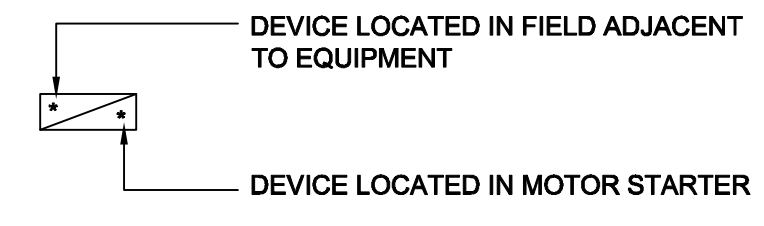


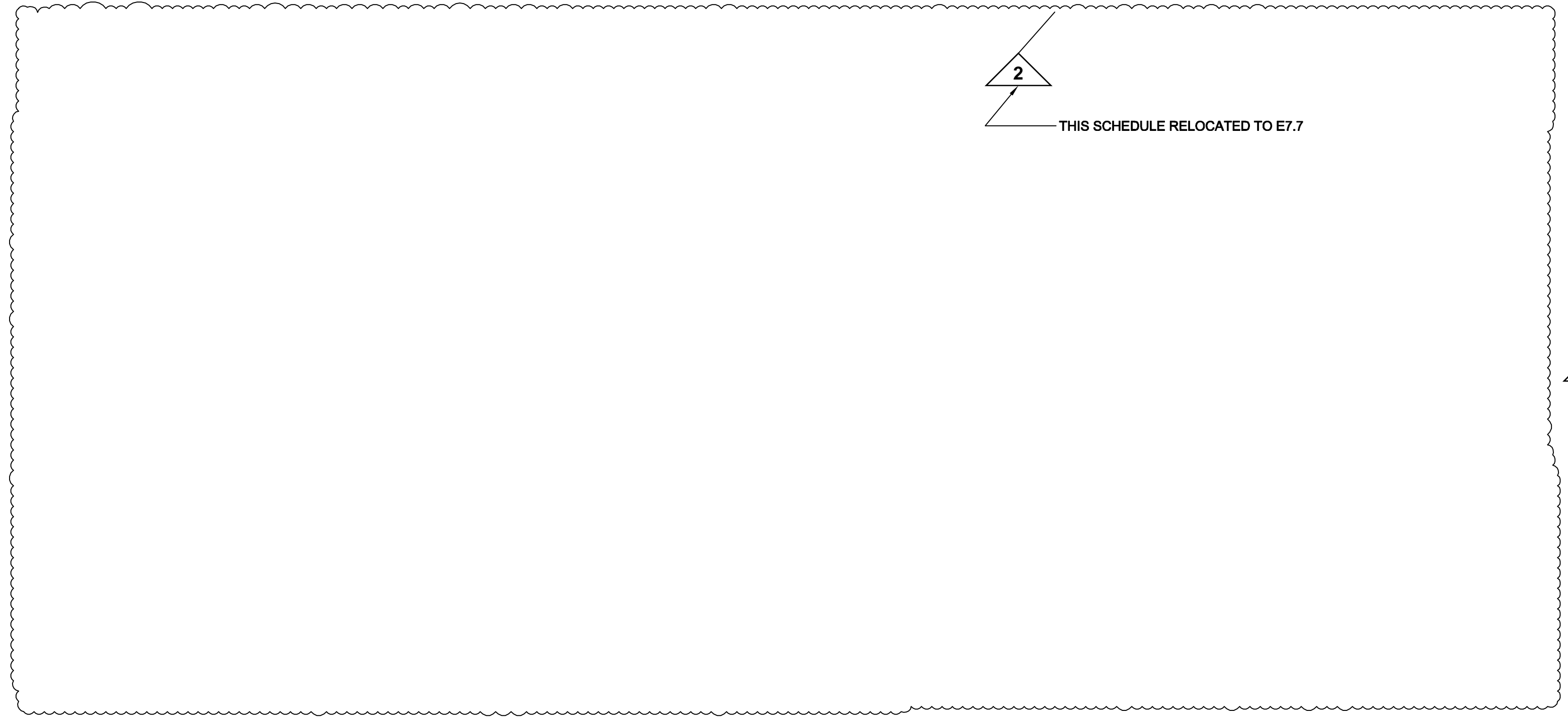
UMA FILE NAME: F993-001-01_E-8003_RX.dwg
 DATE: 2007.02.21
 DESCRIPTION: Motor Schedule and MCC layout
 PROJECT No.: F993-001-01
 ADDRESS: 999 Sargent St. Winnipeg, Manitoba
 PLOT: 07/08/09 2:21:02 PM

