



## SF Rima - Project Report #26

**Project:**  
**Habitat for Humanity Anchorage,**  
**12-Unit Condominium Project**

**Anchorage, Alaska**

SF Rima was selected for one 2,920sf courtyard of a zero runoff project that includes a total of three courtyards. Each employs a different permeable - porous pavement hybrid system to infiltrate all surface runoff from the site.

Designed by Tamás Deák, kpb architects, and built by Habitat staff and volunteers, the project was completed in August 2008. 1,940sf PICP, 690sf porous concrete and 290sf impervious concrete slab make up the total area.



The infiltration gallery was fully excavated to clean, native sands between 24 and 36" (design depth for warm foundations is 42" in Anchorage) and was backfilled with ASTM C-33 #57 coarse concrete aggregate.

The #57 aggregate was placed and rolled with a vibratory roller compactor to achieve some initial compaction. 6x6 welded wire mesh was to place on top to secure PEX tubing for snowmelt. The tubing was covered with 2"-2.5" of E-

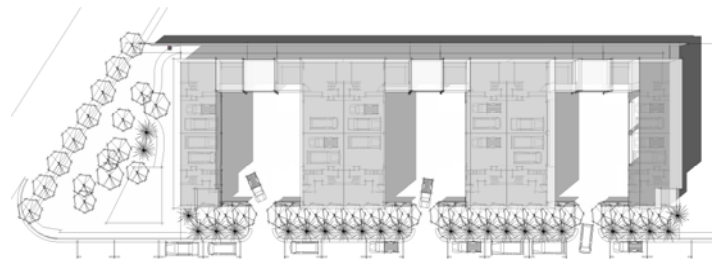
Chips, a crushed aggregate of 1/2" to No 8 size and was carefully compacted.

The pavers were laid by unskilled volunteer labor trained on-site by the Habitat project team.

The paver joints were filled with F Chips, a crushed aggregate of 3/8" to No. 8 size and the surface was swept clean.

A peculiarity of the design is the sloped grade of the courtyards that complicated construction to some extent. It was a building permit requirement set by the municipality as a protection against future loss of infiltration functionality. That condition may occur due to snow or ice clogged paver joints or other unforeseen circumstances with an extremely low probability.

The infiltration system has been functioning as designed since August 2008 and is being monitored to evaluate its performance. The infiltration rate remained uncompromised to date and no maintenance was necessary so far.



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Photo courtesy: Tamás Deák, kpb architects