	MODEL STORMWATER TREATMEN	FACILITIES CONSTRUCTION INSPECTION CHECKLIST	
	PROJECT INFORMATION	PERMIT No:	
YOUR	Location:	IMPs ON-SITE: Total # of IMPs	
LOGO HERE		☐ Bioretention Facilities ☐ Flow-through Planters	
	Inspector: Phone:	Dry Wells	
	Engineer: Phone:	Other	
ENGINEERING INSPECTION REQUEST LINE			
[Edit instructions per local procedures] Call and leave message for assigned inspector prior to midnight on the day before the requested inspection date. Provide City Permit number, address of project, and type of inspection requested. Failure to provide this information may result in the inspection not being made. To obtain an approximate time for the inspection, call the assigned inspector between 8:00 and 8:30 am on the morning of your requested inspection.			
IMP GROUP 1 includes IMP#			
IMP GROUP 2 includes IMP#			
IMP GROUP 3 includes IMP#			
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IMP GROUP 4 includes IMP#			
IMP GROUP 5 includes IMP#			
IMP GROUP 6 includes IMP#			
IMP GROUP 7 includes IMP#			

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INSPECTION SEQUENCE REQUIREMENTS

LAYOUT inspection is required prior to beginning the excavation.

EXCAVATION inspection is required prior to backfilling any materials or pipe installation.

OVERFLOW INLET or SURFACE CONNECTION TO STORM DRAIN inspection is required prior to backfill of any materials.

CONNECTION TO STORM DRAIN or OUTLET ORIFICE inspection is required prior to backfilling IMP with any materials.

DRAIN ROCK/SUB-DRAIN inspection is required prior to soil media mix (test) and installation.

SOIL MEDIA MIX inspection (test) is required prior to soil media installation.

SOIL MEDIA INSTALLATION inspection is required prior to irrigation installation.

IRRIGATION inspection is required prior to plant materials installation.

PLANTING inspection is required prior to FINAL INSPECTION.

Items to be Inspected

Layout (Certification may be required)

- ☑ Square footage of the facility meets or exceeds minimum shown in Stormwater Control Plan.
- Site grading and grade breaks are consistent with the boundaries of the tributary Drainage Management Area(s) shown in the Stormwater Control Plan.
- Preliminary inlet elevation of the facility is low enough to receive drainage from the entire tributary Drainage Management Area(s).
- ✓ Locations and elevations of overland flow or piping, including roof leaders, from impervious areas to the facility have been laid out and any conflicts resolved.
- Rim elevation of the facility is laid out to be level all the way around, or elevations are consistent with a detailed cross-section showing location and height of interior dams.
- ☑ Locations for vaults, utility boxes, and light standards have been planned so that they will not conflict with the facility.
- ✓ Facility protected as needed from construction-phase runoff and sediment.

Excavation (Certification may be required)

- Excavation conducted with materials and techniques to minimize compaction of soils within the facility area.
- ☑ Excavation is to proper area and depth.
- ✓ Slopes or side walls protect from sloughing of native soils into the facility.
- ✓ Moisture barrier, if needed, added to protect adjacent pavement or structures.
- ✓ Native soils at bottom of excavation are ripped or loosened to promote infiltration.

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Overflow Inlet/Surface Connection to Storm Drainage

- ☑ Overflow inlet is at specified elevation (typically no lower than two inches below facility rim).
- ✓ No knockouts or side inlets are in overflow riser.
- ☑ Inlet location selected to minimize surface flow velocity (near and offset from inlet recommended).
- ☑ Grating selected to exclude mulch and litter (beehive or atrium-style grates with ¼" openings recommended).
- Inlet is connected to storm drain via appropriately sized piping.
- ✓ Facility emergency overflow path designed to avoid flood damage.

Underground Connection to Storm Drain/Outlet Orifice

- ☑ Perforated pipe underdrain (PVC SDR 35 or approved equivalent) is installed with holes facing down.
- ☑ No filter fabric is installed around the underdrain.
- Perforated pipe is connected to storm drain (treatment-only) or orifice (treatment-plus-flow-control) per plans.
- ☑ Underdrain pipe is at elevation shown in plans. In facilities allowing infiltration, preferred elevation is above native soil (but low enough to be covered at least 2 inches by Class 2 perm); in sealed planter boxes or bioretention facilities with liners, preferred elevation is as near bottom as possible.
- ☑ Cleanouts are in accessible location(s) and connected via sweeps.
- Structures (arches or large diameter pipes) for additional subsurface storage are installed as shown in plans and specifications and have the specified volume.

Drain Rock/Subdrain

- Rock is installed as specified. Class 2 permeable, Caltrans specification 68-1.025 recommended, or 4"-6" pea gravel is installed at the top of the crushed rock layer.
- Rock is smoothed to a consistent top elevation. Depth and top elevation are as shown in plans, accounting for depth of soil mix and mulch to follow and required top reservoir depth.
- ✓ No filter fabric is placed between the subdrain and soil mix layers.

Soil Media Mix (Certification may be required)

- Soil media mix is as specified. Quality of mix is confirmed by delivery ticket or on-site testing as appropriate to the size and complexity of the job.
- ☑ Mix is installed in lifts not exceeding 12".
- Mix is not compacted during installation but may be wetted thoroughly to encourage consolidation.
- Mix is smoothed to a consistent top elevation. Depth of mix (18" minimum) and top elevation are as shown in plans, accounting for depth of mulch to follow and required top reservoir depth.

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Irrigation

- ☑ Irrigation system is installed so it can be controlled separately from other landscaped areas. Smart irrigation controllers and drip emitters are recommended.
- ✓ Spray heads, if any, are positioned to avoid direct spray into outlet structures.

Planting

- ☑ Plants are installed consistent with the approved planting plan.
- ☑ Any trees and large shrubs are staked securely.
- ✓ No fertilizer is added. Compost tea may be used.
- ☑ No native soil or clayey material are imported into the facility with plantings.
- 1" to 2" mulch may be applied following planting. Mulch selected to avoid floating.
- ✓ Maintain final design elevation of soil mix following planting.
- ✓ Curb openings are free of obstructions.

Final Engineering Inspection

- ☑ Drainage Management Area(s) are free of construction sediment; landscaped areas are stabilized.
- Inlets are installed to provide smooth entry of runoff from adjoining pavement, have sufficient reveal (drop) from the adjoining pavement to the top of the mulch or soil mix, and are not blocked.
- ☑ Inflows from roof leaders and pipes are connected and operable.
- ☑ Temporary flow diversions are removed.
- ☑ Rock or other energy dissipation at piped or surface inlets is adequate.
- ✓ Overflow outlets are configured to allow the facility to flood and fill to near rim before overflow.
- ✓ Plantings are healthy and becoming established.
- ✓ Irrigation is operable.
- ✓ Facility drains rapidly; no surface ponding is evident.
- Any accumulated construction debris, trash, or sediment is removed from facility.

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