR TENDER REVISIONS	10.02.16 DATE	BY	DATE 09.11.1	3	DATE		

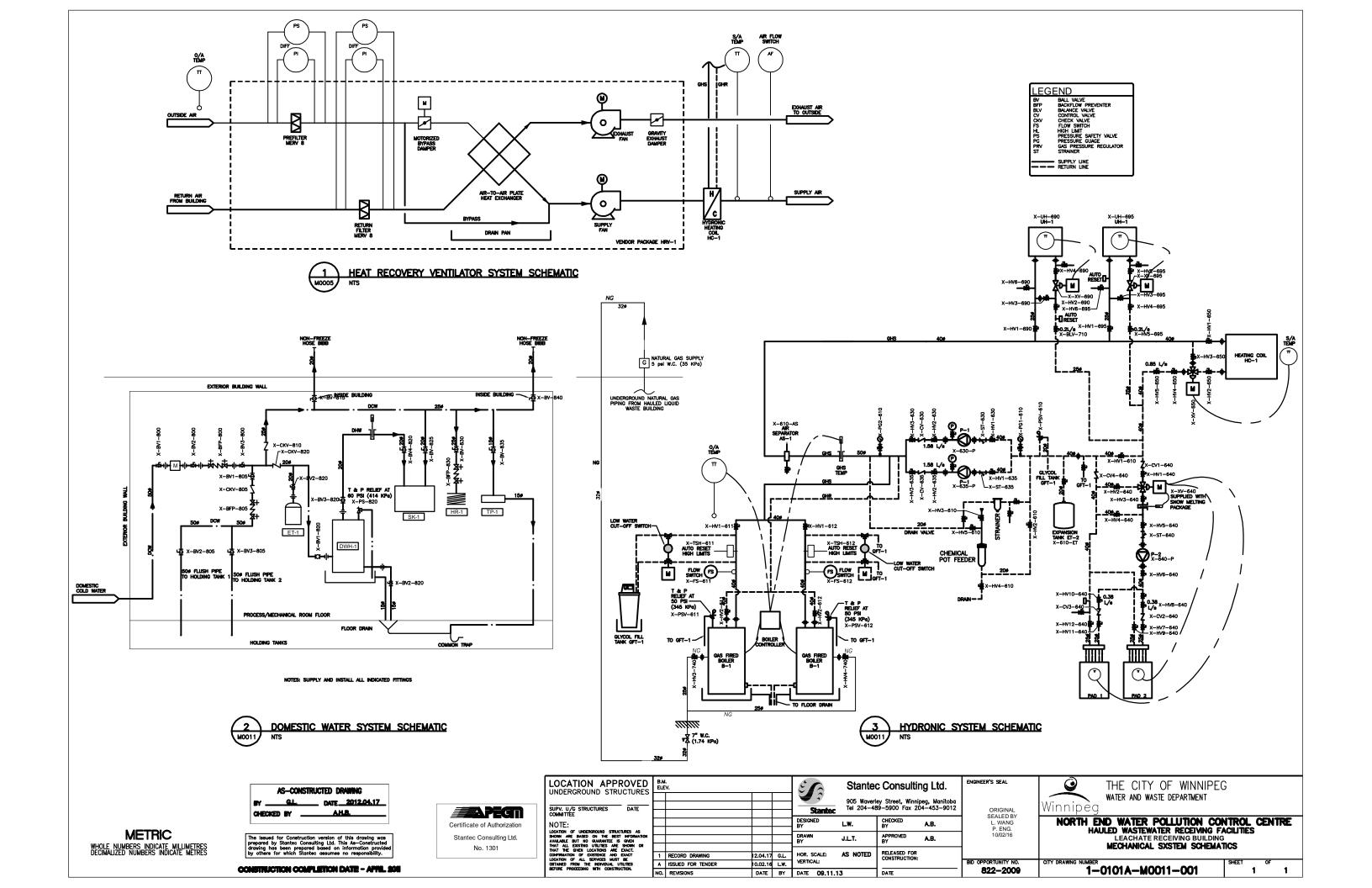
WATER AND WASTE DEPARTMENT Winnipèg ORIGINAL SEALED BY L. WANG P. ENG. 10/02/16 NORTH END WATER POLLUTION CONTROL CENTRE
HAULED WASTEWATER RECEIVING FACILITIES
LEACHATE RECEIVING BUILDING
MECHANICAL SECTIONS DRAWING NUMBER 1-0101A-M0009-001 822-2009

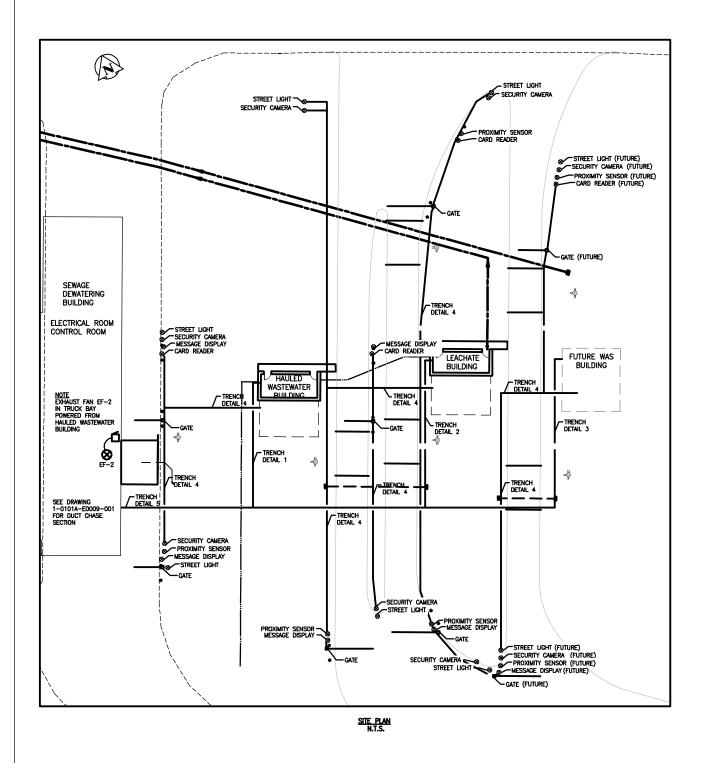
THE CITY OF WINNIPEG

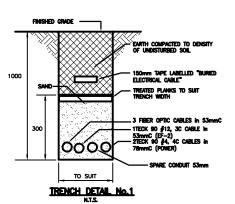
METRIC WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

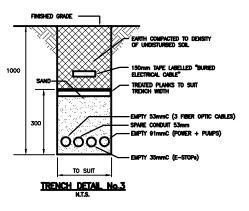


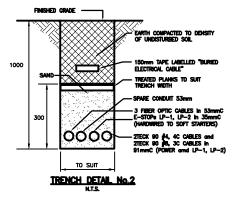


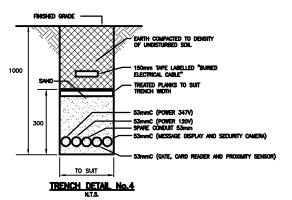












11122233303070000128(1) 18 18 17 18 18

- 1) 3 FIBER OPTIC CABLES (HAULED WASTEMATER BLDG.)
 2) 3 FIBER OPTIC CABLES (LEACHATE BLDG.)
 3) 3 FIBER OPTIC CABLES (FUTURE WAS BLDG.)
 4) REDUNDANT FIBER OPTIC CABLE (HAULED WASTEMATER BLDG.)
 6) REDUNDANT FIBER OPTIC CABLE (LEACHATE BLDG.)
 7) REDUNDANT FIBER OPTIC CABLE (TUTURE WAS BLDG.)
- 7) LEACHATE PUMPS LP-1; LP-2 E-STOP CABLE (LEACHATE BLDG.) 8) LEACHATE PUMP LP-X; LP-Y E-STOP CABLE (FUTURE WAS BLDG.) 9) LEACHATE PUMP LP-X POWER CABLE (FUTURE WAS BLDG.)
- 10) LEACHATE PUMP LP-Y POWER CABLE (FUTURE WAS BLDG.)
 11) LEACHATE PUMP LP-1 POWER CABLE (LEACHATE BLDG.)
 12) LEACHATE PUMP LP-2 POWER CABLE (LEACHATE BLDG.)
- 14) FUTURE WAS BLDG. POWER CABLE #1
- 15) FUTURE WAS BLDG. POWER CABLE #2 16) LEACHATE BLDG, POWER CABLE #1
- 17) LEACHATE BLDG. POWER CABLE #2 18) HAULED WASTEWATER BLDG. POWER CABLE #1
 19) HAULED WASTEWATER BLDG. POWER CABLE #2
 - DEWATERING BUILDING CABLE TRAY 24°×3° DETAIL N.T.S.

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TRENCH DETAIL No.5

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· 53mmC (FIBER OPTIC - 3 BLDGS.) · 53mmC (SPARE - 3 BLDGS.) · 53mmC (EXHAUST FAN EF-2)

35mmC (E-STOPe - 2 BLDGS.)

91mmC (POWER - LEACHATE BLDG. and FUTURE WAS BLDG.)

78mmC (POWER - HAULED WASTEWATER BLDG.)

- 1) SECURITY CAMERIAS ARE MOUNTED ON STREET LIGHT POLES (TOP OF LOWER SECTION OF POLE).
 2) ONE LIGHTING FIXTURE 400M, 347V, 1P, HPS TO BE MOUNTED ON TOP OF POLE.
 3) SEX NEW POLES NEEDED AS PER SPEC.
 4) FOR FIXTURE WAS BLOG. RISTALLED COMDUTS ONLY.
 5) INSTALLED REDURBANT FIBER OPTIC CAPILES IN SPARE CONDUTS.
 6) INSTALLED NEW CABLE TRY 247°CS "FROM POINT WHERE CABLES/CONDUTS ENTER DEMATERING BUILDING TO ELECTRICAL AND CONTROL ROOM. APPROXIMATE LENGTH 50M.

CONSTRUCTION CONFLETION DATE - SPTEMBER 2011

UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES DATE COMMITTEE NOTE:

LOCATION APPROVED B.M. ELEV Stantec Consulting Ltd. ENGINEER'S SEAL 905 Waverley Street, Winnipeg, Manitoba Tel 204-489-5900 Fax 204-453-9012 ORIGINAL SEALED BY S. TREBIC P. ENG. CHECKED D.D APPROVED 3 RECORD DRAWING 12.04.17 G.L. REVISED AS PER ADDENDUM #3 RELEASED FOR CONSTRUCTION: HOR. SCALE: VERTICAL: REVISED AS PER ADDENDUM #2 ISSUED FOR TENDER 10.02.16 S.T. 822-2009 NO. REVISIONS DATE BY DATE 09.11.20

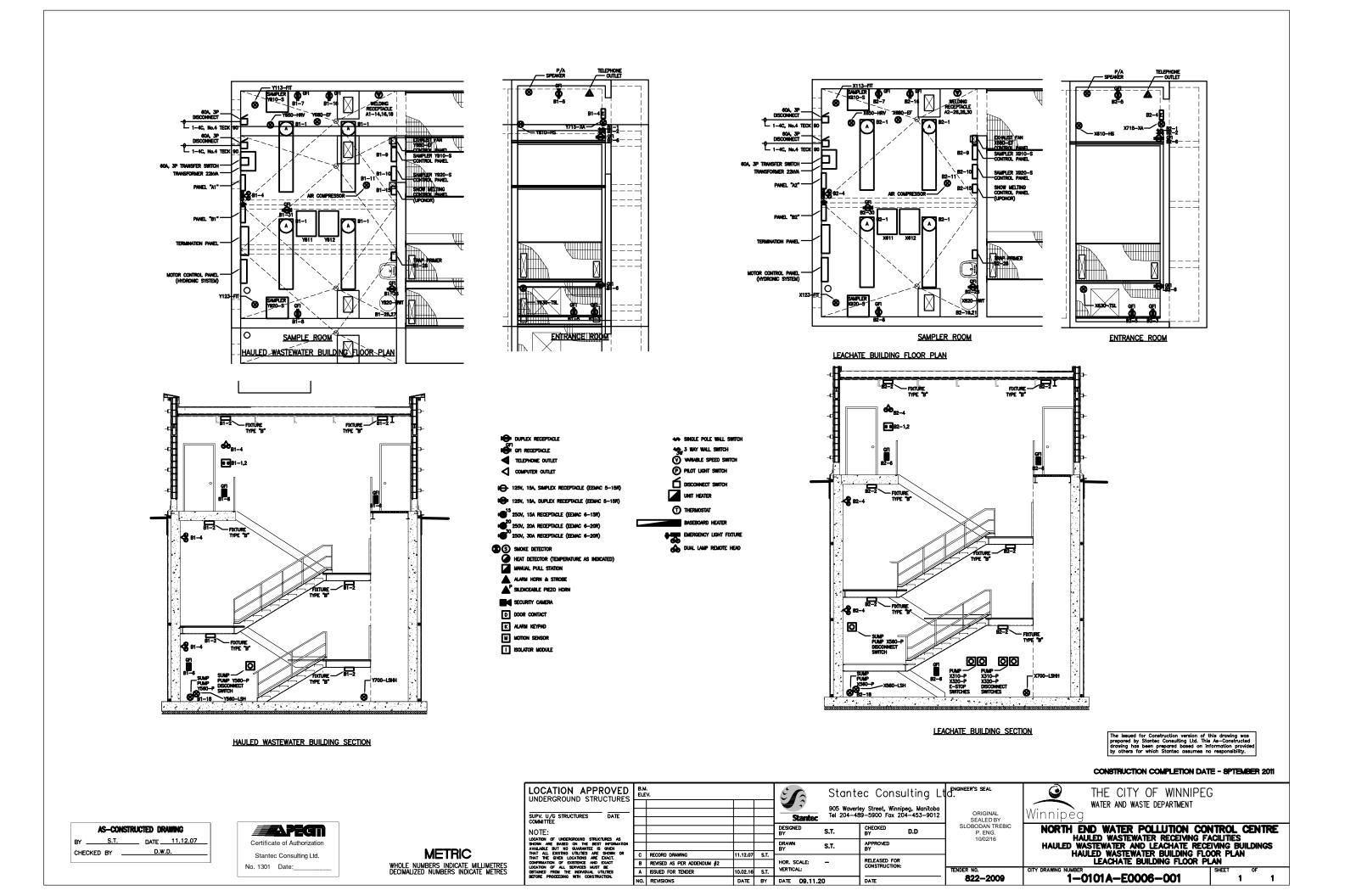
WATER AND WASTE DEPARTMENT Winnipèq NORTH END WATER POLLUTION CONTROL CENTRE
HAULED WASTEWATER RECEIVING FACILITIES
HAULED WASTEWATER AND LEACHATE RECEIVING BUILDINGS
SITE PLAN, TRENCH DETAILS

