



# FMATS Green Streets Plan

Technical Committee  
Presentation

September 5, 2018

AWR Engineering, LLC

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# Introductions

- Janie Dusel, PE

Civil/Environmental Engineer and President of AWR Engineering

- Terry Gryting, EIT

Staff Engineer, AWR Engineering



***This bioswale along West Dowling Rd provides treatment for runoff prior to discharge to Campbell Creek. Performance monitoring was completed by AWR in 2013, 2015, and 2016, and is underway for 2018.***

## AWR Engineering, LLC

- Water resources engineering specialty firm located in Anchorage
  - Green Infrastructure and Low Impact Development (LID)
  - Hydrologic and Hydraulic Analysis and Design
  - Watershed Planning
  - Floodplain Management
  - Drainage Studies
  - Hydrologic Modeling

Learn more at [www.awr-eng.com](http://www.awr-eng.com)



*The Taku Lake Rain Garden treats water from an adjacent parking lot and roadway. Installed in 2007, the rain garden is included in the MOA's annual performance monitoring program.*

# Green Infrastructure and LID Experience Overview

- Municipality of Anchorage new Design Criteria Manual
  - Authored the manual including development of the new GI criteria
  - Project started in 2011 with final adoption in December of 2017
- Performance Monitoring of GI Projects (2013 to present)
  - 5-10 sites each year (public and private)
  - Document performance
  - “Lessons learned” reporting (influenced the new criteria)
- Russian Jack Springs Parks - LID “Demonstration” Project
  - Porous asphalt and subsurface infiltration
- Incorporation into regular projects



*Porous asphalt testing at Russian Jack Springs Park (2012)*



*Janie provides an update of the new MOA drainage criteria to stakeholders*

# FMATS Green Streets Plan

- Project Purpose

- Develop a plan that will identify opportunities and provide recommendations for incorporating Green Infrastructure into selected future projects in the FMATS Metropolitan Planning Area
- Provide a connection between policy and design process

- Project Approach

- 68 Sites in the Metropolitan Planning Area were nominated for inclusion in the plan
- AWR worked with Jackson Fox to narrow that list to 9 primary sites
- Visiting sites today
- Develop recommendations
- Draft Plan January 2019
- Final Plan June 2019



*Curb cuts directing stormwater to landscaping in Anchorage. This site was monitored by AWR in 2015.*

# FMATS Green Streets Plan

## ○ List of Sites

1. Barnette Street (1<sup>st</sup> Avenue to Airport)
  - Future lane reductions - great opportunities for GI
2. 5<sup>th</sup> Avenue (Barnette to Noble)
  - Future project(s) may reduce number of lanes and/or on-street parking in some locations
3. 7<sup>th</sup> Avenue (Barnette to Noble)
  - (Same as 5<sup>th</sup>)
4. Lacey Street (1<sup>st</sup> Avenue to 12<sup>th</sup> Avenue)
  - Planned reconstruction – Challenging due to narrow ROW
5. Turner Street (2<sup>nd</sup> to 5<sup>th</sup>)
  - Not needed for traffic utilization; some sections can be closed

# FMATS Green Streets Plan

- List of Sites (continued)

6. Lathrop Street (2<sup>nd</sup> to Airport)

- Future reconstruction planned, details TBD

7. College Road (Margaret to Steese Hwy)

- Median reconfiguration planned/expected

8. Airport Way (University to Steese Hwy)

- Reconfiguration planned to change traffic patterns and eliminate frontage roads and/or jersey barriers in select location

9. East 5<sup>th</sup> Ave in North Pole (Santa Clause Lane to St. Nicholas Drive)

- Planned resurfacing and reconstruction of pathway

## Summary

We're excited to be working with you on this project.

Questions?



*This infiltration basin receives runoff from 9 acres of the New Seward Highway in Anchorage. It is part of a treatment train and was monitored by AWR in 2014, 2015, & 2016.*