PANEL		11 40		AMI		VOLTS:				PHAS		WIRE:		SURF. MOUNT X TOP FED	X
	PN	IL-1G		1	150 347/600V						3ø	4	1	FLUSH MOUNT BOT. FED	
DESC	RIPTION:	NON-ESSENTIAL			L									GRIT ELECTRICAL ROOM	
MFG ,	/ MODEL:	WESTINGHOUSE PL-3		I								ITERRUPTIN	G RATING	<sup>3</sup> 25 KA	
MAIN	BREAKER:	100A										ist. Settin	GS:	N/A	
CCT.		DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	À	, Ç	LOAD (VA)		RKR MPS	1 1	NOTE	DESCRIPTION	C
1	LIGHTING	PUMP WELL FLOOR			15	1050W	1	Ŧ	600W	1	5			LIGHTING PUMP WELL RM. G101	
3	LIGHTING	SERVICE FLOOR RM. G108			15	1400W	1 ┼┪	4	900W	1	5			LIGHTING BLOWER RM. G115	
5	LIGHTING	RM. G111 & G112			15	900W	144	+	500W	1:	5			LIGHTING CONTROL RM. G140	
7	LIGHTING	RM. G102 & G103			15	1500	1∔1	+	1800W	1	5			LIGHTING MOTOR RM. G114	
9	LIGHTING	SCREEN RM. G127			15	800	1 ┼	4	1000W	1	5			LIGHTING STORAGE RM. G129	1
11	LIGHTING	SCREEN RM. G127			15	960	144	+	700W	1	5			LIGHTING MECHANICAL RM. G130	1
13	LIGHTING	SCREEN RM. G127			15	960	1 ∔ ∤	+	800W	1	5			LIGHTING MECHANICAL RM. G130	1
15	LIGHTING	GRIT TANK WALKWAY RM. G137			15	900W	1 ╁┪	+	720	1	5			LIGHTING MECHANICAL RM. G130	1
17	LIGHTING	ELEVATOR MACH. RM. G131			15	200W	144	+	900W	1	5			LIGHTING ELECTRICAL RM. G116	1
19	LIGHTING	GALLARIES 1-3 RM. G117 & G134			15	900W	1 ∔ ∤	+	700W	1	5			LIGHTING GALLERIES 2-3 RM. G138 & G1	39 2
21	OUTDOOF	R LIGHTING		10	15	2400W	1 ┼	4	1680	1	5			LIGHTING GRIT TANK RM. G138 & G13	39 2
23	OUTDOOF	R LIGHTING		10	15	2600W	144	+		1	5			SPARE	2
25	OUTDOOF	R LIGHTING		10	15	2200W	1∔1	+		1	5			SPARE	2
27	SPARE				15		1 ╁┪	+		1	5			SPARE	2
29	SPARE				15		144	+		1	5			SPARE	- 3
31	SPARE				15		<b>│</b>	4		1	5			SPARE	3
33	SPACE						1 ↓ ↓	4						SPACE	3
35	SPACE						144	+		T				SPACE	3
37	SPACE						1 ∔ ∤	4						SPACE	3
39	SPACE						1 ╁┪	4						SPACE	4
41	SPACE						144	4						SPACE	4
	CONNECTED	) LOAD:	Г			1.1.	<del></del>		<u> </u>			1	NOTE LE		
		KVA		PHASE		k۷			A				A	AFCI ARC FAULT CIRCUIT INTERRUPTOF	7
		A (AVG)	F	PHASE	B:	k٧	Ά		Α					GFCI GROUND FAULT CIRCUIT INTERRU	PTOR
		A (MAX)	F	PHASE	C:	k٧	Ά		Α				L	LOCK LOCKED BREAKER	
NOTES 1		LOADS COPIED FROM EXISTING	DRAWIN	GS EXC	CEPT FO	OR THOSE	NOT	ED	).						

