





- September 12, 2013 100 to 500 Year Flood Event
- 18,000 cfs above Left Hand Creek
- 27,000 cfs below confluence with Left Hand Creek







Significant damage to public and private property and infrastructure







• Damage to City's St. Vrain Greenway

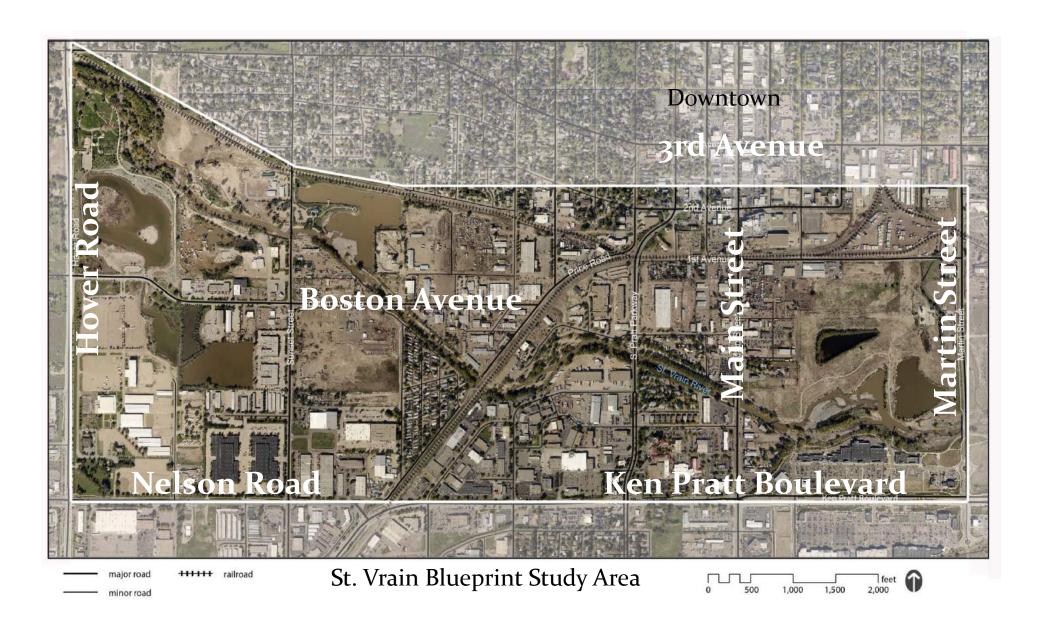


- Prior to 2013 Flood
 - Updated St. Vrain Floodplain Anderson Study
 - Looked at options to improve channel to carry 100 year flows
 - Enhance corridor (recreation/aesthetics) and development/redevelopment options – St. Vrain Blueprint





