

SPECIFICATIONS/INSTALLATION REQUIREMENTS

PROPERTY OWNER TO CONTACT WASCON SALES AND SERVICE AT (800)-952-4236 TO COORDINATE.

1. PURCHASE OF EONE GRINDER PUMP KIT (PUMP, WELL, CONTROL PANEL, AND APPURTENANCES).
2. CONTACT WASCON SALES AND SERVICE FOR REPLACEMENT PARTS OR DAMAGED RISERS. WKUD DOES NOT STOCK OR SUPPLY REPLACEMENT PARTS OR RISERS DAMAGED DURING INSTALLATION.

PROPERTY OWNER TO CONTACT WKUD AT (865)-801-1062 (TYLER JONES) TO COORDINATE:

1. SCHEDULE PRE-CONSTRUCTION MEETINGS PRIOR TO INSTALLATION TO COORDINATE PUMP LOCATION AND INSTALLATION REQUIREMENTS WITH WKUD PERSONNEL.
2. INSPECTION OF INSTALLATION PRIOR TO BACKFILL OF PUMP STATION, ELECTRICAL CONDUIT, AND FORCE MAIN. (SCHEDULE 24 HOURS PRIOR TO INSPECTION).
3. INSTALLATION OF PUMP AND FINAL INSPECTION (SCHEDULE 24 HOURS PRIOR).

RECEIVED BY: _____ DATE: _____

USER INSTRUCTIONS FOR THE ENVIRONMENT ONE GRINDER PUMP

CONGRATULATIONS ON YOUR ENVIRONMENT ONE GRINDER PUMP INVESTMENT. WITH PROPER CARE AND BY FOLLOWING A FEW SIMPLE GUIDELINES YOUR GRINDER PUMP WILL GIVE YOU YEARS OF DEPENDABLE SERVICE.

GENERAL INFORMATION

IN ORDER TO PROVIDE YOU WITH SUITABLE WASTEWATER DISPOSAL, YOUR HOME IS SERVED BY A LOW PRESSURE SEWER SYSTEM. THE KEY ELEMENT IN THE SYSTEM IS AN ENVIRONMENT ONE GRINDER PUMP. THE TANK COLLECTS ALL EFFLUENT FROM THE HOUSE. THE SOLID MATERIALS ARE THEN GROUND TO A SMALL SIZE SUITABLE FOR PUMPING AS A SLURRY WITH THE EFFLUENT WATER. THE GRINDER PUMP GENERATES SUFFICIENT PRESSURE TO PUMP THIS SLURRY FROM YOUR HOME TO THE WASTEWATER TREATMENT RECEIVING LINE AND/OR DISPOSAL PLANT.

CARE AND USE OF YOUR GRINDER PUMP



THE ENVIRONMENT ONE GRINDER PUMP IS CAPABLE OF ACCEPTING AND PUMPING A WIDE RANGE OF MATERIALS. REGULATORY AGENCIES ADVISE FOLLOWING ITEMS SHOULD NOT BE INTRODUCED INTO ANY SEWER EITHER DIRECTLY OR THROUGH A KITCHEN WASTE DISPOSAL UNIT:

- | | |
|----------------|--|
| GLASS | DIAPERS, SOCKS, RAGS, OR CLOTH |
| METAL | PLASTIC OBJECTS (TOYS, UTENSILS, ETC.) |
| SEAFOOD SHELLS | SANITARY NAPKINS OR TAMPONS |

IN ADDITION, YOU MUST NEVER INTRODUCE INTO ANY SEWER:

- | | | |
|------------|-------------------------------|--------------------|
| EXPLOSIVES | STONING CHEMICALS | FLAMMABLE MATERIAL |
| GASOLINE | LUBRICATING OIL AND/OR GREASE | |

PERIODS OF DISUSE

IF YOUR HOME OR BUILDING IS LEFT UNOCCUPIED FOR LONGER THAN A COUPLE OF WEEKS, USE THE FOLLOWING PROCEDURES:

PURGE THE SYSTEM:
RUN CLEAN WATER INTO THE UNIT UNTIL THE PUMP ACTIVATES, IMMEDIATELY TURN OFF THE WATER AND ALLOW THE GRINDER PUMP TO RUN UNTIL IT SHUTS OFF AUTOMATICALLY.

CAUTION: DO NOT DISCONNECT POWER TO THE UNIT

POWER FAILURE

YOUR GRINDER PUMP CANNOT DISPOSE OF WASTEWATER WITHOUT ELECTRICAL POWER. IF ELECTRICAL POWER SERVICE IS INTERRUPTED, KEEP WATER USAGE TO A MINIMUM.

