

C.3 FACILITIES INSPECTION CHECKLIST

(Updated 7.7.2021)

REVIEW:

- CCCPW STANDARD PLANS CD22, CD50
- Contra Costa Clean Water Program – Stormwater C.3 Guidebook
- Contra Costa Clean Water Program – website: [Homepage - Contra Costa Clean Water Program \(cccleanwater.org\)](http://www.cccleanwater.org)

SUBMITTALS

- Permeable Class II (CLII) Perm Rock, OGCR acceptable but requires 4-6" pea gravel
- Engineered Soil Supplier – need to meet spec's from BASMAA or from certified list on CCCWP website
- Dissipation Rock (if applicable)

PRE-CON MEETING DISCUSSION TOPICS:

- Mulch preferred: use aged mulch compost or pea gravel (3 in. layer)
- Sampling/testing rock, truck tags
- Inlet – grouting/sloping
- Finish inlet elevation – 6" above engineering soil
- Finish bio berm elevation, > inlet grate elevation
- Dissipation rock needs for all drains & surface entrances into bio
- O&M Plan/Manual – confirm submitted
- Release of occupancy – contingent on C.3 facilities being completed

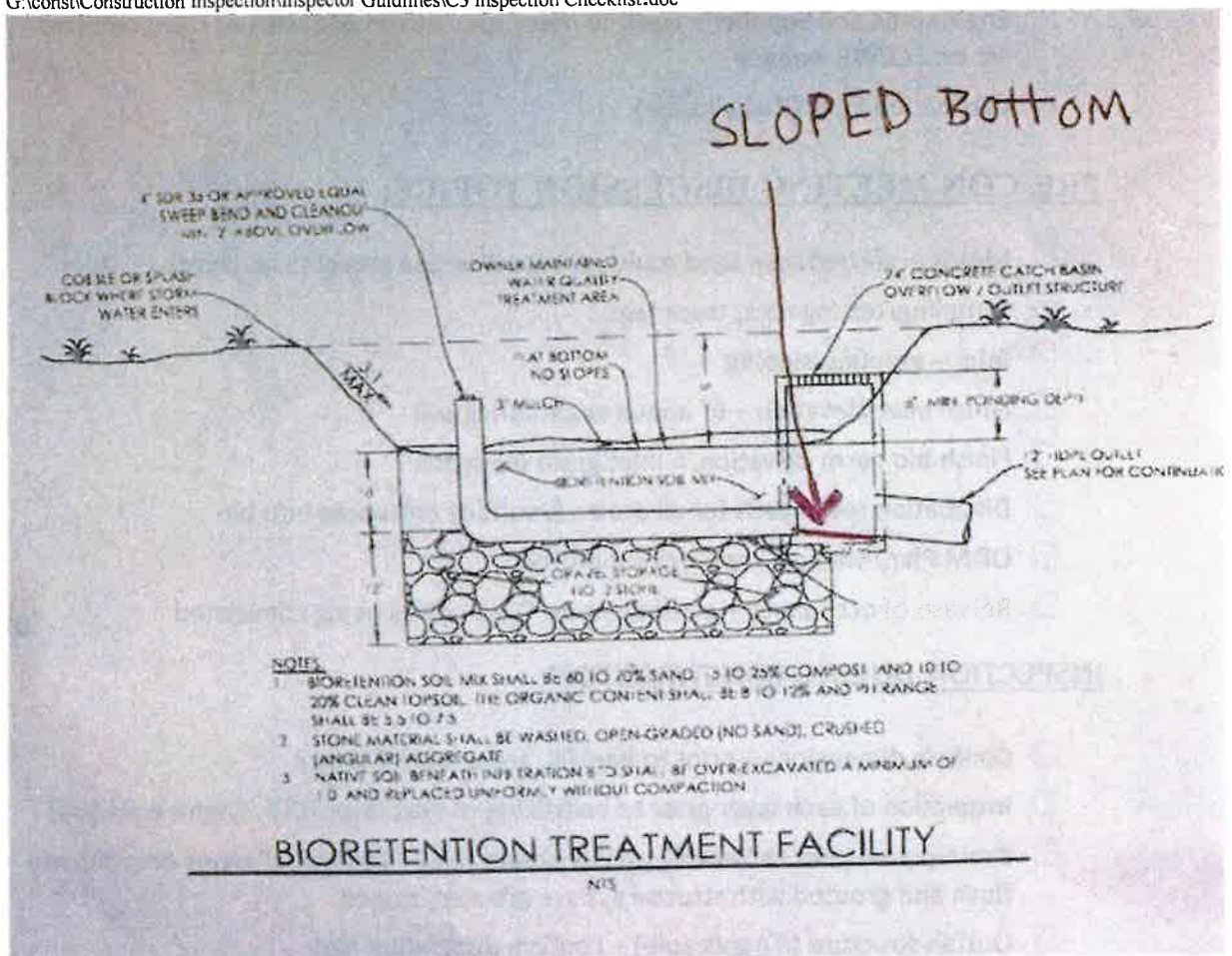
INSPECTION DURING CONSTRUCTION:

- Confirm dimensions – prior to backfill, acceptable if larger
- Inspection of each layer prior to backfilling of next layer (CLII, Engineered Soil)
- Drain-pipe – prior to backfill, positive drain Inlet – confirm all pipes entering are flush and grouted with structure, base grouted/sloped
- Outfall structure (if applicable) – confirm dissipation rock
- Cleanout – per plan, caps installed
- Bubbler cap (if applicable) – roof or area drains
- Vegetation Installation, type, and plant count per plan.
- Application of a 2 to 3 inch layer of composted mulch or small cobbles as cover
- Irrigation Inspection - water test
- "No Dumping Leads to Bay/Creek" Placards installed on all drainage inlet boxes

FINAL INSPECTION:

- Final Walk – attended by inspector, supervisor, developer/contractor, and County Storm Water Inspector. Punch list created if applicable
- Completion Memo – sent to Engineering Services upon completion of punch list items
- Occupancy hold released at this time, building permit signed off by County Public Works inspector (if applicable) under section: AGENCY APPROVALS

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Bio-retention Soil Media Specifications and Recommended Soil+Mulch Suppliers

[compiled by John Steere, Watershed planner, Contra Costa County Watershed Program, February 4, 2021]

1. Bio-retention Soil Media Specifications

Recommended specifications for bio-retention soils. Contained in "[Model Biotreatment Soil Media Specifications–MRP 2.0](#)" (BASMAA letter, Feb. 2, 2016)

2. Recommended Soil+Mulch Suppliers

The CCCWP's [Stormwater C.3 Guidebook](#) in "Appendix B: Soils, Plantings, and Irrigation for Bioretention Facilities" lists soil mix suppliers with links to the companies' websites.

The [soil specification approved April 18, 2016](#) includes the following statement: "Local soil products suppliers have expressed interest in developing 'brand-name' mixes that meet these specifications. At their sole discretion, municipal construction inspectors may choose to accept test results and certification for a 'brand-name' mix from a soil supplier."

For the convenience of the land development community, the Contra Costa Clean Water Program invited local soil suppliers to request listing here. The following suppliers submitted test results and certifications. Listing does not imply or guarantee that the mix as designed or delivered meets all requirements of the soil specification. Contractors and construction inspectors should independently obtain and review the required information before approving installation of a 'brand-name' soil mix.

[*my recommendation*: Based on prior experience, the following three soil suppliers for obtaining bio-retention soils. Please note that "aged compost mulch" can be the same material that soil suppliers use for the compost fraction when they make the bioretention soil mix, (per Dan Cloak, 2/4/2021)]:

- [Contra Costa Topsoil](#) 5030 Imhoff Drive, Martinez; (925) 228-4007
- [L.H. Voss](#) (<https://lhvoss.com/>) 5965 Dougherty Road, Dublin. (925) 560-9920
- [American Soil and Stone](#) 2121 San Joaquin Street, Building A, Richmond; 510-292-3000

[If the bio- retention soil mix recommended by the SF Bay Regional Water Quality Control Board is not available from the previous three suppliers, contractors/applicants should check with:]

- [Redi-Gro](#)
- [Marshall Brothers Enterprises](#)