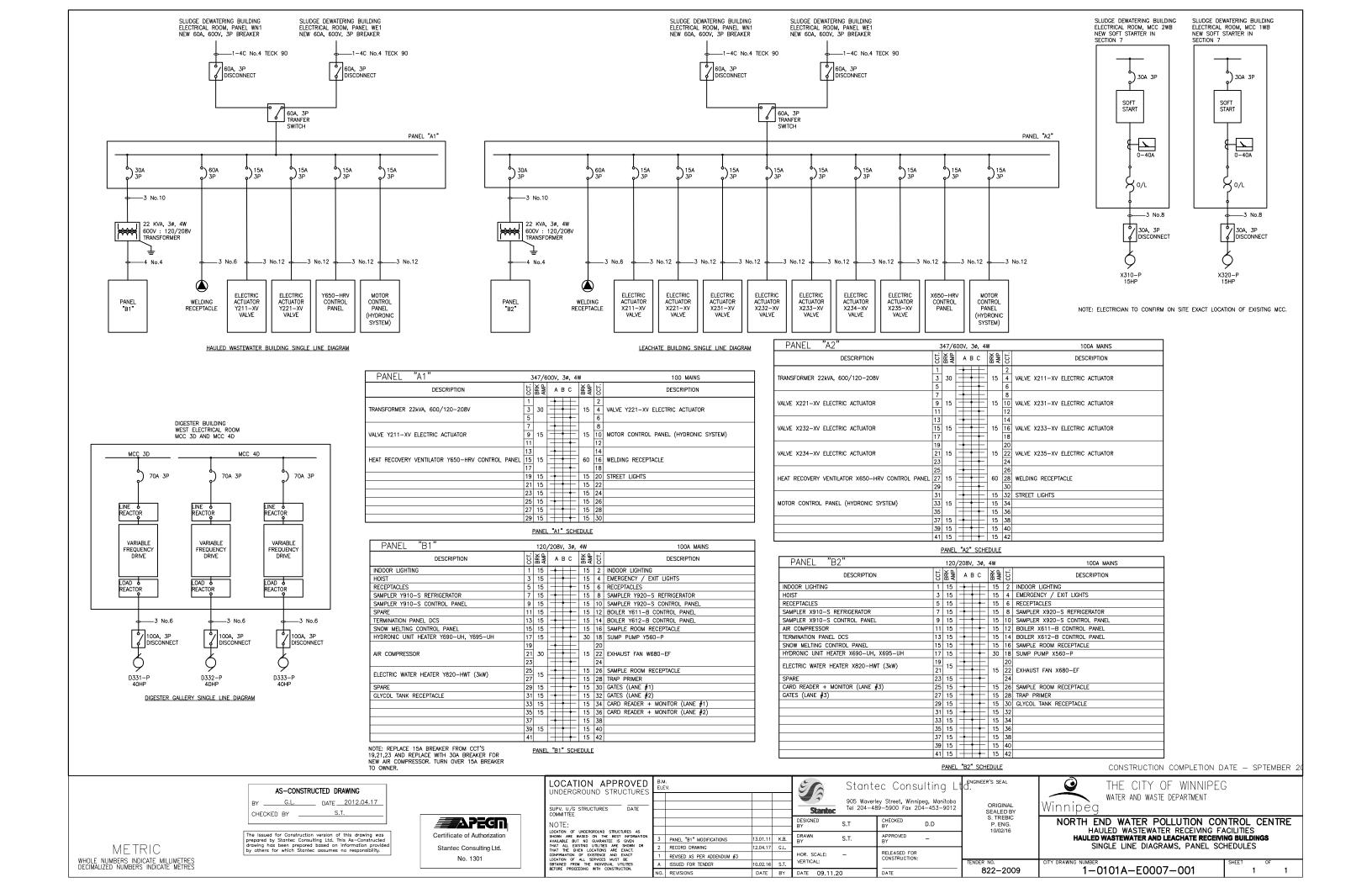
THE CITY OF WINNIPEG

1-0101A-E0005-001

METRIC WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES CHECKED BY ____

APEGN AS-CONSTRUCTED DRAWING Certificate of Authorization ___ DATE __2012.04.17 Stantec Consulting Ltd. No. 1301





			М	OTO	R SCHEDULE			
No.	£	DESCRIPTION	VOLTS	•	STARTER TYPE	STARTER LOCATION	CONTROL	FEEDER
Y211-XV	F.R.	VALVE Y211-XV ACTUATOR	600	3	-	-	AS SHOWN	3 No.12
Y221-XV	F.R.	VALVE Y221-XV ACTUATOR	600	3	-	-	AS SHOWN	3 No.12
Y690-XV	F.R.	CONTROL VALVE Y690-XV ACTUATOR	24	1	-	-	AS SHOWN	2 No.12
Y695-XV	F.R.	CONTROL VALVE Y695-XV ACTUATOR	24	1	-	-	AS SHOWN	2 No.12
Y650-XV	F.R.	CONTROL VALVE Y650-XV ACTUATOR	24	1	-	-	AS SHOWN	2 No.12
Y650-HRV	1.5	Y650-HRV SUPPLY FAN	600	3	FVNR	Y650-HRV PANEL	AS SHOWN	3 No.12
Y650-HRV	1	Y650—HRV RETURN FAN	600	3	FVNR	Y650-HRV PANEL	AS SHOWN	3 No.12
Y630-P	0.75	BOILER PUMP Y630-P	600	3	FVNR	MOTOR CTR'L PANEL	AS SHOWN	3 No.12
Y635-P	0.75	BOILER PUMP Y635-P	600	3	FVNR	MOTOR CTR'L PANEL	AS SHOWN	3 No.12
Y640-P	0.75	PAD LOOP PUMP Y840-P	600	3	FVNR	MOTOR CTR'L PANEL	AS SHOWN	3 No.12
Y560-P	0.5	SUMP PUMP Y560-P	120	1	-	-	AS SHOWN	2 No.12
Y690-UH	0.25	HYDRONIC UNIT HEATER Y690—UH	120	1	_	_	AS SHOWN	2 No.12
Y695-UH	0.25	HYDRONIC UNIT HEATER Y695-UH	120	1	_	_	AS SHOWN	2 No.12
Y820-HWT	3kW	ELECTRIC WATER HEATER Y820-HWT	208	1	-	-	INTEGRAL T-STAT	2 No.12
Y680-EF	0.5	EXHAUST FAN Y680-EF	208	3	-	-	AS SHOWN	3 No.12
W680-EF	1.5	EXHAUST FAN W680-EF	208	3	_	_	AS SHOWN	3 No.12

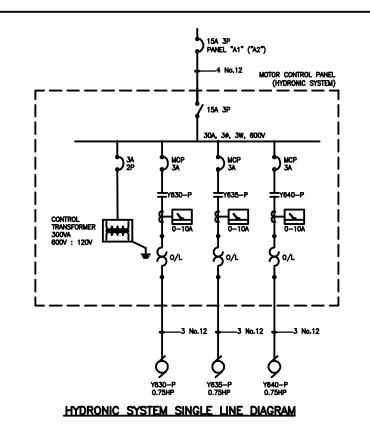
NEWPCC HAULED WASTEWATER BUILDING MOTOR SCHEDULE

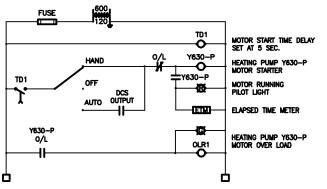
MOTOR SCHEDULE											
No.	HP	DESCRIPTION	VOLTS	STARTER TYPE STARTER LOCATION		CONTROL	FEEDER				
X310-P	15	LEACHATE PUMP X310-P	600	3	SOFT STARTER	DEW. BLDG. MCC	AS SHOWN	3 No.8			
X320-P	15	LEACHATE PUMP X320-P	600	3	SOFT STARTER	DEW. BLDG. MCC	AS SHOWN	3 No.8			
X211-XV	F.R.	VALVE X211-XV ACTUATOR	600	3	-	-	AS SHOWN	3 No.12			
X221-XV	F.R.	VALVE X221-XV ACTUATOR	600	3	-	-	AS SHOWN	3 No.12			
X231-XV	F.R.	VALVE X231-XV ACTUATOR	600	3	-	-	AS SHOWN	3 No.12			
X232-XV	F.R.	VALVE X232-XV ACTUATOR	600	3	-	-	AS SHOWN	3 No.12			
X233-XV	F.R.	VALVE X233-XV ACTUATOR	600	3	-	-	AS SHOWN	3 No.12			
X234-XV	F.R.	VALVE X234-XV ACTUATOR	600	3	-	-	AS SHOWN	3 No.12			
X235-XV	F.R.	VALVE X235-XV ACTUATOR	600	3	-	-	AS SHOWN	3 No.12			
X690-XV	F.R.	CONTROL VALVE X690-XV ACTUATOR	24	1	-	-	AS SHOWN	2 No.12			
X695-XV	F.R.	CONTROL VALVE X695-XV ACTUATOR	24	1	-	-	AS SHOWN	2 No.12			
X650-XV	F.R.	CONTROL VALVE X650-XV ACTUATOR	24	1	-	-	AS SHOWN	2 No.12			
X650-HRV	1.5	X650-HRV SUPPLY FAN	600	3	FVNR	X650-HRV PANEL	AS SHOWN	3 No.12			
X650-HRV	1	X650-HRV RETURN FAN	600	3	FVNR	X650-HRV PANEL	AS SHOWN	3 No.12			
X630-P	0.75	BOILER PUMP X630-P	600	3	FVNR	MOTOR CTR'L PANEL	AS SHOWN	3 No.12			
X635-P	0.75	BOILER PUMP X635-P	600	3	FVNR	MOTOR CTR'L PANEL	AS SHOWN	3 No.12			
X640-P	0.75	PAD LOOP PUMP X640-P	600	3	FVNR	MOTOR CTR'L PANEL	AS SHOWN	3 No.12			
X560-P	0.5	SUMP PUMP X560-P	120	1	-	-	AS SHOWN	2 No.12			
X690-UH	0.25	HYDRONIC UNIT HEATER X690—UH	120	1	-	-	AS SHOWN	2 No.12			
X695-UH	0.25	HYDRONIC UNIT HEATER X695-UH	120	1	-	-	AS SHOWN	2 No.12			
X820-HWT	3kW	ELECTRIC WATER HEATER X820-HWT	208	1	-	-	INTEGRAL T-STAT	2 No.12			
X680-EF	0.5	EXHAUST FAN X680-EF	208	3	-	-	as shown	3 No.12			

NEWPCC LEACHATE BUILDING MOTOR SCHEDULE

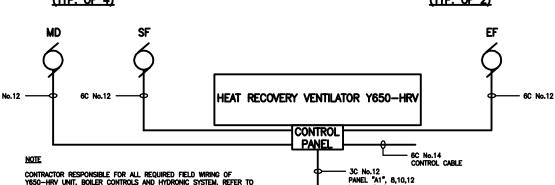
	MOTOR SCHEDULE												
No.	HP	DESCRIPTION	VOLTS	•	STARTER TYPE	STARTER LOCATION	CONTROL	FEEDER					
D331-P	40	LEACHATE PUMP D331-P	600	3	VFD	DIG. GAL. MCC	as shown	3 No.6					
0332-P	40	LEACHATE PUMP D332-P	600	3	VFD	DIG. GAL. MCC	AS SHOWN	3 No.6					
0333-P	40	LEACHATE PUMP D333-P	600	3	VFD	DIG. GAL. MCC	AS SHOWN	2 No.6					

NEWPCC DIGESTER GALLERY MOTOR SCHEDULE



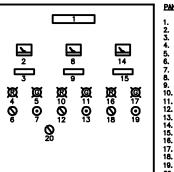


HEATING PUMP Y630-P MOTOR WIRING DIAGRAM (TYP. OF 4)



