The following shop drawings by Veolia Water Technologies have been furnished with Bid Op 601-2015.

Bid Op 601-2015 Document Number	Shop Drawing Document & Page Number	Purpose of Drawing for Bid Op 601-2015			
2-0102-PDTL-K120	FI-1000, Sheet 1 of 15	General notes applicable to field Installation			
	(Veolia)	drawings.			
	FI-1000, Sheet 2 of 15	Anchor installation details applicable to			
	(Veolia)	installing the HRC scraper bridge			
	FI-1000, Sheet 3 of 15	Plan view showing location of HRC scraper			
	(Veolia)	bridge and centerline of scum trough connection flange			
	FI-1000, Sheet 5 of 15	Section view showing location of HRC scraper			
	(Veolia)	bridge and location of scum trough (refer to scum trough shop drawings for scum trough connection flange elevation centerline)			
	FI-1000, Sheet 6 of 15	Details 6 & 7: Anchorage of the HRC scraper			
	(Veolia)	bridge to concrete structure			
2-0102-PDTL-K121	as049914 (DBS Manufacturing)	Section A-A: scum trough connection flange elevation centerline			
		Detail B: Distance of scum trough connection flange face from concrete wall			
2-0102-PDTL-K122	FG-01, Sheet 1 of 2	Location plan, sections and isometrics for HRC			
	(Fibergrate)	scraper bridge FRP grating and handrailing			
	FG-01, Sheet 2 of 2	Installation and connection details for HRC			
	(Fibergrate)	scraper bridge FRP grating and handrailing			
B-0102-PDTS-K128	Installation manual, Pages 1 to 8, 16	VWT instructions for equipment storage, general installation and installation of the			
		scraper bridge and grating/handrailing.			
	(Veolia)				
2-0102-PDTS-K129	Actiflo General Installation Details Bill of Materials	Bill of materials supplied by Veolia Water Technologies			
	(Veolia)				

ACTIFLO CLARIFIER

PROJECT: WINNIPEG SEWPCC PROJECT No.: 5000214039

	DRAWINGS INDEX
FI1000 SHEET 1	TITLE PAGE, DRAWINGS INDEX & GENERAL NOTES
FI1000 SHEET 2	ANCHORS TYPICAL - INSTALLATION DETAILS
FI1000 SHEET 3 @ 6	CLARIFIER GENERAL VIEWS, SECTIONS & DETAILS
FI1000 SHEET 7	MIXERS TYPICAL - INSTALLATION DETAILS
FI1000 SHEET 8	TROUGH TYPICAL - INSTALLATION DETAILS
FI1000 SHEET 9	SCRAPER TYPICAL - INSTALLATION DETAILS
FI1000 SHEET 10	SCRAPER DRIVE MECHANISM - INSTALLATION DETAILS
FI1000 SHEET 11	LAMELLA AND SUPPORT TYPICAL - INSTALLATION DETAILS
FI1000 SHEET 12	LAMELLA AND SUPPORT TYPICAL - INSTALLATION DETAILS
FI1000 SHEET 13	AIR SCOUR SYSTEM - TYPICAL INSTALLATION DETAILS
FI1000 SHEET 14	POLYMER TYPICAL - INSTALLATION DETAILS
FI1000 SHEET 15	AIR SCOUR GRID SYSTEM (CORNER)- TYPICAL INSTALLATION DETAILS

GENERAL NOTES:

UNLESS OTHERWISE SPECIFIED, ANY REFERENCE TO "CONTRACTOR", "INSTALLATION CONTRACTOR", "ENGINEER", "CONSULTING ENGINEER" OR "BY OTHERS" INDICATES NOT SUPPLIED BY VEOLIA WATER TECHNOLOGIES CANADA INC. (V.W.T.).

MANHOLES AND ACCESS LADDERS WILL BE SUPPLIED "BY OTHERS".

GRATING AND HANDRAILS AROUND TANKS AND OPENINGS WILL BE SUPPLIED AND INSTALLED BY "INSTALLATION CONTRACTOR".

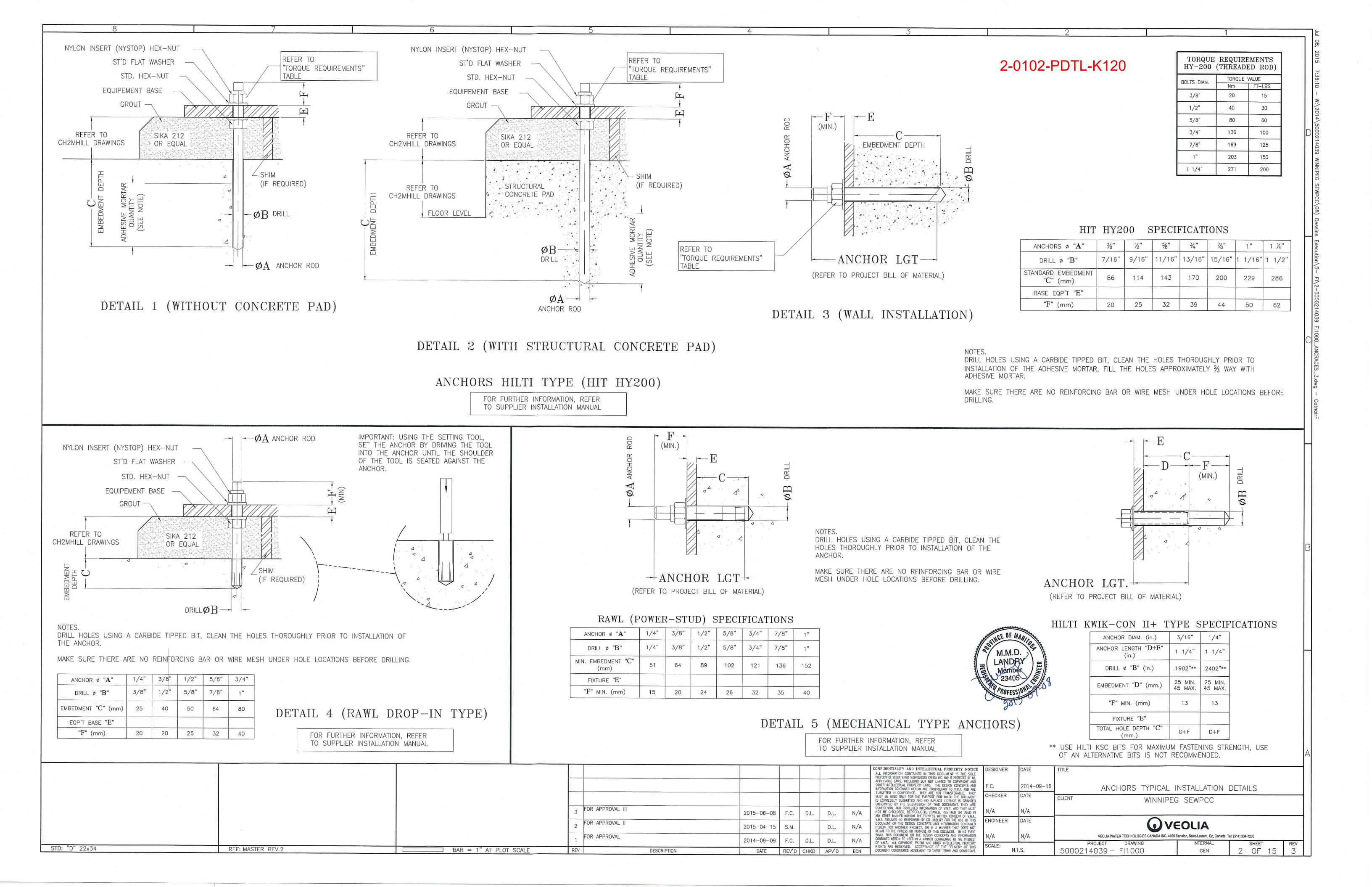
ALL PIPING AND FITTINGS SUPPLIED AND INSTALLED BY "INSTALLATION CONTRACTOR" SHALL BE FIELD ADJUSTED TO SUIT ACTUAL FIELD MEASUREMENTS AND EQUIPEMENT SUPPLIED BY "V.W.T.".

