



SILVA CELL SYSTEM 3X

Treatment Measures

retaining areas)

Bioretention area

Flow-through planter

Tree Well Filter or Trench

Rainwater harvest/use (e.g.,

with bioretention soils

cistern or rain barrel for

C.3.d treatment)

Infiltration trench

Other Silva Cells

designated use, sized for

Infiltration well/dry well

System (e.g. vault or large

diameter conduit over drain

Subsurface Infiltration

Non-LID Treatment Methods

Proprietary high flow rate

September 2019

LID Treatment

None (all impervious

surface drains to self-

(A) SILVA CELL SYSTEM (DECK, BASE, AND POSTS)

(B) SUBGRADE, COMPACTED

C) GEOTEXTILE FABRIC, PLACED ABOVE SUBGRADE

D) 4" MIN AGGREGATE SUB BASE, COMPACTED TO 95% PROCTOR

E) SILVA CELL BASE SLOPE, 10% MAX

F) 1" TO 6" SPACING BETWEEN SILVA CELLS AT BASE

G) ANCHORING SPIKES, CONTACT DEEPROOT FOR ALTERNATIVE

H GEOGRID, WRAPPED AROUND PERIMETER OF SYSTEM, WITH 6" TOE (OUTWARD FROM BASE) AND 12" EXCESS (OVER TOP OF DECK)

CABLE TIE, ATTACHING GEOGRID TO SILVA CELL AT BASE OF) UPPER LEG FLARE, AS NEEDED

BIO-TREATMENT SOIL. SOIL SHALL INFILTRATE RUNOFF AT A MIN. J) RATE OF 5" PER HOUR. SEE SOIL SPECS IN APPENDIX K OF THE SANTA CLARA COUNTY C.3 STORMWATER TECHNICAL GUIDANCE.

K) COMPACTED BACKFILL, PER PROJECT SPECIFICATIONS

L) GEOTEXTILE FABRIC TO EDGE OF EXCAVATION

RIBBON CURB AT TREE OPENING (TO BE USED WITH PAVERS OR (") ASPHALT)

N THICKENED EDGE AT TREE OPENING (TO BE USED WITH CONCRETE)

*\PAVEMENT AND AGGREGATE BASE PER PROJECT ** *MINIMUM PAVEMENT PROFILE OPTIONS TO MEET H-20 LOADING

+ AGGREGATE BASE COURSE 4" CONCRETE + 4" AGGREGATE 3" PAVER + 12" AGGREGATE 4" ASPHALT + 12" AGGREGATE 2.6" PAVER + 5" CONCRETE

DEEPROOT ROOT BARRIER, 12" OR 18", DEPTH DETERMINED BY P) THICKNESS OF PAVEMENT SECTION, INSTALL DIRECTLY ADJACENT TO CONCRETE EDGE RESTRAINT
PLANTING SOIL BELOW ROOT BALL, COMPACTED WELL TO PREVENT SETTLING

R) ROOT BALL

S) TREE OPENING TREATMENT, PER PROJECT SPECIFICATIONS

T) DEEPROOT WATER AND AIR VENT, ROOTBALL, WHEN REQUIRED

U) DEEPROOT WATER AND AIR VENT, WHEN REQUIRED

UNDERDRAIN SYSTEM, WHEN REQUIRED (LOCATION AND DETAILS J BY OTHERS)

1. EXCAVATION SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE HEALTH AND SAFETY REGULATIONS 2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS

W 12" MIN. CLASS II PERMEABLE ROCK PER CALTRANS SPECIFICATIONS

3. PROVIDE SUPPLEMENTAL IRRIGATION

HMP APPLICABILITY MAP

CITY OF CUPERTINO

Continuously Hardened Channe

Catchments Draining to Hardened Channel and/or Tidal Areas

Catchments and Subwatersheds ≥ 65% Imperviousness

Roads and Highways

Subwatersheds less than 65%

Reservoirs in Santa Clara Basin

Jurisdictional Boundary

Major Creeks

HYDROMODIFICATION MAP

PROJECT IS EXEMPT FROM HYDROMODIFICATION BECAUSE IT IS LOCATED IN A WATERSHED THAT IS GREATER THAN 65% IMPERVIOUS.

CUPERTING

City of Cupertino

Completed by:

Permit Provision C.3 Impervious Surface Data Form Which Projects Must Comply with Stormwater Requirements?