PUMP FAILURE ALARM

YOUR ENVIRONMENT ONE GRINDER PUMP HAS BEEN MANUFACTURED TO PRODUCE AN ALARM SIGNAL (120 VOLT) IN THE EVENT OF A HIGH WATER LEVEL IN THE BASIN. THE INSTALLER MUST SEE THAT THE ALARM SIGNAL PROVIDED IS CONNECTED TO AN AUDIBLE AND/OR VISUAL ALARM IN SUCH A MANNER AS TO PROVIDE ADEQUATE WARNING TO THE USER THAT SERVICE IS REQUIRED. DURING THE INTERIM PRIOR TO THE ARRIVAL OF AN AUTHORIZED SERVICE TECHNICIAN, WATER USAGE MUST BE LIMITED TO THE RESERVE CAPACITY OF THE TANK.

WEST KNOX UTILITY DISTRICT GRAVITY SEWER SERVICE LINE INSTALLATION

CUSTOMERS REMAIN RESPONSIBLE FOR ADHERENCE TO ALL POINTS COVERED IN THE (SEWER USE ORDINANCE), HOWEVER THE INFORMATION LISTED HERE WILL GIVE THE CUSTOMER A SIMPLE GUIDELINE TO FOLLOW WHEN INSTALLING SEWER SERVICE LINES. A COPY OF A COMPLETE SEWER USE ORDINANCE WILL BE FURNISHED UPON REQUEST. MOST RULES ARE COVERED IN THE SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL (SBCCI). RULE NUMBERS LISTED HERE ARE TAKEN FROM 1994 EDITION. WHEN A CONFLICT OCCURS BETWEEN THE WEST KNOX UTILITY DISTRICT RULES AND REGULATION OF SEWER USE AND THE SBCCI OR OTHER MANUAL OF PRACTICE, WEST KNOX UTILITY'S RULES AND REGULATIONS OF SEWER USE SHALL TAKE PRECEDENCE.

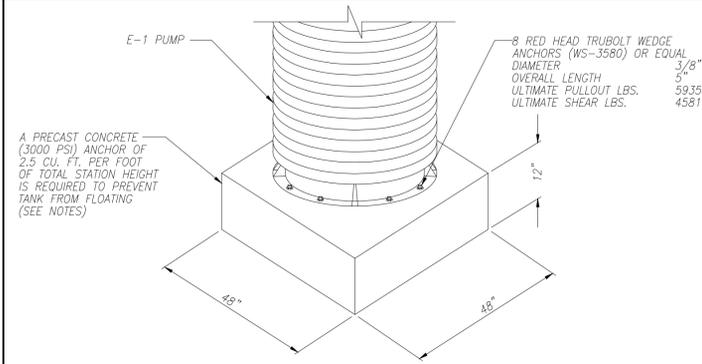
1. ACCEPTABLE TYPES OF PIPES

- A. HDPE (SDR 11)
- MINIMUM PIPE SIZE (SBCCI STANDARD CODES 704.6) 4" I.D.
- MINIMUM SLOPE (UNIFORM) 1/4" FOR 4" PIPE & 1/8" FOR 6" PIPE
- MINIMUM COVER (SBBCCI STANDARDS CODES 304.4) 12"
- CLEAN-OUTS
 - A. TYPE REQUIRED FOR PIPE USED. (SBCCI STANDARD CODES 710.01)
 - B. LOCATED AT NOT MORE THAN 75' INTERVALS FOR 4" PIPE & 100' FOR 6" PIPE
 - C. LOCATED 3' OUTSIDE BUILDING WALL (SBCCI STANDARD CODES 202)
 - D. SHALL BE A LONG SWEEP 90 DEGREE TYPE TEE WYE (OR EQUAL)
 - E. INSTALLED IN THE DIRECTION OF FLOW (SBCCI STANDARD CODES 170.4)
 - F. INSTALLED IMMEDIATELY UPSTREAM OF ANY VERTICAL OR HORIZONTAL BEND GREATER THAN 45 DEGREES. BENDS PLACED LESS THAN 2' APART THAT TOTAL GREATER THAN 45 DEGREES REQUIRE A CLEAN-OUT.
 - G. INSTALLED TO PERMIT ACCESS AT FINISH GRADE OF PROPERTY.
- SEWER LINE
 - A. MUST BE INSTALLED ON HARD, UNDISTURBED TRENCH BOTTOM OR BROUGHT TO GRADE WITH SAND OR FINE GRAVEL FIRMLY TAMPED, TO THE HORIZONTAL DIAMETER OF PIPE. LINE MUST BE INSTALLED SO PIPE INFORMATION CAN BE SEEN.
 - B. SEWER SERVICE LINE SHALL NOT BE LESS THAN 5' APART HORIZONTALLY FROM WATER SERVICE LINE AND SHALL BE SEPARATED BY UNDISTURBED OR COMPACTED EARTH (SBCCI STANDARD CODE 608.3)
 - C. THE WATER AND SEWER SERVICE LINES MAY BE PLACED IN THE SAME TRENCH PROVIDED THE FOLLOWING CONDITIONS ARE MET:
 1. THE BOTTOM OF THE WATER SERVICE LINE, AT ALL POINTS, SHALL BE AT LEAST 12" ABOVE THE TOP OF THE SEWER SERVICE LINE AT THE DEEPEST POINT.
 2. THE WATER SERVICE LINE SHALL BE PLACED ON A SOLID SHELF EXCAVATED AT 36" TO ONE SIDE OF THE SEWER SERVICE LINE.
 - D. GUTTER DRAINS, SURFACE WATER DRAINS, ETC. ARE NOT TO BE CONNECTED TO THE SEWER.
 - E. SERVICE LINES SHALL HAVE A NO. 10 SOLID COPPER WIRE ATTACHED TO PIPE FROM FIRST VALVE BOX TO TAP PROVIDED BY WEST KNOX UTILITY DISTRICT. WIRE MUST BE ACCESSIBLE AT THE FIRST VALVE BOX WITH 18-INCHES (MIN.) LEFT INSIDE. NO SPLICES ARE ALLOWED FOR TRACER WIRE. TRACER WIRE SHALL TERMINATE AT THE 4 INCH CLEANOUT.
 - F. DOUGHNUT TYPE ADAPTERS ARE NOT TO BE USED.
 - G. FITTINGS ARE NOT PERMITTED ON DISCHARGE LINE.

