

Dry Creek Flood Control & Parkway Project

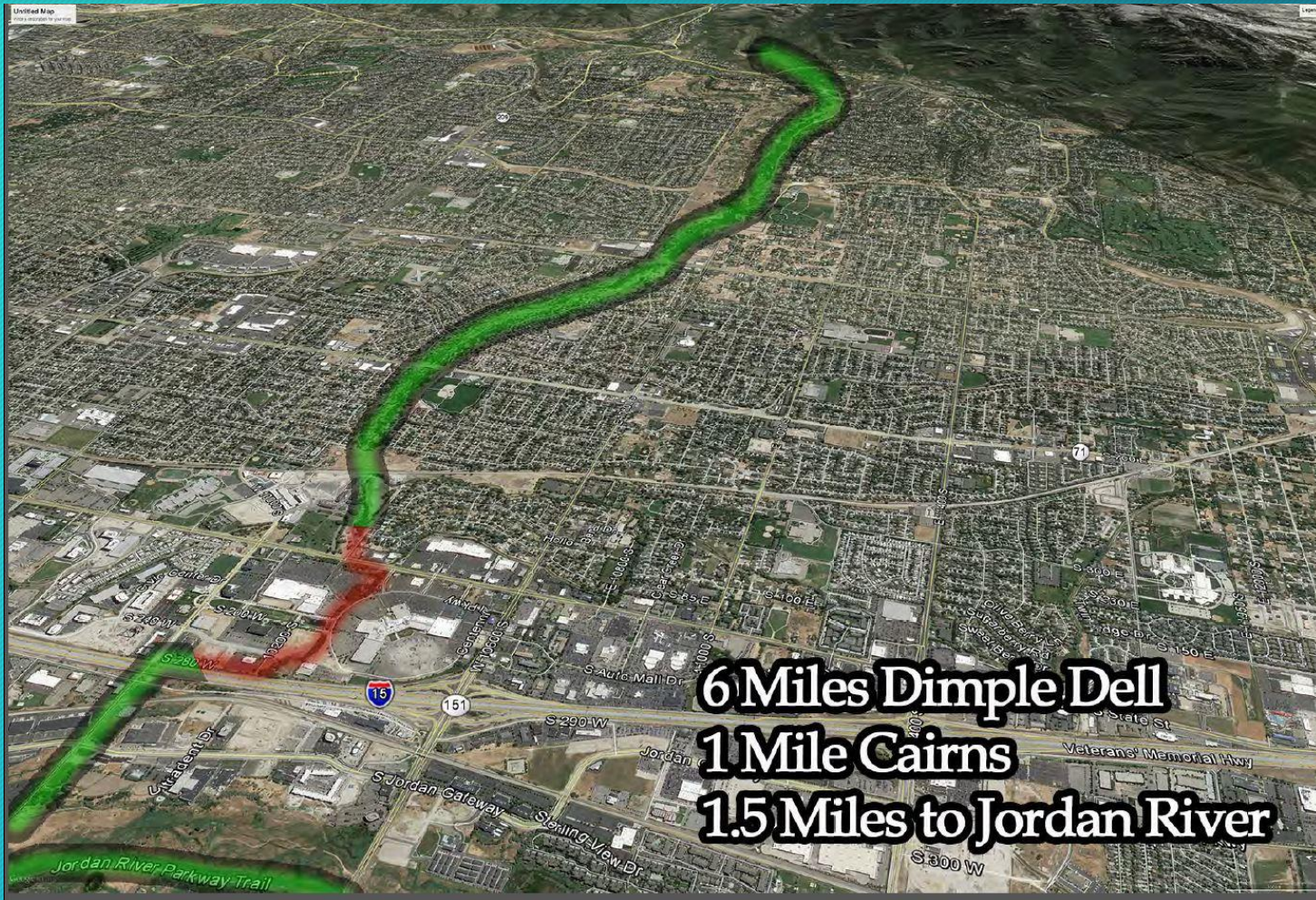
Sandy City Public Utilities