MECHANICAL AND EQUIPMENT SCHEDULE																			
MOTOR				STARTER							POWER			POWER			DETAIL DWG. WIRE DIAGRAM	REMARKS	
EQUIP. NO.	DESCRIPTION	EQUIP. LOAD	VOLT/Ø	SIZE	TYPE	MAN.	MAG.	S/S	PL	HOA	OVERCURRENT DEVICE	LOCATION	PANEL	CCT	FEEDER	CAPACITOR SIZE			DISCONNECT TYPE
F-1	EXHAUST FAN	50 W	120/1				*	*			15A, 1P	ROOF	CJ		2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS	
F-2	EXHAUST FAN	1/8 HP	120/1				*	*			15A, 1P	PENTHSE.	CJ	04	2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS	
F-3	EXHAUST FAN	325 W	120/1				*	*			15A, 1P	MAIN FLR.	CB	12	2 #12 AWG, 21C		1P-15A CSA 1	THERMOSTAT CONTROLLED	
F-4	EXHAUST FAN	1 HP	120/1				*	*			15A, 1P	2ND FLR.	CG	32	2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS	
F-5	EXHAUST FAN	350 W	120/1				*	*			15A, 1P	CRAWL SP.	CH	07	2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS	
F-6	EXHAUST FAN	830 W	600/3		FVNR		*	*			7 HMCP	PENTHSE.	MCC400P		3 #12 AWG, 21C		3P-30A CSA 1	CONTROLLED BY METASYS	
F-7	EXHAUST FAN	100 W	120/1				*	*			15A, 1P	PENTHSE.	CJ	21	2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS	
AH-4	AIR HANDLING UNIT	18.7 kW	600/3				*	*			30A, 3P	ROOF	MCC400P		3 #10 AWG, 21C		3P-30A CSA 3R	PACKAGE UNIT	
AH-6	AIR HANDLING UNIT	5 HP	600/3	1	FVNR		*	*			7 HMCP	N. MECH.	MCC200N		3 #12 AWG, 21C		3P-30A CSA 1	CONTROLLED BY METASYS	
AH-7	AIR HANDLING UNIT	5 HP	600/3	1	FVNR		*	*			7 HMCP	N. MECH.	MCC200N		3 #12 AWG, 21C		3P-30A CSA 1	CONTROLLED BY METASYS	
AH-8	AIR HANDLING UNIT	3 HP	600/3	1	FVNR		*	*			7 HMCP	N. MECH.	MCC200N		3 #12 AWG, 21C		3P-30A CSA 1	CONTROLLED BY METASYS	
AH-9	AIR HANDLING UNIT	16 kW	600/3				*	*			30A, 3P	ROOF	MCC400P		3 #10 AWG, 21C		3P-30A CSA 3R	PACKAGE UNIT	
AH-10	AIR HANDLING UNIT	23 kW	600/3				*	*			30A, 3P	ROOF	MCC400L		3 #10 AWG, 21C		3P-30A CSA 3R	PACKAGE UNIT	
AH-11	AIR HANDLING UNIT	28 kW	600/3				*	*			35A, 3P	ROOF	MCC400P		3 #8 AWG, 21C		3P-60A CSA 3R	PACKAGE UNIT	
AH-12	AIR HANDLING UNIT	110 kW	600/3				*	*			125A, 3P	ROOF	MCC400P		3 #1 AWG, 35C		3P-200A CSA 3R	PACKAGE UNIT	
CU-6	CONDENSING UNIT	9.4 kW	600/3				*	*			15A, 3P	ROOF	MCC400P		3 #12 AWG, 21C		3P-30A CSA 3R	PACKAGE UNIT	
CU-7	CONDENSING UNIT	9.4 kW	600/3				*	*			15A, 3P	ROOF	MCC400P		3 #12 AWG, 21C		3P-30A CSA 3R	PACKAGE UNIT	
CU-8	CONDENSING UNIT	7 kW	600/3				*	*			15A, 3P	ROOF	MCC400P		3 #12 AWG, 21C		3P-30A CSA 3R	PACKAGE UNIT	
EP-1	ELEVATOR	20 HP	600/3				*	*			50A, 3P	2ND FLR.	MCC400P		3 #10 AWG, 21C		3P-30A CSA 1	PACKAGE UNIT, DIRECT CONNECTION	
EL-1	ELEVATOR LIGHTS	300W	120/1				*	*			15A, 1P	PENTHSE.	CJ	16	2 #12 AWG, 21C		1P-15A CSA 1		
UH-1	ELECTRIC UNIT HEATER	5 kW	600/3				*	*			15A, 3P	CRAWL SP.	MCC400P		3 #12 AWG, 21C		3P-15A CSA 1	REMOTE THERMOSTAT CONTROLLED	
UH-2	ELECTRIC UNIT HEATER	5 kW	600/3				*	*			15A, 3P	CRAWL SP.	MCC400P		3 #12 AWG, 21C		3P-15A CSA 1	REMOTE THERMOSTAT CONTROLLED	
UH-3	ELECTRIC UNIT HEATER	5 kW	600/3				*	*			15A, 3P	CRAWL SP.	MCC400P		3 #12 AWG, 21C		3P-15A CSA 1	REMOTE THERMOSTAT CONTROLLED	
UH-4	ELECTRIC UNIT HEATER	5 kW	600/3				*	*			15A, 3P	SERV. SP.	EXIST.		3 #12 AWG, 21C		3P-15A CSA 1	REMOTE THERMOSTAT CONTROLLED	
UH-5	ELECTRIC UNIT HEATER	5 kW	600/3				*	*			15A, 3P	SERV. SP.	EXIST.		3 #12 AWG, 21C		3P-15A CSA 1	REMOTE THERMOSTAT CONTROLLED	
B-1	BOILER	FRAC.	120/1				*	*			15A, 1P	PENTHSE.	CJ	13	2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS	
B-2	BOILER	FRAC.	120/1				*	*			15A, 1P	PENTHSE.	CJ	15	2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS	
B-3	BOILER	FRAC.	120/1				*	*			15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS	
B-4	BOILER	FRAC.	120/1				*	*			15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS	
B-5	BOILER	FRAC.	120/1				*	*			15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS	
B-6	BOILER	FRAC.	120/1				*	*			15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1	CONTROLLED BY METASYS	
P-1	CIRCULATION PUMP	3 HP	600/3	1	FVNR		*	*			7 HMCP	PENTHSE.	MCC400P		3 #12 AWG, 21C		3P-30A CSA 1		
P-2	CIRCULATION PUMP	3 HP	600/3	1	FVNR		*	*			7 HMCP	PENTHSE.	MCC400P		3 #12 AWG, 21C		3P-30A CSA 1		
P-3	AHU CIRCULATION PUMP	3 HP	600/3	1	FVNR		*	*			7 HMCP	N. MECH.	MCC200N		3 #12 AWG, 21C		3P-30A CSA 1		
P-4	AHU CIRCULATION PUMP	3 HP	600/3	1	FVNR		*	*			7 HMCP	N. MECH.	MCC200N		3 #12 AWG, 21C		3P-30A CSA 1		
PB-1	BOILER CIRCULATION PUMP	150 W	120/1				*	*			15A, 1P	PENTHSE.	CJ	17	2 #12 AWG, 21C		1P-15A CSA 1		
PB-2	BOILER CIRCULATION PUMP	150 W	120/1				*	*			15A, 1P	PENTHSE.	CJ	19	2 #12 AWG, 21C		1P-15A CSA 1		
PB-3	BOILER CIRCULATION PUMP	150 W	120/1				*	*			15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1		
PB-4	BOILER CIRCULATION PUMP	150 W	120/1				*	*			15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1		
PB-5	BOILER CIRCULATION PUMP	150 W	120/1				*	*			15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1		
PB-6	BOILER CIRCULATION PUMP	150 W	120/1				*	*			15A, 1P	N. MECH.	LP-6A		2 #12 AWG, 21C		1P-15A CSA 1		
BB-LLG	BATTERY BANK - LOBBY, LIBRARY, GYM		600/1				*	*			15A, 2P	PENTHSE.	MCC400P		2 #12 AWG, 21C				
BB-PS	BATTERY BANK - POOL SOUTH		600/1				*	*			15A, 2P	BASEMENT	CDP-100		2 #12 AWG, 21C				
BB-PN	BATTERY BANK - POOL NORTH		600/1				*	*			15A, 2P	BASEMENT	MCC300N		2 #12 AWG, 21C				
AH1	AIR HANDLING UNIT (EXISTING)	10 HP	600/3				*	*			-							EXISTING UNIT	
AH2	AIR HANDLING UNIT (EXISTING)	10 HP	600/3				*	*			-	S. MECH.	MCC300N					EXIST. REFED. CNTRL. BY METASYS	
AH3	AIR HANDLING UNIT (EXISTING)	3 HP	600/3				*	*			-	S. MECH.	MCC300N					EXIST. REFED. CNTRL. BY METASYS	
AH5	AIR HANDLING UNIT	1/3 HP	120/1				*	*			-	S. MECH.	CP300					EXIST. PROVIDE SEP. STARTER	
MCP-1	METASYS EXTENDED MAIN CONTROLLER	500W	120/1				*	*			15A, 1P	BSMNT.	LP-1					REFER TO NOTE 7	
MCP-2	METASYS CONTROL MODULE	200W	120/1				*	*			15A, 1P	N. MECH.	LP-6A					REFER TO NOTE 7	
MCP-3	METASYS CONTROL MODULE	200W	120/1				*	*			15A, 1P	S. MECH	LP-3					REFER TO NOTE 7	
MCP-4	METASYS CONTROL MODULE	200W	120/1				*	*			15A, 1P	PENTHSE.	CJ	18					
DM-1	DAMPER MOTOR POWER		120/1				*	*			15A, 1P	2ND FLR.	CJ	20				CONN. 24V XFMR SUPP BY MECH.	
DM-2	DAMPER MOTOR POWER		120/1				*	*			15A, 1P	2ND FLR.	CJ	22				CONN. 24V XFMR SUPP BY MECH.	
WH1	WATER HEATER, STAFF (LIBRARY)	1500 W	120/1				*	*			15A, 1P		CD	36	2 #12 AWG		1P-15A CSA 1		
WH2	WATER HEATER, LOBBY (NORTH)	1500 W	120/1				*	*			15A, 1P		CB	18	2 #12 AWG		1P-15A CSA 1		
WH3	WATER HEATER, LOBBY (NORTH)	1500 W	120/1				*	*			15A, 1P		CG	36	2 #12 AWG		1P-15A CSA 1		

