ADDICKS SUBDIVISION
A CONCEPTUAL MASTER PLAN ENHANCING COMMUNITY RESILIENCE

Hua Yan, MLA

COMMITTEE:

CHAIR: Dr. Jun-Hyun Kim
Department of Landscape Architecture and Urban Planning

Member: Dr. Changshan Huang
Department of Landscape Architecture and Urban Planning

Member: Dr. Suzan Rodiek
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ECONOMIC ANALYSIS

Local Employment 2010-2016

Total Nonfarm and Industry Supersector Employment, 2016

Employees by Industry, 2016

Economic Actual Growth, 2016

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LOW IMPACT DESIGN

Total Volume of Rain = 647,782 sq.ft (Site Area) x 1.5 in. (Rain Event) = 80,973 cu.ft

- Detention Pond: 52,483 cu.ft, 65%
- Rain Garden: 11,779 cu.ft, 14%
- Bioswale: 10,450 cu.ft, 13%
- Vegetated Filter Strip: 1,433 cu.ft, 2%
- Vegetated Open Channel: 4,828 cu.ft, 7%

LID Features

Rain Water Harvesting

Watersheds

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WATER COLLECTION STRUCTURE AND SUNKEN AMPHITHEATER

Multipurpose Hall

Tree Pits

Sunken Plaza

Sitting Area

Precipitation

Infiltration

Water Flow

Water Drain Pipe

Rain Garden

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LOW IMPACT DESIGN

Rain Garden 11,779 cu.ft
Bioswale 10,450 cu.ft
Vegetated Filter Strip 1,433 cu.ft
Vegetated Open Channel 4,828 cu.ft