St. Vrain Blueprint Study Area



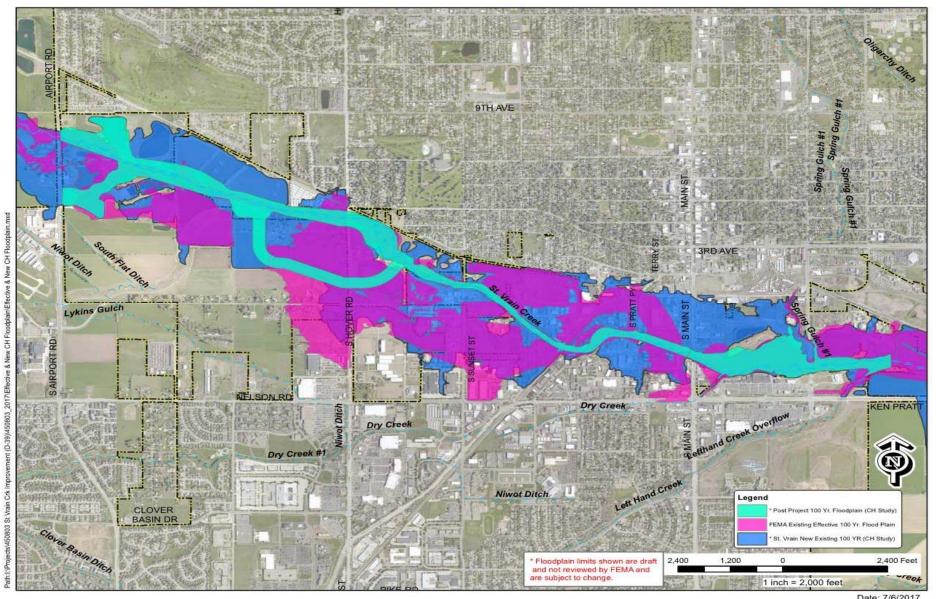
St. Vrain Blueprint Goals

- 1. Significantly reduce property, infrastructure, and life safety hazards due to 100-year flood events.
- 2. Restore and enhance the St. Vrain Greenway to natural conditions and improve user amenities and experience within the greenway environment.
- 3. Leverage safety improvements and a beautiful greenway to encourage quality investment and economic development on properties in the St. Vrain Blueprint Plan Area.





Regulatory, Existing Conditions, Post Project



Work Predicated on and Coordinated with Existing Plans

- 2001 The St. Vrain Greenway Master Plan East Corridor Update
- 2002 Open Space and Trails Master Plan (volume II)
- 2005 The Wildlife Management Plan
- 2006 Southeast Longmont Urban Renewal Plan
- 2006 Focus on Longmont Strategic Plan





... Existing Plans continued

- 2010 St. Vrain Greenway Riparian Corridor Protection Plan
- 2012 The 1st & Main Station Transit & Revitalization Plan
- 2014 Parks, Recreation & Trails Master Plan
- 2014 Dickens Farm Park Master Plan (August draft)





... Existing Plans continued

- 2014 Saint Vrain Creek through Longmont: 100-Year Analysis and Conceptual Design
- 2014 St. Vrain Creek Watershed Master Plan
- Longmont Land Development Code
- 2016 Envision Longmont
- Longmont Sustainability Plan





Stakeholder and Community Input

- Property owner meetings
- Booth tent at Rhythm on the River and community downtown events
- Public charrette, citizen meetings
- Open houses





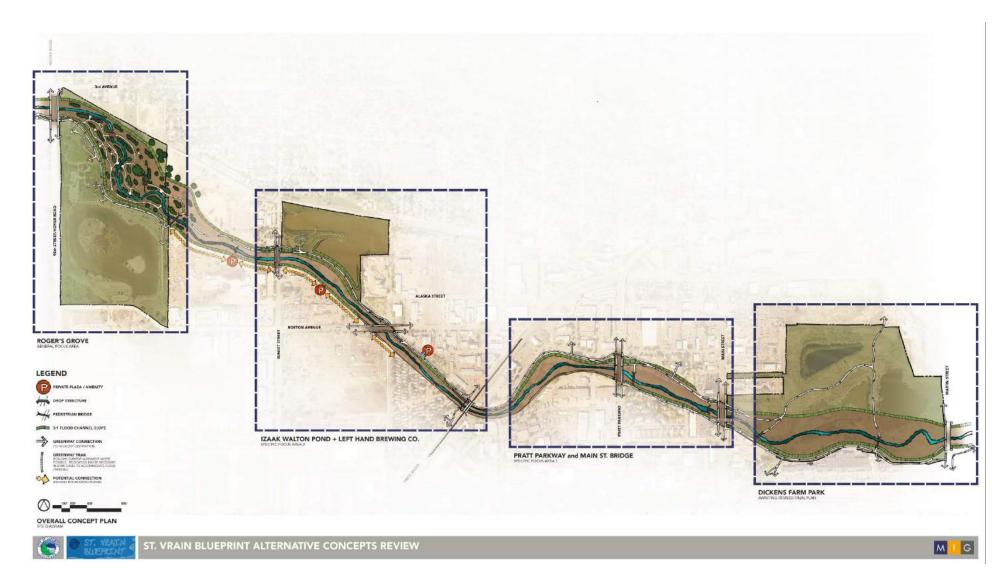
The Evolving Blueprint Scope

- Originally commissioned to be a redevelopment study
- Study commenced in June 2013, flood occurred in September 2013,
- Scope of study changed to recovery and resiliency