PANEL ID:			AMI	PS:	VOLTS:			PHAS	E:	WIRE:		SURF. MOUNT X TOP FED	X		
PNL-2G			1	50	347/	600V		3	Ø	4	1	FLUSH MOUNT BOT. FED			
DESCRIPTION: ESSENTIA	AL		•		•				LOCA	TION:	•	GRIT ELECTRICAL ROOM			
MFG / MODEL: WESTING	HOUSE PRL3								INTER	RUPTIN	G RATING	<sup>3</sup> 25 KA			
MAIN BREAKER: 40A, SE	RIES HFD								INST.	SETTIN	GS:	N/A			
CCT. DESC	RIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	À   	LOAD (VA)	BR AM		WIRE (AWG)	NOTE	DESCRIPTION	CC.		
1 LGTS PUMP WELL	RM G101 & G108			15	692	] <del> </del>	- 700W	1:	5			LIGHTING STAIRS G124 & G125	2		
3 LGTS STAIRS G103,				15	700W	] <del>                                    </del>	- 700W	1:	5			LIGHTING STAIRS G110 & G123	4		
5 LGTS STAIRS G104	& G106			15	600W	<u></u> │┼┼┥	550	15	5			LGTS RM. G113, G115, G116 & G140	6		
7 LGTS WET WELL RN	1 G102 & G103			15	200	<u></u> │┿┼╴	- 810	1:	5			LGTS RM G114 & G122	8		
9 LGTS RM G127, G1	29 & G130			15	1140	<u> </u>	- 888	1:	5			LGTS RM G134,G135,G136,G138 & G13	_		
11 EXTERIOR LIGHTING				15	300W	<u></u> │┼┼╸	2000W						12		
13					2000W	<u></u> │┿┼╴	- 2000W	1	5			SUMP PUMP G561-SMP	14		
15 SUMP PUMP G562-	-SMP			15	2000W	<u></u> ┤┼╋╌	- 2000W						16		
17					2000W	↓ <b>┼┼</b> ⁴	•	1:	5			VIEWING GALLERY	18		
19 EXIT LIGHTS				15		<b>│</b> †┼	-						20		
21 EXIT LIGHTS				15		<u></u> ┤┼╋╴	-	1:	5			ELEVATOR	22		
23 SPARE				15		Щ	•						24		
TOTAL CONNECTED LOAD:	KVA	F	PHASE	A:	k۷	/Α	Α				NOTE LE				
	A (AVG)	F	PHASE	B:	k۷	/Α	Α					AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR			
	A (MAX)			PHASE C:		kVA A					LOCK LOCKED BREAKER				
NOTES:	/ (m///)	'	. ,, ,,,,,	<u> </u>		• •									