- NOTES**
- ALL OVERCURRENT AND DEVICE SIZES SHOWN ON MECHANICAL AND EQUIPMENT SCHEDULE ARE PRELIMINARY. COORDINATE WITH EQUIPMENT SUPPLIER.
 - UNIT HEATERS ACCEPTABLE MANUFACTURERS: OUELLET, CHROMALOX, CALORITECH. STANDARD OF ACCEPTANCE: OUELLET MODEL #OAS05036
 - UNLESS INDICATED OTHERWISE, MECHANICAL EQUIPMENT IS CONTROLLED BY METASYS FACILITIES MANAGEMENT SYSTEM. EXISTING EQUIPMENT REFED IS CONTROLLED BY EXISTING METASYS SYSTEM. NEW EQUIPMENT IS CONTROLLED BY NEW METASYS EXTENDED SYSTEM.
 - PACKAGE UNIT COME COMPLETE WITH MOTOR STARTERS.
 - ALL DISCONNECT SWITCHES TO COME COMPLETE WITH PAD LOCKABLE HASP.
 - SEE DRAWING E8.4 FOR MCC ELEVATIONS.
 - SUPPLY 15A-1P CIRCUIT BREAKERS IN EXISTING 120/208V PANELBOARD FOR NEW METASYS CONTROL MODULES.



