ELECTRICAL SYMBOL LEGEND				
	LIGHTING		LIGHTING CONTROL	
	LINEAR FLUORESCENT LUMINAIRE, TYPE 'A' AS SPECIFIED. HATCHING DENOTES CONNECTED TO EMERGENCY/NIGHT LIGHTING CIRCUIT		ONE, TWO, THREE AND FOUR GANG SINGLE POLE TOGGLE SWITCHES	
A O	CEILING MOUNTED LUMINAIRE, TYPE 'A' AS SPECIFIED	3 F	3-WAY SWITCH	
AФ	WALL MOUNTED LUMINAIRE, TYPE 'A' AS SPECIFIED	\$	FAN CONTROL SWITCH	
@0	DOUBLE SURFACE MOUNTED EMERGENCY LIGHTING REMOTE HEADS, TYPE 'BU-1' INDICATES BATTERY BANK FED FROM	D	DIMMER SWITCH	
. BU-1	EMERGENCY LIGHTING BATTERY UNIT C/W DUPLEX RECEPTACLE AND DOUBLE REMOTE HEADS. TYPE 'BU-1' AS SPECIFIED.	\$ E	OCCUPANCY SENSOR	
@ S	CEILING MOUNTED SINGLE FACED EXIT LIGHT, DIRECTIONAL ARROWS & DOUBLE REMOTE HEADS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN.	<u>[05]</u>	COMMUNICATIONS	
8	CEILING MOUNTED DOUBLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN.	▼	TELEPHONE OUTLET - WALL MOUNTED	
⊗	CEILING MOUNTED SINGLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN.	$\vee $	DATA OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER	
	EQUIPMENT CONNECTIONS AND CONTROLS	∇	2-PORT DATA OUTLET - WALL MOUNTED	
Ø	DIRECT CONNECTION - 120 OR 208V AS SPECIFIED	4	COMBINATION VOICE/DATA OUTLET - WALL MOUNTED	
Ò	MOTOR CONNECTION AS SPECIFIED	†	INTERCOM STATION	
Ò□'	MOTOR CONNECTION C/W UNFUSED DISCONNECT SWITCH	(SP)	FLUSH MOUNTED AUXILIARY SOUND SYSTEM SPEAKER — CEILING MOUNTED	
	MAGNETIC STARTER	PA	CONSOLE OR RACK C/W TERMINAL BOX	
ㅁ	UNFUSED DISCONNECT SWITCH		ELECTRIC HEATING	
S	SPEED CONTROLLER	BBH1	ELECTRIC BASEBOARD HEATER, TYPE 'BBH1' AS SPECIFIED	
	THERMOSTAT	∯FFH1	SURFACE MOUNTED - ELECTRIC FORCE FLOW HEATER, TYPE 'FFH1' AS SPECIFIED	
0	TIMER		MISCELLANEOUS	
0 J	JUNCTION BOX		BELL 120V	
•	POWER ACTIVATED DOOR EXIT BUTTON SUPPLIED BY DOOR HARDWARE SUPPLIER, WIRED BY ELECTRICAL		HORN	
SP	SURFACE MOUNTED ELECTRICAL PANEL - 'SP' DENOTES PANEL DESIGNATION	\ \frac{1}{4}	SMOKE ALARM 120V	
	GENERAL POWER	Ф ^E	INDICATES EXISTING DEVICE TO REMAIN	
Ф	15A, U-GROUND DUPLEX RECEPTACLE	47 _{WA}	INDICATES EXISTING DEVICE TO BE MOVED	
 	15A, U-GROUND SINGLE OR DUPLEX RECEPTACLE	∰ ^R	INDICATES EXISTING DEVICE IN RELOCATED POSITION	
4	15A, U-GROUND DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - STANDARD MOUNTING HEIGHT	- · - · - · - · - · - · · · · · · · · ·	INDICATES EXISTING DEVICE TO BE DEMOLISHED - INDICATES CONDUIT	
 	15A, U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - MOUNTED ABOVE COUNTER	(TYP.)	ELECTRICAL DRAWING NOTES	
40A	RANGE RECEPTACLE			
•	PEDESTAL			
	ELECTRICAL DRAWING LIST		ABBREVIATIONS	
E1.0 EDL2.0	ELECTRICAL SYMBOL LEGEND, SCHEDULE & DRAWING LIST MAIN FLOOR PLAN - LIGHTING DEMOLITION LAYOUT	BB BBH BIT CLG DD EF EPP	 BATTERY BANK BASEBOARD HEATER BUILT—IN THERMOSTAT CEILING MOUNTED ?? EXHAUST FAN EXPRESS PRESSURE PUMP 	
EDL2.1 EDP2.0	SECOND FLOOR PLAN — LIGHTING DEMOLITION LAYOUT MAIN FLOOR PLAN — POWER & SYSTEMS DEMOLITION LAYOUT	FFH HWT TYP	FORCE FLOW HEATERHOT WATER TANKTYPICAL	
	The state of the s	1	- ITPICAL	

