GE	NERAL LEGEND
■■■ EBBH	ELECTRIC BASEBOARD HEATER
T EEH	ELECTRIC ENTRANCE HEATER
□ EUH	ELECTRIC UNIT HEATER
U/C	UNDERCUT DOOR
TYPE SIZE CFM	GRILLE/DIFFUSER LABEL
RAD-?? LENGTH MBH(KW)	RADIATION LABEL
EQ-??	EQUIPMENT LABEL
EQ ??	EQUIPMENT LABEL
EQ ??	EQUIPMENT LABEL
MBH SIZE	HEATING LABEL
##	CALLOUT NOTE
??	NOTE

VEN.	TILATION LEGEND
	SQUARE OR RECTANGULAR DUCT DRAWN DOUBLE LINE
	ROUND OR OVAL DUCT
	DRAWN DOUBLE LINE DUCTWORK DRAWN SINGLE LINE
	ACOUSTICALLY LINED DUCT
	THERMALLY INSULATED DUCT
	SQUARE TO ROUND TRANSITION TRANSITION
	FLEX CONNECTION
A	LONG RADIUS ELBOW
	LONG RADIUS ELBOW C/W TURNING VANES
	SQUARE ELBOW C/W TURNING VANES
	SUPPLY DUCT UP
[×]	SUPPLY DUCT DOWN
	RETURN OR TRANSFER DUCT UP
	RETURN OR TRANSFER DUCT DOWN
	EXHAUST DUCT UP
	EXHAUST DUCT DOWN
	OUTSIDE AIR DUCT UP
\	OUTSIDE AIR DUCT DOWN
	CEILING SUPPLY AIR DIFFUSER (TYPE NOTED)
—— ⊘ R−?	CEILING RETURN OR TRANSFER GRILLE (TYPE NOTED)
—— E−?	CEILING EXHAUST GRILLE (TYPE NOTED)
	SIDEWALL SUPPLY AIR GRILLE
<u>S?</u>	(TYPE NOTED) SIDEWALL EXHAUST, RETURN OR
R-?	TRANSFER GRILLE (TYPE NOTED)
EWC	EXHAUST WALL CAP
FSF	GRILLE OR DIFFUSER C/W FIRE STOP FLAP
(F)	FIRE DAMPER
FS	FIRE/SMOKE DAMPER
	BALANCING DAMPER
	OPPOSED BLADE DAMPER
	PARALLEL BLADE DAMPER
BDD BDD	BACK DRAFT DAMPER
	FLEXIBLE DUCT CONNECTION
	END CAP
AD	ACCESS DOOR
F-? - (-)	FAN-SYMBOL (TYPE NOTED)
J)	DOWNDRAFT CEILING FAN

PLUI	MBING PIPING LEGEND
	ABOVE GROUND PIPING
	BELOW GROUND PIPING
DCW	DOMESTIC COLD WATER
——DHW——	DOMESTIC HOT WATER
—DHWR——	RECIRCULATED DOMESTIC HOT WATER
TWS	TEMPERED WATER SUPPLY
TWR	TEMPERED WATER RETURN
NG	NATURAL GAS
—— SAN ——	SANITARY DRAIN
STW	STORM WATER DRAIN
	RAIN WATER LEADER
PD	PUMPED DISCHARGE
ID	INDIRECT DRAIN
PV	PLUMBING VENT

GENERAL I	PIPE AND FITTING LEGEND
_ UP/DN	PIPE SLOPE - UP (OR DOWN)
	DIRECTION OF FLOW
	PIPE BREAK FOR CONTINUATION
V ∨TR	VENT THROUGH ROOF
	PIPE DOWN
——————————————————————————————————————	PIPE UP
	CAP
— — CO	CLEAN OUT
	HOSE BIBB
	WALL HYDRANT
	UNION
	VALVE - NORMALLY OPEN
NC NC	VALVE - NORMALLY CLOSED
₹ .	PLUG VALVE
	GLOBE VALVE
[S]	SUPERVISED VALVE
	MOTORIZED 2-WAY VALVE
	MOTORIZED 3-WAY VALVE
	PRESSURE REGULATING VALVE
₽	TEMPERATURE/PRESSURE RELIEF VALVE
	CHECK VALVE
	STRAINER
	FLEXIBLE CONNECTOR

