

## Kingsland Municipal Utility District

### CHECK LIST FOR ELECTRICIAN’S INSTALLATION OF GRINDER ASSEMBLY

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 District. Failure to comply with the stated standards listed below will result in system rejection and re-inspection fee(s).

**All check boxes must be checked before District will schedule inspection.**

- ALL GRINDER PANELS ARE 240 VOLT SINGLE PHASE SYSTEMS. NO ALTERNATIVE VOLTAGE MAY BE UTILIZED AS A POWER SOURCE FOR THE PANEL.
- THE BOTTOM OF THE PANEL MUST BE INSTALLED AT A MINIMUM OF THREE (3) FEET ABOVE FINAL GRADE.
- PANEL MUST BE INSTALLED ON AN OUTSIDE WALL, ALTERNATIVE LOCATION BY DISTRICT APPROVAL ONLY. PANELS MUST BE NO FURTHER THAN FIFTEEN (15) FEET FROM GRINDER BASIN. IF THIS CANNOT BE ACHIEVED, ELECTRICIAN IS TO CONTACT KMUD O&M SUPERVISOR FOR FURTHER INSTRUCTONS. PANEL AND CONDUIT MUST BE INSTALLED LEVEL.
- EACH PANEL SHALL HAVE A SEPARATE AND DEDICATED 240-VOLT 30 AMP MINIMUM 4 WIRE CIRCUIT. THIS CIRCUIT MUST TERMINATE INTO A NEMA 4 RAIN TIGHT 30 AMP DISCONNECT.
- PANEL SHALL BE MOUNTED WITHIN TEN FEET (10ft) OF ELECTRICAL DISCONNECT. NO OTHER WIRING TERMINATING OR LEAVING THE DISCONNECT IS PERMITTED.
- LIQUID TIGHT CONDUIT OR SCHEDULE 40 PVC IS ACCEPTABLE FOR USE FROM THE DISCONNECT TO THE PANEL. TWO INCH SCHEDULE 40 PVC CONDUIT IS MANDATORY FROM THE PANEL TO BASIN.
- ELECTRICAL SWEEPS MUST BE USED ON CONDUITS. NO 90’S or 45’S FITTINGS ALLOWED.
- ELECTRICIAN SHALL PULL THE PUMP WIRES TO THE GRINDER PANEL AND MAKE CONNECTION IN THE PROPER WIRING TERMINAL. NO WIRE IS TO BE CUT, AND ALL EXCESS WIRE IS TO BE LEFT IN THE GRINDER BASIN FOR KMUD PERSONNEL. IF ANY WIRES ARE CUT, THE ELECTICAL CONTRACTOR WILL PAY FOR REPLACEMENT. DO NOT PUT ANYTHING IN THE CONDUIT TO SEAL IT.
- A -2” VINYL HUB SUPPLIED MUST BE USED BY THE ELECTRICIAN TO CONNECT THE CONDUIT FROM THE PANEL TO THE BASIN. THE INSTALLATION OF THE HUB IS THE RESPONSIBILITY OF THE ELECTRICIAN. **THE HUB IS TO BE INSTALLED IN THE BASIN; NO LOWER THAN 12 INCHES FROM TOP OF BASIN.**
- A WARRANTY OF ONE (1) YEAR, FROM KMUD’S FINAL INSPECTION DATE SHALL BE PROVIDED ON ALL MATERIALS AND WORKMANSHIP ON ELETRICAL WORK PERFORMED BY ELECTRICIAN. (DEFECTIVE GRINDER COMPONENTS, NOT CAUSED BY FAULTY WORKMANSHIP, WILL BE WARRANTED BY KMUD).

**Before an inspection is requested by the contractor, it is imperative that power is supplied and be turned on to the grinder panel. If the District is contacted to perform an inspection and the items above are checked but not performed the builder/owner employing the contractor is subject to a re-inspection fee by the District. Final inspection and subsequent acceptance of the grinder by KMUD will not be performed until all fees are paid in full.**

Once the above guidelines have been met and checked off by the plumbing contractor, this form must be signed and returned to the District office. Inspections will be performed within two District working days of receipt of this and the plumber’s checklist form.

Name & Company	Texas Electrician License #	Daytime Phone	Date
Sewer Customer Name	Customer Address	Inspected By	Date

# SIMPLEX GRINDER INSTALLATION INSTRUCTIONS

## (ELECTRICIAN)

1. Mount control panel on wall or pole as necessary.
2. Drill 3" O.D. hole in the side of the sump basin. Install 2" inlet hub. Conduit from sump basin to control panel must be no less than 6 inches deep but no more than 18 inches deep. Run 2 inch conduit from sump basin to control panel.  
**Only electrical conduit sweeps can be used. 22, 45, 60, or 90 degree bends are not allowed**
3. Run pump wire from sump basin to control panel. Terminate wiring in proper color coded wiring terminals. **Leave excess uncut wire in tank.**
4. Double check all wiring connections.
5. Check incoming power for proper voltage.
6. Cover and clean up ditch
7. Place sump basin cover on sump basin.