SHEET: COW-A1 (05/2005)

PANEL SCHEDULE
PANEL ' P-100 '

DESCRIPTION	LOAD	BKR	CCT	A	B	C	CCT	BKR	LOAD	DESCRIPTION
30kVA Transformer PTR-1		40A	1	*			2	60A		Panel P-200
3/C #8 Teck		3P	3		*		4	3P		
			5			*	6			
Make Up Air Unit W-795-MAU	3HP	15A	7	*			8	15A	9kW	Hot Water Tank W-702-HWT-2
3/C #12 Teck		3P	9		*		10	3P		3/C #12 Teck
			11			*	12			
Welding Receptacle		60A	13	*			14	15A		Spare
		3P	15		*		16	3P		
			17			*	18			
Spare		15A	19	*			20	150A		Panel P-100 Main Breaker
		3P	21		*		22	3P		
			23			*	24			
Space			25	*			26			Space
			27		*		28			
			29			*	30			

Voltage: 600V/3Ø/3 wire — Feeder: 3/C # 1/0 Teck
Mains: 225A — Main Breaker: 100A-3P
Location: Chemical Building — Power Source: Sludge Dewatering MCC 2WB
Mounting: Surface

PANEL SCHEDULE
Panel 'PA'

DESCRIPTION	LOAD	BKR	CCT	A	B	C	CCT	BKR	LOAD	DESCRIPTION
Heat Trace		15GFI	1	*			2	15A	3	Receptacles
Heat Trace		15GFI	3		*		4	15A	2	Receptacles
Marshalling Panel		15A	5			*	6	15A	-	Spare
Marshalling Panel		15A	7	*			8	15A	-	Spare
Marshalling Panel		15A	9		*		10	15A	20W	DHW Circ. Pump W-702-P-2
Fire Alarm Panel		15A	11			*	12	15A	300W	Glycol Circulating Pump W-795-P
Feed Pump W-740-FP	1/3HP	15A	13	*			14	15A		Motorized Dampers
VFD 4/C #10		3P	15		*		16	15A	1/3HP	Unit Heater W-797-UH
			17			*	18	15A	1/3HP	Unit Heater W-798-UH
Feed Pump W-750-FP	1/3HP	15A	19	*			20	15A	425W	Lighting - Night Lighting
VFD 4/C #10		3P	21		*		22	15A	455W	Lighting
			23			*	24	15A	350W	Exterior Lighting
Feed Pump W-760-FP	1/3HP	15A	25	*			26	15A	150W	Eye Wash W-702-EW-3
VFD 4/C #10		3P	27		*		28	15GFI	1	Receptacles - Exterior
			29			*	30	15A	400W	WV-705 Actuator Valve
Exhaust Fan W-796-EF	**1.5HP**	**15A**	31	*			32	15A	400W	WV-706 Actuator Valve
VFD 4/C #10 Teck		**3P**	33		*		34	15A	400W	WV-715 Actuator Valve
			35			*	36	15A	400W	WV-725 Actuator Valve
Spare	-	15A	37	*			38	-	-	Space
Space	-	-	39		*		40	-	-	Space
Space	-	-	41			*	42	-	-	Space

Voltage: 120/208V/3Ø/4 wire — Feeder: 4/C #3 Teck
Mains: 225A — Main Breaker: N/A
Location: CHEMICAL STORAGE BUILDING — Power Source: TRANSFORMER PTR-1
Mounting: SURFACE