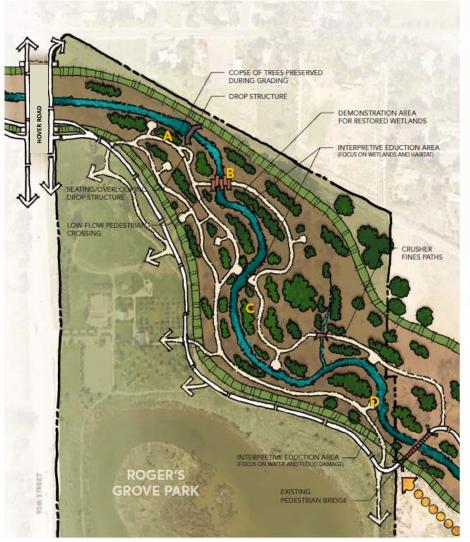




Alternative Scenarios—Greenway Corridor & Focus Areas



...Greenway Alternative Scenarios continued











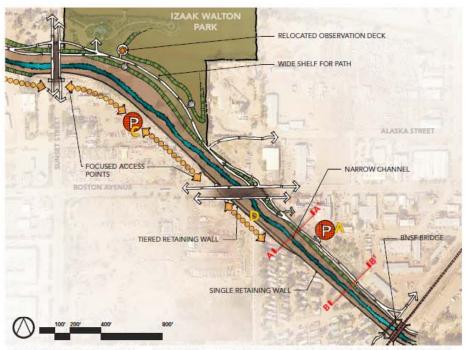
ROGER'S GROVE CONCEPT PLAN: NATURE EDUCATION SCALE: 1" - 100' - 0"

SOURCES OF INSPIRATION NOTED ON MAP ABOVE





...Greenway Alternative Scenarios continued



RELOCATED OBSERVATION DECK BOARDWALK / OVERLOOK CHANNEL EXTENDS FURTHER INTO PARK TO ENHANCE CURVE -NATURALIZED CHANNEL

IZAAK WALTON POND + LEFTHAND BREWERY DESIGN FOCUS AREA SITE PLAN

IZAAK WALTON POND + LEFTHAND BREWERY DESIGN FOCUS AREA SITE PLAN



PROPOSED DESIGN ALTERNATIVE SECTION [A-A1]









EXISTING ENGINEERED SECTION [B-B1]











SOURCES OF INSPIRATION





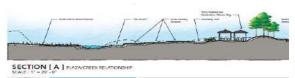
Izaak Walton Section View



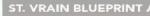
... Greenway Alternative Scenarios continued