HEAT RECOVERY VENTILATOR Y650-HRV DETAIL (TYP. OF 2)

PANEL LEGEND

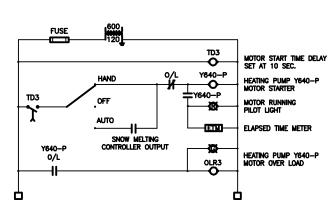


IDENTIFICATION LAMACOID PUMP Y630—P AMMETER PUMP Y630—P ELAPSED TIME METER PUMP Y630—P RUN PILOT LIGHT PUMP Y630-P RUN PILOT LIGHT
PUMP Y630-P PO/L PILOT LIGHT
PUMP Y630-P PO/L PILOT LIGHT
PUMP Y630-P O/L RESET PUSH BUTTON
PUMP Y635-P AMMETER
PUMP Y635-P PLAPSED TIME METER
PUMP Y635-P PLAPSED TIME METER
PUMP Y635-P PO/L PILOT LIGHT
PUMP Y635-P PO/L PILOT LIGHT
PUMP Y635-P O/L RESET PUSH BUTTON
PUMP Y635-P AMMETER
PUMP Y640-P AMMETER
PUMP Y640-P PLAPSED TIME METER
PUMP Y640-P PLAPSED TIME METER
PUMP Y640-P PUMP Y640-P RUN PILOT LIGHT
PUMP Y640-P PUMP Y640-P HO/L RIGHT
PUMP Y640-P HO/L PILOT LIGHT
PUMP Y640-P J/L RESET PUSH BUTTON
PUMP Y630-P / Y635-P SELECTOR SWITCH

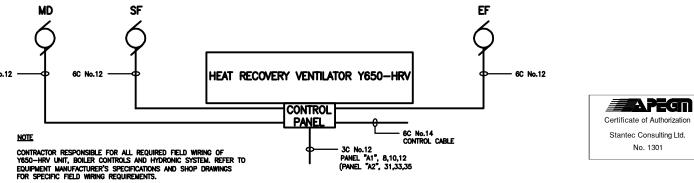
- 1) MOTOR STARTERS FOR PUMPS Y630-P, Y635-P AND Y640-P.
 2) TRANSFORMERS 120V/24V FOR BELIMO ACTUATORS FOR Y890-XV, Y695-XV AND Y650-XV.

- 1) ON-OFF BELINO ACTUATORS Y630-XV AND Y635-XV CONTROLLED BY Y690-UH AND Y695-UH THERMOSTATS.
 2) MODULATING BELINO ACTUATOR Y650-XV CONTROLLED BY DCS.

MOTOR CONTROL PANEL (HYDRONIC SYSTEM) PROPOSED LAYOUT



HEATING PUMP Y640-P MOTOR WIRING DIAGRAM (TYP. OF 2)



CONSTRUCTION COMPLETION DATE - SPTEMBER 2

AS-CONSTRUCTED DRAWING S.T. DATE 11.12.06 D.W.D. CHECKED BY ____

LOCATION APPROVED B.M. UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES DATE COMMITTEE NOTE:

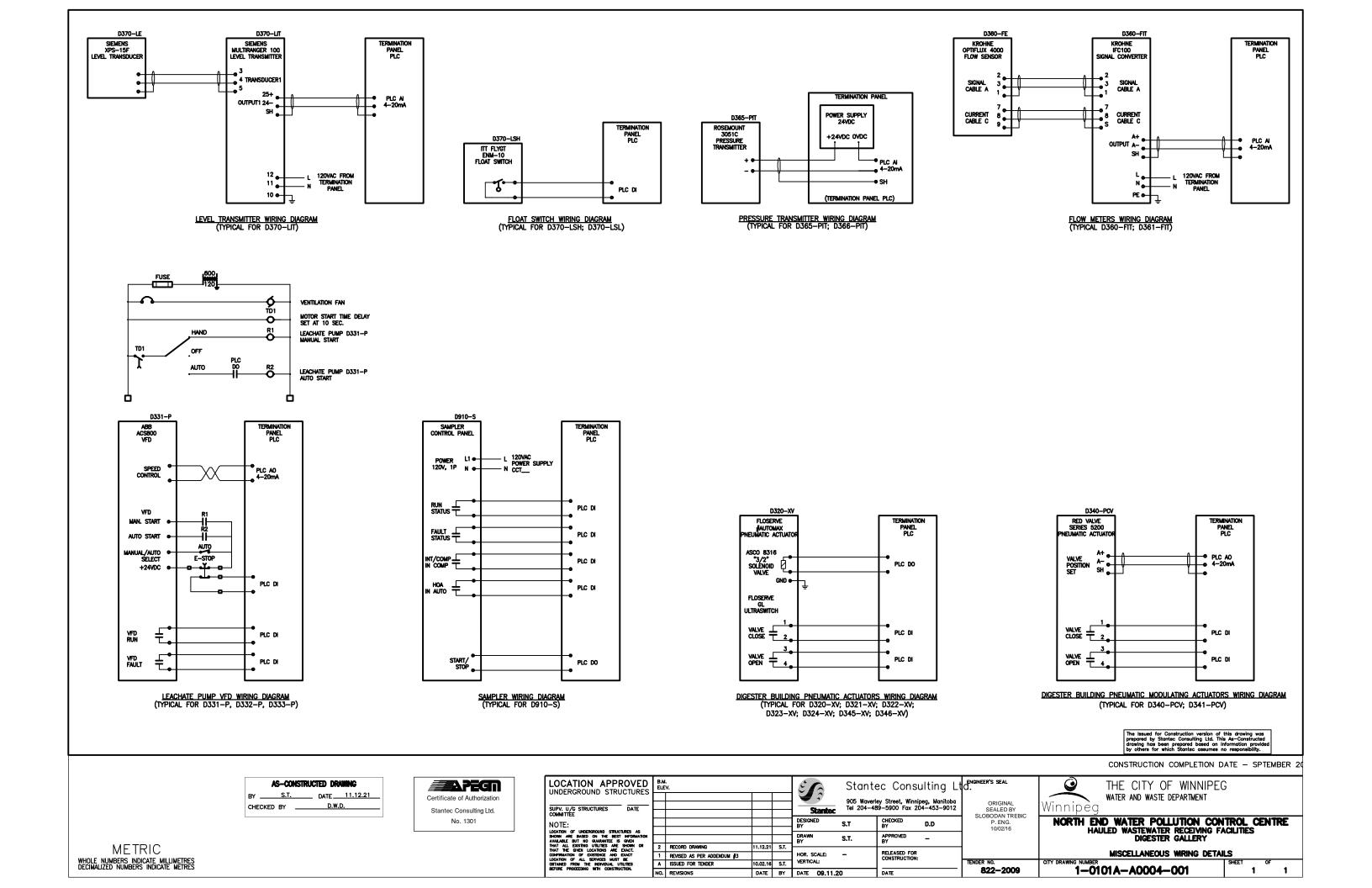
Stantec Consulting L 905 Waverley Street, Winnipeg, Manitoba Tel 204-489-5900 Fax 204-453-9012 ORIGINALLY SIGNED BY: SLOBODAN TREBIC FEB 16, 2010 CHECKED D.D APPROVED RECORD DRAWING 11.12.06 S.T. RELEASED FOR CONSTRUCTION: HOR. SCALE: REVISED AS PER ADDENDUM #2 10.02.16 S.T. DATE BY DATE 10.02.10

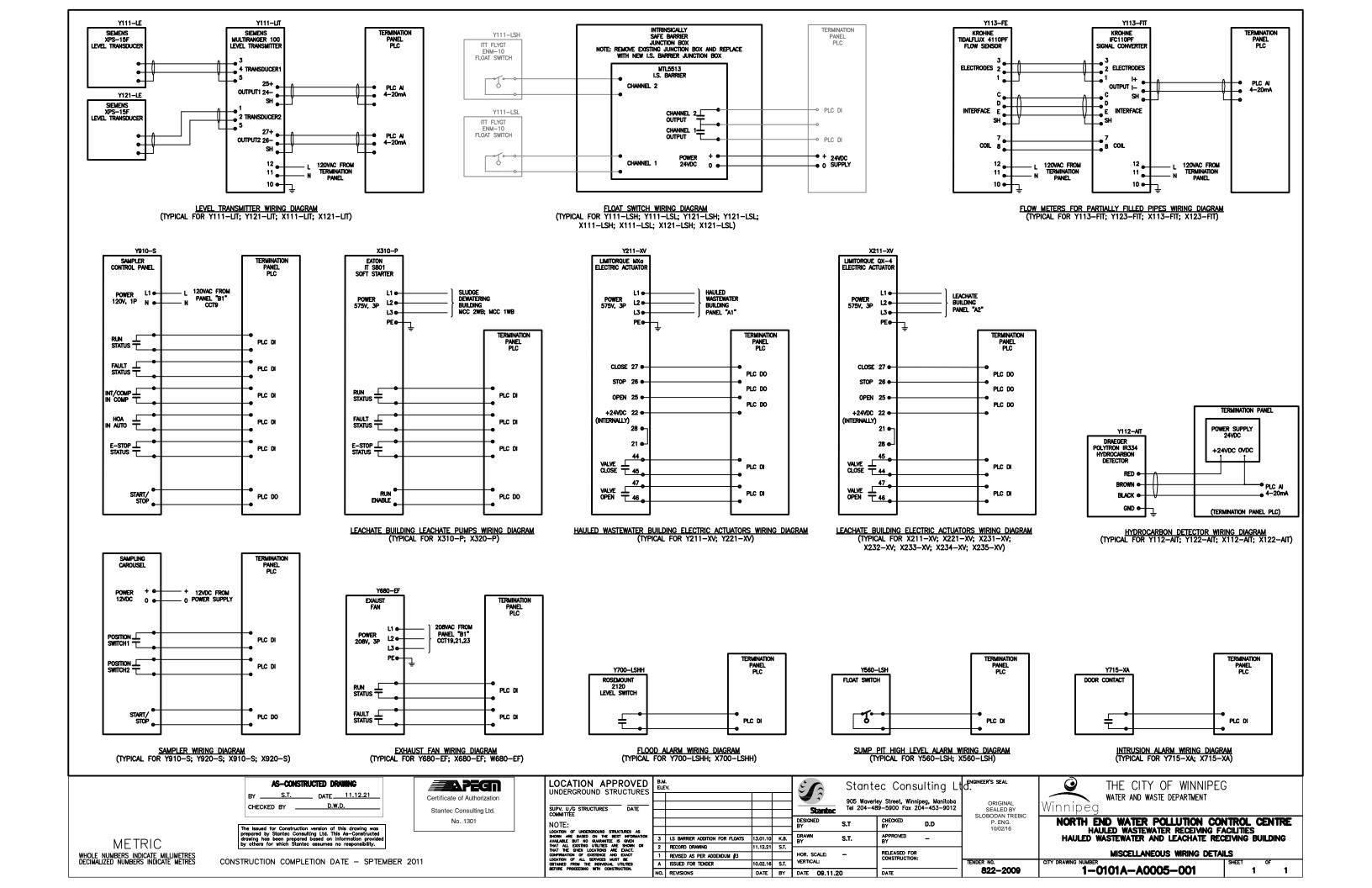
THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT Vinnipèa

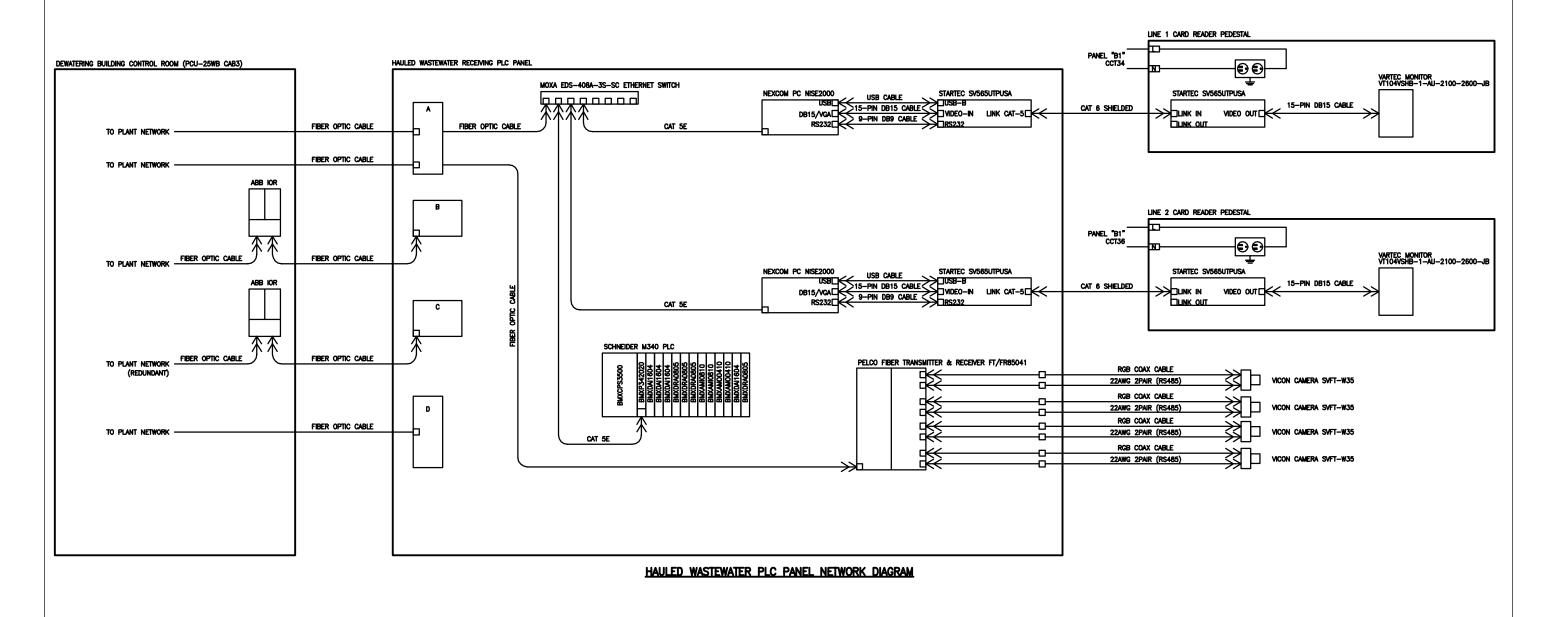
NORTH END WATER POLLUTION CONTROL CENTRE
HAULED WASTEWATER RECEIVING FACILITIES
HAULED WASTEWATER AND LEACHATE RECEIVING BUILDINGS

