## **PERFORMANCE PARKING: Reimagining Lot 11B**

## CAPTURE-DETAIN-INFILTRATE-TREAT



## PHOTOVOLTAIC



## PERFORMANCE

### HYDROLOGY



100% Treatment of 1 year storm

### **IMPERVIOUS SURFACE**



Impervious areas removed and replaced with infiltration zones and bioretention

41% Reduction of impervious surface

## TREATMENT TRAIN



Catchment zones

Surface drainage

Outlet pipes

Subsurface drainage



**Trees intercept and** slow down rain water.

### PERMEABLE PAVERS



Permeable pavers treat and infiltrate rain water that is not intercepted by trees.



**Bioretention cells treat and infiltrate rainwater** that is not infiltrated by permeable pavers

### 12.3 мт Reduction carbon dioxide per year

17,150 kW power production per year

## **4** electric vehicle

charging stations powered per year

**56** shaded parking spaces

# PHYTOREMEDIATION

### Hydrocarbons Lead





INDIGO BUSH



WILLOW

Metals



**INKBERRY** 

### CIRCULATION



### **VEGETATED COVER**



and 17,640 sq<sup>2</sup> new ground vegetation

**BIORETENTION CELLS** 

**CAMPUS CREEK / WETLAND** 

Campus creek and the wetland receive rain water via underdrains only after it has been slowed and filtered by the trees, permeable pavers and bioretention cells.

### Nutrients



EASTERN COTTONWOOD



Petroleum

**RED TIPPED** PHOTINIA

## RESILIENCY

### PLANTS

Selected plants are salt tolerant, provide phytoremediation for different pollutants, and are resistant to both drought and prolonged wet periods. These features make them resilient to the new extremes of climate change.

### **STORMWATER**

The permeable paving system has the capacity to detain the IPCC's A-2, 12-year extreme climate change scenario, providing 53% more storage volume than today's 1-year storm.