Green Infrastructure Project Completion Report
Project H-08: Geddes Street Road Reconstruction

DATE: January 2012

Contractor: John R. Dudley Construction

Presented herein for the noted site is a summary of issues/features related to the design and construction of the project, its current status and project metrics.

Item #1: Site Details and Specifications

1A. Granite Curb Damage. After completing construction on the project, the curb was damaged along the curved portion of the alignment, between Otisco and Gifford in early October. It is believed that this damage is caused by school or Centro buses turning from Otisco onto Geddes and striking the curb. The original damage was repaired via a modification to the Contractor's contract. Further damage occurred adjacent to the repaired area. This damaged curbing will be repaired in the spring of 2012.

Delineators will be installed, and pavement striped along the west shoulder of Geddes Street by City DPW in the spring of 2012 to help prevent further damage from occurring.

Further Action Needed: Where applicable, the granite curbing detail showing the concrete backing will be revised for future projects to show more concrete backing to provide support in the event the curb is struck by a vehicle.

Item #2: Topographic Survey

2A. Manhole Not Shown to Scale. The granite curbing along the curb extension and swale was found to be in conflict with one electrical manhole structure on Geddes Street, for which the lid was not shown to scale. In addition, the subsurface structure was much larger than anticipated. A design change was initiated to move the location of a curb stormwater inlet to the same location as the manhole. In this manner, runoff is able to freely flow over the manhole and into the swale.

Further Action Needed: The surveyor has been notified of this discrepancy and the scope of work was revised to require all surface features shown exactly to scale. In addition, designers will be more cognizant and conservative regarding subsurface size of manhole structures.

Item #3: Trees and Plantings

3A. Planting Progress. There were no trees, shrubs or plugs on this project, however, the grass was planted and established along the length of the swale.

Further Action Needed: The contractor will return to the site to complete punch list items in the spring of 2012. This includes adding soil where settling has taken place and replanting some of the grass areas that did not establish in 2011.

Item #4: Subsurface Utility Location

4A. Electrical Duct Bank. During excavation, a marked electrical duct bank line was discovered approximately 18 inches west of its marked location. This caused a shift in the swale and subsurface materials so that the

duct bank was not disturbed. Further, the shift in the swale caused the trench to be moved closer to the existing curb resulting in more significant disturbance of this curb. The location of the duct bank also caused green infrastructure (GI) piping and structures to be shifted and changed to accommodate available space. As a result several small changes in trench and piping alignment were required so the project could proceed. A change order to the contractor's contract is being processed as of the date of this report.

Further Action Needed. More detailed gas and electric utility mapping (including future GIS format) is now being obtained for green project sites. Utility attributes from this mapping will be conservatively used to estimate subsurface size of electric utilities and avoid conflicts as much as possible.

Item #5: Public Outreach

5A. Save the Rain Website. The primary public outreach method for this project was the Save the Rain website. The project plans and specifications, and fact sheet were uploaded to the website to inform the public of the project and what was occurring.

Further Action Needed: The Save the Rain website will continue to act as the primary public outreach method for all of the Save the Rain green projects. However, targeted outreach will occur in more highly populated and sensitive areas to inform the public of the project.

Project Metrics Summary

Bid Price	$203,274
Change Order Total as of 12/31/11	$27,661.31
Total Project Cost as of 12/31/11	$230,935.31
Total CSO Reduction	371,000 gallons
Cost per CSO Reduction	$0.62 per gallon