MOTOR SCHEDULES 1-0101A-E0008-001

METRIC WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES



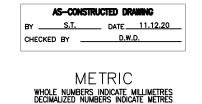




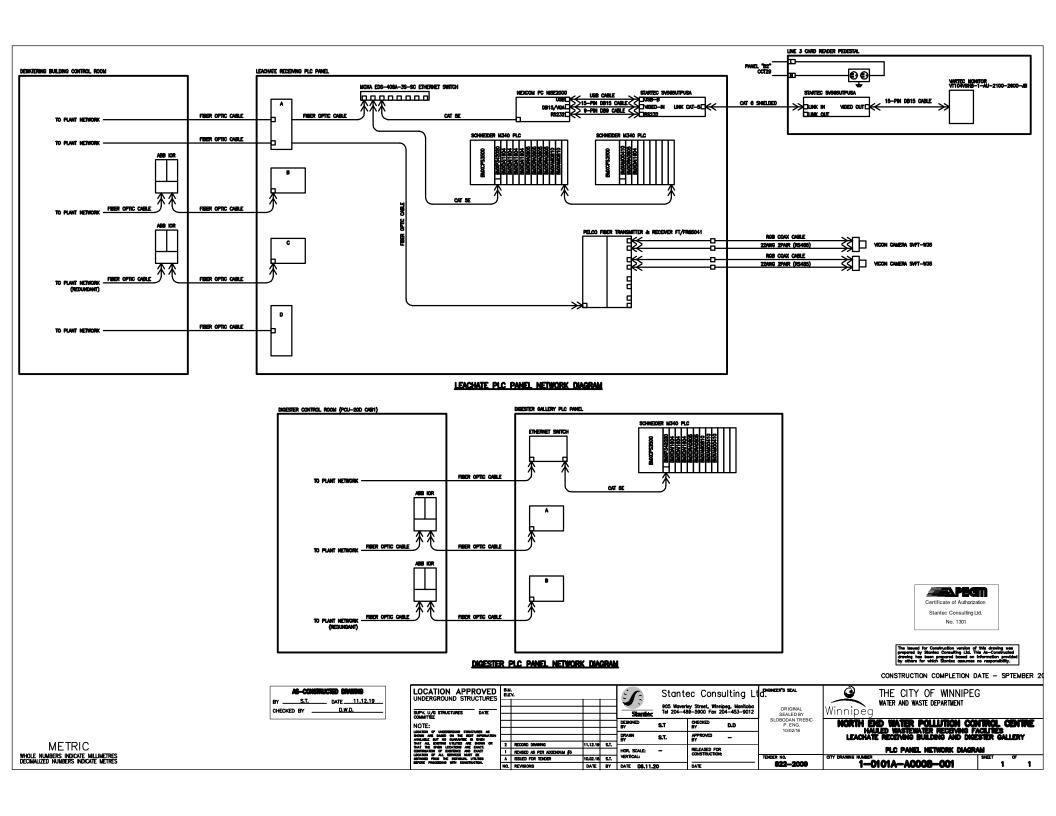


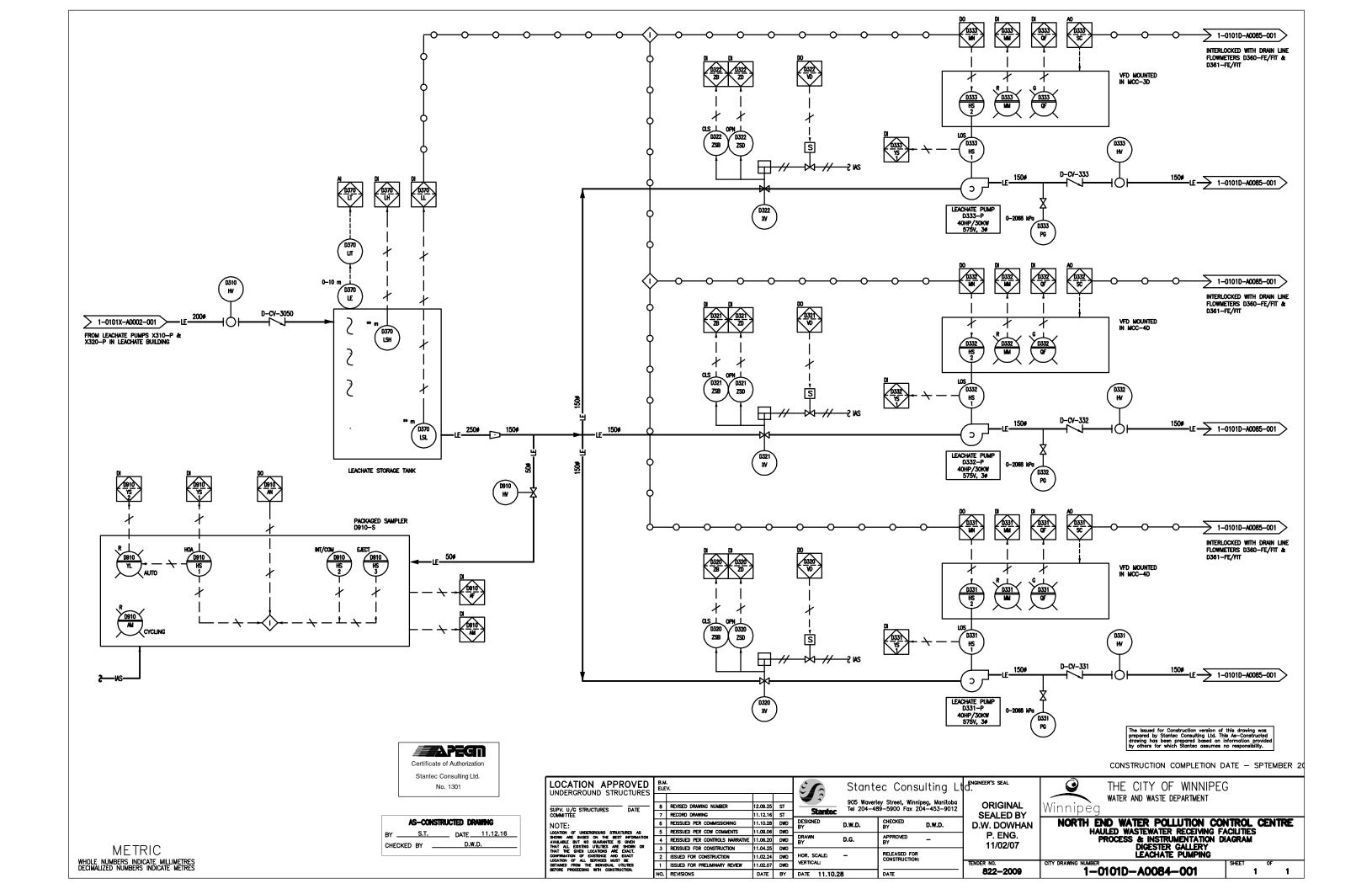
The Issued for Construction version of this drawing was prepared by Stantec Consulting Ltd. This As—Constructed drawing has been prepared based on information provided by others for which Stantec assumes no responsibility.

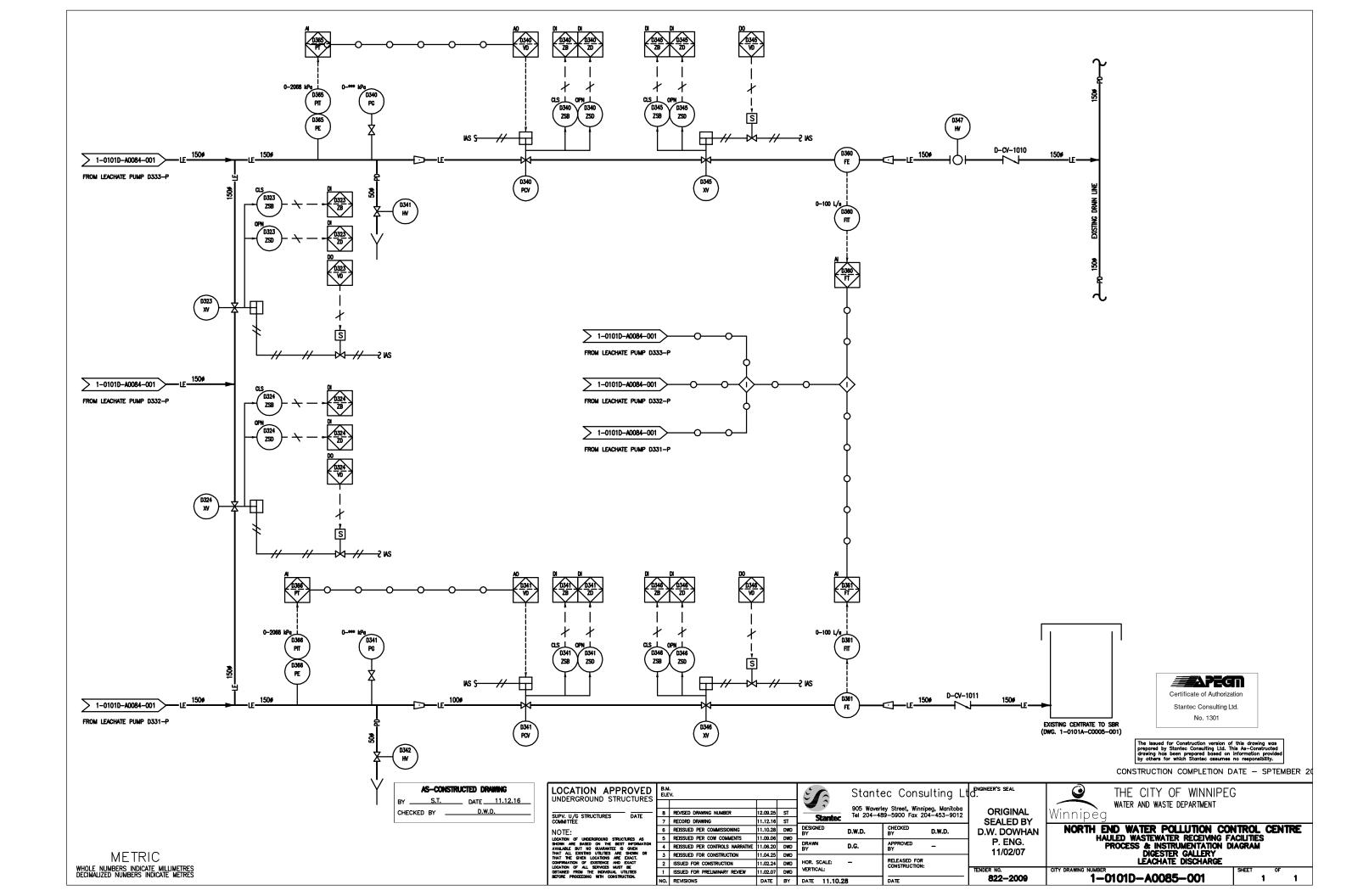
CONSTRUCTION COMPLETION DATE - SPTEMBER 20

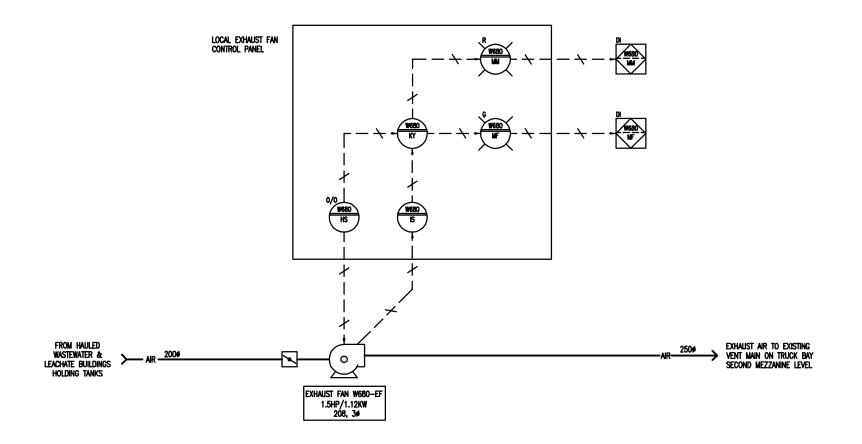


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OTE:					DESIGNED BY	S.T	CHECKED BY	D.D	SLOBODAN TREBIC P. ENG. 10/02/16	NORTH END WATER POLLUTION CONTROL CENTRE HAULED WASTEWATER RECEIVING FACILITIES
OWN ARE BASED ON THE BEST INFORMATION MLABLE BUT NO GUARANTEE IS GIVEN					DRAWN BY	S.T.	APPROVED BY	-		HAULED WASTEWATER RECEIVING BUILDING
AT ALL EXISTING UTILITIES ARE SHOWN OR AT THE GIVEN LOCATIONS ARE EXACT.	2	RECORD DRAWING	11.12.20	S.T.						
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FORE PROCEEDING WITH CONSTRUCTION.	NO.	REVISIONS	DATE	BY	DATE 09.11.2	20	DATE	,	822-2009	1-0101A-A0007-001 1 1