	CONTROLS LEGEND
Ð	WALL MOUNTED THERMOSTAT
TS	WALL MOUNTED TEMPERATURE SENSOR
Θ	WALL MOUNTED HUMIDISTAT
HS	WALL MOUNTED HUMIDITY SENSOR
٥,,,,,	REMOTE BULB SENSOR AND TUBE
TI TI	DUCT MOUNTED THERMOSTAT
TS	DUCT MOUNTED TEMPERATURE SENSOR
H	DUCT MOUNTED HUMIDISTAT
HS	DUCT MOUNTED HUMIDITY SENSOR
CO2	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
NO2	NITROGEN DIOXIDE SENSOR
AO	ANALOG OUTPUT
Al	ANALOG INPUT
DO	DIGITAL OUTPUT
DI	DIGITAL INPUT
20 mars 20 mar	TRANSFORMER
R	RELAY
PE	PNEUMATIC/ELECTRIC SWITCH
[IG]	TIMECLOCK
MT	SPRING WOUND MANUAL TIMER
MS	MANUAL SWITCH
M	DAMPER OR VALVE MOTOR
ESC	ELECTRONIC SPEED CONTROLLER
VSD	VARIABLE SPEED DRIVE
[VFD]	VARIABLE FREQUENCY DRIVE

ACCES	SORIES LEGEND
	PLUMBING FIXTURE (TYPE NOTED)
	SHOWER HEAD (TYPE NOTED)
O-⊟ ???	SERVICE OUTLET (TYPE NOTED)
□ FD-?	FLOOR DRAIN (TYPE NOTED)
<u> </u>	ROOF DRAIN (TYPE NOTED)
⊕ <u>CB</u> =?	CATCH BASIN
⊕ <u>MH−?</u>	MANHOLE
	P-TRAP
 #-	RUNNING TRAP
	PUMP
WHA	WATER HAMMER ARRESTOR
PS	PRESSURE SWITCH
<u>ES</u>	FLOW SWITCH
MAV	MANUAL AIR VENT
	AUTOMATIC AIR VENT
BD	BALL DRIP
	FLOW INDICATOR
F/M F/M	FLOW METER
—(G/M)—	GAS METER
	WATER METER
	STEAM TRAP
EU	EXPANSION JOINT
	ALIGNMENT GUIDE
	ANCHOR
<u> </u>	PRESSURE GAUGE C/W SNUBBER VALVE
<u> </u>	THERMOMETER

Alle Arterior	FRE	PROTECTION LEGEND
	8	FIRE EXTINGUISHER
Pitti Pitti Pitti Pitti		FIRE EXTINGUISHER IN CABINET