EDP2.1 SECOND FLOOR PLAN - POWER & SYSTEMS DEMOLITION LAYOUT

UNIT HEATER

LUMINAIRE SCHEDULE			
TYPE	REMARKS		
1	1' x 4' TBAR - K12 LENS C/W 2 x F40T12		
2	4' 2 x F32T8 STRIP & EGG CRATE		
3	6" POT INC		
4	2' x 4' DRYWALL - 4 x F40T12 C/W EGG CRATE		
5	HID WALL SCONCE		
6	4 x 20" WRAP C/W 2 x F40T12		
7	4' 2 x F40T12 STRIP		
8	1' x 4' WRAP C/W 2 x F40T12		
9	4' CORNER MOUNT SAFE/VANDAL PROOF		
10	1' x 4' WRAP C/W 2 x F32T8		
11	2' x 4' TBAR C/W 4 x F40T12		
12	2' C/W F25T12		
13	KEYLESS INC		
14	1' x 4' VAPOUR PROOF		
15	1' x 4' TBAR C/W 2 x F40T12 & EGG CRATE		
16	2' x 4' TBAR C/W 4 x F40T12 & EGG CRATE		
17	2' x 4' TBAR C/W 4 x F40T12 K12 LENS		
18	HID FLOOD		
19	HID WALL PACK		
20	2' x 4' SURFACE BOX		
21	M.H. HIGHBAY		
22	8' INDUSTRIAL STRIP C/W 2 x F96T12		
23	8' STRIP C/W 2 x F96T12		
24	4' INDUSTRIAL STRIP C/W 2 x F32T8		
25	4' CUBE		
26	8' CABLE SUSPENDED C/W 4 x F40T12		
27	8" POT		

1. THE SPECIFICATION COVERING THE GENERAL CONDITIONS OF THE CONTRACT, SUPPLEMENTARY CONDITIONS, GENERAL AND SAFETY REQUIREMENTS, INSTRUCTIONS TO BIDDERS, AND ALL SECTIONS FORM AN INTEGRAL PART OF THIS SPECIFICATION AND SHALL BE READ IN

- 1. PROVIDE ALL MATERIALS, LABOUR, PLANT AND EQUIPMENT REQUIRED FOR A COMPLETE AND WORKING INSTALLATION AS HEREIN SPECIFIED AND AS SHOWN ON THE DRAWINGS.
- 2. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE PROVINCIAL AND MUNICIPAL CODES AND REGULATIONS. 3. ALL EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE NEW AND C.S.A. APPROVED. 4. IN THE EVENT OF CONFLICT BETWEEN CONTRACT DOCUMENTS AND CODES, THE MORE STRINGENT REQUIREMENT SHALL BE ADHERED TO AT
- NO ADDITIONAL COST. 5. ENGINEERING SITE REVIEWS: CONTRACTOR'S WORK SHALL BE PERIODICALLY REVIEWED BY THE CONTRACT ADMINISTRATOR FOR DETERMINING GENERAL QUALITY OF INSTALLATION. GUIDANCE WILL BE OFFERED AS TO INTERPRETATION OF CONTRACT DOCUMENTS AND TO ASSIST IN PERFORMING THE INSTALLATION. INSPECTIONS, REVIEWS AND DIRECTIVES ISSUED IN NO WAY RELIEVE THE CONTRACTOR, HIS AGENTS,
- EMPLOYEES OR SUBTRADES FROM CONTRACTUAL OBLIGATIONS, CONFORMANCE TO CODES OR SAFE AND RECOGNIZED PRACTICES. . APPLY FOR AND PAY FOR ALL REQUIRED PERMITS, LICENSES, INSPECTIONS AND FEES. 7. INDICATE ALL PERMIT NUMBERS ON ALL PROGRESS DRAWS.