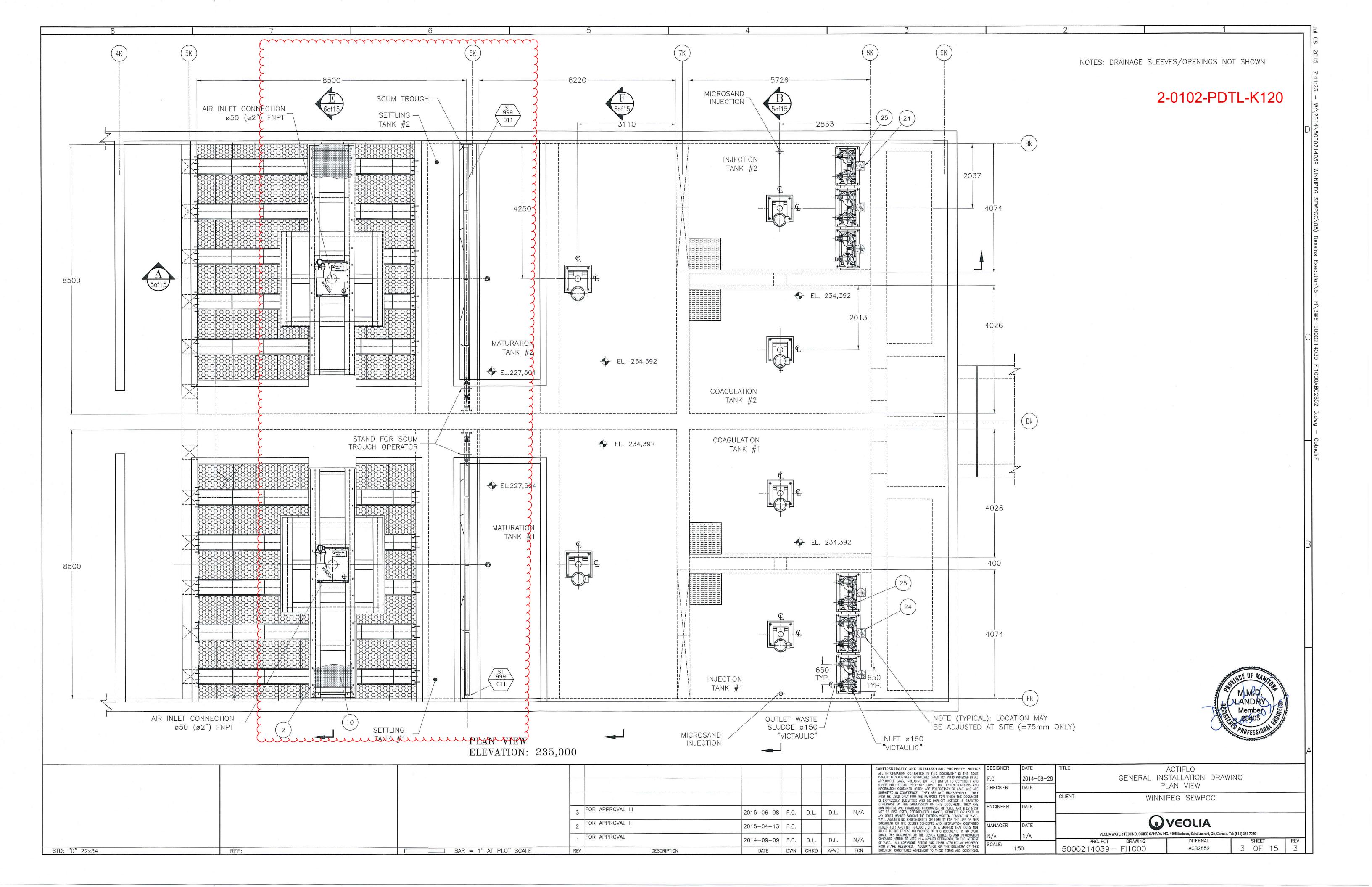
ALL FASTENERS, HARDWARE, ANCHORS, WILL BE SUPPLIED BY "V.W.T." HOWEVER, SOME ITEMS ARE NOT LISTED ON THE BILL OF MATERIAL SINCE THEY ARE PRE-ASSEMBLED PRIOR TO SHIPPING.

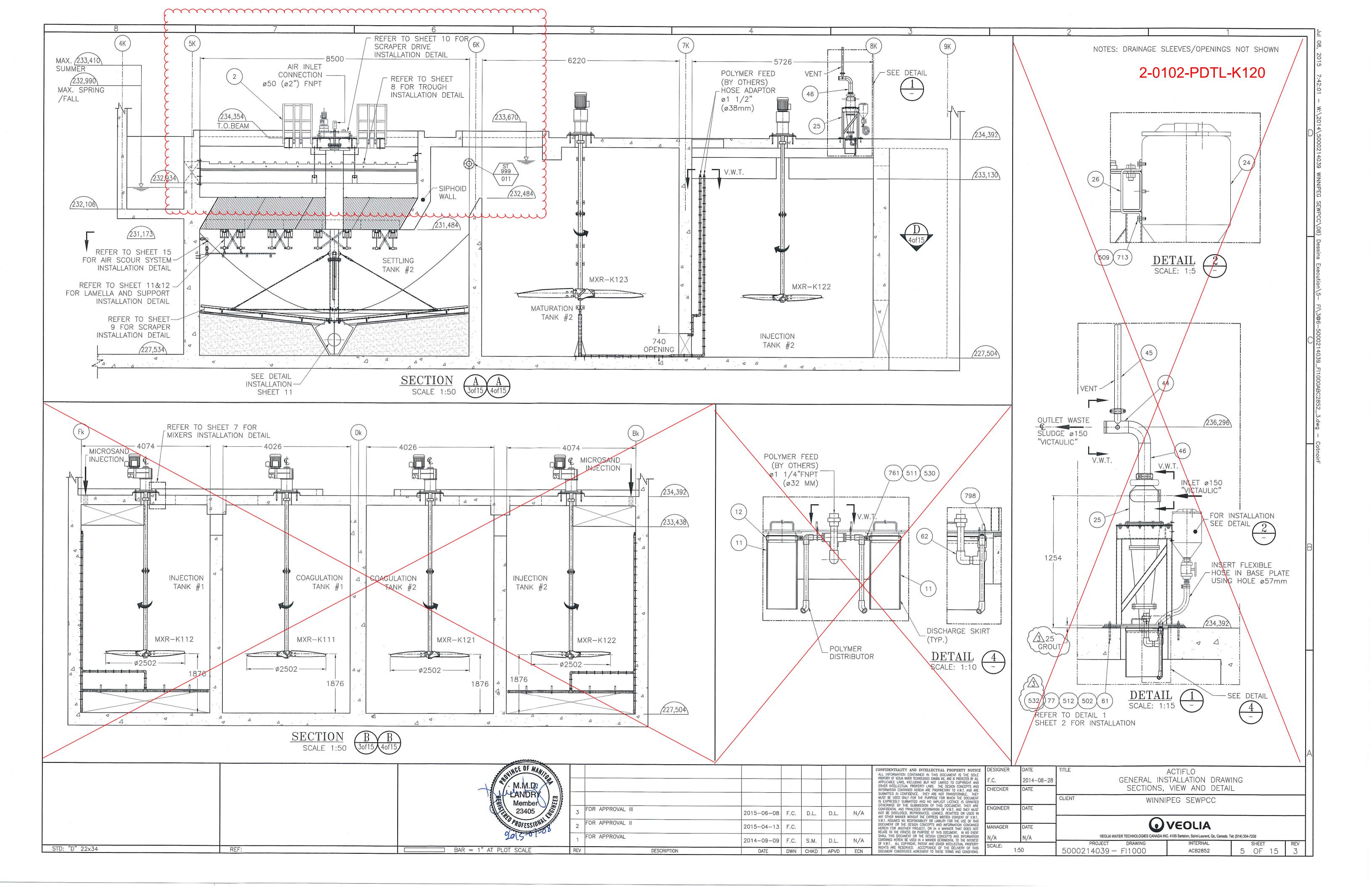
ALL ANCHORS AND FASTENERS WILL BE STAINLESS STEEL. ALL HEX-NUTS WILL BE NYLON INSERT STOP (NYLOCK) TYPE. APPLY ANTI-SEIZE COMPOUND TO ALL CONNECTIONS.