PRATT PARKWAY and MAIN STREET BRIDGE DESIGN FOCUS AREA SITE PLAN

































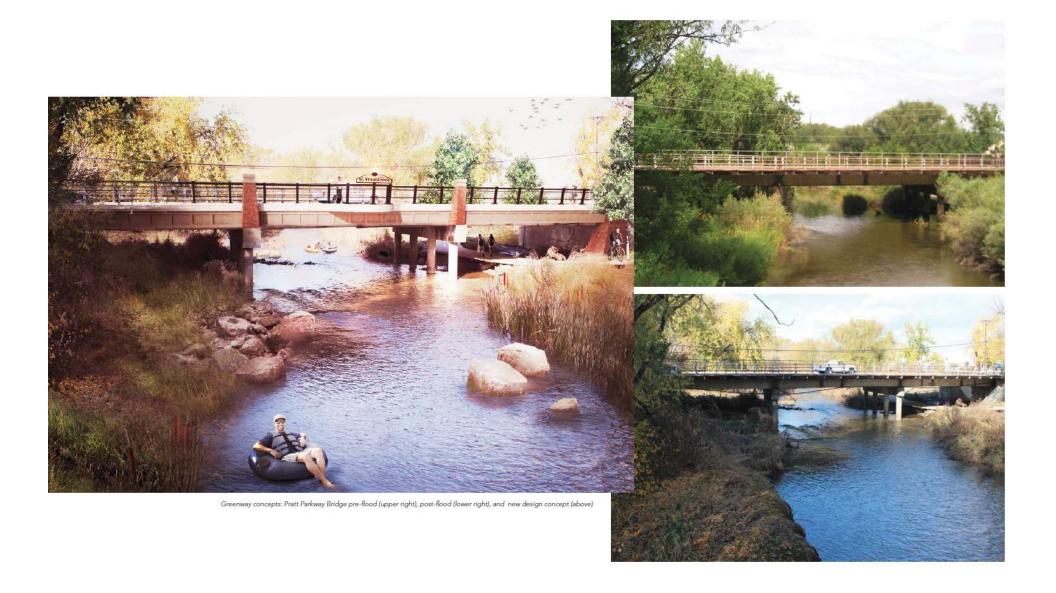




South of Boston Court View



Focus Area: Main Street to BNSF Bridge



St Vrain Blueprint and Resilient St Vrain Working in Tandem

- Concepts of natural stream design and environmentally friendly natural stream riparian corridor communicated to RSVP.
- Vision of creek greenway restoration being implemented by RSVP







LONGMONT, COLORADO



LONGMONT, COLORADO





Design Themed Infrastructure

- Use of sandstone as a locally referenced resource,
- Acknowledge previous bridge designs on KPB,
- Main Street and Sunset Bridges
- Art on Main Street bridge part of greenway vision





Bridges & Materials



Bridges & Materials



Wildlife Considerations

- Public input on greenway character was natural conditions native to Colorado high plains riparian system.
- Goal to restore flood damaged greenway to wildlife habitat areas,
- Design of RSVP has wildlife corridor on south sided of creek corridor.





Wildlife Considerations

- Existing 150' wildlife setback applies over existing developed properties,
- SVBP recommends leaving 150' setback in place until a post project condition better defines what the creek corridor will look like,
- Wildlife management plan update can evaluate.





Redevelopment

- SVBP plan includes imagery of potential redevelopment vision,
- Redevelopment will result in positive economic impact,
- Redevelopment/reinvestment will occur over time, not immediately
- Reflected in Envison Longmont and compatible with 1st and Main transit area





Alternative Scenarios—Concept Images



Land Use Concepts: Boston/Bowen



Land Use Concepts: Greenway Neighborhood



new street access to the corridor

active uses that complement the greenway such as restaurants and cafes with outdoor dining areas

Land Use Concepts: Boston Avenue





St. Vrain Blueprint

LAND USE CONCEPTS: BOSTON / BOWEN NEIGHBORHOOD







St. Vrain Blueprint

LAND USE CONCEPTS: FIRST & MAIN NEIGHBORHOOD



Resiliency

- SVBP is fundamentally about resiliency
- SVBP plan reviewed using the Sustainability
 Evaluation System some insights gained
- Use of materials that are manufactured with minimal energy, carbon,

and water use

 Use of materials to reduce energy, carbon, and water use in application & are weather





Resiliency

- Use of recycled materials
- Reuse of existing structures and materials to reduce demolition waste
- Use of locally sourced materials to reduce transportation needs and related carbon emissions
- Use of building materials that can be recycled or reused at the end of their lifespans





Resiliency

- Use of materials that are responsibly harvested or extracted
- Avoiding use of toxic materials
- Design of site to maximize solar access
- Optimization and adaption of existing infrastructure
- Use of natural water quality systems on site.





Questions

Council direction