All projects that create and/or replace 10,000 sq. ft. or more of impervious surface on the project site must fill out this worksheet and submit it with the development project application. All restaurants, auto service facilities, retail gasoline outlets, and uncovered parking lot projects (stand-alone or part of another development project, including the top uncovered portion of parking structures) that create and/or replace 5,000 sq. ft. or more of impervious surface on the project site must also

Interior remodeling projects, routine maintenance or repair projects such as re-roofing and re-paving, and single family homes that are not part of a larger plan of development are NOT required to complete this

An impervious surface is a surface covering or pavement that prevents the land's natural ability to absorb and infiltrate rainfall/stormwater. Impervious surfaces include, but are not limited to rooftops, walkways, paved patios, driveways, parking lots, storage areas, impervious concrete and asphalt, and any other continuous watertight pavement or covering. Pervious pavement, underlain with pervious soil or pervious storage material (e.g., drain rock), that infiltrates rainfall at a rate equal to or greater than surrounding unpaved areas OR that stores and infiltrates the water quality design volume specified in Provision C.3.d of the Municipal Regional Stormwater Permit (MRP), is not considered an impervious surface.

For more information regarding selection of Best Management Practices for stormwater pollution prevention or stormwater treatment contact:_

1. Project Information

Project Name: The Rise

Project Address: 10123 N. Wolfe Rd. Cupertino, CA 95014 Cross Streets: Wolfe Road, I-280 South

Applicant/Developer Name: Vallco Property Owner, LLC.

Project Phase(s): ____of___ Engineer: _Sandis Project Type (Check all that apply):
☐ New Development
☐ Redevelopment

☐Private ☐Public Residential Commercial Industrial Mixed Use Institutional ✓ Restaurant ☐ Uncovered Parking ☐ Retail Gas Outlet ☐ Auto Service (SIC code) _

Project Description: Development of a mixed use project including office space, retail, residential units, and supporting infrastructure including utilities, site work and stormwater treatment.

Project Watershed/Receiving Water (creek, river or bay):_ Calabazas Creek

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a. Total Site Area: 49.48 acres		b. Total Site Area Disturbed: 49.48 (including clearing, grading, or excavating)			acres
Site Totals	Total Existing (Pre-project) Area (ft²)	Existing Area Retained ¹ (ft ²)	Existing Area Replaced ² (ft ²)	New Area Created ² (ft ²)	Total Post- Project Area (ft ²)
c. Total Impervious Area (IA)	1,960,173	0	1,871,405		1871405
d. Total new and replaced impervious area		1,871,405			
e. Total Pervious Area (PA) ³	195,130				283,898
f. Total Area (IA+PA)	2,155,303				2,155,303

3. State Construction General Permit Applicability:

treatment) apply to the entire site

a. Is #2.b. equal to 1 acre or more? ✓ Yes, applicant must obtain coverage under the State Construction General Permit (see https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html) ☐ No, applicant does not need coverage under the State Construction General Permit.

4. MRP Provision C.3 Applicability: a. Is #2.d. equal to 10,000 sq. ft. or more, or 5,000 sq. ft. or more for restaurants, auto service

facilities, retail gas outlets, and stand-alone uncovered parking? Yes, C.3. source control, site design and treatment requirements apply No, C.3. source control and site design requirements may apply – check with local agency b. For redevelopment projects, is #2.g. equal to 50% or more? Yes, C.3. requirements (site design and source control, as appropriate, and stormwater

□ No, C.3. requirements only apply to the impervious area created and/or replaced c. Does the project create and/or replace 5,000 sf or more of impervious surface parking? ✓ Yes, C.3. requirements may apply to the entire site – check with local agency

5. Hydromodification Management (HM) Applicability: a. Does the project create and/or replace one acre or more of impervious surface AND is the total

post-project impervious area greater than the pre-project (existing) impervious area? ✓ Yes (continue) ☐ No – exempt from HM, go to page 3 b. Is the project located in an area of HM applicability (green area) on the HM Applicability

Map? (www.scvurppp.org/hmp-map) ☐ Yes, the project must implement HM requirements ✓ No, the project is exempt from HM requirements

1 "Retained" means to leave existing IA in place. An IA that goes through maintenance (e.g., pavement resurfacing/slurry seal/grind), but no change in grade is considered "retained". ² The "new" and "replaced" IA are based on the total area of the site and not specific locations on site. For example, impervious parking created over a pervious area is not "new" IA, if an equal amount of pervious area replaces IA somewhere else on the site. Constructed IA on a site that does not exceed the total pre-project IA will be considered "replaced" IA. A site will have "new" A only if the total post-project IA exceeds the total pre-project IA (total post-project IA – total pre-project IA = New IA). ³ Include bioretention areas, infiltration areas, green roofs, and pervious pavement in PA calculations.