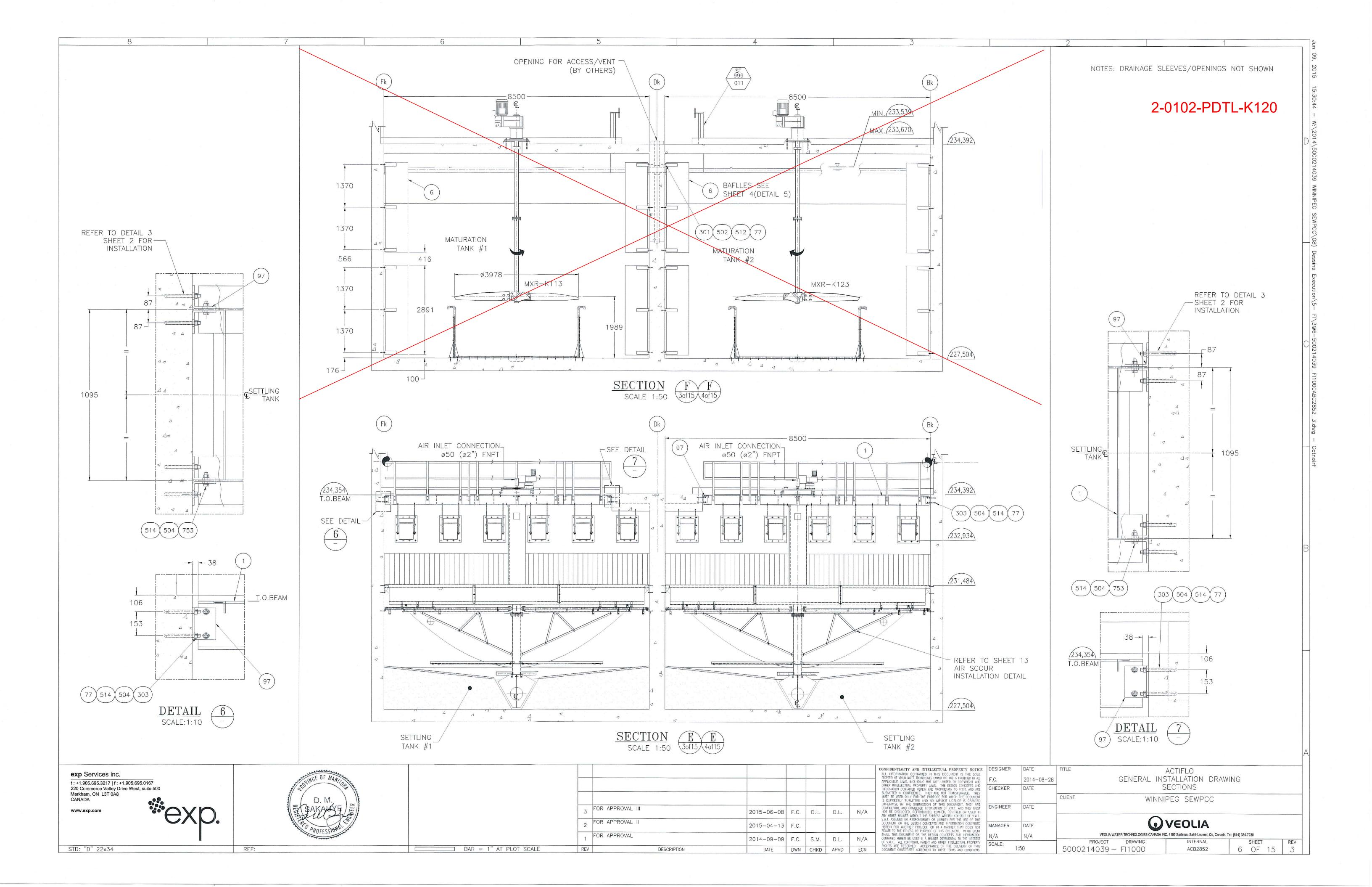


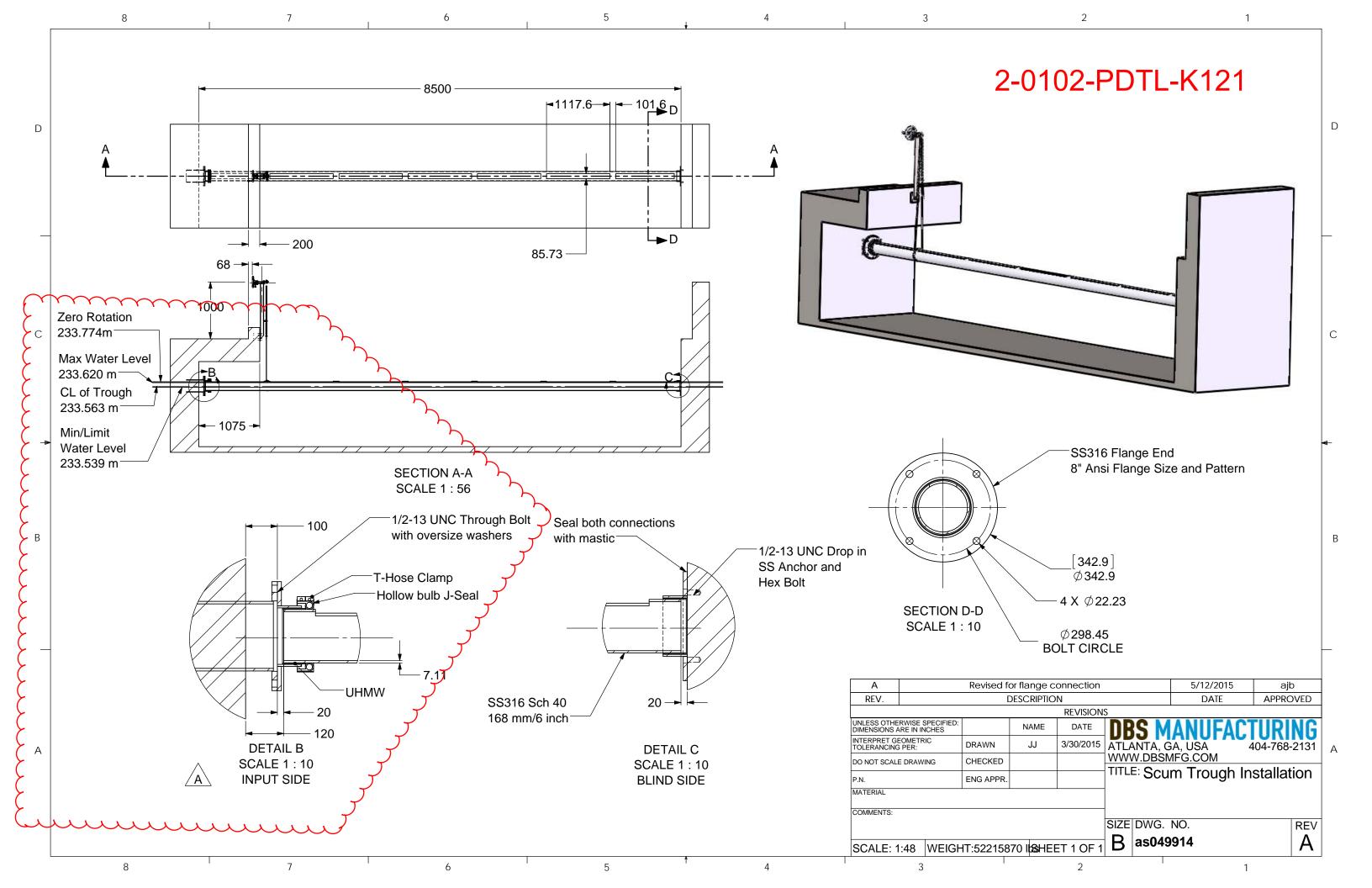
					CONFIDENTIALITY AND INTELLECTUAL PROPERTY NOTICE ALL INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF VEOLA WATER TECHNOLOGIES CAVADA INC. AND IS PROTECTED BY ALL APPLICABLE LAWS, INCLUDING BUT NOT LIMITED TO COPYRIGHT AND S.M. 2009-05-0	ACTIFLO CLARIFIER TITLE PAGE / GENERAL NOTES
			3 FOR APPROVAL III	2015-06-08 F.C. D.L. D.L. N/A	CONFIDENTIALITY AND INTELLECTUAL PROPERTY NOTICE ALL INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF YOULA WATER TECHNOLOGIES CANADA INC. AND IS PROTECTED BY ALL APPLICABLE LAWS, INCLUDING BUT NOT LIMITED TO COPYRIGHT AND OTHER INTELLECTUAL PROPERTY LAWS. THE DESIGN CONCEPTS AND INFORMATION CONTAINED HEREIN ARE PROPRIETARY TO V.W.T. AND ARE SUBMITTED IN CONFIDENCE. THEY ARE NOT TRANSFERABLE. THEY MUST BE USED ONLY FOR THE PURPOSE FOR WHICH THE DOCUMENT IS EXPRESSLY SUBMITTED AND NO IMPLICIT LICENCE IS GRANTED OTHERWISE BY THE SUBMISSION OF THIS DOCUMENT. THEY ARE CONFIDENTIAL AND PRIVILEGED INFORMATION OF V.W.T. AND THEY MUST NOT BE DISCLOSED, REPRODUCED, LOANED, REMITTED OR USED IN ANY OTHER MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF V.W.T. V.W.T. ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE USE OF THIS DOCUMENT OR THE DESIGN CONCEPTS AND INFORMATION CONTAINED HEREIN FOR ANOTHER PROJECT, OR IN A MANNER THAT DOES NOT SHALL THIS DOCUMENT OR THE DESIGN CONCEPTS AND INFORMATION CONTAINED HEREIN BE USED IN A MANNER DETRIMENTAL TO THE INTEREST OF V.W.T ALL COPYRIGHT, PATENT AND OTHER INTELLECTUAL PROPERTY RIGHTS ARE RESERVED. ACCEPTANCE OF THE DELIVERY OF THIS DOCUMENT CONSTITUTES AGREEMENT TO THESE TERMS AND CONDITIONS. DOCUMENT CONSTITUTES AGREEMENT TO THESE TERMS AND CONDITIONS.	CLIENT WINNIPEG SEWPCC
			2 FOR APPROVAL II	2015-06-08 F.C. D.L. D.L. N/A 2015-04-13 S.M. D.L.	ANY OTHER MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF V.W.T. V.W.T. ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE USE OF THIS DOCUMENT OR THE DESIGN CONCEPTS AND INFORMATION CONTAINED HEREIN FOR ANOTHER PROJECT, OR IN A MANNER THAT DOES NOT RELATE TO THE FITNESS OR PURPOSE OF THIS DOCUMENT. IN NO EVENT	€ VEOLIA
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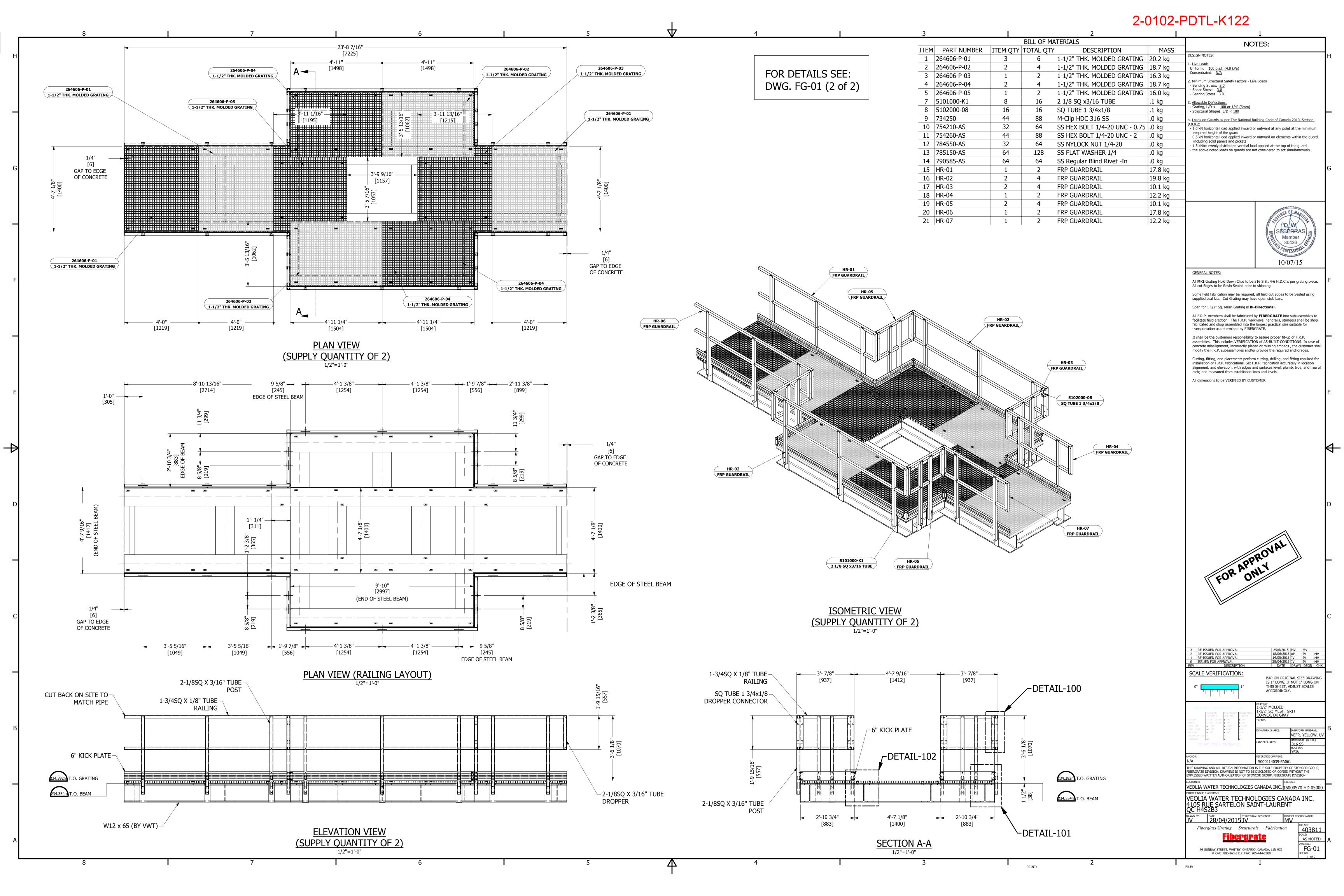