- THE FOLLOWING ARE DEFINITIONS OF TERMS AND EXPRESSIONS USED IN THE ELECTRICAL AND MECHANICAL SPECIFICATION: 1. INSPECTION AUTHORITY MEANS AGENT OF ANY AUTHORITY HAVING JURISDICTION OVER CONSTRUCTION STANDARDS ASSOCIATED WITH ANY
- 2. SUPPLY AUTHORITY MEANS ELECTRICAL POWER UTILITY COMPANY RESPONSIBLE FOR DELIVERY OF ELECTRICAL POWER TO PROJECT.
- 3. PROVIDE MEANS TO SUPPLY, INSTALL AND LEAVE IN WORKING ORDER ALL MATERIALS AND NECESSARY DEVICES TO ENSURE A FULLY FUNCTIONAL SYSTEM, TESTED AND COMPLETE IN EVERY WAY, UNLESS OTHERWISE NOTED. 4. THE TERM "DRAWINGS" AND "SPECIFICATIONS" ARE COMPLEMENTARY TO EACH OTHER. WHAT IS CALLED FOR BY ONE SHALL BE
- 5. THE TERM "CONTRACT DOCUMENTS" REFERS TO BOTH DRAWINGS AND SPECIFICATIONS. 6. STANDARDS, REGULATIONS AND BYLAWS, HEREAFTER REFERRED TO AS CODES.

1.3 REQUEST FOR INFORMATION

- 1. ALLOW TEN (10) FULL WORKING DAYS FOR CONTRACT ADMINISTRATOR TO RESPOND TO ALL REQUESTS FOR INFORMATION.
- 2. TRADE CONTRACTOR SHALL REVIEW AND APPROVE ALL REQUESTS FOR INFORMATION (RFI'S) FROM SUB-CONTRACTORS PRIOR TO
- 3. CONTRACTOR SHALL REVIEW AND APPROVE ALL RFI'S PRIOR TO SUBMITTAL TO ENSURE INFORMATION IS NOT ALREADY INCLUDED IN CONTRACT DOCUMENTS OR CANNOT BE REASONABLY INFERRED FROM CONTRACT DOCUMENTS.

1.4 ACCURACY OF DATA

- 1. DRAWINGS ARE SCHEMATIC; EXACT LOCATIONS, DISTANCES, LEVELS AND OTHER DIMENSIONS SHALL BE GOVERNED BY THE ARCHITECTURAL
- 2. DEVICES OR EQUIPMENT SHALL BE MOVED TO ANY POINT WITHIN A 3M (10'-0") RADIUS FOR COORDINATION PURPOSES OR WHEN THE
- CONTRACT ADMINISTRATOR REQUESTS RELOCATION BEFORE THE WORK HAS BEEN SUBSTANTIALLY COMPLETED, WITHOUT ADDITIONAL COST. 3. DRAWINGS AND SPECIFICATIONS ESTABLISH SCOPE OF WORK ONLY AND ARE NOT DETAILED INSTALLATION INSTRUCTIONS. FOLLOW
- MANUFACTURER'S RECOMMENDATIONS AND ADHERE TO ALL CURRENT AND APPLICABLE CODES. 4. THE CONTRACT ADMINISTRATOR SHALL HAVE THE FINAL SAY IN MATTERS OF INTERPRETATION.

- 1. EXAMINE ENTIRE CONTRACT DOCUMENT PACKAGE TO ENSURE THAT THE WORK UNDER THIS CONTRACT CAN BE SATISFACTORILY CARRIED
- OUT. REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR PRIOR TO SUBMISSION OF TENDER. 2. EXAMINE THE SITE, LOCAL CONDITIONS AND ALL EXISTING APPARATUS IF ANY TO BE RE-USED AND VERIFY THAT THE CONDITION OF THIS EQUIPMENT IS SUITABLE FOR ITS INTENDED USE IN THE NEW CONSTRUCTION.

- 1. ONLY SKILLED AND QUALIFIED LICENSED TRADESPERSON SHALL PERFORM THE WORK. TRADESPERSON SHALL PROVIDE PROOF OF
- REGISTERED STATUS WHEN REQUESTED. 2. CONTRACTOR IS RESPONSIBLE TO CAREFULLY EXAMINE CONDITIONS AT THE INTENDED PLACE OF WORK. VERIFY ALL SERVICES, CONNECTION POINTS, AND ALL ACCESS OPENINGS TO PERMIT INSTALLATION OF NEW EQUIPMENT.

