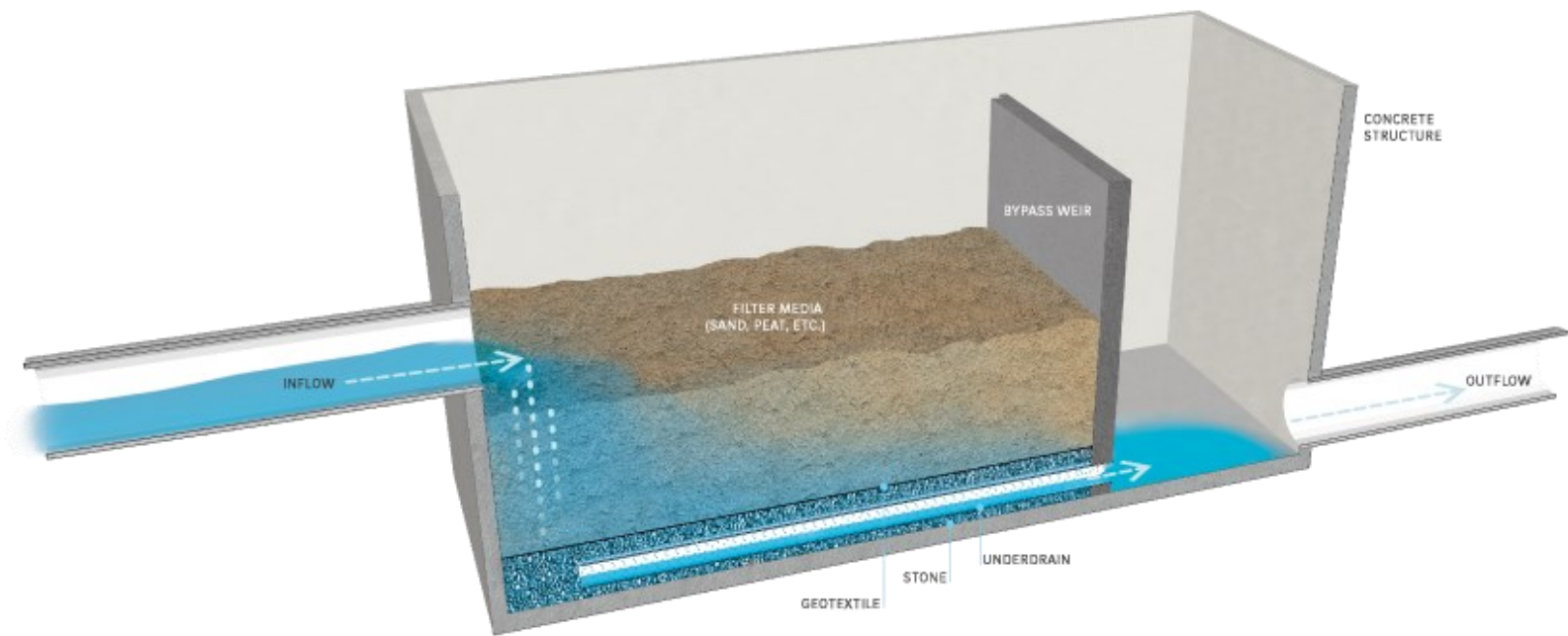


Visual Guide to Sand Filter Systems



#57

or 67

ASTM #4—1 in
(Avg 1/2 inch.
with some 3/4
inch.)



#57

or 67

ASTM #4—1 in
(Avg 1/2 inch.
with some 3/4
inch.)



Pea Gravel

ASTM #8, 89 or 9



Sand

ASTM C33



Sand Filter

- _____ Was the subgrade over or under compacted?
- _____ If used was Impermeable liner welded together and fixed or entrenched properly?
- _____ Was Geotextile liner entrenched properly if used?
- _____ Was underdrain no smaller in diameter than 4"?
- _____ Was underdrain perforated with holes smaller than #57 aggregate?
- _____ Was underdrain installed WITHOUT wrapping? (Old Criteria wrapping was not prohibited but it is in the New Criteria)
- _____ Was the underdrain correctly installed without an orifice plate at it's outfall?
- _____ Are cleanouts installed at every bend greater than or equal to 90 degrees and/or every 100' linear feet?
- _____ Are cleanouts solid PVC pipe and NOT perforated?
- _____ Was #57 or #67 rock clean, washed aggregate in a layer a minimum of 8" deep?
- _____ If used, was Pea Gravel clean, washed aggregate in a layer 4" deep?
- _____ If a Pea Gravel layer was NOT used, was a permeable geotextile placed between the #57 or #67 layer and the BSM material?
- _____ Was BSM to the correct mix design (per City webpage and in a layer at minimum of 18" deep)?
- _____ If rip rap used as an energy dissipator, is it buried under 6" of soil (per Criteria Ch 9, Sec 7.1)?
- _____ Was the top of BSM no more than 3' below the outlet?
- _____ If Forebay used is there a minimum 3" drop at the entrance into the basin?
- _____ For stabilization, was the basin correctly vegetated or covered in non-floatable mulch? (Detail) (ALL wood mulch not allowed)
- _____ Were all inlet Manholes properly labelled with 'No Dumping - Drains to Poudre River'?