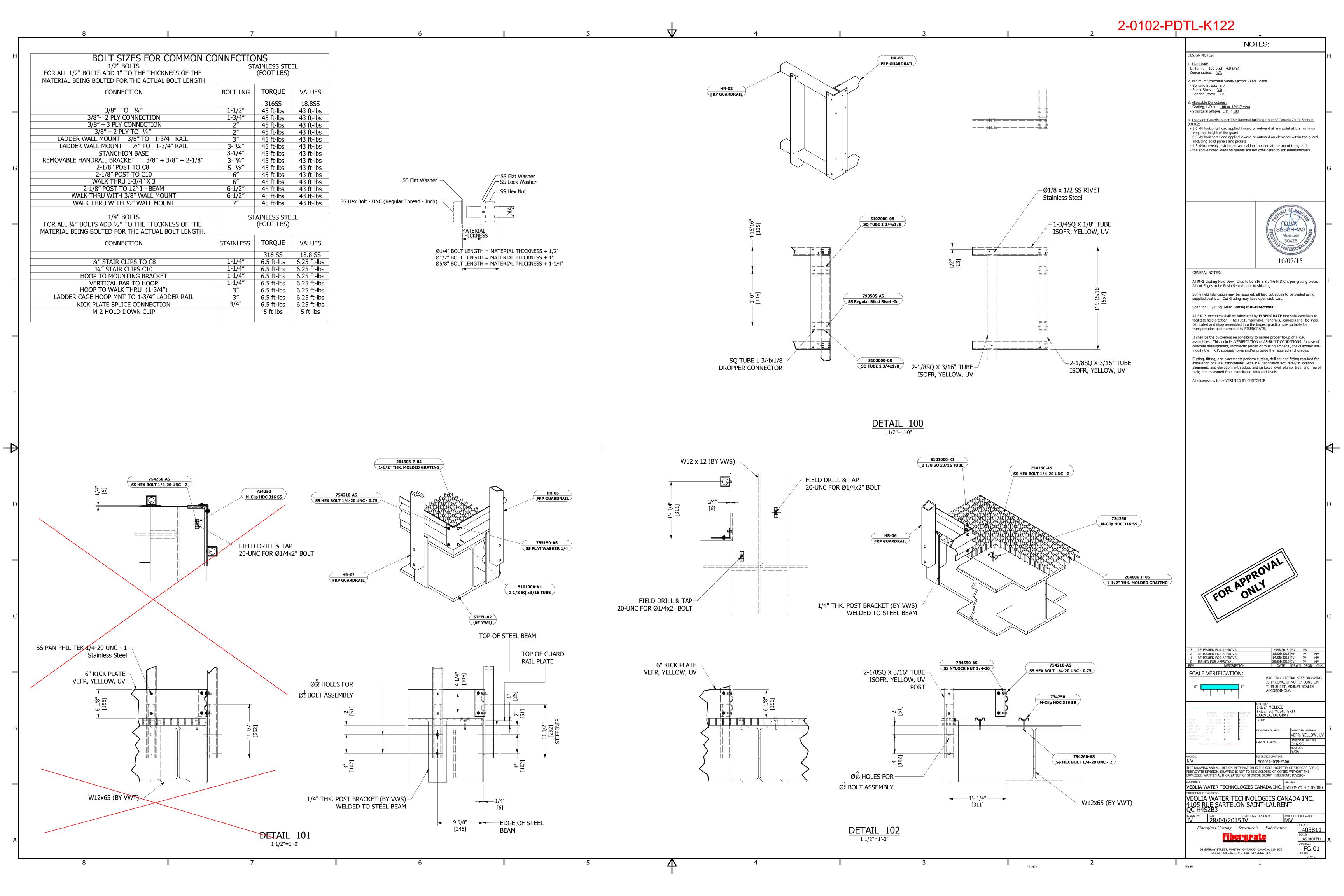












Installation Manual

Actiflo® Equipment

Project: WINNIPEG SEWPCC

Reference number: 5000214039

Rev. 2



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1.0 Storage

1.1 Scope

The following instructions outline the duties and responsibilities of the responsible party for equipment storage. The responsible party shall assume responsibility for the equipment upon arrival at the project site. These instructions shall define the minimum expectations for storage of all equipment.