The Issued for Construction version of this drawing was prepared by Stantec Consulting Ltd. This As-Constructed drawing has been prepared based on information provided

CONSTRUCTION COMPLETION DATE - SPTEMBER 20

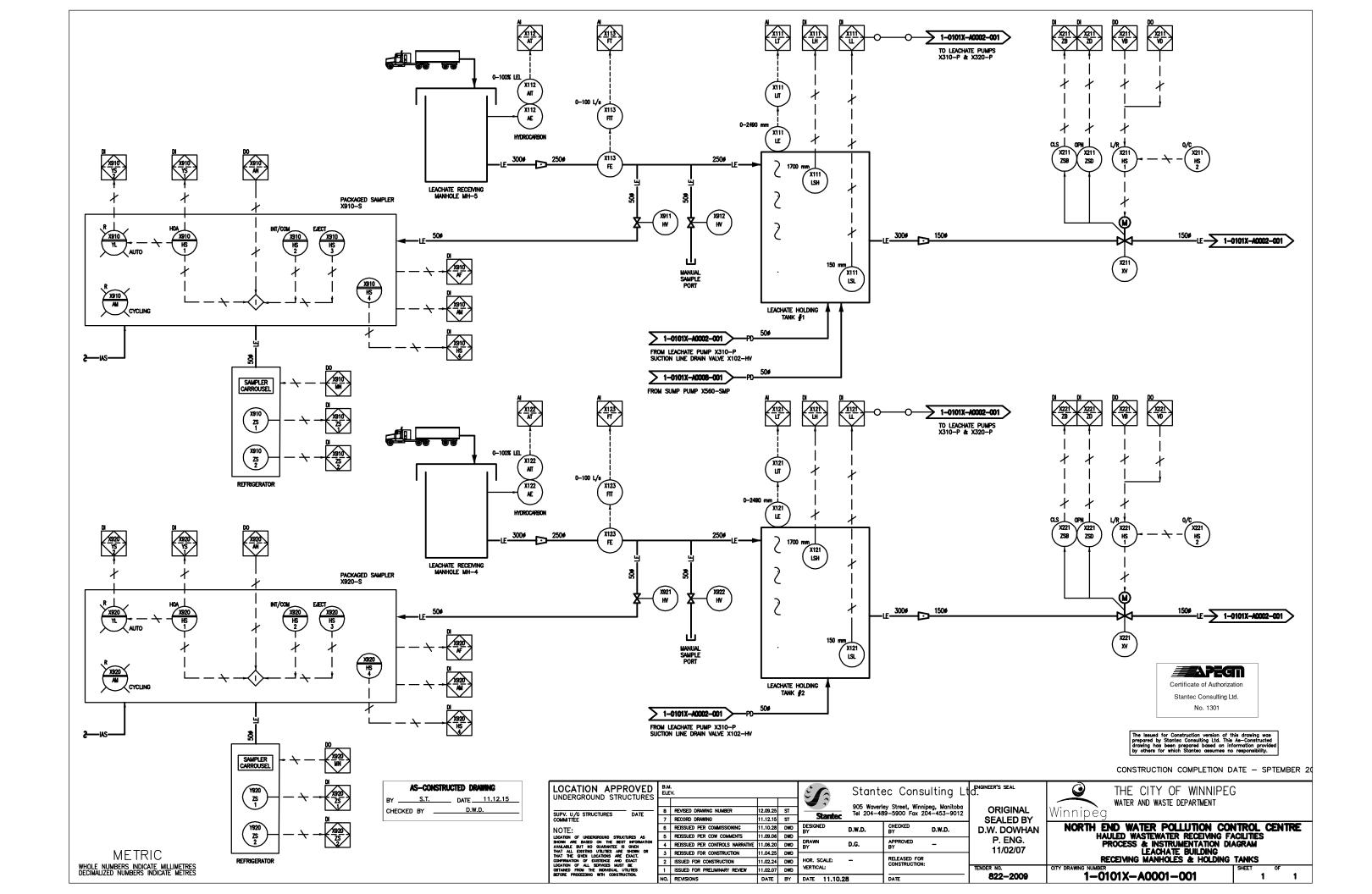
	LOCATION APPROVED UNDERGROUND STRUCTURES	B.M. ELEV.				5	Stante	Stantec Consulting Ltd. ENGINEER'S		
	SUPV. U/G STRUCTURES DATE					Stantec	905 Waverley Street, Winnipeg, Manitoba Tel 204-489-5900 Fax 204-453-9012			ORIGINAL
	COMMITTEE	7	REVISED DRAWING NUMBER	12.09.25	ST					SEALED BY
	IOTE:	6	RECORD DRAWING	11.12.16	ST	DESIGNED BY	D.W.D.	CHECKED	D.W.D	D.W. DOWHAN
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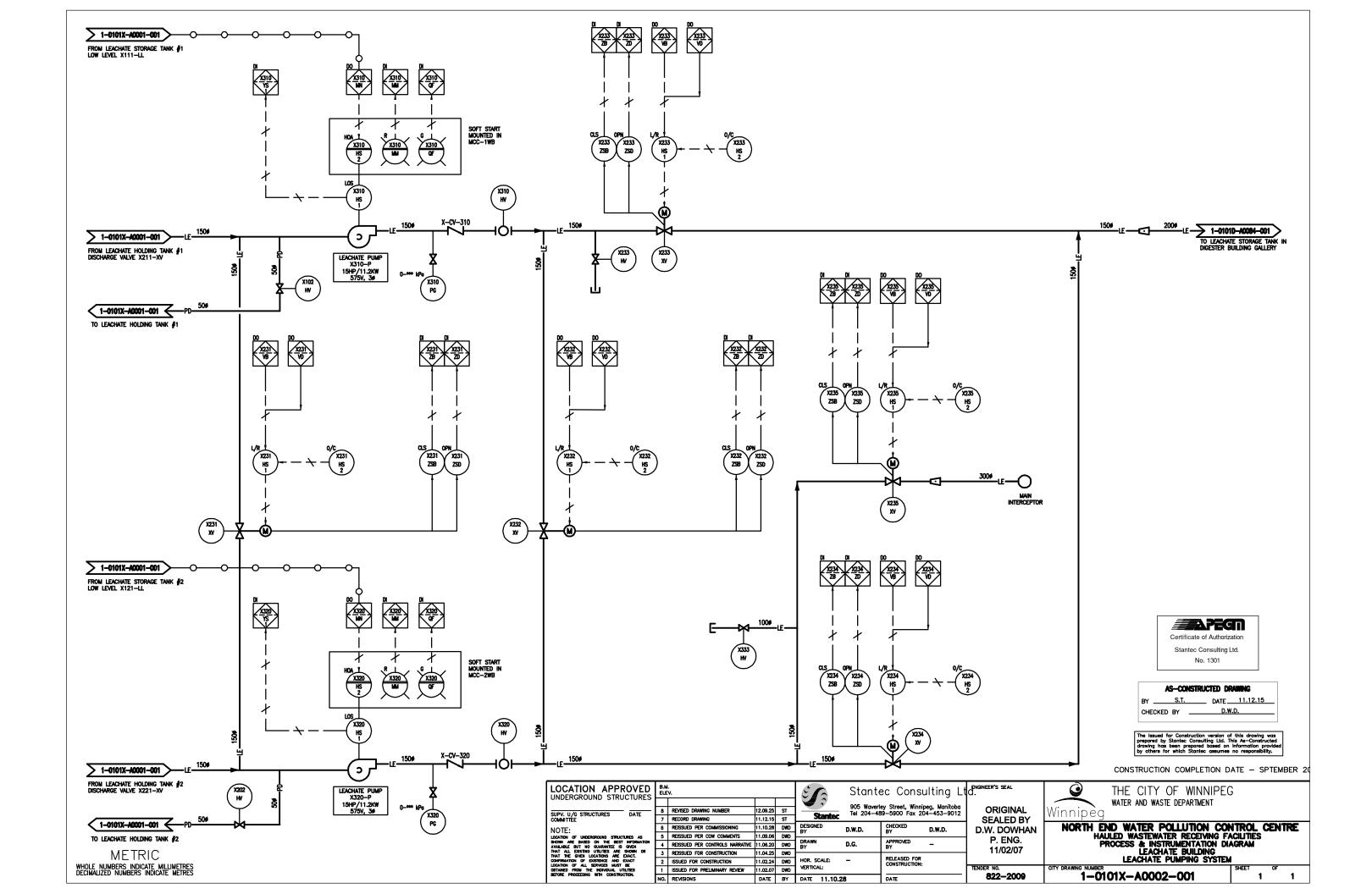
THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

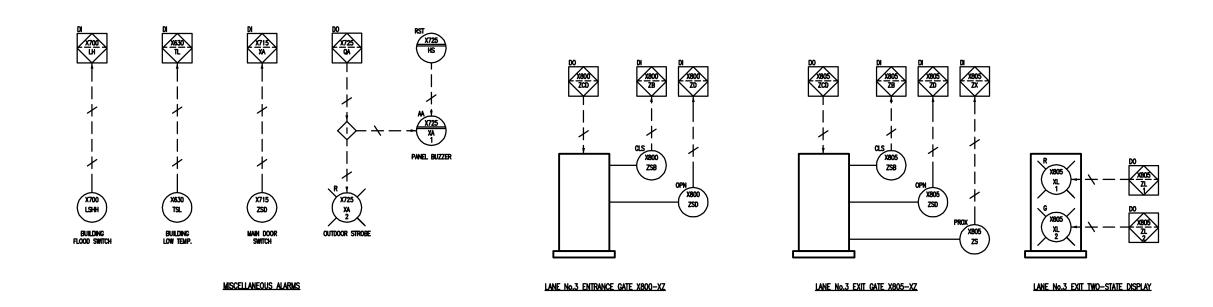
NORTH END WATER POLLUTION CONTROL CENTRE
HAULED WASTEWATER RECEIVING FACILITIES
PROCESS & INSTRUMENTATION DIAGRAM
DEWATERING BUILDING TRUCK BAY
EXHAUST FAN W880-EF

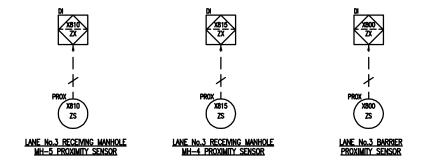
EXHAUST FAN W680-EF

CITY DRAWING NUMBER
1-0101W-A0011-001









LEACHATE RECEIVING BUILDING MISCELLANEOUS

APEGN Certificate of Authorization Stantec Consulting Ltd. No. 1301

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CONSTRUCTION COMPLETION DATE - SPTEMBER 20

AS-CONSTRUCTED DRAWING BY ______ S.T. ____ DATE ____11.12.16 CHECKED BY _______D.W.D.

