

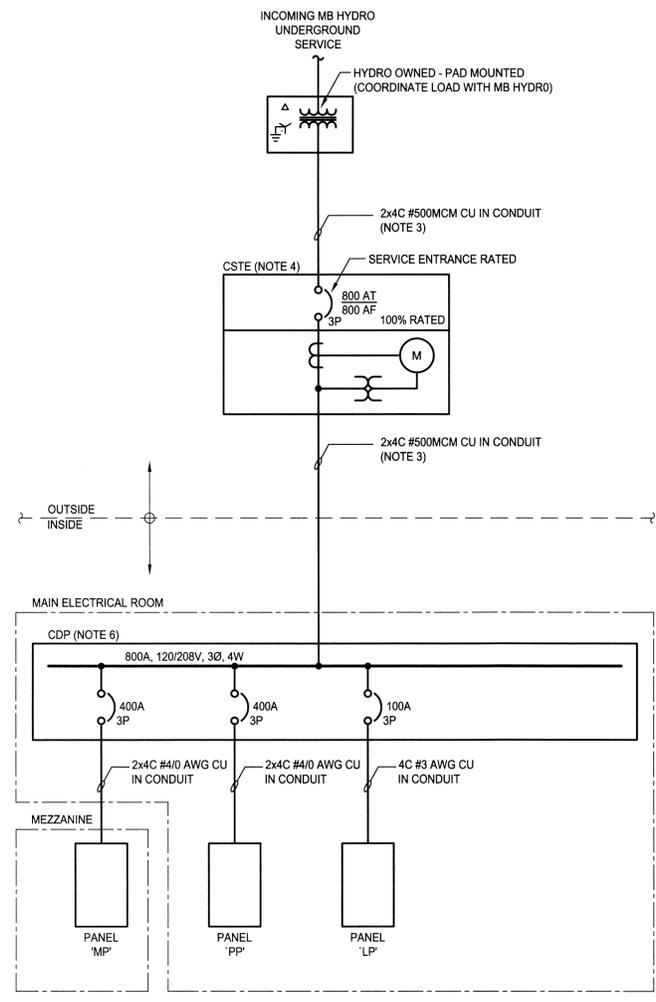
POWER DISTRIBUTION			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TRANSFORMER		DUPLEX RECEPTACLE
	UTILITY METER		DENOTES:
	PT		DW - DISHWASHER
	CT		GFI - GROUND FAULT INTERRUPTION
	CIRCUIT BREAKER		M - MICROWAVE
	GROUND		MW - MILLWORK
	GROUND ROD		VM - VENDING MACHINE
	RED LED		WP - WEATHERPROOF
	GREEN LED		IPLC - IPLC 5-15R CONTROLLED PARKING LOT RECEPTACLE
	RELAY		SPLIT-WIRE RECEPTACLE
	RELAY CONTACT		QUADPLEX RECEPTACLE
	TERMINAL BLOCK		ELECTRICAL PANELBOARD
			CONDUIT STUB
			JUNCTION BOX
			WEATHERPROOF
			HAND DRYER
			EQUIPMENT
			CONDUIT RUN UP
			CONDUIT RUN DOWN
			GROUND ROD
			UNIT HEATER
			3Ø LOAD
			SINGLE PHASE LOAD
			LOCAL DISCONNECT SWITCH
			WEATHERPROOF
			MOTOR STARTER