While this storage specification taken into account common environmental issues that may affect the system during storage, common sense should be the overriding factor in determining the best method to ensure the integrity and proper storage of the *Veolia Water Technologies Canada* equipment.

1.2 Missing equipment/shipping damage notification

General

The condition of all delivered equipment must be verified by the responsible party upon arrival at site. Verification that all equipment has been delivered as per contract must also be done upon arrival at site. Notification of missing or damaged items must be sent to *Veolia Water Technologies Canada* within 10 days of receipt of equipment. If there is no documented notification of missing or damaged parts within 10 days, *Veolia Water Technologies Canada* is not responsible for replacement of any items found to be missing or damaged at the time of installation and start-up of the supplied equipment. It is the responsibility of the party receiving the equipment to ensure all packaging is opened at the time of receipt to uncover and document any and all damages to the Freight Company and *Veolia Water Technologies Canada*.

Photographs and written documentation should be provided on all damaged equipment.

Specific to project



For the current project, VWT will participate in inspection of the equipment upon delivery and jointly complete and sign Form 100 (provided with specs documents) along with Installation Contractor and Contract Administrator.

1.2.1 Storage

Should it be necessary to delay installation and subsequent operation of a unit for more than one month from date of receipt at Site, special precautions must be taken.

Although some equipment can be stored outdoors, indoor storage is preferred for most equipment (refer to list in Appendix B).

The storage environment into which a system is placed can have a severe effect on the long-term usefulness of some spare parts. Key environmental factors are:

- 1. temperature
- 2. relative humidity
- 3. pollutants

Air may contain excessive moisture, pollutants, microorganisms, and other particulates that accelerate the deterioration of some materials. Humidity and pollutants can produce an aggressive atmosphere.

1.2.1.1 Indoor storage

Indoor storage refers to storage in a climate controlled environment under a clean non-aggressive, in a dry (non-condensing) and sheltered environment having a relatively constant temperature (especially for gear reducers, motors, bearings, etc.).

The environmental indoor conditions should not exceed the following ranges.

Min/Max Temperature Range between: 5°- 40° C

Relative Humidity Range between: 35% - 70% (RH)

- 1. Equipments should be stored in a manner to be kept free from allowing insects/rodents etc. from entering the equipment.
- 2. Cover the equipment with a tarp or similar protective shield to prevent direct exposure to dust or any other contamination. However, never enclose the unit or components totally in plastic covers; always leave adequate ventilation of air to prevent condensation.
- 3. Storage volume depends on the size of the project.
- 4. Equipment must be checked on a weekly basis for tarp/wrap integrity and accumulation.
- 5. To avoid damage, do NOT stack crates.
- 6. To avoid damage, do NOT stack enclosures.



7. Do not store spares in barns, equipment sheds, or any other building without the capacity for heating and cooling as needed.

1.2.1.2 Outdoor storage

Some equipment such as water troughs, stainless steel pipes, ... (refer to list in Appendix B) may be stored outdoors, but the following instructions should be applied:

- 1. Equipment should be shielded from the sun, humidity and moisture, using tents or tarpaulins;
- 2. Provide adequate ventilation when using tents or tarpaulins;
- 3. Equipment must be stored with adequate support and anchoring, to prevent distortion and to raise equipment above any undesirable ground or floor conditions. It will also prevent flooding damages.
- 4. Remove all snow, dust and water accumulation from the top of the units.
- 5
- 6. Where applicable:
- 7. Drain water completely with special attention for sections without drain on lowest point.
- 8. Remove all motored, electronic equipment and instruments and store them indoor (heated and ventilated area).

1.2.1.3 Special maintenance requirements during storage

Mixers, scraper drive, recirculation pumps and other equipment with motors and moving parts (such as blowers,...)

After three (3) months of storage, long term storage methods must be applied to the unit including complete fill with lubricant. Protect machined surfaces and rotate shafts periodically (every month). Five (5) complete rotations of the output shafts are recommended each time.

Periodic checks should be made to ensure that no rusting or other damage has occurred. Should such be noted, corrective action should be quickly initiated. Prior to putting unit into service, drain lubricant and refill to proper level as determined by the mounting position. Refer to magnifacturer documentation.

All motors must be removed and store indoor (in a heated and ventilated area). All motors must be run every 3 month as a preventive measure against the formation of corrosion.



Also refer to each manufacturer documentation in O&M Manual.

Microsand dosage system

Excerpt from Installation, Operation and Maintenance Manual in Appendix C

(...) Avoid a humid or salty environment. If this is not possible, protect the equipment using insulating foil. Prior to installation, check to insure that all the electrical and pneumatic components are intact. To store the equipment for a period of inactivity, clean all parts thoroughly and grease the elastic parts. Store the equipment on a wooden platform, in a place that is protected from inelement weather conditions.

Microsand

Refer to MSDS sheet in Appendix C.

Instrumentation

All instruments must be stored indoors. Refer to manufacturer documentation in O&M Manual.

Equipment Cleaning

Veolia Water Technologies Canada is not responsible for cleaning of any equipment prior to installation and start-up due to the storage of the equipment. This is the complete responsibility of others.

Proper storage until installed

For contractual purposes, VWT demands the Client to send pictures of major equipment once it is placed in storage, any time it gets moved during storage and again prior to removing from storage. For outside storage, pictures must be sent every month. Alternatively, a written document (check list, etc.) confirming that proper storage conditions are maintained will suffice. Failing to do so would cancel the proposed warranty.



Handling

Equipment will arrive at the project site in several different shipments, from various freight companies and in several different packaging containers. Typically a flat bed truck is used which requires a fork lift or a crane to remove the various items.

The General Contractor is responsible for the equipment unloading and handling.



2.0 General Installation

The installation of Actiflo equipment must be completed on site by the Installation contractor. Please find below the list of tasks that need to be performed by the contractor at job site:

- Installation should be performed by millwrights.
- The installation contractor must ensure that the necessary lifting equipment is available on site to carry out the installation.
- All nuts & bolts need to be verified, accounted for and tightened.
- Refer to all field installation drawings for the installation of each Actiflo® unit.
- After installation completion and termination of all trades activities in the area, clean
 the tank sections of all debris (rags, tie-wraps, coffee cups, bolts, nuts, etc.) & objects
 that could damage the rotating mechanisms, damage pumps or clog the recirculation
 line. In most cases, a thorough sweeping of the area followed by a visual inspection
 will suffice.



- Installation of lamella packs
- Installation of tie-down cables
- Complete installation of collection troughs

Please note that sequence of works above is only provided as a suggestion. The installation Contractor is responsible of using the installation methods and sequence that is judged better to him.

3.6 Scraper bridge

Refer to the field installation drawings for proper installation of the scraper bridge.

3.7 Grating and handrail

Refer to the field installation drawings and documentation from manufacturer for proper installation of the grating and handrailing sections on the scraper bridge.

3.8 Scraper drive installation

Scraper drive and assembly

- Remove the transportation plate from the rake assembly;
- Lower the shaft of the rake using the eyebolt;
- Connect the rake drive to the shaft;
- Remove the eyebolt from the rake shaft;
- APPLICABLE TO VWT PROPRIETARY DRIVE UNITS: Add the lubricant in the planetary gear housing. Use Chevron Jubricating oils FM Grade ISO 460 or equivalent FDA approved. Please be careful about the amount of oil that is put in the scraper drive assembly as too much oil may overflow into the tank. The oil level should correspond to about ½ of the height of the gear;



- APPLICABLE TO DBS DRIVE UNITS: Refer to manufacturer documentation in O&M Manual.
- Rectify alignment if necessary;
- All electrical connections must be completed;
- Rotation of the rake must be CLOCKWISE;
- Ensure that there is no contact between the rake arm and the bottom of the hopper;
- Clean the tank sections of all debris & objects that could damage the rotating mechanisms
- Inspect the embedded recirculation pipe. It should be free of any debris.





