



## THE CITY OF HORSESHOE BAY

### PLUMBERS GUIDELINES FOR GRINDER SYSTEMS

The following list of requirements must be completed for all grinder systems and this document must be signed by the plumbing 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 pump installations must be done by a licensed plumber or someone under the direct supervision or a licensed plumber. All plumbers working within the City of Horseshoe Bay are required to register with the Development Services Department and provide proof of plumbing license.**

SERVICE INSTALLATION ADDRESS \_\_\_\_\_

**Inspection Requirements:**

**Line from the sewer tap to basin plus concrete around the basin must be installed before the lines and basin can be covered up. Check off list for both plumber and electrician must be turned into the City's main office before the final inspection is requested.**

**THE GRINDER BASIN MUST BE INSTALLED OUTDOORS** IN THE EXISTING TERRAIN WHERE APPLICABLE. IF DEPTH IS A PROBLEM THE PLUMBER IS TO CONTACT THE CITY FIELD OPERATION FOREMAN AT (830)598-8741, ext.3209 OR THE FIELD OPERATION SUPERVISOR AT (830)598-9988. **NO BASIN WILL BE ALLOWED TO BE INSTALLED IN OR UNDER ANY STRUCTURE OR SET ON TOP OF THE GROUND** WITHOUT APPROVAL OF THE CITY.

**ALL BASINS WILL BE INSTALLED TO A DEPTH SO AS TO MAINTAIN A MINIMUM OF 3" ABOVE FINAL GRADE.** IF THIS CANNOT BE DONE THEN AN EXTENSION CAN BE PURCHASED THROUGH THE CITY. **ALL BASINS ARE TO BE CONCRETED AROUND BOTTOM OF BASIN WITH A MINIMUM OF 240 POUNDS OF CONCRETE.**

**A TWO-WAY CLEANOUT IS REQUIRED** ON ALL RESIDENTIAL AND COMMERCIAL INSTALLATIONS PRIOR TO GRINDER BASIN.

**DISCHARGE LINES MUST BE 1 1/2" IN DIAMETER AND BE OF PRESSURE RATED SCHEDULE 40 PVC PIPE WITH NO 90 DEGREE BENDS. THE DISCHARGE LINE LEAVING THE BASIN SHALL HAVE A MINIMUM DEPTH OF 6" OF BACKFILL AT THE FIRST 45 DEGREE BEND. THE BALANCE OF THE LINE SHALL MAINTAIN A DEPTH OF 12" TO THE SEWER TAP. ALL DISCHARGE LINE THAT MUST GO UNDER A DRIVEWAY OR OTHER TYPE OF BARRIER, MUST BE SLEEVED WITH A PIPE OF NO LESS THAN 2 TIME THE DIAMETER OF THE PRIMARY PIPE (1 1/2" PIPE SLEEVED IN 3" PIPE). NO MORE THAN (7) 45° BENDS ARE ALLOWED WITHOUT PRIOR CITY APPROVAL.**

**ALL DISCHARGE LINES MUST HAVE A MINIMUM OF 3" OF SAND OR GRANITE GRAVEL, (NO ROCKS) OVER AND UNDER THEM**

**THE PLUMBING INSTALLED INSIDE OF THE BASIN WILL BE INSTALLED IN THIS ORDER 1 1/2" X 1 1/4" REDUCING BUSHING, 1 1/4" X 3" NIPPLE, 1 1/4" BALL VALVE, 1 1/4" CLOSE NIPPLE, 1 1/4" CHECK VALVE, 1 1/4" CLOSE NIPPLE, 1 1/4" UNION, 1 1/4" CLOSE NIPPLE, THREADED 1 1/4" TEE SET LIKE A 90 WITH A THREADED 1 1/4" PLUG IN THE TOP OF TEE, STAND PIPE, AND PUMP. THE PUMP MUST NOT BE INSTALLED UNDER THE DISCHARGE PIPING INSIDE THE BASIN.** THE CITY OF HORSESHOE BAY WILL ALSO PROVIDE FITTINGS FOR THE PLUMBING INSTALLED OUTSIDE OF THE BASIN, WHICH WILL BE INSTALLED IN THIS ORDER 1 1/2" HUB, 1 1/2" TOE NIPPLE, AND 1 1/2" COMPRESSION COUPLING.

**ALL HUBS AND RUBBER BOOTS USED FOR PIPE INSTALLATION MUST BE SEALED TO A WATER TIGHT SEAL.**

**THE TOP OF THE DISCHARGE LINE FROM THE HOUSE INTO THE BASIN MUST NOT BE INSTALLED ANY LOWER THAN 24" FROM THE BOTTOM OF THE BASIN.**

**THE CITY FIELD OPERATIONS FOREMAN OR THE FILED OPERATIONS SUPERVISOR CAN BE THE ONLY ONES TO APPROVE ANY VARIATIONS FROM THE ABOVE REQUIREMENTS.**

**THERE MUST BE A WORKING OUTSIDE HOSE BIB NO FURTHER THAN 25'** AT EACH RESIDENCE TO PROVIDE THE CITY OF HORSESHOE BAY A MEANS OF FILLING THE BASIN WITH WATER FOR FINAL INSPECTION AND FOR FUTURE CLEANING AS NEEDED.

**THE BASIN NEEDS TO BE FREE OF ALL LIQUIDS PRIOR TO THE FINAL INSPECTION.**

**ALL BACKFILLING NEEDS TO BE DONE AROUND TANK AFTER LINE AND TANK INSPECTION IS COMPLETE AND BEFORE THE FINAL INSPECTION IS CONDUCTED.**

**STANDPIPE TEE THREADED ON TO STANDPIPE A MINIMUM OF (4) FULL TURNS. PUMP TO NOT BE ORIENTED DIRECTLY UNDER DISCHARGE LINE, AND UNION TO HAVE NO MORE THAN 1/4" MIS-ALIGNMENTS. MIS-ALIGNMENT KIT AVAILABLE FOR PURCHASE IF NEEDED.**

BEFORE A FINAL INSPECTION IS CALLED FOR BY THE CONTRACTOR, IT IS IMPERATIVE THAT POWER BE SUPPLIED TO THE ELECTRICAL DISCONNECT. IF CITY PERSONNEL ARRIVE TO DO A FINAL INSPECTION AND POWER HAS NOT BEEN SUPPLIED, THE CONTRACTOR WILL BE CHARGED A REINSPECTION FEE BY THE CITY AND A FINAL WILL NOT BE DONE UNTIL ALL SAID FEES HAVE BEEN PAID. ONCE THE ABOVE GUIDELINES HAVE BEEN MET AND CHECKED OFF BY THE PLUMBING CONTRACTOR, THIS FORM MUST BE SIGNED AND RETURNED TO THE CITY OFFICES.

Signed This Day By \_\_\_\_\_

Date \_\_\_\_\_

Company Name \_\_\_\_\_

Phone Number \_\_\_\_\_

Plumber's License Number: \_\_\_\_\_

Plumber's Email Address: \_\_\_\_\_