

**1. CIVIC ADDRESS:**

LOO LOO WINNIPEG  
715 MAIN ST., WINNIPEG, MB

**2. DRAWING INDEX:**

- E01.0 – TITLE SHEET
- E01.1 – SITE PLAN
- E02.1 – MAIN LEVEL – POWER LAYOUT
- E02.2 – MAIN LEVEL – LIGHTING LAYOUT
- E02.3 – MAIN LEVEL – LOW VOLTAGE SYSTEMS
- E03.1 – SECOND LEVEL – POWER LAYOUT
- E03.2 – SECOND LEVEL – LIGHTING LAYOUT
- E06.0 – SINGLE LINE DIAGRAM & SCHEDULES
- E08.1 – INSTALLATION SPECIFICATIONS – PART 1
- E08.2 – INSTALLATION SPECIFICATIONS – PART 2

**3. WARNING:**

THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE LATEST ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, AND LANDSCAPE DRAWINGS.

BEFORE ROUGH-IN WIRING, REFER TO ARCHITECTURAL DRAWING FOR EXACT LAYOUT, DIMENSIONS AND ELEVATIONS.

ANY CHANGES TO DRAWINGS SHALL BE IN WRITING & AUTHORIZED BY THE CONTRACT ADMINISTRATOR.

ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL ELECTRICAL EQUIPMENT NOTED ON PLANS FOR A WORKING SYSTEM UNLESS OTHERWISE NOTED.

DO NOT SCALE OFF DRAWINGS.

**4. ELECTRICAL CONTRACTOR TENDER NOTES**

**4.1. EQUIPMENT:**

- 4.1.1. ALL WORK MUST SATISFY THE REQUIREMENTS OF THE CURRENT THE WINNIPEG ELECTRICAL BYLAW, MANITOBA BUILDING CODE, AND ALL AUTHORITIES HAVING JURISDICTION.
- 4.1.2. THE ELECTRICAL CONTRACTOR SHALL NOT UNDER ANY INSTANCE REDUCE THE STANDARD ESTABLISHED BY THE CONTRACT DOCUMENTS BY ANY OF THESE CODES OR REGULATIONS REFERRED TO IN (3).
- 4.1.3. ANY PROPOSED RELOCATION(S) BY THE ELECTRICAL CONTRACTOR OF ELECTRICAL EQUIPMENT AND OTHER EQUIPMENT THAT REQUIRES ELECTRICAL POWER/CONNECTIONS (FROM THAT SHOWN ON THE DRAWINGS) MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR/CLIENT IN WRITING.

**4.2. DOCUMENTS:**

- 4.2.1. CONTRACTORS PRICING/TENDERING MUST OBTAIN A COMPLETE SET OF CURRENT DOCUMENTS INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING, SPRINKLER, STRUCTURAL, SURVEY AND ALL OTHER DRAWINGS/SPECIFICATIONS FOR THIS PROJECT.
- 4.2.2. CERTAIN INFORMATION REQUIRED TO PROPERLY PRICE WORK INDICATED ON THE ELECTRICAL DRAWINGS MAY BE FOUND IN OTHER CONSULTANTS DRAWINGS.

**5. UTILITY:**

POWER/TELEPHONE/CABLEVISION INCOMING SERVICE (LOCATION OF EQUIPMENT/DUCT ROUTING) INFORMATION TO BE CONFIRMED. (INFORMATION SHOWN IS TO FACILITATE DISCUSSION WITH AUTHORITY ON PROPOSED SERVICE ENTRY PREFERRED LOCATION AND ARE FOR THAT PURPOSE ONLY).