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		009B	10	20	DIM: 736 Width x 1800 Length X 1000 Height					
			3	6	MODULE MODEL:DH85,					
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		009D			DIM: 560 Width x 970 Length X 1000 Height-Special cut					
	0098		1	2	MODULE MODEL:DH85,					
		009E			DIM: 560 Width x 847 Length X 1000 Height-Special cut					
		009F	6	12	MODULE MODEL:DH85, DIM: 252 Width x 1500 Length X 1000 Height		İ			
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		15			O MINICOS STEEL STOL		<u> </u>	 		
					SCRAPER SUPPORT ASSEMBLY					
	5000214039FI1000-	16	2	4	STAINLESS STEEL 316L				SA1601	
	5000214039FI1000-		6	12	TURNBUCKLE Ø3/4"-10UNC C/W JAWS					FXTBZC301245
		17		14	McMASTER-CARR #30315T617 STAINLESS STEEL 316		<u> </u>			171020001240
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	TITRE/TITLE			Rev.	DESCRIPTION	PAR/ BY:	APPR:	DATE:	Affaire /	
				11111	FOR APPROVAL	F.C.	V 11.	2014-09-09	Contract	WINNIPEG SEWPCC
	ACTIFLO GENERA	AT.			FOR APPROVAL II	F.C.		2015-02-23		
İ	INSTALLATION DET			3	FOR APPROVAL III	F.C.	W/	2015-06-08	REF. No.	5000214039 Rev. 3
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	DESSIN /DWG #	F[1	000	5		-			Date:	2015-02-16
REV.	ITEM			/QTY.	DESCRIPTION	P&ID	CAT. ACCPAC	SOURCE	FA/SA FI SITE	P/N
	5000214039Fi1000-	18	_	12	THREADED ROD Ø3/4"-10UNC X 12' LG. STAINLESS STEEL 316	1.D./ IAG				FXSDZD200578
	5000214039Fl1000-	19	6		COUPLING NUT Ø Ø3/4"-10UNC x 2-1/4" McMASTER-CARR #90104A025 STAINLESS STEEL 316					FXNUZC301902
	5000214039FI1000-	20	1	2	DRIVE SHAFT (UPPER PART) STAINLESS STEEL 316L				FA1650	
	5000214039FI1000-	21	2	4	RADIAL ARM TIGHTENER STAINLESS STEEL 316L				FA1611	
	5000214039FI1000-	22	1	2	DRIVE TUBE CHIMNEY STAINLESS STEEL 316L				FA1609	
	5000214039Fl1000-	23	2	4	DRIVE TUBE CHIMNEY SUPPORT STAINLESS STEEL 316L				FA1610	
	5000214039Fl1000-	24	3	6	SAMPLING BIN (5 GALLONS) (ST-999-023)C/W BALL VALVE & TUBING				SA1456	
	5000214039Fl1000-	25	3	6	HYDROCYCLONE SUPPORT ASSEMBLY STAINLESS STEEL 316L				SA500	
	5000214039FI1000-	26	6	12	SUPPORT SAMPLING TANK (5 GALLONS)				FA1466	
	5000214039Fl1000-	34	2	4	NIPPLES ø2" MNPT x 3 1/2"LG STAINLESS STEEL 316 McMASTER-CARR #4548K163					FPNISS313249
	5000214039FI1000-	35	2	4	NIPPLES Ø2" MNPT x 9"LG STAINLESS STEEL 316 McMASTER-CARR #4548K254			-		FPNISS313250
	5000214039Fl1000-	36	1	2	SEAL PLATE STAINLESS STEEL 316				FA058	
	5000214039FI1000-	37	, 1	2	SEAL GASKET 1/8" TH. MAT'L: RED RUBBER				FA059	
1 1								<u> </u>		



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<u> </u>	TITRE/ TITLE			Rev.		PAR/ BY:	APPR:	DATE:	Affaire /	WINNIPEG SEWPCC
1		_		-	FOR APPROVAL	F.C.		2014-09-09	Contract	
ļ	ACTIFLO GENERA			2	FOR APPROVAL II	F.C.	/	2015-02-23		1
ļ	INSTALLATION DET	AſL		3	FOR APPROVAL III	F.C.	m	2015-06-08	REF. No.	5000214039 Rev. 3
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L.,	DESSIN /DWG #	Fi1	000	5					Date:	2015-02-16
REV.	ITEM			QTY.	DESCRIPTION	P&ID	CAT. ACCPAC	SOURCE	FA/SA FI SITE	P/N
	5000214039FI1000-	38	2		ø2" FLANGE GASKET CLASS 150 LBS MAT'L: RED RUBBER	I.D./TAG			3112	SEGAFP200120
	5000214039FI1000-	39	2		CAP PIPE THREADED ø2" STAINLESS STEEL 316 McMASTER-CARR #4452K244					FPCPSS313089
	5000214039Fl1000-	40			CANCELLED					
	5000214039FI1000-	44	6	12	ø2" VICTAULIC COUPLING, STYLE-75 PROTECTION PAINTED	,				FPADSS200462
	5000214039Fl1000-	45	6	12	HYDROCYCLONE OUTLET VENT (PAINTED CARBON STEEL SCH40)				FA022	
	5000214039FI1000-	46	6	12	HYDROCYCLONE OUTLET (PAINTED CARBON STEEL SCH40)				FA022	
	5000214039Fl1000-	47	4	8	SETTLING MODULE SUPPORT ANGLE (958mm LG) STAINLESS STEEL 316L				FA1751	
	5000214039FI1000-	48	1	2	PREFAB. POLYMER DISTRIBUTION PVC PIPE SCH80 ø1 1/2" (INJECTION TANK)				FA1801	
	5000214039FI1000-	49	1	2	PREFAB. POLYMER DISTRIBUTION PVC PIPE SCH80 ø1 1/2"(MATURATION TANK)				FA1800	
	5000214039Fl1000-	50	113	226	PLASTIC CLAMPS FOR PIPE ø1 1/2" McMASTER-CARR #3192T55					FPCLPP313208
	5000214039FI1000-	51	2	4	POLYMER PIPE CLAMP MOUNTING PLATE STAINLESS STEEL 316L		:		FA1803	
	5000214039Fl1000-	52	2	4	POLYMER DISTRIBUTION SUPPORT STAINLESS STEEL 316L				FA1852	



	TITRE/ TITLE			Rev.	DESCRIPTION	PAR/ BY:	APPR:	DATE:	Affaire /	
	***************************************			1	FOR APPROVAL	F.C.		2014-09-09	Contract	WINNIPEG SEWPCC
	ACTIFLO GENERA	ΔI		2	FOR APPROVAL II	F.C.		2015-02-23		
	INSTALLATION DET			3	FOR APPROVAL III	F.C.	100/	2015-06-08	REF. No.	5000214039 Rev. 3
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	DESSIN /DWG #	FI1	000	5				•••	Date:	2015-02-16
REV.	ITEM		QTE	QTY.	DESCRIPTION	P&ID	CAT.	SOURCE	FA/SA FI	P/N
MEV.	(I ⊏IV (Unit.	Total		I.D./TAG	ACCPAC	SOUNCE	SITE	1 / 10
	5000214039FI1000-	53	8	16	SETTLING MODULE SUPPORT (8449mm LG) STAINLESS STEEL 316L				FA1750	
	5000214039FI1000-	54	12	24	SETTLING MODULE SUPPORT ANGLE (685mm LG) STAINLESS STEEL 316L				FA1751	
	5000214039Fl1000-	55	9	18	Ø1/4" x 25' LG. POLYURETHANE CORD,\NCOLOR: BLACK, McMASTER-CARR #3961T2					FXTIYP200121
	5000214039FI1000-	56	9	18	GLASS-REINFORCED NYLON ADJUSTABLE HOOK FOR POLYURETHANE CORD Ø1/4", McMASTER-CARR #3961T15	-				FXFAYP200076
	5000214039Fl1000-	57	9	18	GLASS-REINFORCED NYLON FIXED HOOK FOR POLYURETHANE CORD Ø1/4", McMASTER-CARR #3961T6					FXFAYP200077
	5000214039Fl1000-	58	18	36	Ø3/8"-16 UNC FULLY THREADED EYEBOLT Ø\NMAT'L: FIBERGLASS-FILLED POLYURETHANE\NMcMASTER- CARR #30295T34					FXBOYS200073
	5000214039FI1000-	60	60	120	COROPLAST SHEET 6mm X 300mm X 1220mm LG					FASHAI314242
	5000214039Fl1000-	61	94	188	THREADED ROD Ø1/2" X 7" LG. STAINLESS STEEL 316					FXTSYV308807
	5000214039Fl1000-	62	3	6	POLYMER DISTRIBUTION (HYDROCYCLONE UNDERFLOW)				FA021	
3	5000214039Fl1000-	63	12	24	PIPE SUPPORT FOR Ø1" AIR WASH SYSTEM STAINLESS STEEL 316L				FA053	
3	5000214039FI1000-	64	6	12	SUPPORT ANGLE FOR Ø1" AIR WASH SYSTEM STAINLESS STEEL 316L				FA053	