ELECTRICAL EQUIPMENT & CONTROL DEVICES			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WALL MOUNT P.A. / INTERCOM STATION		PANEL DESIGNATION
	CEILING MOUNT P.A. SPEAKER		CIRCUIT NUMBER
	CLOCK		CONTROLLING SWITCH(ES)
	SINGLE DATA OUTLET		FLUORESCENT LUMINAIRE (CROSS-HATCHING DENOTES UNSWITCHED NIGHT LIGHT)
	DATA/TELEPHONE OUTLET		FIXTURE TYPE
	DUPLEX DATA OUTLET		FLUORESCENT LUMINAIRE
	TELEPHONE OUTLET		HID, COMPACT FLUORESCENT OR INCANDESCENT LUMINAIRE (WALL MOUNTED)
	COAX CABLE OUTLET		HID, COMPACT FLUORESCENT OR INCANDESCENT LUMINAIRE (POLE MOUNTED)
	MANUAL PULL STATION		HID OR INCANDESCENT LUMINAIRE (CEILING MOUNTED)
	PHOTO ELECTRIC/HEAT COMBO DETECTOR		EXIT LIGHT
	HEAT DETECTOR - FIXED TEMPERATURE		REMOTE EMERGENCY LTG. HEADS
	REMOTE FIRE ALARM ANNUNCIATOR		EMERGENCY LIGHTING BATTERY UNIT w/ 2 LTG. HEADS & TWIST LOCK RECEPTACLE
	FIRE ALARM CONTROL PANEL		TOGGLE SWITCH
	FIRE ALARM HORN/STROBE		DENOTES:
	END OF LINE RESISTOR		a - LIGHTS CONTROLLED
	DOOR BUZZER/DOOR OPERATOR		3 - 3 WAY SWITCH
	SECURITY KEYPAD		LV - LOW VOLTAGE
	MOTION DETECTOR		O - OCCUPANCY (NOTE 8)
	DOOR CONTACT		T - TIMER (NOTE 9)
	CARBON MONOXIDE DETECTOR		SC - SPEED CONTROL (NOTE 10)
	CCVE - CAMERA		LV - LOW VOLTAGE SWITCHING STATION
	DENOTES REMOTE PANEL AND TILT		

FAULT CURRENT CALCULATION TABLE		
* 300kVA TRANSFORMER:	Z = 2%	
208V SYSTEM SHORT CIRCUIT AMPACITY	$\frac{1}{\sqrt{3} \left(\frac{2\%}{300kVA} \right) 208} = 41.6kA$	PROVIDE 42kA MINIMUM

- THIS IMPEDANCE VALUE IS BASED ON THE VALUE PROVIDED UNDER THE MANITOBA HYDRO ELECTRICAL CODE, 11TH EDITION.
- CONTRACTOR AND MANUFACTURER TO ENSURE ALL FUSES AND BREAKERS ARE AN APPROVED CSA SERIES TESTED COMBINATION.

ESTIMATED LOADS DETAIL	
MECHANICAL LOADS	133kW
ELECTRIC HEAT	8.7kW
KITCHEN LOADS	20kW
LIGHTING LOADS	25kW
PARKING LOT	8.5kW
2000 SQ. FT. FUTURE ADDITION	9.5kW
ESTIMATED TOTAL LOAD	= 205kW



1 ELECTRICAL SINGLE LINE DIAGRAM
N.T.S.

- NOTES:**
- GREY LINE WEIGHT DENOTES EXISTING.
 - REFER TO PANEL SCHEDULE(S) FOR ADDITIONAL LOADS.
 - CABLES ARE TO BE INSTALLED AS PER DIAGRAM B4-3., DETAIL 2 AND RATED AS PER TABLE D12B IN THE CANADIAN ELECTRICAL CODE (CEC).
 - PROVIDE A CUSTOM J.R. STEVENSON WEATHER PROOF (NEMA 3R) CUSTOMER SERVICE TERMINATION ENCLOSURE (CSTE) WITHIN 3m OF THE HYDRO TRANSFORMER C/W SERVICE ENTRANCE RATED CIRCUIT BREAKER AND MB HYDRO METER. MOUNT METER TO MB HYDRO STANDARDS.
 - CONTRACTOR TO COORDINATE WITH MANITOBA HYDRO FOR NEW UNDERGROUND SERVICE. ALL HYDRO COSTS TO BE COORDINATED BY THE CONTRACTOR AND TO BE PROVIDED BY THE CITY.
 - ALLOW FOR A MINIMUM OF THREE (3) 200A BREAKER SPACES ONLY.
 - N/A
 - PROVIDE A DUAL TECHNOLOGY LINE VOLTAGE OCCUPANCY SENSOR (WATT STOPPER DW-100 OR EQUIVALENT).
 - PROVIDE A WHITE 30 MINUTE LEVITON LINE VOLTAGE TIMER (LEVITON-LTB30-1L7).
 - PROVIDE A WHITE 5A (600W) 120V LEVITON SURE SLIDE FAN SPEED CONTROL SWITCH (LEVITON - 6637-PW).

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Project:
EAST ELMWOOD COMMUNITY CENTRE
481 KENNELYSIDE, WINNIPEG, MB
Project Number: 2013-041
Bid Opportunity Number: 748-2013

Drawing Title:
LEGEND/LOADS & SINGLE LINE

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