										Ventilation/	Fresh Air			Sı	upply		Exh	aus
								People Outdoor Air Rate, R _p	Area Outdoor Air Rate, Ra	Breathing Zone Outdoor Airflow Vbz	Breathing Zone Outdoor Airflow Vbz*	Zone C Airf V			Venti Effectiv			initianing grapes and
		Geiling Height	Area	Volume	Zone Population	Time Averaged	Occupancy Density	ASHRAE	ASHRAE		a processorii	Heating	Cooling					***************************************
Zone	Space	ft	ft² Az	ft³	Pz	Zone Population Pz*	ft²/occ	cfm/person	cfm/ft²	cfm	cfm	cfm	cfm	HVAC: Unit	Heating	Cooling	cfm/ft²	Desi cfi
				0											entral control			
	Corridor M02, M12, M19 & Circulation Hub M20		779	0			vEW/0t	\[\frac{1}{2} \]	0.06	46.7	00	58.4	46.7	RT-2.E	0.8	1.0		
	Closet M03		20	0			#C#2/01		0.12	2.4	0.6	3,0	2.4	RT-2.E	0.8	1.0		
	Gallery M04		54	ō	2		27.0	5.0	0.06	13.2	0.0	16.6	13.2	RT-2.E	0.8	1.0		
	Mech/Elec M05		303	0			10000000		0.06	18:2	0.00	22.7	18.2	AHU-1.New	0.8	1.0		20
	Canteen M06		139	0	2		69.5	5.0	0.06	18.3	0.0	22.9	18.3	AHU-1.New	0.8	1.0		
	Pantry M07		33	0			#EM/30		0.12	4.0	0.0	5.0	4.0	AHU-1.New	0.8	1.0		
	Kitchen M08		270	0	2		135.0	5.0	0.12	42.4	0.0	53.0	42.4	AHU-1.New	0.8	1.0		4
	Bar M10		73	0	2		36.5	5.0	0.06	14.4	0.0	18.0	14.4	AHU-1.New	0.8	1.0		
	Mens WR M11		208	0			arway.	6 .		NA	0.0	T/A	T/A	RT-2.E	NA	N/A		2
	Washroom M13		60	0			(ACAMAI))			NA	The state of the s	T/A	T/A	RT-2.E	N/A	NA		7
	Womens WR M14		242	0			SERVICE .			N/A	900	T/A	T/A	RT-2.E	NA	N/A		2
	Bingo M15		34	0	:		#ENGO!		0.12	4.1	0.0	5.1	4.1	RT-2.E	0.8	1.0		
	Gym Storage M17		416	0			MIM/IN		0.12	49.9	or of the second second	62.4	49.9	RT-2.E	0.8	1.0		
	Office M21	1	157	O	1		157.0	5.0	0.06	14.4	0.0	18.0	14.4	RT-2.E	0.8	1.0		
	Storage M22	1	19	0			#MV/0!		0.12	2.3	A CHO	2.9	2.3	RT-2.E	0.8	1.0		
	Elec. M23		17	0			#CMV/DT		0.06	1.0	ÜÜ.	1.3	1.0	RT-2.E	0.8	1.0		
	Multi-Purpose M24		347	0	9		38.6	5.0	0.06	65.8	(2.1)	82.3	65.8	RT-2.E	0.8	1.0		
	MPR #1 M25		894	0	23		38.9	5.0	0.06	168.6	0.0	210.8	168.6	RT-2.E	0.8	1.0		
	Computer M26		130	0	2		65.0	5.0	0.06	17.8	0.0	22.3	17.8	RT-2.E	0.8	1.0		
	MPR #2 M27		322	0	8		40.3	5.0	0.06	59.3	0.0	74.2	59.3	RI-2.E	0.8	1.0		
	MPR #3 M28		334	0	9		37.1	5.0	0.06	65.0	0.0	81.3	65.0	RT-2.E	0.8	1.0		
	Storage M29		40	0			#UW/D)		0.12	4.8	13.0	6.0	4.8	RT-2.E	0.8	1.0		
	Universal Washroom M30		82	0		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	4203777	7		NA	-0.0	T/A	T/A	RT-2.E	NA	WA		
	Storage M31		67	0		W.	W/A/CO	1	0.12	8.0		10.1	8.0	<u>RT-2.E</u>	0.8	1.0		
	Storage Room M32		315	0			3471V101		0.12	37.8	Ů.	47.3	37.8	RT-2.E	0.8	1,0		
	Safe Room M33		26	0			ADV/O		0.12	3.1	17.0	3.9	3.1	RT-2.E	0.8	1,0		
	Hall M34		259	0			#(3.77)		0.06	15.5	0.0	19.4	15.5	RT-2.E	0.8	1.0		
	Mezzanine		629	0			N/NVTI		0.12	75.5	0.0	75.5	75.5	AHU-1.New	1.0	1.0		
	Mezzanine Corridor		79	0			#CN/##		0.06	4.7	0.0	4.7	4.7	AHU-1.New	1.0	1.0	and the second	
													1					10.79
	Totals		6348		60	A STATE OF THE PARTY OF		1		757.5	0.0	926.8	757.5		Part of the Control o	Andreas Control States	and the second second	

	MECHANICAL DRAWING LIST
M-0.0	MECHANICAL - LEGEND & DRAWING LIST
M-0.1	MECHANICAL - SITE PLAN
M-1.1	MECHANICAL - MAIN FLOOR - DEMO PLUMBING
M-1.2	MECHANICAL - MAIN FLOOR - NEW PLUMBING
M-2.1	MECHANICAL - MAIN FLOOR - DEMO HVAC
M-2.2	MECHANICAL - MAIN FLOOR - NEW HVAC
M-3.0	MECHANICAL — DETAILS
M-4.0	MECHANICAL - EQUIPMENT SCHEDULES
M-5.0	MECHANICAL - SPECIFICATIONS



Certificate of Authorization Tower Engineering Group No. 4156 Expiry: April 30, 2015

rev4 - 2014-09-29 - Issued for Construction rev3 - 2014-08-01 - Issued for 95% Review rev2 - 2014-06-27 - Issued for 75% Review rev1 - 2014-04-30 - Issued for 30% Review

The drawings, specifications, revisions, addendums, and clarifications, must be read as a whole. Errors and ommissions due to separation of the documents by the general contractor become the responsibility of the same.

This drawing must not be scaled.

The general Contractor must verify all dimensions, datums and levels prior to commencement of work. All errors and omissions must be reported immediately to the Architect.

Variations and modifications to work shown on this drawing shall not be carried out without written permission from the Architect.



TOWER PROJECT NO. :141033 TOWER ENGINEERING GROUP

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WESTON MEMORIAL COMMUNITY CENTRE - INTERIOR RENOVATION WINNIPEG, MANITOBA

sheet title

MECHANICAL LEGEND AND DRAWING LIST

M-0.0

drawing number:

September 30, 2014