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	TITRE/ TITLE			Rev.	DESCRIPTION	PAR/BY:	APPR:	DATE:	Affaire /	WINNIPEG SEWPCC
]				Ь—	FOR APPROVAL	F.C.		2014-09-09	Contract	
	ACTIFLO GENERA			2	FOR APPROVAL II	F.C.	/	2015-02-23		
	INSTALLATION DET	AIL		3	FOR APPROVAL III	F.C.	m	2015-06-08	REF. No.	5000214039 Rev. 3
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<u></u>	DESSIN/DWG #	FI1	000	5					Date:	2015-02-16
REV.	ITEM		QTE/	QTY.	DESCRIPTION	P&ID	CAT.	SOURCE	FA/SA FI	P/N
n=v.	11 EM		Unit.	Total		I.D./TAG	ACCPAC	SOUTOL	SITE	
	· · · · · · · · · · · · · · · · · · ·									
3	5000214039Fl1000-	65	6	12	WALL SUPPORT FOR AIR WASH SYSTEM (LENGTH) STAINLESS STEEL 316L				FA054	
					WALL CURRORS FOR AIR WASH OVERTA (CHORT)					
3	5000214039Fl1000-	66	6	12	WALL SUPPORT FOR AIR WASH SYSTEM (SHORT) STAINLESS STEEL 316L	1		1	FA054	
	· · · · ·	00			STAINEESS STEEL STOL	 				
	E000014020EI1000			4	PIPE ø2" &1" FOR AIR WASH SYSTEM	-			FA050	-
	5000214039FI1000-	67	2	4	STAINLESS STEEL 316L (CORNER NORTH)				PAUSU	
	5000214039FI1000-	68	2	4	PIPE ø2" &1" FOR AIR WASH SYSTEM STAINLESS STEEL 316L (CORNER SOUTH)				FA055	
		00	 		STAINLESS STEEL STOL (CORNER SOUTH)		 	,		
				-	SETTLING TANK COLLECTING TROUGH			-	E1400	
	5000214039FI1000-	69	6	12	STAINLESS STEEL 316L				FA120	
	5000214039FI1000-		6	12	SETTLING TANK COLLECTING TROUGH GASKET				FA122	
		71			NEOPRENE 1/2" DURO 40-50 FDA	****				
				-	COLLECTING TROUGH SUPPORT (FOR CONCRETE			·		
	5000214039FI1000-	72	6	12	SIPHOID WALL) STAINLESS STEEL 316L				FA121	
					,				<u> </u>	
	5000214039FI1000-		12	24	SIPHOID WALL SUPPORT THREADED ROD					FXSDYV200576
<u> </u>	0000214000111000	73	'-		Ø1/2" X 9" LG. (STAINLESS STEEL 316)					. 7.05 1 720070
\vdash	· · · · · · · · · · · · · · · · · · ·		 	<u> </u>	INTERMEDIATE SUPPORT THREADED ROD					
	5000214039FI1000-	74	20	40						FXSDYY200577
		17		 	DOIO NOO 112 EGI. (OTMINEEOO OTEEE OTO)		 		<u> </u>	
	E000014020E11000		10	32	SETTLING MODULE WALL SUPPORT	1			FA1752	
	5000214039FI1000-	75	16	32	STAINLESS STEEL 316L				FA1702	
igsqcut							<u> </u>		1	
	5000214039FI1000-	70	4	8	INTERMEDIATE SUPPORT THREADED ROD		1			FXSDYY200577
\vdash		76	<u> </u>		Ø5/8 X 32 1/4"LG.(819mm) (STAINLESS STEEL 316)		 		 	
ш			<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u></u>		<u> </u>



	TITRE/ TITLE			Rev.	DESCRIPTION	PAR/ BY:	APPR:	DATE:	Affaire /	
	***************************************				FOR APPROVAL	F.C.	,,	2014-09-09	Contract	WINNIPEG SEWPCC
	ACTIFLO GENERA	۱L		<u> </u>	FOR APPROVAL II	F.C.		2015-02-23		
	INSTALLATION DET			3	FOR APPROVAL III	F.C.	n	2015-06-08	REF. No.	5000214039 Rev. 3
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	DESSIN /DWG #	FI1	000	5		•			Date:	2015-02-16
REV.	ITEM		QTE/		DESCRIPTION	P&ID	CAT. ACCPAC	SOURCE	FA/SA FI SITE	P/N
	5000214039FI1000-	77	13	Total 26	ADHESIVE HILTI HIT HY200 (330ml) C/W 1 CARTRIDGE & 1 MIXING TUBE #HILTI No.00371957	J.D./TAG			OITE	
	5000214039FI1000-	78	1	2	PREFAB. POLYMER DISTRIBUTION PVC PIPE ø1 1/2"(MATURATION TANK) SCH.80		-		FA1804	
	5000214039FI1000-	79	1	2	PREFAB. POLYMER DISTRIBUTION PVC PIPE ø1 1/2"(INJECTION TANK) SCH.80				FA1805	
	5000214039FI1000-	80	1	2	PREFAB. POLYMER DISTRIBUTION PVC PIPE ø1 1/2"(INJECTION TANK) SCH.80				FA1806	
	5000214039Fl1000-	81	1	2	PREFAB. POLYMER DISTRIBUTION PVC PIPE ø1 1/2"(INJECTION TANK) SCH.80				FA1807	
	5000214039Fl1000-	82	1	2	PREFAB. POLYMER DISTRIBUTION PVC PIPE ø1 1/2"(INJECTION TANK) SCH.80				FA1808	
	5000214039FI1000-	83	1	2	PREFAB. POLYMER DISTRIBUTION PVC PIPE ø1 1/2"(INJECTION TANK) SCH.80				FA1809	
	5000214039FI1000-	85	1	2	AIR WASH SYSTEM COMPONENT STAINLESS STEEL 316L (NORTH)				FA051	
	5000214039FI1000-	86	1	2	AIR WASH SYSTEM COMPONENT STAINLESS STEEL 316L (SOUTH)				FA051	
	5000214039Fl1000-	87	2	4	AIR WASH SYSTEM COMPONENT STAINLESS STEEL 316L (1050 LG)				FA051	
	5000214039FI1000-	88	2	4	AIR WASH SYSTEM COMPONENT STAINLESS STEEL 316L (840 LG)				FA051	



-	TITRE/ TITLE			Rev.	NOMENCLATURE/BILL OF MATE	PAR/BY:	APPR:	DATE:	Affaire /	
	IIINE/ IIICE				FOR APPROVAL	F.C.	ALC III	2014-09-09	Contract	WINNIPEG SEWPCC
	ACTIFLO GENERA				FOR APPROVAL II	F.C.		2015-02-23	Contract	
	INSTALLATION DETAIL				FOR APPROVAL III	F.C.	m	2015-06-08	REF. No.	5000214039 Rev. 3
DESSIN /DWG # FI1000					TOTAL TROVAL III	1.0.	1 7 0	2010 00 00	TILLI THO.	0000214000 11011 0
									Date:	2015-02-16
<u> </u>			l	5		Dayp	CAT		FA/SA	
REV.	JTEM QTE/				DESCRIPTION	P&ID	CAT. ACCPAC	SOURCE	FI: SITE	P/N
	Unit.		Unit.	Total	AIR WASH SYSTEM COMPONENT	I.D./TAG	 		2116	<u> </u>
	5000214039FI1000-	89	2	4	STAINLESS STEEL 316L (CENTER)				FA051	
	5000214039Fl1000-	90	2	4	PERFORATED PIPE FOR AIR WASH ASSEMBLY STAINLESS STEEL 316L				FA052	
		90				! !	<u> </u>			
	5000214039F(1000-	91	1	2	TYPE 300 STAINLESS STEEL ROTATING JOINT Ø2" - ONE-WAY FLOW " WITH LEFT-HAND ROTATING THREADS FOR CLOCKWISE ROTATION - McMASTER #9177K571 "					FPADSS313243
	5000214039Fi1000-	97	8	16	WALL SUPPORT STAINLESS STEEL 316				FA057	
	5000214039Fl1000-	98	4	8	UNIÓN Ø2" NPT STAINLESS STEEL 316 McMASTER-CARR #4452K231					FPUNSS312505
	5000214039FI1000-	99	2	4	ELBOW ø2" NPT STAINLESS STEEL 316 McMASTER-CARR #4452K419					FPELSS300283
	5000214039Fl1000-	193	4	8	Ø5/8" DROP-IN, POWERS FASTENERS #6230					FXACYY200153
	5000214039FI1000-	195	18	36	Ø3/8" DROP-IN, POWERS FASTENERS #6226 STAINLESS STEEL 316					FXACYS200138
	5000214039Fl1000-	301	24	48	THREADED ROD Ø1/2" x 6" LG STAINLESS STEEL 316L					FXSDYV200576
	5000214039Fl1000-	303	12	24	THREADED ROD ø3/4" x 9" LG STAINLESS STEEL 316L					FXTSZC308210
	5000214039Fl1000-	324	72	144	Ø1/2"x5-1/2" LG. MECHANICAL ANCHOR, POWERS FASTENERS, POWER-STUD #7624 (SS-316) C/W NUT AND WASHER					FXACYV200150