Presented by: Tom Ward, PE., Public Utilities Director

Prepared by: Tyler Shelley, PE., Chief Engineer

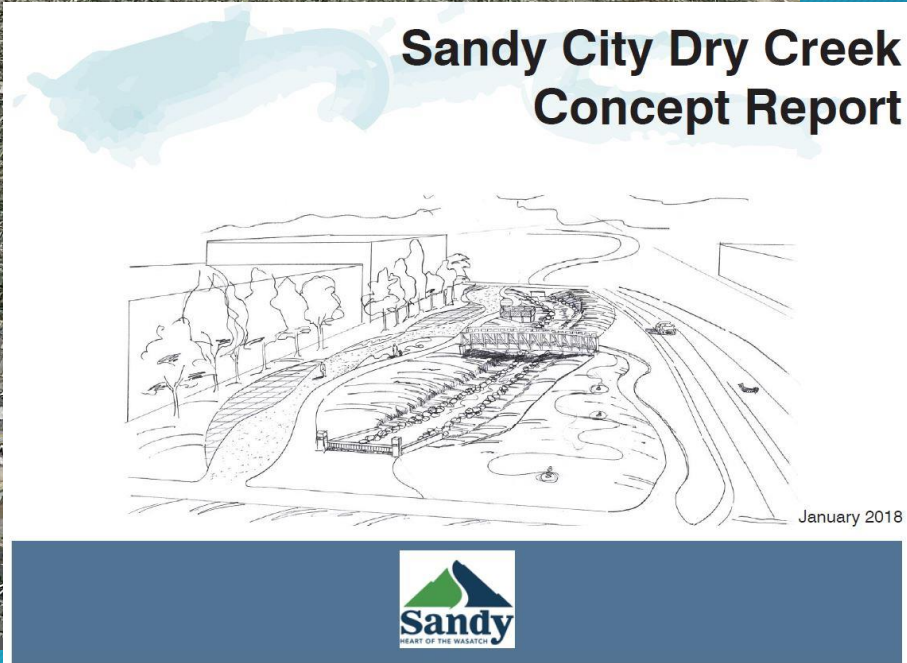
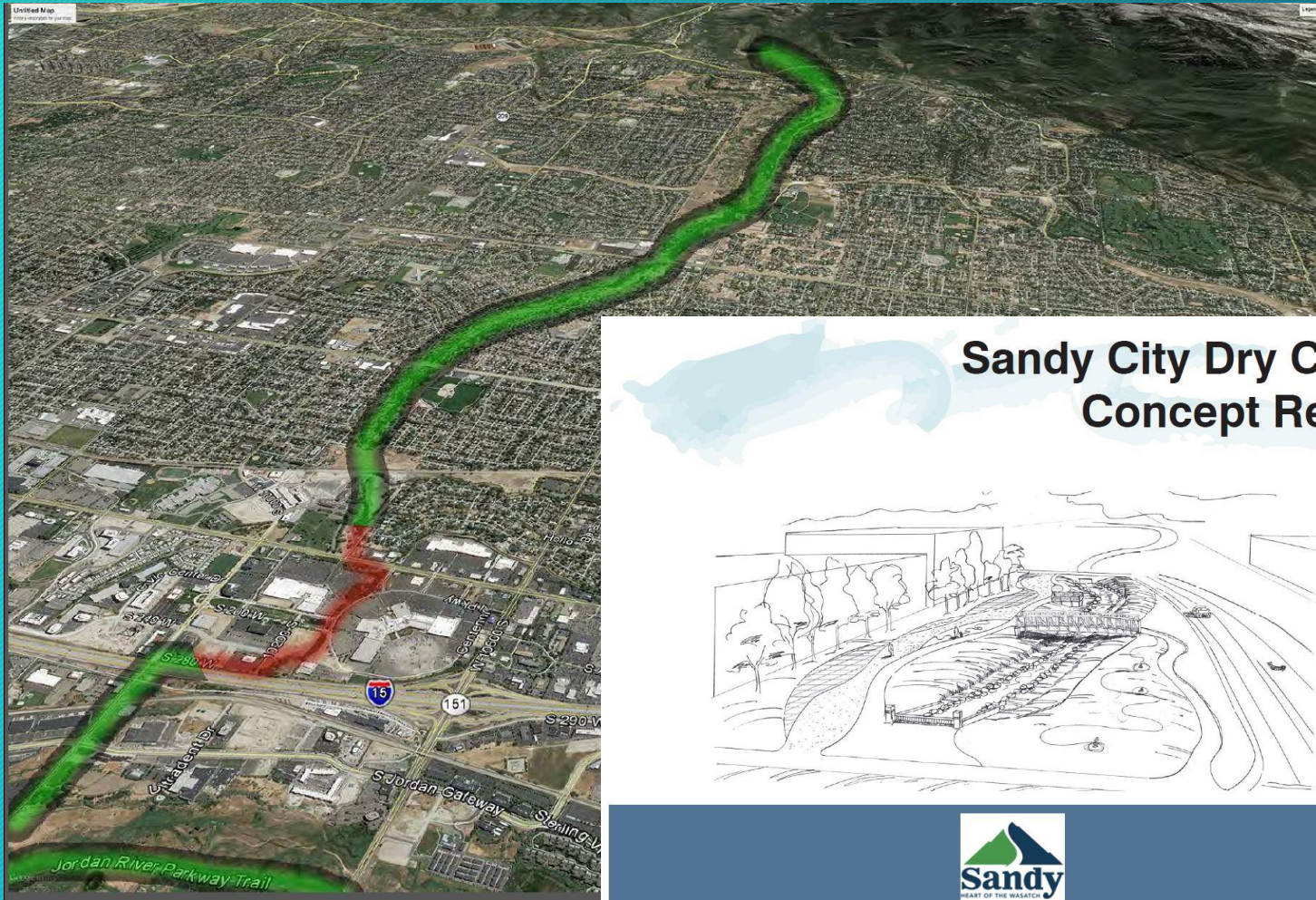
February 27, 2018