PANE	ILID:		AM		VOLTS:				PHASE:	WIRE:		SURF. MOUNT X TOP FED	
	PNL-3G		10	00	120/2	208	٧		3ø		4	FLUSH MOUNT BOT. FED	
DESC	CRIPTION:		•		•			•	L	OCATION:	•	GRIT ELECTRICAL ROOM	
MFG	/ MODEL:								IN	NTERRUPTIN	IG RATING	<sup>:</sup> 10 KA	
MAIN	BREAKER: 100A								IN	IST. SETTIN	IGS:	N/A	
ССТ.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	Ä	ç	LOAD (VA)	BRKR		NOTE	DESCRIPTION	ССТ
1	PUMP WELL EXHAUST FAN			15	100W	+	Ŧ	600W	15			RECEPTACLE PUMP WELL RM. G101	2
3	RECEPTACLE CONTROL RM. G140			15	800W	] + 🛉	+	600W	15			RECEPTACLE SERVICE FLOOR RM. G108	4
5	ELEVATOR PIT LOADS			15	350W	]	+	1200W	15			RECEPTACLE MOTOR RM. G114	6
7	RECEPTACLE RM. G115 & G116			15	1200W	] ┿┤	+	1200W	15			RECEPTACLE RM. G125, G126 & G127	8
9	RECEPTACLE RM. G122 & G127			15	1200W	<u></u> │┼┪	+		15			SPARE	10
11	LIGHT & FAN G112 AND LIGHT RM. G11	1		15	150W	]	+	600W	15			LIGHITNG VIEWING GALLERY RM. G126	12
13	RECEPTACLE RM. G137, G138 & G139			15	800W	<b>│┿</b> ┤	+	800W	15			RECEPTACLE RM. G134, G135 & G136	14
15	RECEPTACLE RM. G113 & G117			15	1000W	<u></u> │┼┥	+	500W	15			UNIT HEATERS RM. G127, G129 & G130	16
17					1675W	<u></u>	+	1000	15			SCREEN EXHAUST FAN G689-EF	18
19	DUCT HEATER G651-HC			20	1675W	<u></u> │╋┤	+	600W	15			ELEVATOR EXHAUST FAN G691-EF	20
21					1675W	<u></u> │┼┪	+	600W	15			GRIT TANK EXHAUST FAN G690-EF	22
23	RECEPTACLE RM. G129 & G130			15	1000W	<u></u> │┼┤	+	25W	15			BACKWASH FILTER G670-EF	24
25	OUTDOOR LIGHTING PHOTOCELL			15	100W	<b>│┿</b> ┤	+	120	15			RECEPTACLE RM. G102 & G103	26
27					1920	<u></u> │┼╋	+		15			OUTSIDE RECEPT. SE GRIT BLDG.	28
29	_XFMR-G9		8	40	1920	<u></u>	+		15			OUTDOOR LIGH REC. VCH. DUMPING	30
31	·······	$\sim$	~	$\sim$	1920	<b>│┿</b> ┤	+		15			OUTSIDE RECEPT. NE GRIT BLDG.	32
33	LCP-G1		12	15	300	<b>∖</b> †	+	150	15	12		NP-G1 NETWORKING PANEL	34
35	LCP-G2		12	15	300 .	╏┼┼	+	10	15	12		CCTV GRIT TRUCK BAY	36
37	G603-GMU & G605-GMU		12	15	200	₽ <del>†</del> ┤	+					SPACE	38
739	SPACE	~	~	~	~~	] 🕂	+					SPACE	40
41	SPACE					Ш	+					SPACE	42
TOTA	L CONNECTED LOAD: KVA		PHASE	A:	k۷	Ά		Α			NOTE LE		
	A (AVG)		PHASE		k۷			A				AFCI ARC FAULT CIRCUIT INTERRUPTOR	OD.
												GFCI GROUND FAULT CIRCUIT INTERRUPT LOCK LOCKED BREAKER	UK
	A (MAX)		PHASE	. U:	k۷	A		A				COOK LOOKED BREAKEN	
NOTE		DDAWK	100										
	1. WATT LOADS COPIED FROM EXISTING	DRAWIN	GS.										

