

Alternatives Analysis

Alternative 1 – Proposed Project

The proposed project will include the installation of subsurface infiltration chambers to improve stormwater management from Crafts Street. The location of the proposed stormwater system will be within the 100–200-foot Riverfront Area in order to maximize the amount of runoff that can be collected from Crafts Street, ultimately maximizing stormwater treatment and overall benefit to the brook.

Alternative 2 – R-Tank Located Outside of Riverfront Area

An alternative location was considered outside of the Riverfront Area. This location was determined to be less desirable from the perspective of system performance. Moving the subsurface infiltration system up Crafts Street would reduce the connected drainage area and decrease the positive impact of the project.

If the stormwater system was moved further away from the Riverfront Area or outside of the RFA completely, it ultimately would not meet the goals of the project. A location further outside of the Riverfront Area would not maximize the amount of runoff that can be collected and therefore treated.

Alternative 3 – No Build

Under this alternative, the stormwater system would not be installed and therefore, stormwater management to mitigate the Crafts Street flooding and on site would not improve.

Conclusion

The proposed project (Alternative 1) is the preferred project as it maximizes the amount of runoff that can be collected from Crafts Street, thus improving stormwater treatment and benefiting brook much more than compared to Alternatives 2 and 3.