Concept Plan



Trails & Open Space
Development
Flood Control
Water Quality

Concept Plan

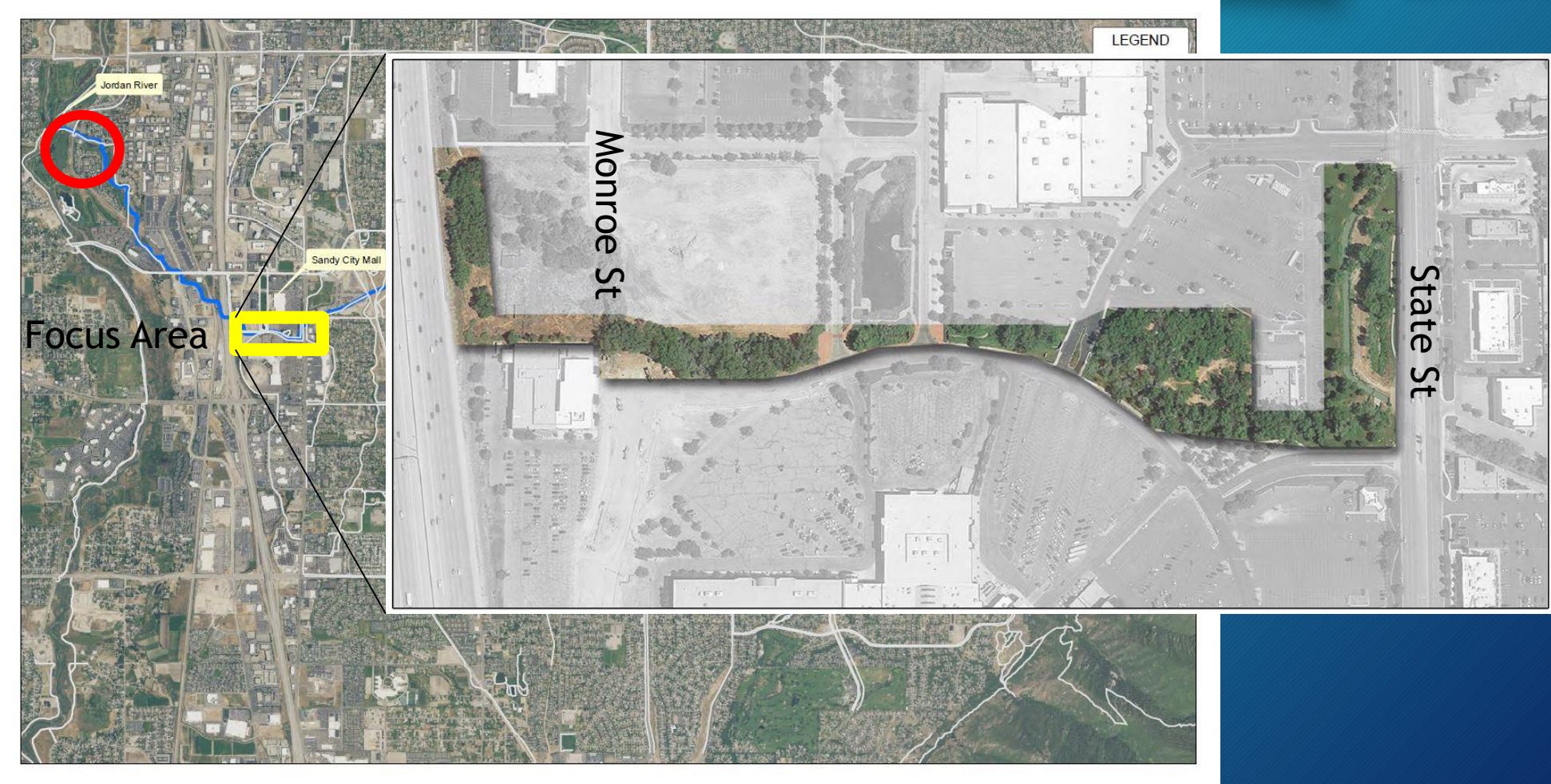


Transportation
Recreation
Future Development
Flood Control
Water Quality

Project Purpose & Need

- Reduce Flood risk
- Flood map must be updated to allow development
- Restore channel from overgrown hazard to central Sandy downtown amenity
 - Open space
 - Trail connection Jordan River to Bells Canyon/Wasatch Blvd
 - Art Walk
 - Public education- Low Impact Development, Water Conservation, Water Quality best management practices (BMPs)