NOMENCLATURE/BILL OF MATERIALS

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	TITRE/ TITLE			Rev.	DESCRIPTION	PAR/ BY:	APPR:	DATE:	Affaire /	WINNIPEG SEWPCC
				1	FOR APPROVAL	F.C.		2014-09-09	Contract	
ACTIFLO GENERAL				2	FOR APPROVAL II	F.C.		2015-02-23		
	INSTALLATION DETAIL				FOR APPROVAL III	F.C.	m	2015-06-08	REF. No.	5000214039 Rev. 3
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	DESSIN /DWG #	FI1	000	5					Date:	2015-02-16
REV.	ITEM QTE/ Unit.		QTY. Total	DESCRIPTION	P&ID I.D./TAG	CAT. ACCPAC	SOURCE	FA/SA FI SITE	P/N	
	5000214039FI1000-	334	12	24	Ø5/8"x6" LG. MECHANICAL ANCHOR, POWERS FASTENERS, POWER-STUD #7634 (SS-316) C/W NUT AND WASHER					FXACYY200157
	5000214039FI1000-	502	206	412	NUT Ø1/2" STAINLESS STEEL 316					FXNUYV200218
	5000214039FI1000-	503	88	176	NUT Ø5/8" STAINLESS STEEL 316			_		FXNUYY200226
	5000214039FI1000-	504	32	64	NUT Ø3/4" STAINLESS STEEL 316	<u> </u>	-			FXNUZD200237
	5000214039Fl1000-	506	12	24	NUT Ø1" STAINLESS STEEL 316					FXNUZD200238
	5000214039Fl1000-	509	12	24	WASHER ø5/16" STAINLESS STEEL 316					FXWAYD200653
	5000214039Fi1000-	510	8	16	WASHER 8-32 STAINLESS STEEL 316					FXWAYE308309
	5000214039Fl1000-	511	56	112	WASHER Ø3/8" STAINLESS STEEL 316					FXWAYS200668
	5000214039FI1000-	512	210	420	WASHER Ø1/2" STAINLESS STEEL 316					FXWAYV200672
	5000214039Fl1000-	513	104	208	WASHER Ø5/8" STAINLESS STEEL 316					FXWAYY200676
	5000214039Fl1000-	514	48	96	WASHER Ø3/4" STAINLESS STEEL 316				-	FXWAZD200683
	5000214039Fl1000-	515	48	96	WASHER Ø7/8" STAINLESS STEEL 316					FXWAYI200660
	5000214039Fl1000-	516	48	96	WASHER Ø1" STAINLESS STEEL 316					FXWAZD200684
	5000214039FI1000-	521	8	16	LOCK WASHER Ø3/8" STAINLESS STEEL 316					FXWAYS200669
	5000214039FI1000-	522	40	80	LOCK WASHER Ø1/2" STAINLESS STEEL 316					FXWAYV200673
3	5000214039FI1000-	530	28	56	NYLON LOCK NUT Ø3/8" STAINLESS STEEL 316		-			FXNUYV200211
	5000214039FI1000-	531	8	16	NYLON LOCK NUT 8-32 STAINLESS STEEL 316					FXNUYB200181

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NOMENCLATURE/BILL OF MATERIALS

2-0102-PDTL-K129

-	NOMENCLATURE/BILL OF MATERIALS PROPERTY AND ARCHIVE A									
	TITRE/ TITLE			Rev.	DESCRIPTION	PAR/BY:	APPR:	DATE:	Affaire /	WINNIPEG SEWPCC
					FOR APPROVAL	F.C.		2014-09-09	Contract	
1	ACTIFLO GENERA			2	FOR APPROVAL II	F.C.	20	2015-02-23		
	INSTALLATION DET	AIL		3	FOR APPROVAL III	F.C.	m	2015-06-08	REF. No.	5000214039 Rev. 3
				4			0			,
	DESSIN/DWG # FI1000			5					Date:	2015-02-16
REV.	IIEM			QTY.	DESCRIPTION	P&ID I.D./TAG	CAT. ACCPAC	SOURCE	FA/SA FI SITE	P/N
3	5000214039FI1000-	532	24	48	NYLON LOCK NUT Ø1/2" STAINLESS STEEL 316					FXNUYV200219
	5000214039FI1000-	533	8	16	NYLON LOCK NUT Ø5/8" STAINLESS STEEL 316					FXNUYY200227
	5000214039FI1000-	534	12	24	NYLON LOCK NUT Ø3/4" STAINLESS STEEL 316					FXNUZD200239
	5000214039FI1000-	535	24	48	NYLON LOCK NUT Ø7/8" STAINLESS STEEL 316					FXNUYI200197
	5000214039Fi1000-	536	12	24	NYLON LOCK NUT Ø1" STAINLESS STEEL 316					FXNUZD200240
	5000214039Fl1000-	602	226	452	ANCHORS HILTI KWIK-CON II PLUS ø3/16" x 1 1/4" LG. HEX.HEAD / 410 STAINLESS STEEL					FXACYP200135
	5000214039Fi1000-	622	8	ı ın	Ø1/2"x3-3/4" LG. MECHANICAL ANCHOR, POWERS FASTENERS, POWER-STUD #7622 (S.S. 316)			_		FXACYV200148
	5000214039Fl1000-	713	12	24	HEX HEAD BOLT Ø5/16x3/4" STAINLESS STEEL 316					FXSCYD200296
	5000214039Fl1000-	714	8	16	HEX HEAD BOLT Ø3/4x2 1/2" STAINLESS STEEL 316					FXSCZC200560
	5000214039Fl1000-	715	12	24	HEX HEAD BOLT Ø7/8 X 4" STAINLESS STEEL 316					FXSCYI200327
	5000214039FI1000-	721	4	8	HEX HEAD BOLT Ø3/8x1" STAINLESS STEEL 316					FXSCYS200405
	5000214039FI1000-	742	44	88	HEX HEAD BOLT Ø1/2x2" STAINLESS STEEL 316				<u> </u>	FXSCYV200472
	5000214039FI1000-	743	8	16	HEX HEAD BOLT 8-32 x1" STAINLESS STEEL 316					FXSCYE308308
	5000214039FI1000-	744	4	8	HEX HEAD BOLT Ø3/4"X3"1/2 STAINLESS STEEL 316					FXSCZC200563
	5000214039Fl1000-	751	12	24	HEX HEAD BOLT Ø3/8x1 3/4" STAINLESS STEEL 316		-		-	FXSCYS200408
	5000214039FI1000-	753	8	16	HEX HEAD BOLT Ø3/4"x3" STAINLESS STEEL 316		-			FXSCZC200562



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<u> </u>	TITRE/ TITLE			Rev.	DESCRIPTION	PAR/ BY:	APPR:	DATE:	Affaire /	WINNIPEG SEWPCC
					FOR APPROVAL	F.C.		2014-09-09	Contract	
	ACTIFLO GENERA	AL.		2	FOR APPROVAL II	F.C.		2915-02-23		
	INSTALLATION DETAIL				FOR APPROVAL III	F.C.	γ	2015-06-08	REF. No.	5000214039 Rev. 3
				4			V			
	DESSIN /DWG # FI1000			5					Date:	2015-02-16
	ITEM QTE		OTE	OTY.		P&ID	CAT.	1	FA/SA	
REV.			Total	DESCRIPTION	I.D./TAG	ACCPAC	SOURCE	FI SITE	P/N	
	5000214039Fi1000-	761			HEX HEAD BOLT Ø3/8x2" STAINLESS STEEL 316	I.D./TAG				FXSCYS200409
	0,000,000,000,000									
	5000214039FI1000-	763	8	16	HEX HEAD BOLT Ø5/8x3" STAINLESS STEEL 316					FXSCYY200528
				1						
	5000214039FI1000-	794	12	24	HEX HEAD BOLT Ø7/8" x 4 1/2" LG STAINLESS STEEL 316					FXSCZD308209
		794			STAINLESS STEEL 310					
	5000214039FI1000-		40	24	HEX HEAD BOLT Ø1/2" x 2" LG					FXSCYV200472
		796	12	24	STAINLESS STEEL 316	<u></u>				17/3017/2004/2
							-		·	
	5000214039Fl1000-	797	14	28	U-BOLT ø3/8" ROD (PIPE ø2") C/A NUT AND WASHER STAINLESS STEEL 316					FXUBZG200622
		131		 	OTAINEEGG GTEEE GTG					
	FORGOL LOCATIVA CA		6	12	U-BOLT ø1/4" ROD (PIPE ø3/4") C/A NUT AND WASHER			-		FXUBZC200611
	5000214039FI1000-	798	U	12	STAINLESS STEEL 316					
				_	LL DOLT =4/All DOD /DIDE =4/IN O/A NUT AND MACUED					
	5000214039FI1000-	799	12	24	U-BOLT ø1/4" ROD (PIPE ø1") C/A NUT AND WASHER STAINLESS STEEL 316					FXUBZD200613
		, 55			077111200 01222 010	100-100				
	5000214039Fl1000-				U-BOLT ø1/4" ROD (PIPE ø1 1/2")C/A NUT AND					
			6	12	WASHER					FXBOGU308349
		800			STAINLESS STEEL 316					
					END OF LIST					
					END OF LIST					