LUMINAIRE SCHEDULE

Type	Manufacturer	Catalogue No.	Voltage	Lamps No.	Lamps Type	Mounting	Remarks
A	Lithonia Lighting	DMW 2 32 AR 120 GEB10IS	120	2	T8	Chain suspended	
A1	Lithonia Lighting	DMW 2 32 AR 120 GEB10IS	120	2	T8	bracket mounting	bracket supplied by contractor
A2	Lithonia Lighting	DMW 2 32 AR 120 GEB10IS	120	2	T8	bracket mounting	c/w Low temperature ballast
							bracket supplied by contractor
B	Lithonia Lighting	TWR1175M TB LPI CSA	120	1	175W MH	Wall Mounted	
B1	Lithonia Lighting	TWR1100M TB LPI CSA	120	1	100W MH	Wall Mounted	C/W Built-in Photocell
C	Lithonia Lighting	TWR2250MTB LPI CSA	120	1	250W MH	Wall Mounted	C/W Built-in Photocell
D	Appleton	KPSH10150J5	120	1	100W MH	Stanchion Mtd	Mounted on top platform, attach to
							hand rail.
E	Woodhead Canada	RI45-13G	120	1	13W low	Wall Mounted	Cord Reel, 10700M, 3/C#16 cable
					Temp. Fluor.		mounted 1m above floor.Switch at reel.
F	Keen-Widelite	706P100SL-E-T-HA100-1-	120	1	100W MH	Pendant Mounted	Provide safety chain option 'SC'
		4CP-715 c/w 100WMH Lamp					
X	Lumacell	LERS 550 WH C/W	120		LED	Wall Mounted	Connect to local lighting circuit
BB-1	Lumacell	RG12S 72 DT 2 LH18W HTR	120	2	18W Tung	Wall Mounted	C/W Ammeter/Voltmeter/Cabtire
							cable c/w twistlock rec.
BB-1-2	Lumacell	RS 20 WP12V18W Black	12V DC	2	18W Tung	Wall Mounted	mounted 300mm above door frame

02

PANEL SCHEDULE
P-200

DESCRIPTION	LOAD	BKR	CCT	A	B	C	CCT	BKR	LOAD	DESCRIPTION
Transformer PTR-2	30kVA	40A	1	*			2	15A	5HP	Make-up Air Unit W-790-MAU
		3P	3		*		4	3P		3/C#12 Teck
			5			*	6			
Spare		15A	7	*			8	15A	9kW	Hot Water Tank W-702-HWT-1
		3P	9		*		10	3P		3/C#12 Teck
			11			*	12			
			13	*			14			
			15		*		16			
			17			*	18			
Welding Receptacle		60A	19	*			20			
		3P	21		*		22			
			23			*	24			
			25	*			26	60A		Panel P-200 Main Breaker
			27		*		28	3P		
			29			*	30			

Voltage: 600V/3Ø/3W — Feeder: 3/C # 6 Teck
Mains: 225A — Main Breaker: 60A-3P
Location: RAILCAR SHELTER — Power Source: PANEL P-100
Mounting: SURFACE

PANEL SCHEDULE
Panel 'PB'

DESCRIPTION	LOAD	BKR	CCT	A	B	C	CCT	BKR	LOAD	DESCRIPTION
Lighting	800W	15A	1	*			2	15A	2	Receptacles
Lighting	800W	15A	3		*		4	15A	2	Receptacles
Lighting - Exterior	600W	15A	5			*	6	15A	150W	Eye Wash W-702-EW-1
Radiant Heater W-792-RH	2.6A	15A	7	*			8	15A	150W	Eye Wash W-702-EW-2
Radiant Heater W-793-RH	2.6A	15A	9		*		10	15A	350W	Lighting - Night Lighting
Portable Light	15W	15A	11			*	12	15A		Motorized Dampers
Lighting - Exterior	750W	15A	13	*			14	15A	400W	Valve Actuator W-V-695
Heat Trace	350W	15GFI	15		*		16	15A	20W	DHW Circ. Pump W-702-P-1
Space	-	-	17			*	18	15A		Spare
Overhead Door	1HP	15A	19	*			20	**15A**	**1.5HP**	**Exhaust Fan W-791-EF**
3/C #12 Teck		3P	21		*		22	**3P**		**3/C#10 Teck**
			23			*	24			

Voltage: 120/208V/3Ø/4 wire — Feeder: 4/C #3 Teck
Mains: 225A — Main Breaker: N/A
Location: RAILCAR SHELTER — Power Source: TRANSFORMER PTR-2
Mounting: SURFACE

