NOTES
1. Tapstand to be positioned centrally with tap spouts exactly 50cm above wooden pallet surface.
2. Pallet drain and drainage channel to be filled with 20cm deep layer of coarse gravel with 1% slope to soakage pit.
3. Soakage pit dimensions to be determined by on-site soil infiltration test (see Appendix 20 of Engineering in Emergencies. Alternatively refer to the table of typical soil infiltration rates on page 213 of the UNHCR WASH Manual).

Gravel filled soak away pit installed under pallets. Note that in sandy, sandy loam and silt loam soils it may not be necessary to install additional drainage trench and pit. See notes below.

Gravel filled drainage channel to be covered with plastic sheeting and 30cm compacted soil. Alternatively a 6" PVC drainage pipe may be used to convey water to soak away.

Gravel filled soakage pit covered with plastic sheeting and 30cm compacted soil.
Gravel filled soak away pit installed under pallets. Note that in sandy, sandy loam and silt loam soils it may not be necessary to install additional drainage trench and pit. See notes on sheet 1.

Soakage trench and pit to be covered with plastic sheeting and 30cm compacted soil.

Soakage pit dimensions to be verified by on-site soil infiltration test.
1. Area of 6m x 3m to be cleared and perfectly leveled.

2. The size of the soakage pit should be calculated based on the number of users and site soil infiltration capacity following the procedure in Appendix 20 of Engineering in Emergencies. Alternatively refer to the table of typical soil infiltration rates on page 213 of the UNHCR WASH Manual.

   If the soil type is sand, sandy loam, or silt loam it is not necessary to construct an additional drainage trench and the tapstand may drain through the gravel base below the pallets. Note: Silty loam clean water infiltration rate = 240-480 litres/m$^2$/day
3. Add a 20cm deep layer of coarse gravel into the platform base and drainage channel.

Ensure the surface is perfectly leveled.

4. Pallet surface level should be 5-8cm above ground level.

Tap spouts should be exactly 50cm above pallet surface level.
The drainage channel and drainage pit should be covered with plastic sheeting and 30cm of compacted soil. Note that a 2m long 6” PVC drainage pipe may be used in place of the drainage channel.

**ALTERNATIVE DESIGN #2**

If pallets are unavailable the gravel drainage layer may be raised to form a platform. The gravel bed should be at least 5cm above ground level.