



Centralized Stormwater Structural Control Measures

Centralized Stormwater Structural Control Measures (SCM)	
<p>Description: Stormwater system is moderate to large in size, accepts runoff from mixed land use drainage areas or drainage area greater than 10.0 acres.</p>	
Structural Control Measure Type	Description
<p>Bed Filter</p> <p><i>(Examples: Underground Sand Filter, Surface Sand Filter, Perimeter Sand Filter, Organic Media Filter)</i></p>	<ul style="list-style-type: none"> • A flow-through structure that uses granular media (e.g. sand or activated alumina) to actively filter stormwater to remove pollutants. • Little to no volume loss occurs through filtration process. • Filtration is controlled by flow rate through media, runoff discharged via outlet or underdrain. • Typically, moderate sized centralized SCMs but can be designed as small decentralized SCMs to treat small areas of imperviousness. • Treatment Process: Media Filtration. • Vegetation: No. • Location: Above ground or below ground. • Type: Centralized
<p>Detention Basin</p> <p><i>(Examples: Detention Pond)</i></p>	<ul style="list-style-type: none"> • A flow through basin with discrete inlets and outlets to detain stormwater runoff for some minimum time to reduce peak flows. • Must include at least one outlet at base of basin to allow complete draining between storms. • Little to no volume loss via infiltration. • Treatment Process: Particle Capture by settling. • Vegetation: Optional • Location: Above Ground • Type: Centralized
<p>Dry Basin</p> <p><i>(Examples: Extended Detention, Basin Dry Pond)</i></p>	<ul style="list-style-type: none"> • A flow through basin with discrete inlets and outlets to detain stormwater runoff for some minimum time to reduce peak flows. • Must include at least one outlet at base of basin to allow draining between storms. • Footprint is pervious and infiltration capacity of base is maintained to consistently infiltrate some fraction of volumes to unsaturated zone. • Moderate distribution of grass and/or tree species in basin likely and acceptable. No wetland/riparian vegetation. • Treatment Process: Infiltration, Particle Capture • Vegetation: Yes • Location: Above Ground • Type: Centralized

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<p>Infiltration Basin</p> <p><i>(Examples: Extended Detention, Basin Dry Pond)</i></p>	<ul style="list-style-type: none"> • A flow through SCM with highly permeable substrate (aggregate or rock) designed to store and infiltrate significant volumes of stormwater into unsaturated zone. • Little to no surface detention storage • Vegetation distribution should be limited to grass. No trees or shrubs. • Treatment Process: Infiltration • Vegetation: Yes, Minimal (<10%) • Location: Above Ground • Type: Centralized
<p>Wet Basin</p> <p><i>(Examples: Wet Pond, Retention Pond, Wetland Swale, Wet Extended Retention Pond, Stormwater Wetlands, Constructed Wetlands)</i></p>	<ul style="list-style-type: none"> • A flow through basin with discrete inlets and outlets to detain stormwater runoff for some minimum time to reduce peak flows. • One or more outflow offices may exist at different elevations. Lowest outlet elevation sets wet pool capacity. • Dense vegetation is common, specifically wetland species or riparian species with very high densities. • Treatment Process: Bio-Chemical Cycling • Vegetation: Yes, dense wetland/riparian species. • Location: Above Ground • Type: Centralized
<p>Media Filter</p> <p><i>(Examples: Proprietary Subsurface Filtration Systems: Stormfilter® Perk Filter™ Jellyfish® Tree Box Biofilter (TreePod™), FloGard® Downspout Filter)</i></p>	<ul style="list-style-type: none"> • A proprietary subsurface flow-through structure that uses a membrane or media to actively filter stormwater pollutants. • Proprietary models may be selected to target the specific removal of the pollutants of concern. • Pollutant load reductions achieved but no stormwater volume reduction occurs (no infiltration). • May be within a confined space. • Treatment Process: Media Filtration • Vegetation: No • Location: Primarily Below Ground, some Above Ground. • Type: Centralized

Centralized Stormwater Structural Control Measures

Treatment Vault

(Examples: hydrodynamic separator, solids separator/removal vaults, flow separation vaults, wet vaults.)

- A subsurface flow-through structure that physically separates sediment, trash leaf litter, debris or other particulates by separation or settling.
- Proprietary models may be selected to target the specific removal of the pollutants of concern.
- Pollutant load reductions achieved but no stormwater volume reduction occurs (no infiltration).
- May be within a confined space.
- **Treatment Process:** Particle Capture
- **Vegetation:** No
- **Location:** Primarily Below Ground, usually confined space.
- **Type:** Centralized

Please direct questions and requests for additional information to:

Planning & Building Stormwater Program Manager: (805) 781-5602 or email Stormwater.scm@co.slo.ca.us