**6. NOTES:**

**6.1. UTILITIES:**

- 6.1.1. ALL UNDERGROUND UTILITY SLEEVES/DUCTS ARE TO BE INSTALLED AS PER CEC 12-012, ELECTRICAL & COMMUNICATION UNDERGROUND INSTALLATION TO RUN IN JOINT TRENCH WHERE POSSIBLE TO THE BUILDING. BENDS MUST BE OF MINIMUM BEND RADIUS OF 36".
- 6.1.2. ELECTRICAL CONTRACTOR MUST CO-ORDINATE ROUTING AND INSTALLATION OF ALL UNDERGROUND DUCTS WITH:
  - 6.1.2.1. UTILITIES (HYDRO, TELEPHONE, GAS, CABLE) REGARDING EXACT ROUTING, DEPTH OF BURIAL AND OTHER REQUIREMENTS.
  - 6.1.2.2. MECHANICAL AND GENERAL CONTRACTOR REGARDING INTERFERENCE WITH STORM SEWER, SANITARY SEWER, GAS LINES, CATCHBASINS, AND SIMILAR UNDERGROUND SITE/CITY SERVICES.
- 6.1.3. SEAL THE DUCTS FROM UTILITY SIDE TO PREVENT WATER ACCUMULATION IN DUCTS. IF THAT CANNOT BE ENSURED, PROVIDE SERVICE DUCTS WITH A DRAIN CONNECTION BEFORE ENTRY TO THE BUILDING. THIS DRAIN IS INTENDED FOR RELIEF OF INCIDENTAL WATER ENTERING THE DUCT. THE DRAIN MUST NOT BE USED TO HANDLE ANY FORM OF AREA DRAINAGE.
- 6.1.4. ALL SERVICE DUCTS MUST BE SEALED AT POINT OF ENTRY INTO BUILDING THROUGH WALLS. THE SEAL SHALL PREVENT WATER ENTRY INTO THE BUILDING THROUGH THE WALL PENETRATION AND IN ADDITION, THE INSIDE OF THE DUCTS (WHERE POSSIBLE) MUST ALSO BE SEALED AGAINST WATER ENTRY. ENSURE WATERPROOF MATERIAL DOES NOT OBSTRUCT DUCT DRAIN WHEN PROVIDED.
- 6.1.5. WHEN INSTALLED OUTDOORS, ARC PRODUCING ELECTRICAL EQUIPMENT/POWER METER SHALL NOT BE INSTALLED WITHIN 1 METER OF THE COMBUSTIBLE GAS METER, GAS RELIEF DEVICE OR VENT.
- 6.1.6. CO-ORDINATE WITH THE GENERAL CONTRACTOR, HYDRO, ELECTRICAL INSPECTOR AND WITH ALL AUTHORITIES HAVING THE JURISDICTION FOR THE FOLLOWING:
  - 6.1.6.1. MECHANICAL PROTECTION (STEEL PROTECTION) POSTS AND REQUIREMENTS OF POSTS PER UTILITY AND CODE.

6.1.6.2. MECHANICAL PROTECTION POSTS TO BE PROVIDED (SUPPLY/INSTALLATION) BY THE GENERAL CONTRACTOR.

6.1.6.3. PROTECTION OF EXISTING TREES/SHRUBS: ELECTRICAL CONTRACTOR MUST CO-ORDINATE ROUTING OF ALL UNDERGROUND DUCTS AND ALL UNDERGROUND WIRING WITH ARCHITECT SITE-SUPERVISOR AND LANDSCAPE ARCHITECT TO PROTECT AND MAINTAIN EXISTING TREES AND SHRUBS AS INDICATED ON LANDSCAPE AND ARCHITECTURAL DRAWINGS.

**6.2. OUTDOOR LIGHTS:**

- 6.2.1. THE OUTDOOR LIGHTS (LANDSCAPE, BUILDING PERIMETER, ROADWAY, ETC.) SHALL BE CONTROLLED BY PHOTOCELL AND TIME CLOCK, VIA CONTACTOR(S).
- 6.2.2. REFER TO DRAWINGS FOR LIGHTING LAYOUT AND LUMINAIRE SCHEDULE.

**6.2. CAUTION: ALL OTHER SUBCONSULTANTS/TRADES – ELECTRICAL ROOM:**

- 6.3. NO LAVATORIES, BATH TUBS, ETC. ON FLOOR AREA ABOVE THE ELECTRICAL ROOM.
- 6.4. IF EQUIPMENT ABOVE HAVE TO BE LOCATED ABOVE TO ELECTRICAL ROOM DUE TO FLOOR AREA LIMITATION, PROVIDE ADEQUATE PROTECTION TO ELECTRICAL EQUIPMENT TO PREVENT LEAKED WATER, CONDENSATION WATER, AND ANY OTHER FORM OF WATER FROM ACCIDENTAL AND SUDDEN DISCHARGE ON ELECTRICAL REQUIREMENT.

ABBREVIATIONS	
FFL	FINISH FLOOR LEVEL
AFF	ABOVE FINISH FLOOR
FGL	FINISH GRADE LEVEL
MOUNTING HEIGHTS	TO UNDERSIDE OF THE ROUGH-IN OF THE SAID INSTALLATION
NL	NIGHT LIGHT
FF	FORCE FLOW UNIT
U/G	UNDER GROUND
WP	WEATHER PROOF

VERIFY SHEET SIZE. BAR TO THE RIGHT IS 1" IF THIS IS A FULL SIZE DRAWING.