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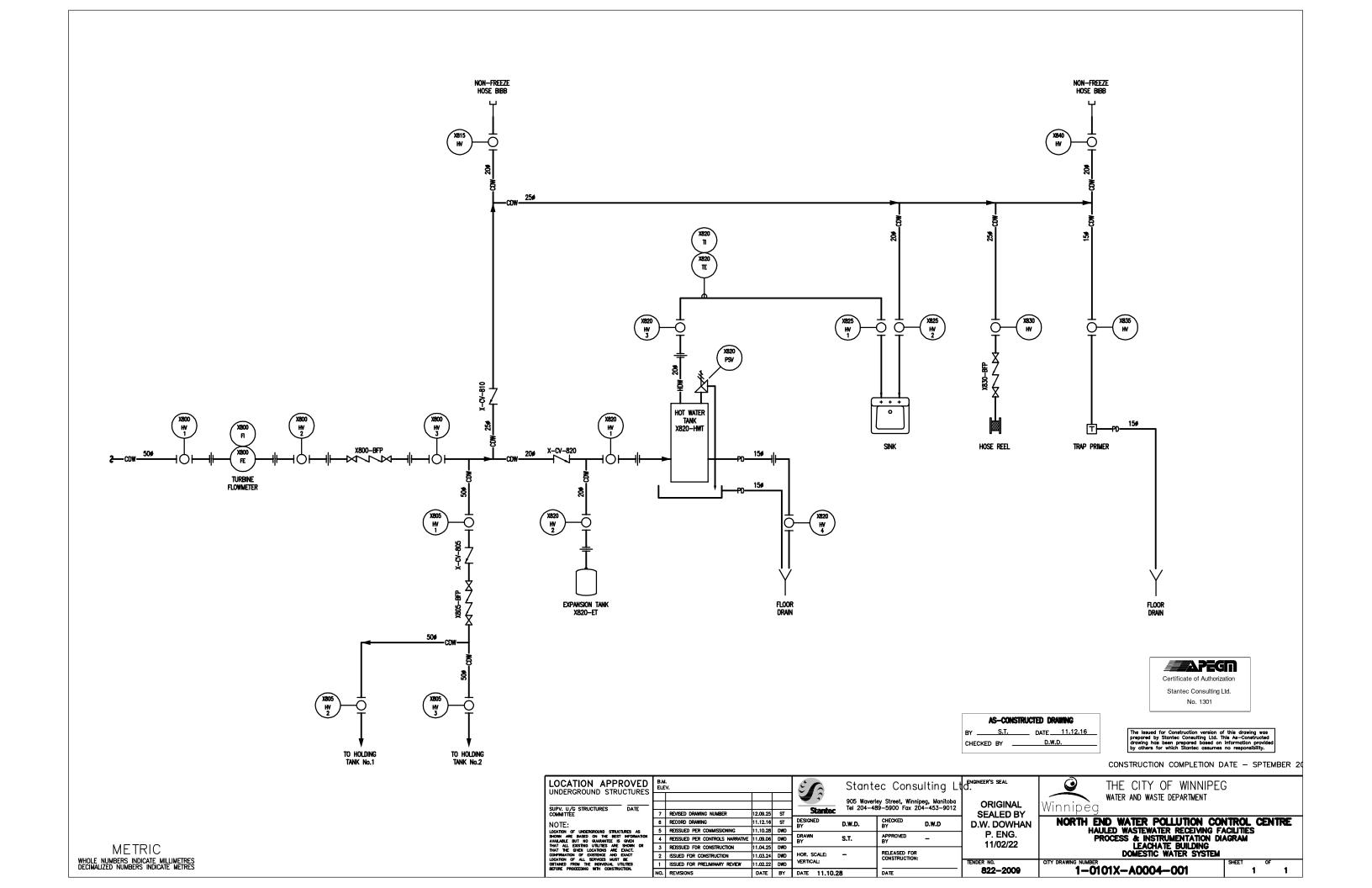
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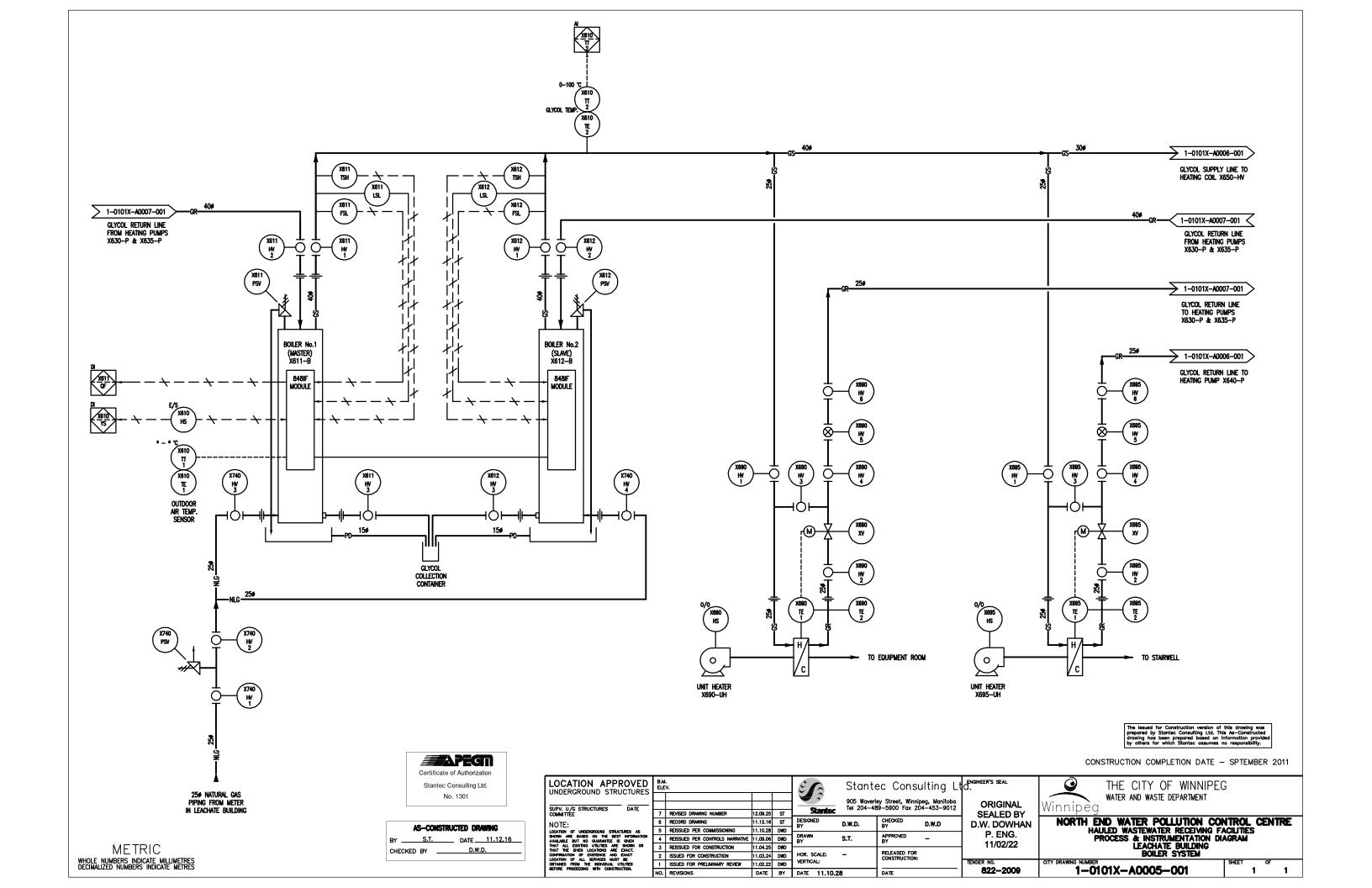
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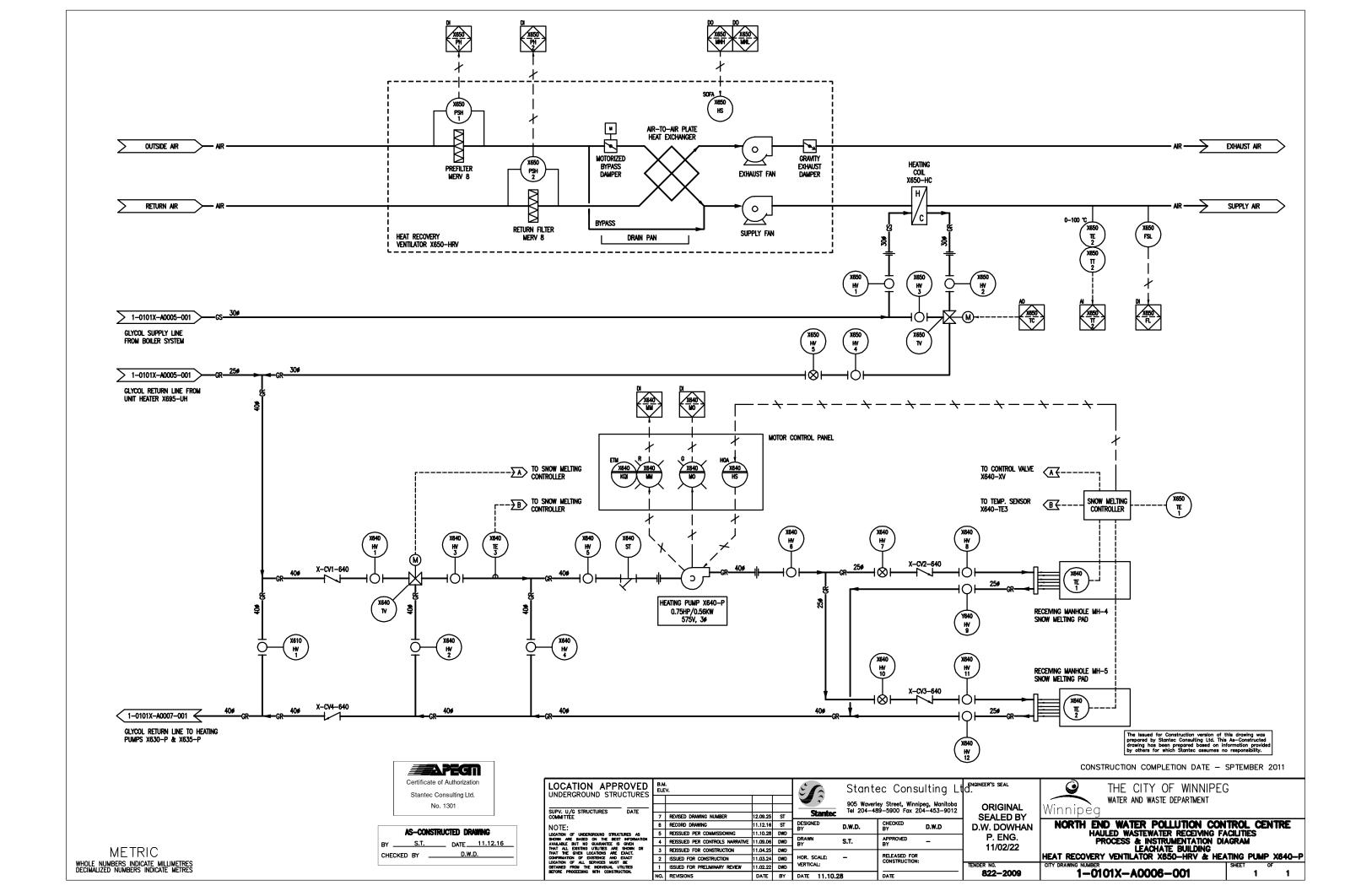
THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT Winnipèa

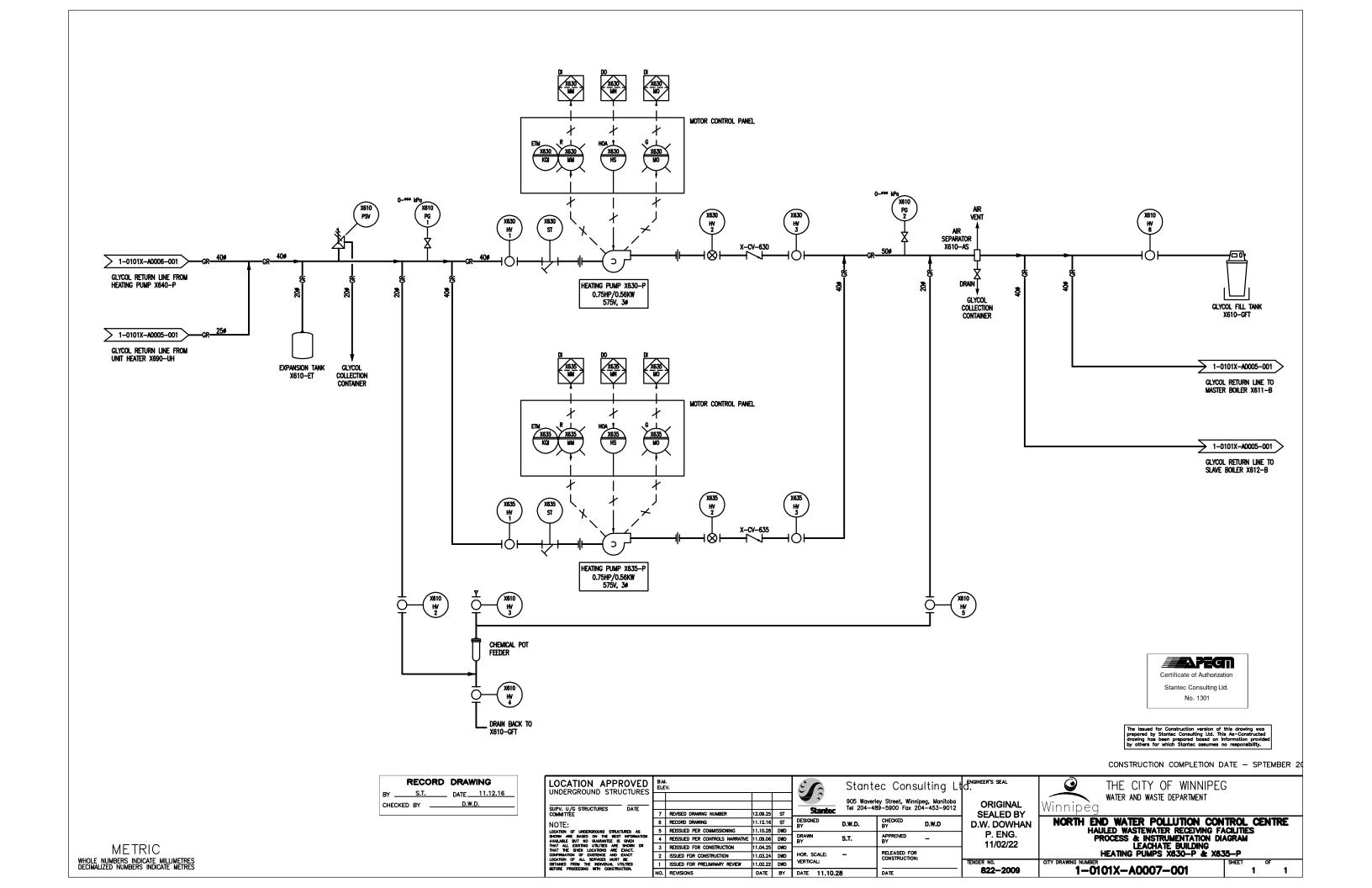
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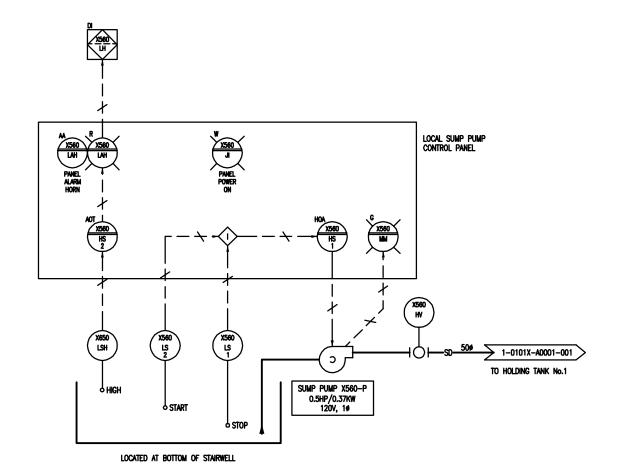
NORTH END WATER POLLUTION CONTROL CENTRE
HAULED WASTEWATER RECEIVING FACILITIES
PROCESS & INSTRUMENTATION DIAGRAM
MISCELLANEOUS BUILDING SYSTEMS