7. THE ELECTRICAL CONDUIT BETWEEN THE CONTROL PANEL AND THE GRINDER PUMP SHALL BE LEFT UNCOVERED UNTIL INSPECTION AND APPROVAL BY WKUD.

- A. INSPECTION REQUEST MUST BE MADE (1) WORKING DAY IN ADVANCE OF INSPECTION.
- B. INSPECTION AND TAP FEES MUST BE PAID BEFORE WORK IS STARTED.
- C. AN ADDITIONAL FEE OF \$65 SHALL BE CHARGED FOR EACH REINSPECTION TRIP NECESSITATED BY INCOMPLETE OR UNSATISFACTORY WORK AND MUST BE PAID BEFORE REINSPECTION.
- D. NO INSPECTION SHALL BE MADE BEFORE OR AFTER BUSINESS HOURS, WEEKENDS, HOLIDAYS, OR DURING BAD WEATHER CONDITIONS.

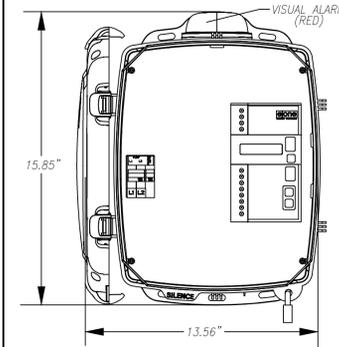
TELEPHONE: (865) 801-1062, TYLER JONES, WKUD



PRECAST ANCHOR BLOCK NOTES:
SIZE SHOWN (48"W x 48"H x 12"D) IS FOR STANDARD 74" HIGH UNIT.
MANUFACTURED BY OR BARBER AND SONS OR APPROVED EQUAL.
DO NOT BACKFILL UNTIL WKUD HAS INSPECTED INSTALLATION.

1 ANCHOR & BOLT REQUIREMENTS

N.T.S.



SENTRY PROTECT PLUS SIMPLEX

- REDUNDANT RUN (HIGH LEVEL)
- EXTERNAL VISUAL AND AUDIBLE ALARM
- REMOTE SENTRY DRY COATS FOR OPTIONAL POWER LOSS HIGH LEVEL ALARM (POWER LOSS ALARM FOR WIRELESS)
- MANUAL ALARM SILENCE
- MANUAL RUN
- STATUS LED'S: NORMAL PUMP RUNNING, HIGH LEVEL, TROUBLE INDICATIONS: RUN DRY, OVERPRESSURE, BROWNOUT, VOLTAGE, EXTENDED RUN TIME
- DRY CONTACTS
- CONFORMAL COATED CIRCUIT BOARD (BOTH SIDES)
- PADLOCK
- DEAD FRONT
- PREDICTIVE ALARMS
- REAL TIME PUMP PERFORMANCE
- ADJUSTABLE ALARM DELAY
- ADJUSTABLE RUN TIME DELAY
- HOURLY/CYCLE COUNTER
- NEMA 4X ENCLOSURE ASSEMBLY
- ENCLOSURE: CORROSION PROOF THERMOPLASTIC POLYESTER APPROVED BY UL FOR ELECTRICAL CONTROL ENCLOSURE.

2 CONTROL PANEL

N.T.S.