LEGEND	
	DOOR ASSISTS ACTIVATOR PUSH BUTTON
NL	NIGHT LIGHT
	SINGLE POLE SWITCH (3 DENOTE 3 WAY SWITCH, D DENOTE DIMMER, OS DENOTE OCCUPANCY SENSOR)
	DUPLEX RECEPTACLE-C DENOTES UNDER COUNTER, M DENOTES MICROWAVE DESIGNATED, F DENOTES FLOOR, IPLC DENOTES IPLC BLOCK HEATER CONTROLLER, GFI GROUND FAULT CIRCUIT INTERRUPTER, C CEILING MOUNTED, M FOR MICROWAVE, ARC FOR ARC FAULT, S SURFACE MOUNTED
	208/240V RECEPTACLE – CONFIGURATION BY AMPERAGE
	QUAD RECEPTACLE
	JUNCTION BOX – CEILING/WALL

	STROBE/HORN UNIT – FIRE ALARM SYSTEM (1 DENOTE TYPE, C DENOTE CEILING MOUNTED)
	STROBE UNIT (1 DENOTE TYPE, C DENOTE CEILING MOUNTED)
F	PULL STATION – FIRE ALARM SYSTEM
R	RELAY MODULE – FIRE ALARM SYSTEM
M	MONITOR MODULE – FIRE ALARM SYSTEM
	CARBON MONOXIDE DETECTOR – FIRE ALARM SYSTEM
	SMOKE DETECTOR
	SMOKE DETECTOR – DUCT MOUNTED
	HEAT DETECTOR – (D DENOTES DUCT MOUNTED, MP DENOTES MOISTURE PROOF)
	CARBON MONOXIDE ALARM – CONNECTED TO 120V NON-SWITCHED CIRCUIT C/W BATTERY BACKUP
	HORN UNIT – FIRE ALARM SYSTEM (1 DENOTE TYPE, C DENOTE CEILING MOUNTED)

	VOICE / DATA OUTLET
	TV/CABLE OUTLET
	POWER PANELBOARD – FLUSH MOUNT/SURFACE MOUNT
	COMMUNICATION BOARD
	HARDWIRED CONNECTION
	MOTOR CONNECTION
	DISCONNECT SWITCH–NUMBER OF POLES PER CIRCUIT DESIGNATION

	BATTERY PACK C/W EMERGENCY LIGHTS
	EMERGENCY LIGHTS – DUAL HEADS
	EMERGENCY LIGHT AND EXIT COMBO – ARROWS AS REQUIRED
	EMERGENCY EXIT SIGN

	FIRE ALARM PANEL
	FIRE ALARM ANNUNCIATION PANEL

**EMT ROUTING & GENERAL INSTALLATION REQUIREMENTS**

- 1 ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL EMT CONDUITS ALL EMT & ELECTRICAL INSTALLATIONS FROM OFFICE & SECOND LEVEL AREAS DESTINED TO SINK AREA TO BE ROUTED THROUGH THIRD LEVEL CONTAINER/WOOD. NO HORIZONTAL EMT CONDUITS ALLOWED TO BE ROUTED IN CEILING OF SINK AREA.
- 2 ELECTRICAL CONTRACTOR TO ARRANGE & CARRY ALL COSTS INVOLVED TO DRILL, WELD, RECTIFY, REPAIR, SUPPORT, SECURE, & PAINT TO ARCHITECTURAL SPECIFICATIONS' CONDITION OF FINISH ALL PENETRATIONS REQUIRED FOR EMT CONDUITS. ROUGH EDGES SHALL BE SMOOTHED, DEBURRD, & SEALED WITH PRINTABLE SEALANT AS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.
- 3 USE STAINLESS STEEL OR GALVANIZED FASTENERS TO SECURE EMT CONDUIT'S SUPPORTS & ELECTRICAL ITEMS, & PARTS TO CONTAINERS' STEEL SURFACES. USE SELF-TAPPING SCREWS FOR ITEMS ABOVE 7', USE BOLT & STAINLESS STEEL NUTS WITH NYLON INSERTS COMBINATIONS FOR ITEMS BELOW 7'. SELF-TAPPING SCREWS SHALL NOT PROTRUDE MORE THAN 1/4" BEYOND EXTERIOR OF CONTAINER'S WALLS. TORQUE PER CODE.

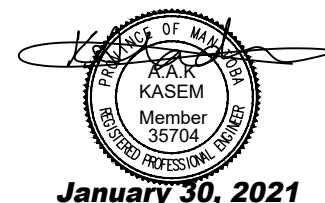
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D	RE-ISSUED FOR CONSTRUCTION	AK	AK	21 02 26
C	RE-ISSUED FOR CONSTRUCTION	AK	AK	21 02 04
B	ISSUED FOR CONSTRUCTION	AK	AK	21 01 30
A	ISSUED FOR REVIEW	AK	AK	21 01 21
ISSUED		BY	APPR.	DATE

SEAL:

**APEGM**  
Certificate of Authorization  
Ibasa Enterprises Inc.  
No. 5474 Expiry: April 30, 2021



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DRAWN BY: AK  
REVIEWED BY: AK

SHEET NO:

E01