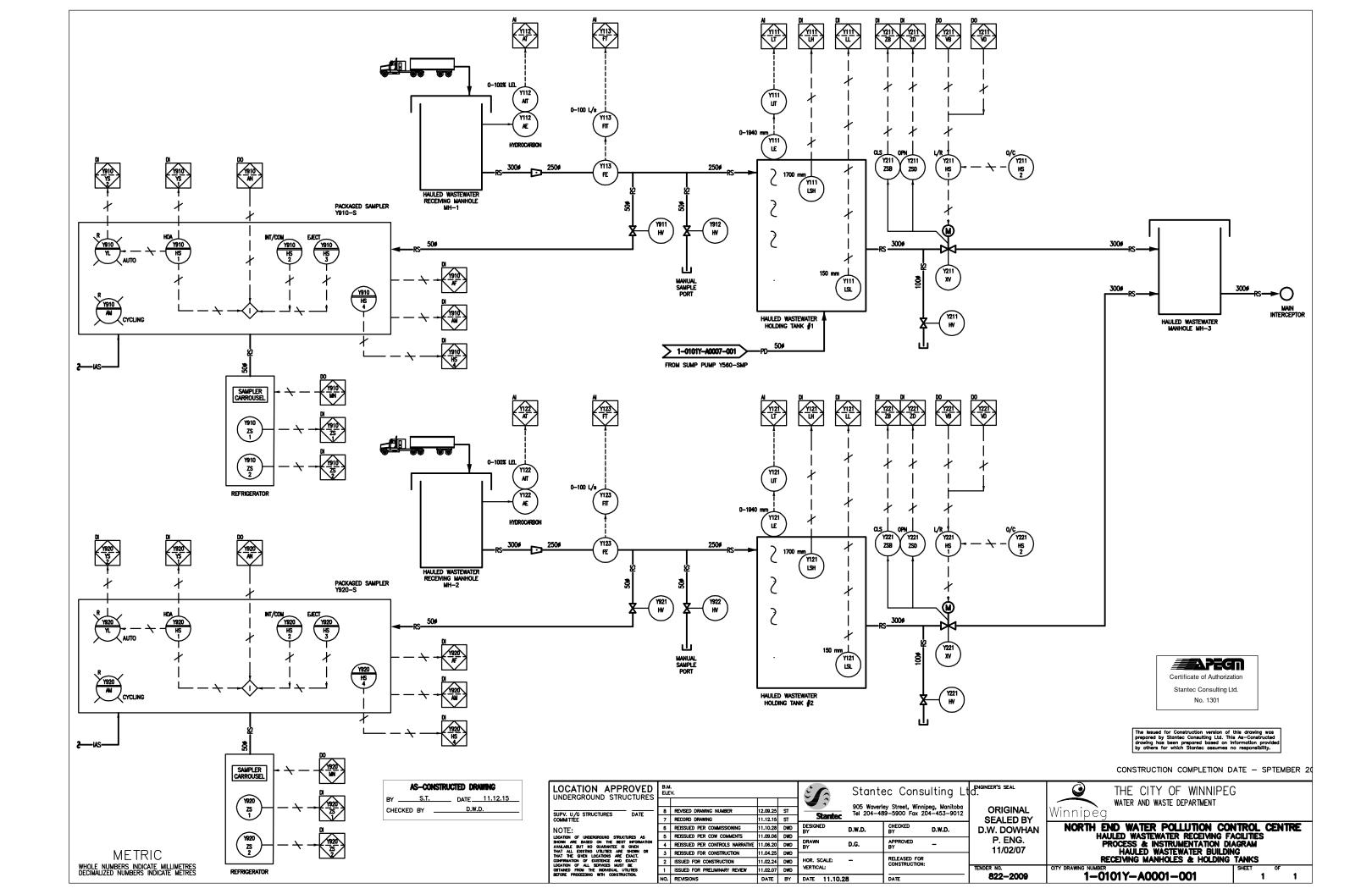
CONSTRUCTION COMPLETION DATE - SPTEMBER 20

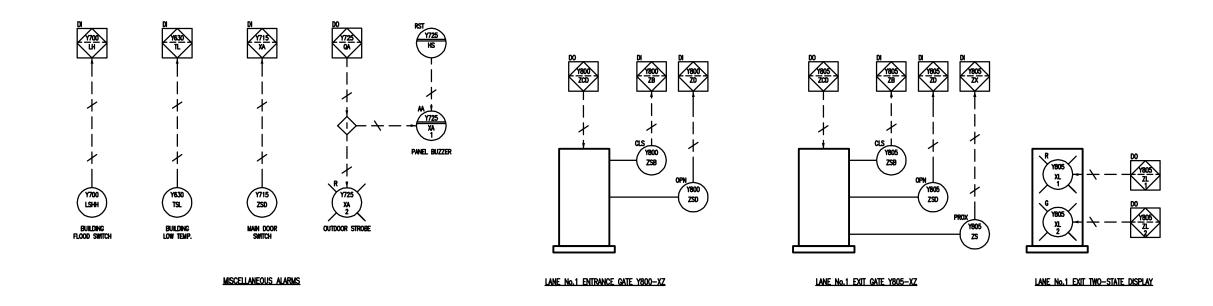
AS-CONSTRUCTED DRAWING BY ______ S.T. ____ DATE ____11.12.16 CHECKED BY _______D.W.D.

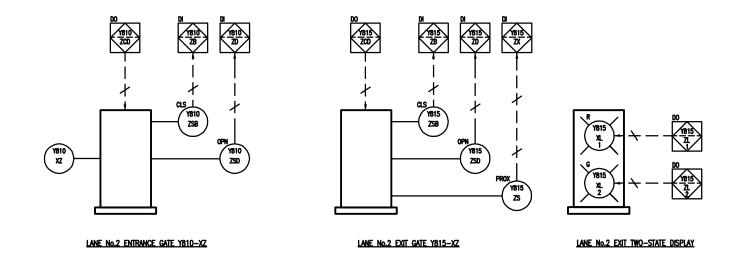
LOCATION APPROVED UNDERGROUND STRUCTURES	B.M. ELEV.				50	Stante	ec Consulting Ltd. Engineer's seal			
					9 9	905 Waverley Street, Winnipeg, Manitoba Tel 204-489-5900 Fax 204-453-9012				
SUPV. U/G STRUCTURES DATE					-] ORIGINAL	
COMMITTEE	7	REVISED DRAWING NUMBER	12.09.25	ST	Stantec				SEALED BY	
NOTE:	6	RECORD DRAWING	11.12.16	ST	DESIGNED BY	D.W.D.	CHECKED BY	D.W.D	D.W. DOWHAN	
LOCATION OF UNDERGROUND STRUCTURES AS	5	REISSUED PER COMMISSIONING	11.10.28	DWD						
SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN	4	REISSUED PER CONTROLS NARRATIVE	11.09.06	DWD	DRAWN BY	S.T.	APPROVED BY	_	P. ENG. 11/02/22	
THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT.	3	REISSUED FOR CONSTRUCTION	11.04.25	DWD						
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WATER AND WASTE DEPARTMENT Winnipèa NORTH END WATER POLLUTION CONTROL CENTRE
HAULED WASTEWATER RECEIVING FACILITIES
PROCESS & INSTRUMENTATION DIAGRAM
LEACHATE BUILDING
SUMP PUMP X580—SMP 1-01-0101X-A0008-001

THE CITY OF WINNIPEG









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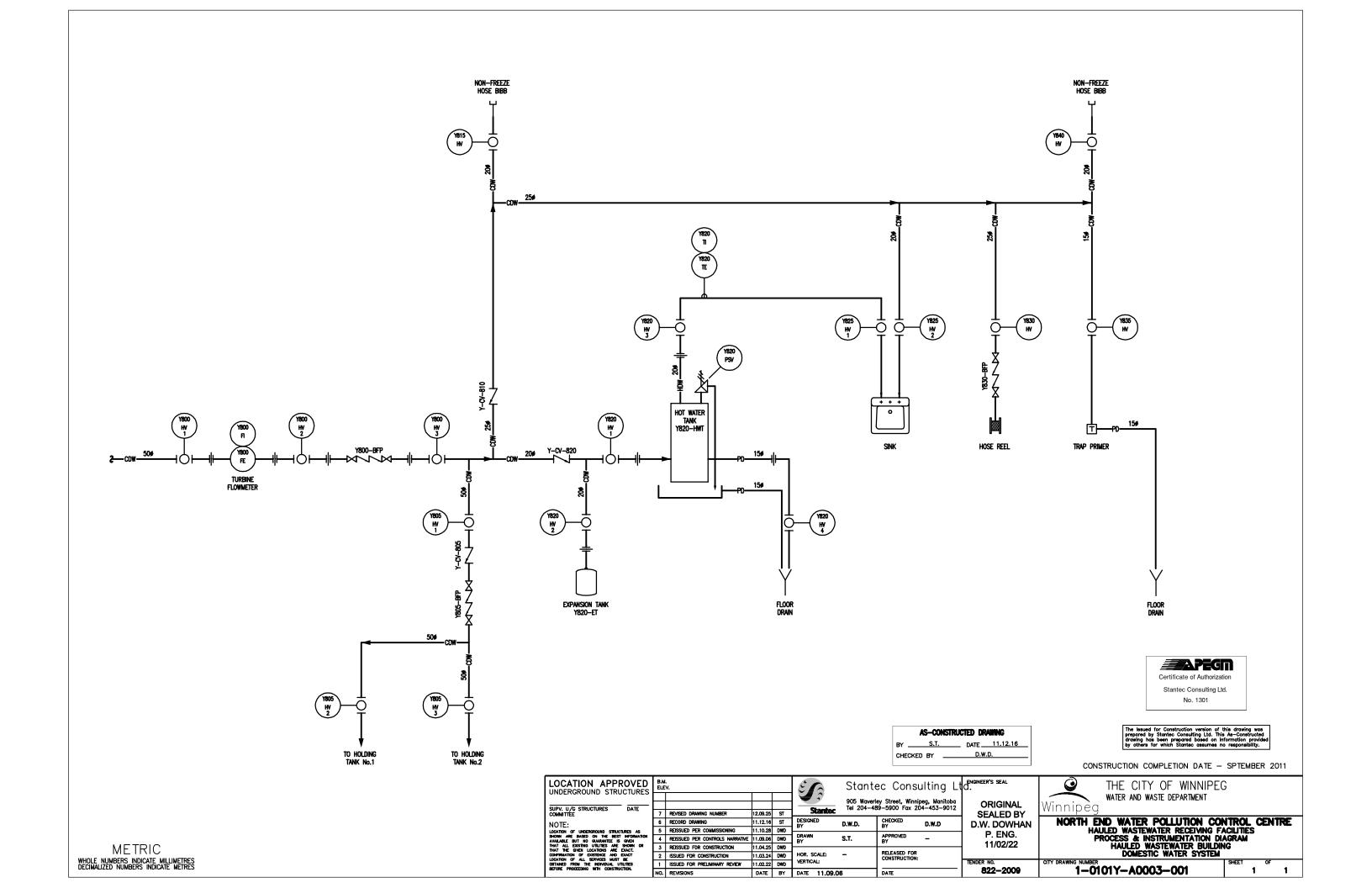
Certificate of Authorization Stantec Consulting Ltd. No. 1301