PANEL ID:		AMF	PS:	VOLTS:			PHAS	E:	WIRE:		SURF. MOUNT X TOP FED	X		
PNL-4G		10	00	120/	120/208V			3ø		1	FLUSH MOUNT BOT. FED			
DESCRIPTION: ESSENTIAL				•				LOCATION: GRIT ELECTRICAL ROOM						
MFG / MODEL: WESTINGHOUSE PRL1								INTE	ERRUPTING	G RATING	: 10 KA			
MAIN BREAKER: 60A								INST	ST. SETTING	GS:	N/A			
CCT. DESCRIPTION	I MOTE I	WIRE (AWG)	BRKR AMPS	LOAD (VA)	ÀH	LOAD (VA)		KR IPS	WIRE (AWG)	NOTE	DESCRIPTION	сст.		
1 ELEVATOR LIGHTS			15	500W	1	- 400W	1	5			SPARE	2		
3 SPARE			15		]   +	- 1200W	1.	5			FIELD DEVICE PANEL 'G'	4		
5				3000W	]₩	1200W	15	5			FIELD DEVICE PANEL 'G'	6		
7 PANEL '1A' IN ADMINISTRATION BLDG.			40	3000W	] <del>     </del>	- 1200W	1:	5			FIELD DEVICE PANEL 'G'	8		
9				3000W	] + +	- 150	1	5			BPS-G1	10		
11				500	] +++	•	1.	5			SPARE	12		
13 SPARE (WAS PNL-8G)			40	500	]+	-	1:	5			SPARE (WAS NETWORK HUB)	14		
15				500	] ++-	-	1:	5			SPARE	16		
17 SPARE			15		] ┼┼┥	•					SPACE	18		
19 SPARE			15		] <del>     </del>	-					SPACE	20		
21 SPARE			15		] ++-	-					SPACE	22		
23 SPACE					<u> </u>	•					SPACE	24		
TOTAL CONNECTED LOAD: KVA	PH	HASE	Δ٠	k۷	/Δ	Α				NOTE LE				
A (AVG)		HASE		k۷		A					AFCI ARC FAULT CIRCUIT INTERRUPTO			
A (MAX)		HASE		k۷		A					GFCI GROUND FAULT CIRCUIT INTERRU OCK LOCKED BREAKER	PIUK		
A (MAA)	FI	TASE	C.	KV	'A	A					SON EGGNED BREAKEN			

PANEL	PNL-G9	(WAS F	PNL-	8G)		IPS:	VOLTS: 120/2	208V		PHASI		WIRE:	4	SURF. MOUNT X TOP FED TOP	$\overline{\exists}$
DESCR	NOTION	SSENTIAL									LOCAT	I ION:		GRIT ELECTRICAL ROOM	
MFG /	/ MODEL: WESTING	GHOUSE PR	L1								INTER	Ruptin	G RATING	<sup>3:</sup> 10 KA	
MAIN	BREAKER: N/A										INST.	SETTIN	IGS:	N/A	
CCT.	DES	CRIPTION		NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	À II C	LOAD (VA)	BRI		WIRE (AWG)	NOTE	DESCRIPTION	CC
1	PCU SA FEED 2				10	30	900W	+	, ,					SPACE	2
3	SPARE					15		]+++						SPACE	4
5	SPARE					15		] <del>       </del>						SPACE	6
7	SPACE							] <del>       </del>						SPACE	8
9	SPACE							<del>   </del>						SPACE	10
11	SPACE							<del>       </del>						SPACE	1:
13	SPACE							<b>  <del>       </del></b>						SPACE	1.
	SPACE							<del>       </del>			_			SPACE	1
17	SPACE							<u> </u>						SPACE	18
TOTAL	CONNECTED LOAD:	KVA		F	PHASE	Ē A:	k۷	Ά	Α				NOTE LE		
		A (AV	/G)	F	PHASE	E B:	k۷		Α					AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPT	TOR
		A (MA	AX)	F	PHASE	E C:	k۷	Ά	Α				l	LOCK LOCKED BREAKER	
NOTES 1		OPIED FROM E	existing [	ORAWIN	GS.										