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6. Selection of Specific Stormwater Control Measures: Site Design Measures Source Control Measures

Minimize land disturbed (e.g., protect trees and soil) Minimize impervious surfaces (e.g., reduction in post-project impervious

for designated use) 5

Preserved open space:

Protected riparian and

wetland areas/buffers

(Setback from top of bank:

_____ ac. or sq. ft. (circle

Covered dumpster area, drain to sanitary sewer ✓ Sanitary sewer connection or accessible cleanout for Minimum-impact street or

parking lot design (e.g., pool/spa/fountain6 parking on top of or under ✓ Beneficial landscaping (minimize irrigation, runoff Cluster structures/ pavement pesticides and fertilizers; promotes treatment) Disconnected downspouts (direct runoff from roofs.

Outdoor material storage sidewalks, patios to protection landscaped areas) Covers, drains for loading Pervious pavement Green roof

docks, maintenance bays, ✓ Maintenance (pavement Other self-treating⁴ area sweeping, catch basin (e.g., landscaped areas) cleaning, good Self-retaining⁴ area housekeeping) Interceptor trees³

Storm drain labeling Rainwater harvesting and Other___ use (e.g., rain barrel, cistern

✓ Wash area/racks, drain to

sanitary sewer⁵

tree box filter⁷ Proprietary high flow media filter (sand, compost, or proprietary media)7 Vegetated filter strip⁸ Extended detention basin⁸ Vegetated swale⁸

Other Flow Duration Controls for Hydromodification Management (HM)

Extended Underground tank or Bioretention with outlet Other See SCVURPPP C3 Handbook for definitions. https://scvurppp.org/2016/06/20/c-3-stormwater-handbook-june-2016/

Optional site design measure; does not have to be sized to comply with Provision C.3.d treatment requirements

These treatment measures are only allowed as part of a multi-step treatment process (i.e., for pretreatment) Page 3 of 4 SCVURPPP C.3. Data Form

These treatment measures are only allowed if the project qualifies as a "Special Project".

7. Stormwater Treatment Measure (STM) Sizing for Projects with Treatment Requirements Stormwater Treatment Measure (STM) Hydraulic Sizing Criteria Used Choose from list Choose from list *Key: 1a: Volume – WEF Method 1b: Volume - CASQA BMP Handbook Method 2a: Flow – Factored Flood Flow Method 2b: Flow – CASQA BMP Handbook Method 2c: Flow – Uniform Intensity Method 3: Combination Flow and Volume Design Basis 8. Alternative Certification: Was the treatment system sizing and design reviewed by a qualified thirdparty professional that is not a member of the project team or agency staff? Yes No Name of Third-party Reviewer Robin Lee, PE - Schaaf and Wheeler 9. Operation & Maintenance Information A. Property Owner's Name Vallco Property Owner, LLC. B. Responsible Party for Stormwater Treatment/Hydromodification Control O&M: 2600 El Camino Real, Suite 410 Palo Alto California 94306 b. Address: c. Phone/E-mail: This section to be completed by Municipal staff **O&M Responsibility Mechanism** Indicate how responsibility for O&M is assured. Check all that apply: O&M Agreement Other mechanism that assigns responsibility (describe below): STAFF ONLY **Public Works Department** Community Development Department Planning Division: _____ Building Division: ____ Other (Specify): Return form to: Public Works Department Data entry performed by: Page 4 of 4 SCVURPPP C.3. Data Form September 2019

BUILD ON.

SCVURPPP C.3. Data Form

DRAWN BY: APPROVED BY: DRAWING NO .: 223237

September 2019

Exp. 9/30/25

PROFESS/ON DATE B REV-1 SB-35 APPLICATION REVISIONS 08/06/2018 REV-2 SB-35 APPLICATION CONFORM SET | 09/15/2018 | REV-3 SB-35 MODIFICATION DOCUMENTS 03/23/2022 REV-4 SB-35 MODIFICATION DOCUMENTS

STORMWATER TREATMENT CALCULATIONS

TENTATIVE SUBDIVISION MAP VALLCO TOWN CENTER CALIFORNIA CUPERTINO

SHEET TM8.1