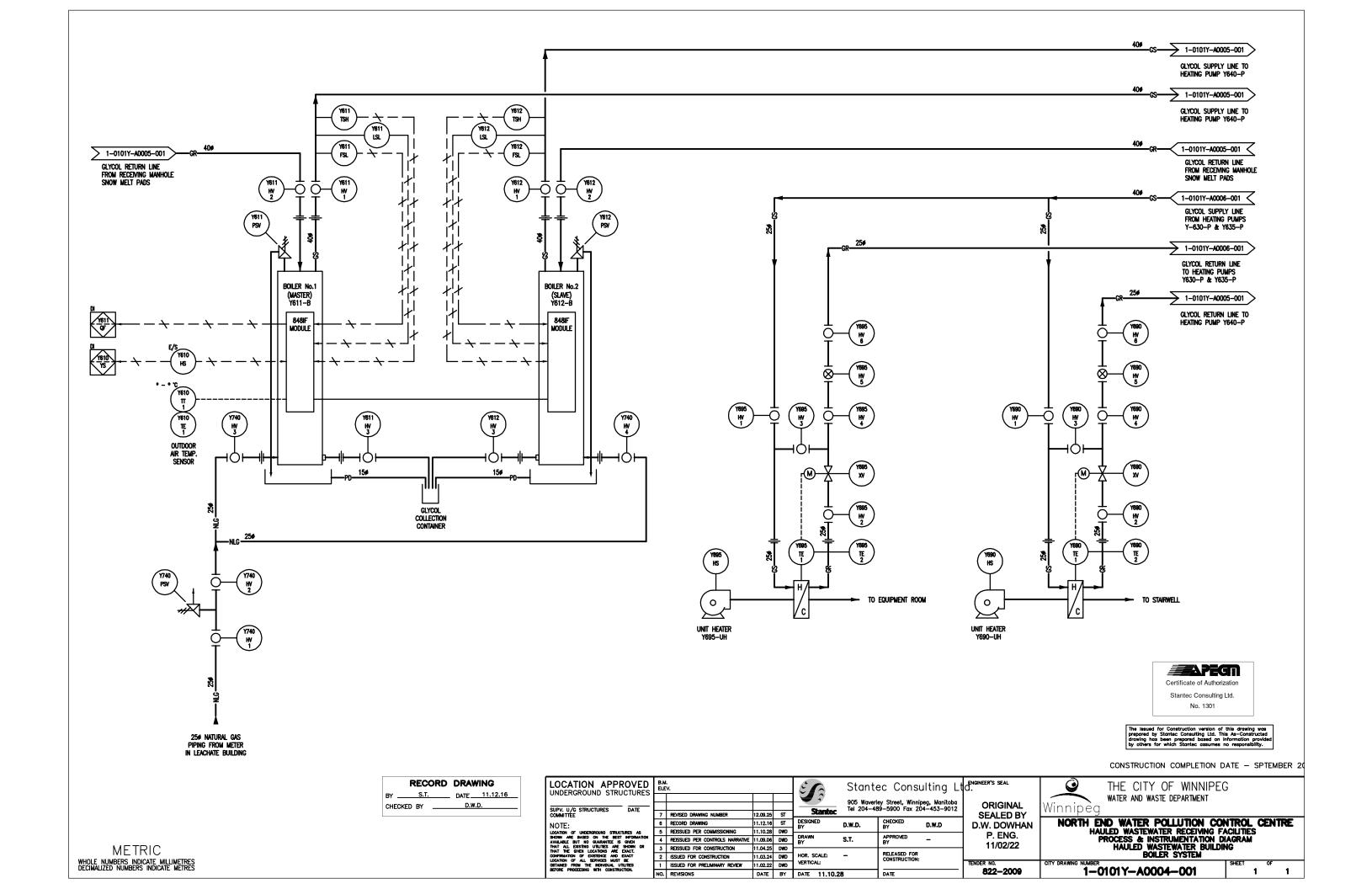
CONSTRUCTION COMPLETION DATE - SPTEMBER 20

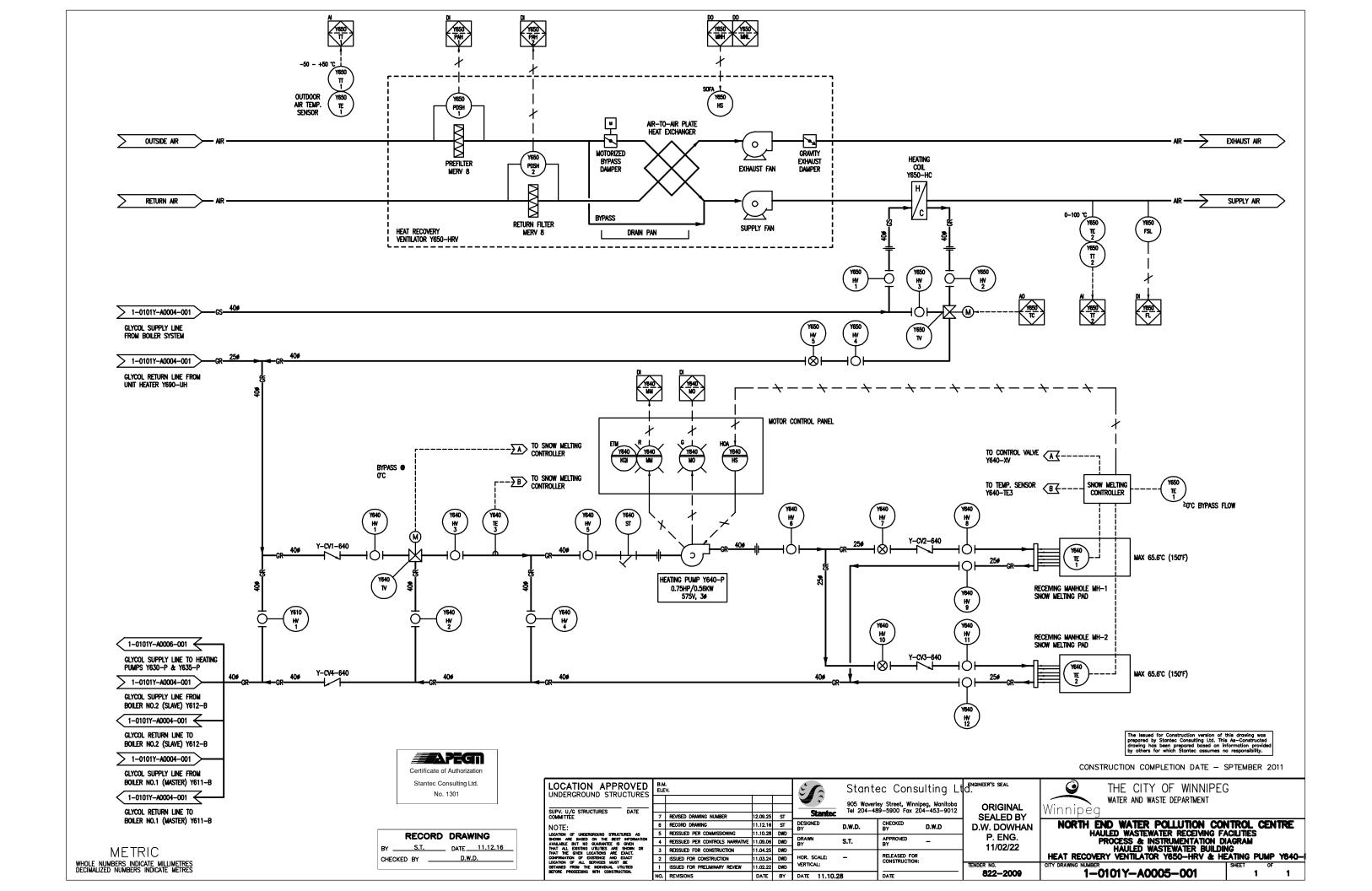
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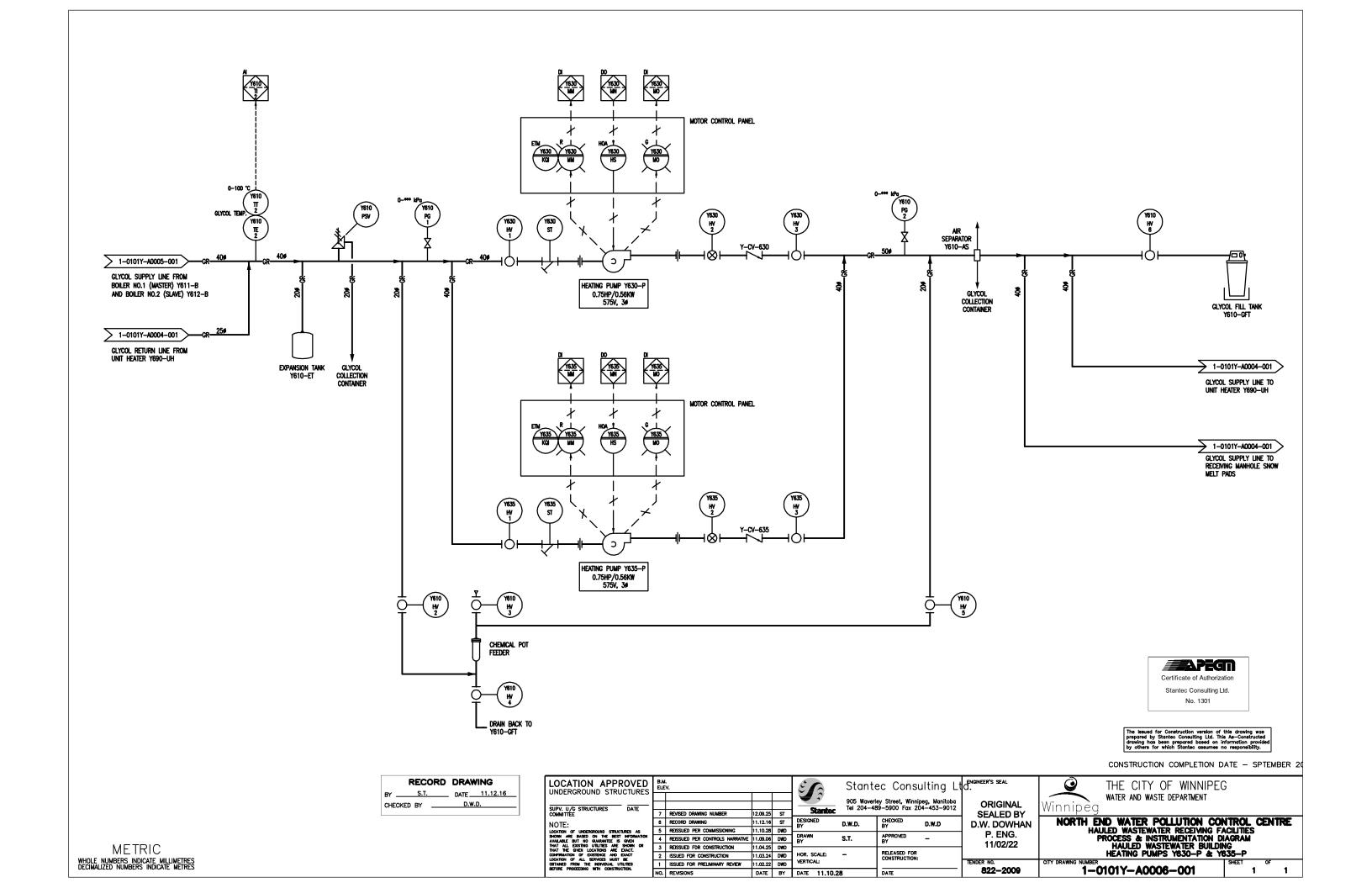
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	LOCATION APPROVED UNDERGROUND STRUCTURES	B.M ELE				E 6	Stantec Consulting L		ılting Lt	ENGINEER'S SEAL	
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	NOTE:	6	REISSUED PER COMMISSIONING	11.10.28	DWD	DESIGNED BY	D.W.D.	CHECKED BY	D.W.D.	D.W. DOWHAI	
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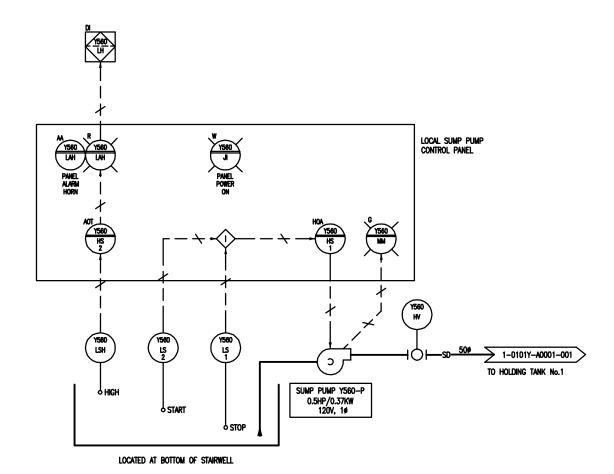
THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT Winnipèq SEALED BY NORTH END WATER POLLUTION CONTROL CENTRE
HAULED WASTEWATER RECEIVING FACILITIES
PROCESS & INSTRUMENTATION DIAGRAM
MISCELLANEOUS BUILDING SYSTEMS .W. DOWHAN DRAWING NUMBER 1-0101Y-A0002-001











SUMP PUMP Y560-SMP

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CONSTRUCTION COMPLETION DATE - SPTEMBER 20

AS-CONSTRUCTED DRAWING BY ______ S.T. ____ DATE ____11.12.16 CHECKED BY _______D.W.D.

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THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT Winnipèa

NORTH END WATER POLLUTION CONTROL CENTRE
HAULED WASTEWATER RECEIVING FACILITIES
PROCESS & INSTRUMENTATION DIAGRAM
HAULED WASTEWATER BUILDING
SUMP PUMP Y560—SMP

TRAWING NUMBER 1-0101Y-A0007-001