1. CONTRACTOR SHALL CO-ORDINATE ALL ASPECTS OF THE INSTALLATION WITH ALL OTHER TRADES. THERE SHALL BE NO CHANGE NOTICES ISSUED NOR CHANGES TO THE BUILDING DESIGN (I.E. LOWERING CEILING HEIGHTS) DUE TO ROUTING CONFLICTS AMONGST TRADES OR LACK OF COORDINATION. WHEN REQUIRED, DISCUSS THE PROPOSED ROUTING WITH THE CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION. FINAL RESPONSIBILITY REMAINS WITH THE CONTRACTOR.

- SUPERVISE THE WORK AT ALL TIMES THROUGH A RESPONSIBLE AND COMPETENT QUALIFIED TRADESPERSON.
- 2. FULL CO-OPERATION SHALL BE SHOWN WITH OTHER TRADES TO FACILITATE INSTALLATIONS AND TO AVOID DELAYS IN CARRYING OUT THE 3. REPLACE SITE SUPERVISOR AND/OR FOREMAN WHEN REQUESTED BY CONTRACT ADMINISTRATOR.

1.9 CHANGE TO CONTRACT

- CONTRACTOR CHANGE PRICING SHALL INCLUDE A COMPLETE BREAKDOWN OF ITEMS OF MATERIAL, LABOUR HOURS, LABOUR RATES AND MARKUPS. THIS REVIEW PERIOD WILL START WHEN ALL INFORMATION INDICATED ABOVE IS RECEIVED.
- 2. CONTRACTOR SHALL REVIEW AND APPROVE ALL CONTRACTOR CHANGE PRICING AND CREDITS PRIOR TO SUBMITTING TO CONTRACT ADMINISTRATOR. SUBMISSION TO THE CONTRACT ADMINISTRATOR INDICATES CONTRACTOR BELIEVES THE PRICING IS FAIR AND REASONABLE.

1.10 PROGRESS CLAIMS

1. CONTRACTOR PROGRESS CLAIMS WILL ONLY BE REVIEWED IF THEY PROVIDE A COMPLETE BREAKDOWN BY TRADE AND SUB TRADE AND LIST ALL MAJOR EQUIPMENT AND LABOUR COMPLETE WITH COSTS.

1.11 WORK IN EXISTING BUILDING

- 1. WHERE EXISTING SERVICES SUCH AS POWER, FIRE ALARM, HVAC, PLUMBING OR FIRE PROTECTION ARE REQUIRED TO BE DISRUPTED AND/OR SHUTDOWN COORDINATE THE SHUT-DOWNS WITH THE CITY AND CARRY OUT THE WORK AT A TIME AND IN A MANNER ACCEPTABLE TO THEM. CAREFULLY SCHEDULE ALL DISRUPTIONS AND/OR SHUTDOWNS AND ENSURE THAT THE DURATION OF SAME IS KEPT TO A MINIMUM. SUBMIT FOR APPROVAL, A WRITTEN SCHEDULE OF EACH DISRUPTION AT LEAST 72 HOURS IN ADVANCE OF PERFORMING WORK AND OBTAIN THE CITY'S WRITTEN CONSENT PRIOR TO IMPLEMENTING.
- 2. SHOULD ANY CONNECTIONS BE REQUIRED TO MAINTAIN SERVICES DURING WORK IN THE EXISTING BUILDING, SUPPLY AND INSTALL ALL NECESSARY MATERIAL AND EQUIPMENT AND PROVIDE ALL LABOUR AT NO EXTRA COST. SHOULD ANY EXISTING SYSTEM BE DAMAGED,
- MAKE FULL REPAIRS WITHOUT EXTRA COST, AND TO THE SATISFACTION OF THE CITY. 3. THE DRAWINGS INDICATE MAJOR ITEMS OF EQUIPMENT TO BE DELETED OR RELOCATED BUT DO NOT INDICATE EVERY ITEM OF EQUIPMENT TO BE DELETED OR RELOCATED. BE RESPONSIBLE FOR DETERMINING WHICH EXISTING EQUIPMENT IS TO BE DELETED OR RELOCATED BY EXAMINING THE SITE AND CONSTRUCTION DOCUMENTS. REFLECT INFORMATION ON PROJECT RECORD DOCUMENTS.
- 4. EXISTING JUNCTION BOXES SHALL REMAIN ACCESSIBLE. 5. REFER TO CONTRACT DOCUMENTS FOR PHASING AND STAGING OF WORK AND ADHERE TO THAT PROGRAM. COMPLY WITH INSTRUCTIONS
- REGARDING WORKING HOURS NECESSARY TO MAINTAIN THE BUILDING IN OPERATION. 6. ALL EXISTING CABLES AND CONDUITS REQUIRED TO REMAIN IN AN AREA OF DEMOLITION / RENOVATION MUST BE REPAIRED, RE-SECURED
- 26 00 10 BASIC MATERIAL AND METHODS