PANEL	. ID:		AMPS:	VOLTS:			Ti	PHASE:	WIRE:	:	SURF. MOUNT X TOP FED		
	PNL-G10		100	120/	208	3V		3ø		4	FLUSH MOUNT BOT. FED	X	
DESC	RIPTION: FED FROM UPS-G1							LO	CATION:		GRIT ELECTRICAL ROOM		
MFG ,	/ MODEL: CUTLER-HAMMER PRL1a							INT	ERRUPTIN	IG RATING	<sup>3:</sup> 10 KA		
MAIN	BREAKER: N/A							INS	ST. SETTIN	NGS:	N/A		
сст.	DESCRIPTION		WIRE BRKR AWG) AMPS	LOAD (VA)	Ä	ΗÇ	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	DESCRIPTION	сст.	
1	RM. G129 NETWORK EQUIPMENT		12 15	100	╁	Ĭ	1200	15	12		FIELD DEVICE PANEL 'G'	2	
3	PCU SA FEED 1		10 30	900	11	₩	150	15	12		NP-G1 NETWORKING PANEL	4	
5	RECEPTACLE RM. G116		12 15	100	14	₩	500	15_	10_		CDC-G3	ر ها	
7	NETWORK HUB		12 15	100	٦.	${f H}$	200	15	12		LCP-G1	8	
9	MCC-1G CONTROL COMPARTMENT		12 15	60	1+	₩	200	15	12		LCP-G2	10	03
11	MCC-4G CONTROL COMPARTMENT		12 15	60	7+	₩	$\overline{}$	715	~	$\sim$	SPARE	472	
13	SPARE		15		٦+	${\mathbb H}$		15			SPARE	14	
15	SPARE		15		7+	₩					SPACE	16	
17	SPARE		15		7+	╁					SPACE	18	
19	SPARE		15		٦+	${\mathbb H}$					SPACE	20	
21	SPACE				7+	┽					SPACE	22	
23	SPACE				7+	╁					SPACE	24	
25	SPACE				<b>│</b> ┿	H					SPACE	26	
27	SPACE				7+	┽					SPACE	28	
29	SPACE				7+	╁					SPACE	30	
31	SPACE				7+	H					SPACE	32	
33	SPACE				7+	₩					SPACE	34	
35	SPACE				7+	╁					SPACE	36	
37	SPACE				٦+	${\mathbb H}$					SPACE	38	
39	SPACE				7+	┽					SPACE	40	
41	SPACE				7+	╁					SPACE	42	
TOTAL	CONNECTED LOAD: 3.1 KVA	DL	HASE A:	1 / 1/			117 /		•	NOTE LE	GEND:		
											AFCI ARC FAULT CIRCUIT INTERRUPTO		
	8.5 A (AVG)		HASE B:	1.1 k			8.8 A				GFCI GROUND FAULT CIRCUIT INTERRU	IPTOR	
	11.7 A (MAX)	PH	HASE C:	0.6 k	VA		5.0 A				LOCK LOCKED BREAKER		
NOTES 1													

NOTES:

1. SUPERCEDES SEP-828 AND PART OF SEP-580.

Certificate of Authorization SNC-Lavalin Inc. No. 4489

		I			• <b>))</b>	SNC-LAVALIN INC.  148 Nature Park Way Winnipeg, MB, Canada R3P 0X7	ENGINEER'S
					SNC+LAVALIN	204-786-8080	
					DESIGNED BY: T. CHURCH	CHECKED BY: C. REIMER	1
					DRAWN BY: A. L. SARLO	APPROVED BY: C. REIMER	
03	ISSUED FOR TENDER, BID OPP. 545-2012	2012/09/10	TMC	CJR	SCALE: NTC	RELEASED FOR CONSTRUCTION	1
02	ADDED WET WELL RECEPTACLE	2012/03/22	TMC	CJR	NTS	BY: N. HARRINGTON	
01	ADDED CCTV CIRCUIT	2012/02/08	TMC	CJR	DATE: 2009/08/31	DATE: 2011/03/11	
00	ISSUED FOR TENDER, BID OPP. 209-2011	2011/03/11	TMC	CJR	CONSULTANT NO.:	0.4.0.0.4.7.0.0.4	1
NO.	REVISIONS	DATE	DESIGN	CHECK	1125//	-0106-47DD-0204	

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE ESSENTIAL SYSTEM UPGRADES PANEL SCHEDULES GRIT BUILDING ELECTRICAL ROOM

SHEET REV. SIZE 001 03 A1 1-0102G-E0011-001-03.dwg city drawing number 1-0102G-E0011