

# **Portland Loo Installation Instructions**

## **Supplied:**

- (1) Jig
- (11) Titan anchors

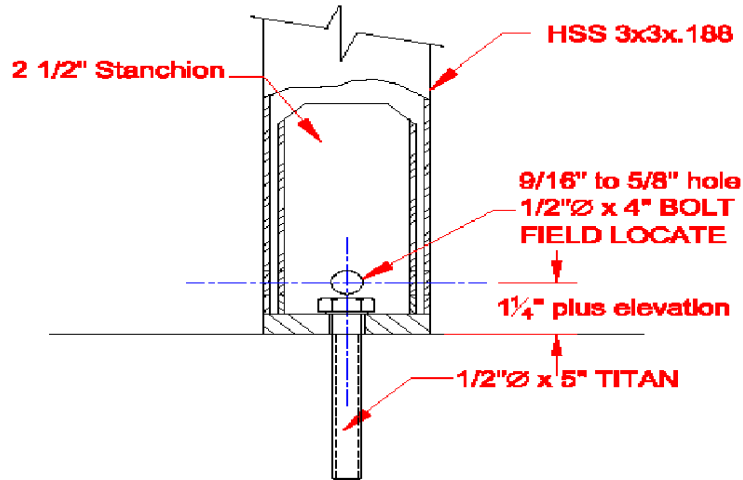
## **Miscellaneous hand/power tools necessary:**

- Impact with  $\frac{3}{4}$ " socket
- Two  $\frac{3}{4}$ " wrenches
- Alignment pin
- Crane rigging
- Masonry drill with  $\frac{1}{2}$ " Masonry bit minimum length
- Drill with  $\frac{1}{2}$ ",  $\frac{9}{16}$ " and  $\frac{5}{8}$ " bit
- Rotary laser
- Step ladder
- Air Compressor & blow nozzle (or bottle brush)

## **Installation Procedure:**

1. Layout stanchion template per drawing T-1.00 and bolt together using supplied  $\frac{3}{8}$ " bolts
2. Locate template on footing pad using main sewer line as an indexing point.-NOTE  
IMPORTANT- Square or parallel template to control joints in concrete
3. Place stanchions in rectangular notches in template(careful not to move template)
4. Drill  $\frac{1}{2}$ " hole through each stanchion to required 5" depth in locations specified on diagram T-1.00 \*do not tighten anchors in stanchions\*
5. Drill  $\frac{1}{2}$ " hole in one of the front door stanchions
  - (1) Drive Titan anchor in 1"
  - (2) Move to electrical side of LOO and repeat the above
6. Using a laser level or long beam level, mark elevations at each stanchion point
7. Drilling  $\frac{9}{16}$ " holes through stanchions.- foundation should be poured flat and level but some adjustment for sloped foundation is possible with laser leveling and drilling bolt holes in stanchions.-

- (1) High point elevation the hole will be drilled  $1\frac{1}{4}$ " up from the bottom of the stanchion baseplate. Remainder will be  $1\frac{1}{4}$ " plus the elevation difference.
- (2) Holes go through "ear" sides of stanchions



8. Install Stanchions PLUMB AND LEVEL in designated locations
  - (1) Use  $\frac{3}{4}$ " impact wrench to install Titan masonry anchors.
  - (2) Note direction of  $\frac{9}{16}$ " thru bolt holes all run lengthwise with LOO
  - (3) Stanchions themselves must be installed as plumb as possible. Use washers if necessary.
9. Make sure  $4\frac{1}{2}$ " sewer line does not exceed more than 1" above the foundation and water line is no more than 12" above foundation
10. Rig eye bolts on top of LOO to one central picking point.
  - (1) \*Note\* In the width of the LOO, optimum angle between slings/chains is 60 degrees.
  - (2) Make sure sewer line has boot before lowering the LOO
11. Pick Loo and set on stanchions as follows in order
  - (1) Align toilet carrier boot with main sewer line
  - (2) As columns slide onto stanchions, install bolts in holes as they align
  - (3) Once the majority of the bolts are in, it may be necessary to jack certain columns to align holes. DO NOT LIFT AT LOUVERS THEY WILL BEND.
  - (4) The LOO must sit level for the front door to operate properly.
12. Tighten all bolts and sewer line boot
13. Hook up water main
14. Hook up main electrical
15. Adjust front door closer if necessary. Follow provided instructions.
16. Silicone seal between water closet chase and concrete. Use backing rod for large gaps

**Technical assistance is available by calling (877)-902-6424**



**Jig Detail - Recessed Handwash Drain**





**Jig Detail- Forms**





**Jig Detail- Slab**





Jig Detail- Slab 2