1.1 WIRING METHODS

- 1. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, ALL WIRES SHALL BE COPPER, MINIMUM #12 AWG WITH 90°C X-LINK INSULATION. WIRING SHALL BE INSTALLED IN CONDUIT.
- 2. EXISTING AC-90 RUNS TO BASE BUILDING PANELS SHALL BE REMOVED AND REPLACED WITH CONDUIT AND WIRE WITHIN THIS CONTRACT. 3. ALL UNUSED COMMUNICATION AND POWER WIRING IN CEILING SPACE SHALL BE REMOVED.

26 53 13 SELF-CONTAINED EMERGENCY & EXIT LIGHTING (PICTORIAL)

OR CLIPPED TO MEET SPECIFICATION AND CEC STANDARDS.

- 1. PROVIDE SELF-CONTAINED EXIT SIGN, SELF-CONTAINED COMBINATIONS EXIT SIGN AND EMERGENCY LIGHTING, AND SELF-CONTAINED
- EMERGENCY LIGHTING HEADS AS INDICATED ON DRAWINGS. 2. EXIT LIGHTING SHALL BE MADE OF WHITE DURABLE EXTRUDED, ONE-PIECE ALUMINUM HOUSING AND SHALL INCORPORATE A PROTECTIVE CLEAR PANEL. EACH FACE PLATE SHALL COME STANDARD WITH LEGEND FILMS FOR PICTOGRAM AND DIRECTION SELECTION. UNITS SHALL
- MEET OR EXCEEDS CSA 22.2 NO.141-10 STANDARD FOR PICTOGRAM EXIT SIGNS. 3. THE POWER PACK SHALL BE A COMPLETELY SELF-CONTAINED EMERGENCY UNIT WITH ITS OWN CHARGER AND RECHARGEABLE BATTERY.
- THE HOUSING SHALL BE MADE OF STEEL, PAINTED FACTORY WHITE. THE UNIT SHALL BE DESIGNED TO FURNISH EXIT ILLUMINATION FROM THE NORMAL AC SOURCE.
- 4. WHEN A POWER FAILURE OCCURS THE MOUNTED HEADS ALONG WITH THE EXIT SIGN ARE ILLUMINATED IN EMERGENCY MODE FOR A MINIMUM OF 30 MINUTES AND THE BATTERY SHALL BE RATED FOR 36 WATTS.
- 5. UNITS SHALL BE AIMLITE CSRP EXIT SIGN AND POWER PACK SERIES OR APPROVED MANUFACTURES: EMERGI-LITE, LUMACELL, BEGHELLI AND READY-LITE.
- 6. BATTERY BANK UNITS SHALL BE COMPLETE WITH 6 WATT LED MR16 HEADS OR APPROVED MANUFACTURES
- 7. UNITS SHALL BE WALL MOUNTED AND CORD CONNECTED. 8. WIRE SHALL BE MINIMUM #12 AWG UNLESS REFUSED BY CODE OR NOTED OTHERWISE.

END OF SECTION

THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO COMMENCEMENT OF WORK. ALL ERRORS AND OMISSIONS TO BE REPORTED TO NUMBER TEN ARCHITECTURAL GROUP BEFORE PROCEEDING.

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architecture = interior design = planning

850 EMPRESS BUILDING UPGRADE

850 EMPRESS STREET, WINNIPEG, MB

ELECTRICAL SYMBOL LEGEND,

SCHEDULE & DRAWING LIST

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scale: AS SHOWN