



**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 of 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 OBTRUCTIONS TO THE PANEL OR BRINDER 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 CAN NOT BE ACHIEVED, THE ELECTRIAN 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 2 POLE OR IF SINGLE POLE WITH APPROVED TIE BAR.

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

\_\_\_\_\_ LIQUID TIGHT FLEX CONDUIT OR SCHEDULE 80 ELECTRICAL PVC PIPE IS ACCETABLE 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 ELECTRICAN 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 WATER PROOF 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, THE NEUTRAL WILL BE WHITE, AND THE GROUND WILL BE GREEN.** 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 PREFORM 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 \_\_\_\_\_