**MISSION ROCK**

**Proposed Lightweight Cellular Concrete (“LCC”) Approved Criteria  
Public Works / Bureau of Street Use and Mapping / Permits Division COA #8**

***Discussion Draft - 2/13/20***

This document defines the Approved Criteria for LCC Infrastructure pursuant to the Public Improvement Agreement (Mission Rock Phase I) by and between the City and County of San Francisco (“City”) acting by and through its Department of Public Works, the City by and through the San Francisco Port Commission (“Port”), and Mission Rock Horizontal Sub (Phase I) LLC (“Subdivider”) dated \_\_\_\_\_\_\_\_ (“PIA”) and Public Works - Bureau of Street Use and Mapping - Permits Division Condition of Approval #8 of Public Works Order No. 202,368 (“COA #8”).

No claim under the PIA’s Initial Warranty or Extended Warranty for failure of the LCC Infrastructure to meet Approved Criteria shall arise unless: (i) Subdivider does not comply with the Approved Criteria identified in this document (“Non-Compliance”); and (ii) the City has determined in consultation with the Port and Subdivider based on substantial evidence that the Non-Compliance (a) has resulted in actual damage and/or actual diminution in performance of the affected improvement (b) is attributable to the nonperformance of LCC.

In all cases, surface cracking, settlement or uplift, material hardening or impermeability, or other conditions that are susceptible to repair by Subdivider or the Port pursuant to the public realm Management Agreement by and between Subdivider and the Port dated \_\_\_\_\_\_\_\_\_\_\_\_\_, or the Memorandum of Understanding Regarding Jurisdiction and Maintenance of Public Improvements for the Mission Rock Development Project by and between the Port and the City acting through the San Francisco Public Utilities Commission and the City acting by and through its Department of Public Works dated \_\_\_\_\_\_\_\_\_\_, shall not be considered Non-Compliance notwithstanding anything to the contrary herein.

Non-Compliance shall not give rise to claims under the PIA’s Initial Warranty or Extended Warranty as applied to either: (i) any LCC resulting from City or public utility backfilling that has not been completed in accordance with technical specifications; or (ii) any LCC Infrastructure that has been subjected to loads at the surface from vehicles or uses that are not foreseeable or legally permitted on the affected improvement.

**I. Load Compensation / Hydrostatic Uplift / Permeability / Seismic Performance**

Load compensation, hydrostatic uplift, permeability, and seismic performance share a common set of Approved Criteria as each of these conditions could result in differential settlement, which has the potential to affect infrastructure within the LCC.

Non-Compliance pursuant to this Section I occurs only where the Non-Compliance is attributable to differential settlement or uplift that causes the category of LCC Infrastructure in Table 1 below to violate the corresponding Approved Criteria.

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| **TABLE 1** | |
| **LCC Infrastructure Category:** | **Approved Criteria:** |
| Sanitary sewer infrastructure | - Pipe and structure remain free from breaks or collapses.  - Gravity flows are conveyed in the direction of flow identified in the approved design documents. |
| Potable water infrastructure | - Pipe and structure remain free of breaks. |
| Storm drain infrastructure | - Pipe and structure remain free of breaks.  -Gravity flows are conveyed in the direction of flow identified in the approved design documents. |
| Surface flow | - Positive surface flow without persistent ponding in locations where drainage designs call for such surface flow. |
| Utility connections | - Public Utility Connections at building interfaces and at project boundaries along Mission Rock Street and Third Street remain free of breaks. |

**II. Crushing Resistance**

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| **Approved Criterion for Crushing Resistance:** | - LCC shall maintain compressive strength of at least 20 psi. |

**III. LCC Excavatability**

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| **Approved Criterion for LCC Excavatability:** | - LCC shall maintain a compressive strength of no more than 300 psi. |