Benning Park
Stormwater Retrofit Project

Public Stakeholder Kickoff Meeting
December 4, 2018
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District Department of Energy and Environment
Agenda

- Project Area & Background
- Existing Conditions
- Project Objectives
- Restoration Approach
- Timeline
- Q&A
Project Location
BACKGROUND
Problem of Stormwater Pollution
The Original Model

Impervious Cover Model

Stream Quality

- Good
- Fair
- Poor

Watershed Impervious Cover

- 10%
- 25%
- 40%
- 60%
- 100%

- Sensitive
- Impacted
- Urban Drainage
- Non-Supporting
Existing Conditions
Existing Conditions
RESTORATION APPROACH
Most stormwater practices all work the same way: they collect stormwater runoff and use or mimic natural processes that result in the infiltration, evapotranspiration or use of stormwater in order to protect water quality and associated aquatic habitat (EPA).

*Slow it down, Spread it Out, Soak it In!* 

Some examples follow...
Bioretention
Bioretention: How it works
Bioswales
Permeable Pavement
### Project Concept

<table>
<thead>
<tr>
<th>CIA ID</th>
<th>Paved Area</th>
<th>Stormwater Retention Volume</th>
<th>Max Stormwater Retention Volume - 1.7</th>
<th>SWRV 1.7</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Basketball Court</td>
<td>12,200</td>
<td>1,159</td>
<td>1,642</td>
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</tr>
<tr>
<td>West Basketball Courts</td>
<td>23,500</td>
<td>2,233</td>
<td>3,163</td>
<td></td>
</tr>
<tr>
<td>Tennis Courts</td>
<td>24,200</td>
<td>2,289</td>
<td>3,257</td>
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</tr>
<tr>
<td>Impervious Surface Removal</td>
<td>6,200</td>
<td>389</td>
<td>836</td>
<td></td>
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</tbody>
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Project Objectives

- Manage and treat the stormwater from existing untreated impervious cover and compacted cover
- Reduce pollutants
- Improve water quality
- Enhance habitat
- Create a community amenity
- Provide an opportunity for the community to engage with the environment
- Educate the surrounding community about stormwater impacts
- Be cost-effective
Assumptions

• Treat maximum amount of stormwater from the site in the most cost effective way
• Work only on District land
• Minimal impacts to the community
• Development of a community amenity
• Educational opportunities
Project Timeline

• November 2018: contract awarded
• November – January 2019: field assessment (topographic survey, geotechnical investigations etc.)
• January – June 2019: design development
• 3 public meetings:
  • Concept designs
  • Semi-final designs (~65%)
  • Construction kickoff meeting (timeline)
• September 30, 2019: construction complete
Questions