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APEGM
 Certificate of Authorization
 UMA Engineering Ltd. (MB)
 No. 256 Date: _____

DRN	CHK	DES	ENG	IDR
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UMA | AECOM REVIEW

2	ISSUED FOR ADDENDUM #4	QL	07/08/30
1	ISSUED FOR ADDENDUM #2	QL	07/08/21
0	ISSUED FOR TENDER	QL	07/07/23

NO.	REVISION/DESCRIPTION	BY	DATE
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SEALS

PROVINCE OF MANITOBA
 S. K. SMART
 Member
 20996
 REGISTERED PROFESSIONAL ENGINEER

DRAWN BY	SKX	CHECKED BY	APPROVED
DATE	2007.07.11	USER APPROVAL	

CITY OF WINNIPEG
 PLANNING, PROPERTY & DEVELOPMENT DEPARTMENT
 CIVIC ACCOMMODATIONS DIVISION
 300 - 65 GARRY ST. R3C 4K4

PROJECT
 Construction of Cindy Klassen
 Recreation Complex Facility
 Enhancement Project
 999 Sargent St. Winnipeg, Manitoba

SHEET TITLE
 Electrical
 Motor Schedule

SCALE	PROJECT NO.	SHEET NO.
N.T.S.	2005-059	E8.3

DRAWING SHEET SIZE: A1 (841mm x 594mm) PLOT 1:1