MOTOR SCHEDULE

MOTOR EQUIP. NO.	DESCRIPTION	EQUIP. LOAD	VOLT/PH	STARTER SIZE	TYPE	MAN.	MAG.	S/S	PL	H.O.A	OVERCU DEVICE	LOCATION	PANEL	POWER CCT.	FEEDER	CAP. SIZE	DISC. TYPE	DETAIL SCHEMATIC	REMARKS
W-795-MAU	Make Up Air	3HP	600/3	1	Mag				*	*	15A-3P	Chemical Bld	P-100	7, 9, 11	3/C#12 Teck		30A		
W-790-MAU	Direct Fired Make Up Air	5HP	600/3	1	Mag				*	*	15A-3P	Railcar Shelter	P-200	2, 4, 6	3/C#12 Teck		30A		
W-796-EF	Exhaust Fan	1.5HP	208/3						*	*	15A-3P	Chemical Bld	PA	**31,33,35**	**4/C#10 Teck**		30A		VFD
W-791-EF	Exhaust Fan	1.5HP	208/3	1	Mag				*	*	15A-3P	Railcar Shelter	PB	**20,22,24**	3/C#12 Teck		30A		2 Speed Magnetic Starter
W-797-UH	Unit Heater Gas fired	1/12HP	120/1								15A-1P	Chemical Bld	PA	16	2/C#12 Teck		15A		Thermostat/auto/on fan switch suppied
W-798-UH	Unit Heater Gas fired	1/12HP	120/1			*					15A-1P	Chemical Bld	PA	18	2/C#12 Teck		15A		Thermostat/auto/on fan switch suppied
W-792-RH	Infrared Heater Fan	1/12HP	120/1								15A-1P	Railcar Shelter	PB	**7**	2/C#12-20mm C		15A		Provide 15A receptacle
W-793-RH	Infrared Heater Fan	1/12HP	120/1								15A-1P	Railcar Shelter	PB	**9**	2/C#12-20mm C		15A		Provide 15A receptacle
W-740-FP	Chemical Feed Pump	1/2HP	208/3						*	*	15A-3P	Chemical Bld	PA	13,15,17	4/C#12 Teck				VFD
W-750-FP	Chemical Feed Pump	1/2HP	208/3						*	*	15A-3P	Chemical Bld	PA	19,21,23	4/C#12 Teck				VFD
W-760-FP	Chemical Feed Pump	1/2HP	208/3						*	*	15A-3P	Chemical Bld	PA	25,27,29	4/C#12 Teck				VFD
W-702-P-1	DHW Circulating Pump	20W	120/1								15A-1P	Railcar Shelter	PB	16	2/C#12 Teck				
W-702-P-2	DHW Circulating Pump	20W	120/1								15A-1P	Chemical Bld	PA	**10**	2/C#12 Teck				
W-795-P	Glycol Circulating Pump	300W	120/1								15A-1P	Chemical Bld	PA	12	2/C#12 Teck				Controlled by outdoor temperature sensor
WV-705	Valve Actuator	400W	120/1								15A-1P	Chemical Bld	PA	**30**	2/C#12 Teck				
WV-706	Valve Actuator	400W	120/1								15A-1P	Chemical Bld	PA	**32**	2/C#12 Teck				
WV-715	Valve Actuator	400W	120/1								15A-1P	Chemical Bld	PA	**34**	2/C#12 Teck				
WV-725	Valve Actuator	400W	120/1								15A-1P	Chemical Bld	PA	**36**	2/C#12 Teck				
WV-695	Valve Actuator	400W	120/1								15A-1P	Railcar Shelter	PB	16	2/C#12 Teck				

APEGM
Certificate of Authorization
Earth Tech Canada Inc.
No. 730 Expiry: April 30, 2006

B.M. ELEV.

NO.	REVISIONS	DATE	BY
02	611-2005 ADDENDEUM 2	06/01/17	ERC
01	611-2005 ADDENDEUM 1	06/01/12	ERC
00	ISSUED FOR TENDER	05/12/2	ERC

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A Tyco International Ltd. Company

DESIGNED BY GSN — CHECKED BY PS
DRAWN BY ERC — APPROVED BY D. TANIGUCHI
SCALE: N.T.S. — RELEASED FOR CONSTRUCTION BY: K. MARTENS
DATE 2005/08/10 — DATE 05/12/02

ENGINEER'S SEAL
ORIGINAL SIGNED BY
P. STRYK
2005/12/02

CONSULTANT DRAWING NO. CE1.02

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

NEWPCC CENTRATE NUTRIENT TREATMENT
PHOSPHORUS REMOVAL FACILITY
CONTRACT No. 1

ELECTRICAL
PANEL, LIGHTING AND MOTOR SCHEDULES

CITY FILE NUMBER
SHEET OF
CITY DRAWING NUMBER
1-010F-D-E0001-001-02-D

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