



THE CITY OF HORSESHOE BAY ELECTRICAL GUIDELINES FOR GRINDER SYSTEMS

THE FOLLOWING LIST OF REQUIREMENTS MUST BE COMPLETED FOR ALL GRINDER SYSTEMS AND THIS DOCUMENT MUST BE SIGNED BY THE ELECTRICAL CONTRACTOR BEFORE A FINAL INSPECTION WILL BE PERFORMED BY THE CITY OF HORSESHOE BAY. FAILURE TO PROPERLY INSTALL A GRINDER SYSTEM TO THESE STANDARDS WILL RESULT IN ADDITIONAL FEES. **ALL GRINDER PANEL INSTALLATIONS MUST BE DONE BY A LICENSED ELECTRICIAN OR SOMEONE UNDER THE DIRECT SUPERVISION OR A LICENSED ELECTRICIAN. ALL ELECTRICIANS WORKING WITHIN THE CITY OF HORSESHOE BAY ARE REQUIRED TO REGISTER WITH THE DEVELOPMENT SERVICES DEPARTMENT AND PROVIDE PROOF OF ELECTRICAL LICENSE.**

SERVICE INSTALLATION ADDRESS _____

**INSPECTION REQUIREMENTS:
CHECK OFF LIST FOR BOTH THE PLUMBER AND ELECTRICIAN MUST BE COMPLETED AND RETURNED TO THE CITY OF HORSESHOE BAY'S MAIN OFFICE BEFORE A FINAL INSPECTION WILL BE AUTHORIZED AND PREFORMED.**

_____ ALL GRINDER PANELS ARE 240 VOLTS SINGLE PHASE SYSTEMS

_____ PANEL MUST BE INSTALLED TO A **MINIMUM OF 4' AND MAXIMUM OF 5'** ABOVE FINAL GRADE TO BOTTOM OF PANEL. ALL GRINDER **PANELS MUST BE MOUNTED TO PROVIDE EASY AND REASONABLE ACCESS BY CITY PERSONNEL.** THE PANEL SHALL NOT BE OBSTRUCTED BY A/C UNITS, POOL EQUIPMENT, FENCING, HALF WALLS, PROPANE TANKS, ETC. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO ASSURE EASY ACCESS TO THE PANEL FOR FINAL INSPECTION. THE CITY WILL NOT PASS A GRINDER SYSTEM FINAL INSPECTION IF THERE ARE ANY OBSTRUCTIONS TO THE PANEL OR GRINDER BASIN. (ELECTRICAL CODE BOOK: NEC 110.26A)

_____ PANEL MUST BE INSTALLED ON OUTSIDE WALL OR APPROVED LOCATION AND **NO FURTHER THAN 10' FROM GRINDER BASIN.** IF THIS CANNOT BE ACHIEVED, THE ELECTRICIAN IS TO CONTACT THE CITY FIELD OPERATIONS SUPERVISOR AT (830)598-9988 OR THE CITY FIELD OPERATIONS FOREMAN AT (830)598-8741, EXT.#3209.

_____ EACH PANEL SHALL HAVE A **SEPARATE 240 VOLTS 30 AMP MINIMUM 4 WIRE CIRCUIT FOR SIMPLEX INSTALLATIONS AND 60 AMP FOR DUPLEX INSTALLATIONS.** THIS CIRCUIT WILL BE TERMINATED INTO AN **APPROVED RAIN TIGHT 30 AMP MINIMUM DISCONNECT FOR SIMPLEX AND 60AMP FOR DUPLEX.** BREAKERS SUPPLYING THE DISCONNECT MUST BE TWO POLES.

_____ PANEL SHALL BE MOUNTED WITHIN A REASONABLE DISTANCE, WITH LINE OF SIGHT OF THE ELECTRICAL DISCONNECT, PER N.E.C. ARTICLE 430.102(A). THERE SHALL BE NO OTHER WIRING PASSING THROUGH, TERMINATING IN, OR LEAVING THE PANEL. MOUNTING EARS OR BRACKETS MUST BE USED. **DO NOT DRILL THROUGH BACK OR BOTTOM OF PANEL.**

_____ LIQUID TIGHT FLEX CONDUIT OR SCHEDULE 80 ELECTRICAL PVC PIPE IS ACCEPTABLE FOR USE ON BOTH THE DISCONNECT AND THE PATHWAY FROM THE PANEL TO THE BASIN. 2" CONDUIT IS REQUIRED FROM THE PANEL TO BASIN.

_____ ELECTRICAL SWEEPS ON SCHEDULE 80 CONDUITS MUST BE USED, **NO WATER OR SHORT SWEEP 90'S ALLOWED.**

_____ **THE ELECTRICIAN WILL PULL BOTH THE PUMP AND FLOAT WIRES** INTO THE GRINDER PANEL AND NO WIRES ARE TO BE CUT. **ALL** EXCESS WIRES ARE TO BE LEFT IN THE GRINDER BASIN FOR CITY PERSONNEL TO HOOKUP TO THE PANEL.

_____ IF ANY WIRES ARE CUT, THE ELECTRICAL **CONTRACTOR WILL PAY FOR REPLACEMENT OF PUMP.**

_____ A 2" VINYL HUB IS SUPPLIED TO THE ELECTRICIAN FOR THE CONNECTION OF THE CONDUIT FROM THE PANEL INTO THE BASIN AND IT **MUST BE USED.** THE INSTALLATION OF THIS HUB IS THE RESPONSIBILITY OF THE ELECTRICIAN, NOT THE PLUMBER. ALL HUB BOLT HOLES DRILLED IN BASIN AND THE OUTER EDGE OF HUB MUST BE SEALED WITH SILICONE OR OTHER WATERPROOF MATERIAL. **DO NOT** FILL THE CONDUIT WITH SEALANT.

_____ ELECTRICIANS ARE **NOT TO CONNECT ANY WIRING** INCLUDING LINE SIDE POWER TO GRINDER PANEL. **LINE SIDE WIRING MUST BE BLACK AND BLACK OR BLACK AND RED, THE NEUTRAL WILL BE WHITE, AND THE GROUNDING CONDUCTOR WILL BE BARE COPPER OR GREEN INSULATED COPPER.** WIRES FROM THE DISCONNECT TO GRINDER PANEL MUST HAVE WIRE NUTS INSTALLED.

_____ NO SIDE ENTRIES ALLOWED INTO THE GRINDER PANEL. **BOTTOM ENTRIES ONLY.**

IT IS IMPERATIVE THAT POWER BE SUPPLIED TO THE ELECTRICAL DISCONNECT BEFORE REQUESTING A FINAL INSPECTION. IF CITY PERSONNEL ARRIVE TO PERFORM THE FINAL INSPECTION AND POWER IS NOT PRESENT, THE CONTRACTOR WILL BE CHARGED A REINSPECTION FEE BY THE CITY AND FINAL WILL NOT BE GIVEN UNTIL SAID FEES ARE PAID.

Signed This Day By _____

Date _____

Company Name _____

Phone Number _____

Electrician's License Number: _____