Welcome!

Councilman Kevin Flynn, District 2

• City and County of Denver, Public Water Quality.
  • Sarah Anderson – WQ Program Manager
  • Brian Wethington – WQ Project Manager
  • Ashlee Grace - Senior Planner

• Consultant Team
  • Chris Kroeger – Muller Engineering
  • Ryan Taylor – Muller Engineering
  • Paul Thomas – Stream Design, Landscape
  • Carly Gelatt – Stream Design, Landscape
Agenda:

• Presentation (About 30 Min.)
  • Project Overview
  • Summary of Feedback
  • Design/Implementation Challenges
  • Conceptual Designs

• Open House Discussion (35 Min.)

• Share back of key issues from discussion (10 Min.)
Project Context

- Project was identified through
  - Community input
  - Water Quality analysis
- Strong community support
- Multiple Benefits
  - Community Space
  - Water Quality
  - Intersection improvements
  - Depaving
Project Site

Site Information:
• Approximately 10,000 SF of impervious area
• 8-inch sanitary line and manhole
• Water main
• New bike lanes

Known Site Considerations:
• Maintain parking and waste pick-up at for adjacent property owners
• Protect and preserve utilities, sanitary and water services
• Safety (lighting and site-lines)

Technical Considerations:
• Provide area to treat ~2 acres of stormwater runoff (from Iliff, Lowell, Marshall, & Evans)
• Provide area for community space
Project Site

A. Lowell & Evans looking East
Project Site

B. Warren Street looking North

C. Warren & Lowell Intersection looking North
Why Green Infrastructure?

**Why Green Infrastructure:**

**Economic:**
- Cost effective approach to stormwater management that meets multiple goals
- Increased property values
- Increased building efficiency and reduced energy costs

**Environment:**
- Healthier South Platte River, streams, gulches and lakes
- Improved aquatic and terrestrial habitat
- Better air quality
- Reduced urban heat island effect

**Quality of Life:**
- Increased resiliency of Denver’s neighborhoods
- Enhanced recreational corridors
- Healthier, greener neighborhood connections

**Common Pollutants Found in Urban Stormwater:**
- Bacteria
- Nutrients
- Trash
- Metals
- Other

**Impacts of Polluted Stormwater:**

**Public Health:** E. coli levels in Denver’s streams and river often exceed swimmable beach standards by the EPA.

**Environment:** Water quality in most of the streams in Denver is not sufficient to support a healthy and diverse population of aquatic wildlife.
Public Meeting 1

Opportunities

• Education/Interpretive Signage
  • Encourage Education, but do not encourage prolonged gathering
  • Highlight the Pilot Project aspects
  • Contact local schools to develop educational opportunities (Johnson, Gust, Denison, Kunsmiller, etc.)

• Design
  • Consider Public Art
  • Lighting (for safety) and a bench or two, but don’t encourage gathering

Challenges

• Existing Site/Process
  • Maintenance – how often will it need to be maintained, and by whom?
  • Loss of Parking
  • Tagging and vandalism

• Design
  • Make sure there is adequate parking for neighbors
  • Will this act as an attractant to neighborhood wildlife (raccoons, skunks, etc.)
Public Meeting 2

Key Feedback from Meeting

- **Education/Interpretive Signage**
  - Signage for Water Quality/Green Infrastructure are of interest

- **Design**
  - Support a Space for Public Art
  - Lighting (for safety) and a few benches disbursed through site, but don’t encourage gathering
  - Native species of plants with some focus on pollinators
  - Organized, geometric layout of plant material was preferred over “wild” look
  - Provide trash, particularly for dog waste
  - 75/25 Water Quality to Public Space ratio

- **Safety**
  - Wildlife and it’s impact on the neighborhood
  - Don’t encourage vagrants
  - Tagging and vandalism

- **Parking**
  - Make sure there is adequate parking for neighbors (still have flexibility at concept phase).
Existing Conditions | Survey

Key Considerations:

- Utilities
- Parking on Lowell & Warren
- Change Surface Flow
- Private Property Access needs to be maintained
Conceptual Design | Alternative 1 | Architectural

- Native grasses
- Low planting for visibility
- Forebay
- Public space with seating
- Tree lawn with turf
- Garden with native grass and flowers (pollinator)
- Trees with shrubs or hedge along property edge; thick planting for privacy for homes
- Incorporate access drive aesthetically; grasscrete or planting strips
- Continue privacy edge planting

LOWELL & EVANS
Green Infrastructure | Water Quality | Community Space
Conceptual Design | Alternative 1 | Architectural
Conceptual Design | Alternative 1 | Architectural
Conceptual Design | Alternative 2 | Radial Agrarian

- Forebay
- Public space with seating
- Tree lawn with turf
- Upland-type planting

Possible level spreader (or other type of buffer)

LOWELL & EVANS
Green Infrastructure | Water Quality | Community Space
Conceptual Design | Alternative 2 | Radial Agrarian
Conceptual Design | Alternative 2 | Radial Agrarian
Conceptual Design | Alternative 3 | Cascade Rings

- Forebay
- Tree lawn with turf
- Garden with native grass and flowers
- Upland-type planting
- Public space with seating

LOWELL & EVANS
Green Infrastructure | Water Quality | Community Space
Conceptual Design | Alternative 3 | Cascade Rings
Conceptual Design | Alternative 3 | Cascade Rings
Conceptual Design | Alternative 3 | Cascade Rings
Materials & Plantings
Thank you!

• Break-Out session;
  • Additional Feedback

• What are we looking for?
  • What are missing?
  • What do you like about the ideas we’ve shared today?
  • Other things you’d like to see; anything you’d like us know.
  • Write down feedback on boards, flip-charts, or comment cards

• 35 Minutes – Consultant or City Representative will readout key feedback and issues at the end of the meeting
What We Heard.

More information or feedback?

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