LOWER WARD I RESILIENT STORMWATER SYSTEMS PLANNING STUDY

City of Hyattsville | City Council Meeting Monday, October 19, 2020

Lesley Riddle, Director | Hyattsville Dept. of Public Works Emily Clifton, Senior Environmental Planner | LID Center



Weston & Sampson

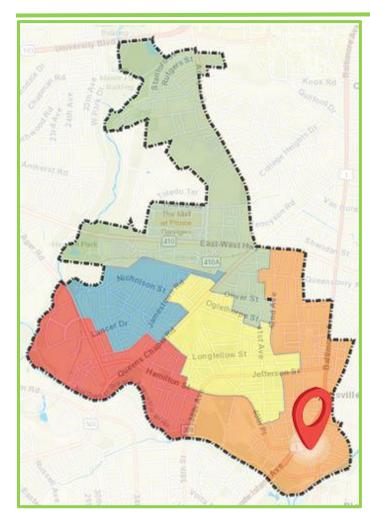


LOWER WARD I RESILIENT STORMWATER SYSTEMS PLANNING STUDY



TRUTAL PROTEC

Hyattsville: Lower Ward 1 Resilient Stormwater Systems Planning Study



- Identify potential green & grey stormwater infrastructure improvements
 - Reduce localized flood risks
 - Improve water quality
- Incorporate future climate estimates on rainfall from the region

STEP I: EXISTING CONDITIONS





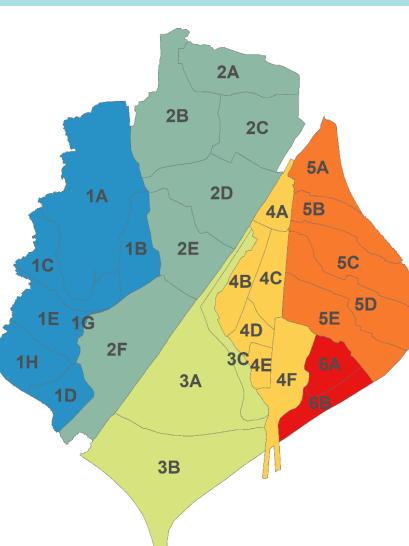
STORM DRAIN SYSTEM

IMPERVIOUS AREA

STEP 2: STORMWATER SYSTEMS ANALYSIS

Storm Drain Vulnerability Assessment:

- I. How well does it function currently?
- 2. How well will it function in the future based on climate change rainfall pattern projections?



Catchment	Percent Impervious
1	31%
2	62%
3	35%
4	83%
5	52%
6	46%

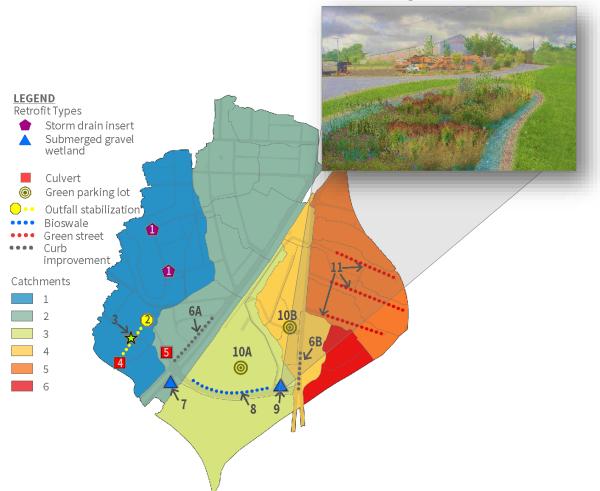
CURRENT

Frequency	Duration	Depth
10-year	6 hour	3.35 inches

FUTURE

Frequency	Duration	Depth
10-year	6 hour	4.19 inches

STEP 3: RETROFIT OPPORTUNITIES



Submerged Gravel Wetland

Identified Green Infrastructure Improvement: Submerged Gravel Wetland



COST ESTIMATES

- Design + Install: ~\$350,000 to ~\$380,000
- COORDINATING AGENCIES
- DPW&T, DoE

NEXT/FUTURE STEPS: DESIGN & IMPLEMENTATION

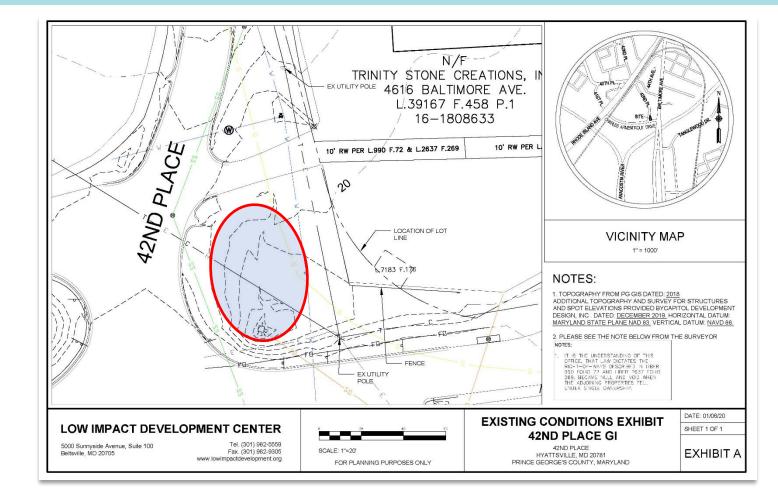
PROJECT DESIGN

- 42ND PLACE & CRITTENDEN: Project in design
- Funding provided by:



COMMUNITY ENGAGEMENT

- Previously scheduled Resilience and Beautification "meet and greet" postponed due to Covid-19
- Future date TBD



42nd Place and Crittenden Ave