Downtown Sandy Cairns Project Area

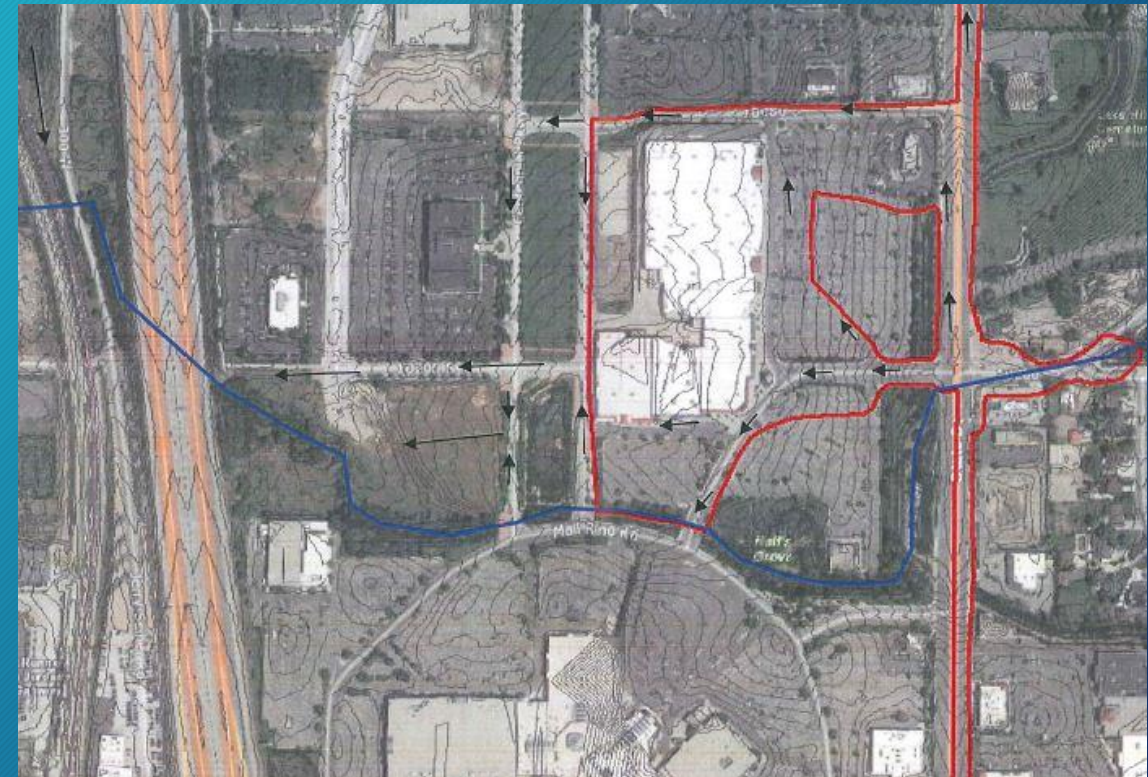


Remove Flood Risk and Support Development

Current Flood Map



New Flood Map if No Improvements Made



Impact to Property

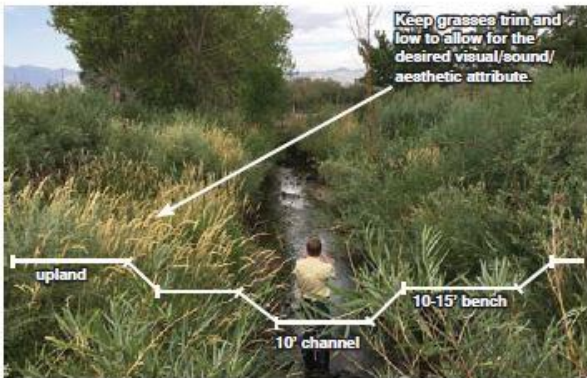
- Flood map must be updated to allow development
- Flood improvements must be built before FEMA maps can be updated
- Dry Creek is a Salt Lake County flood control facility
 - County funding, O&M responsibility/stakeholder
 - County has \$200k plus budgeted this year and committed verbally to \$200k per year or more until project is complete

I-15 to State Street (Phases 1-6)



Photo a

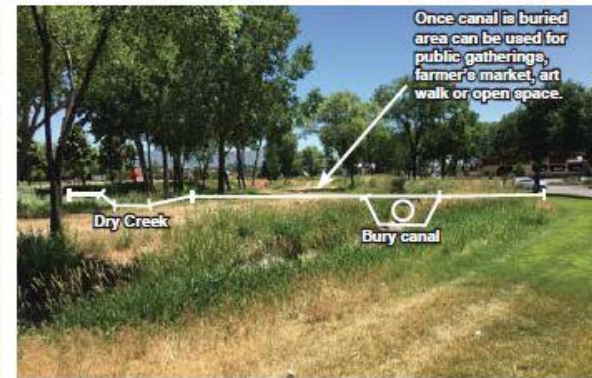
Phase 1



Phase 2 and 3

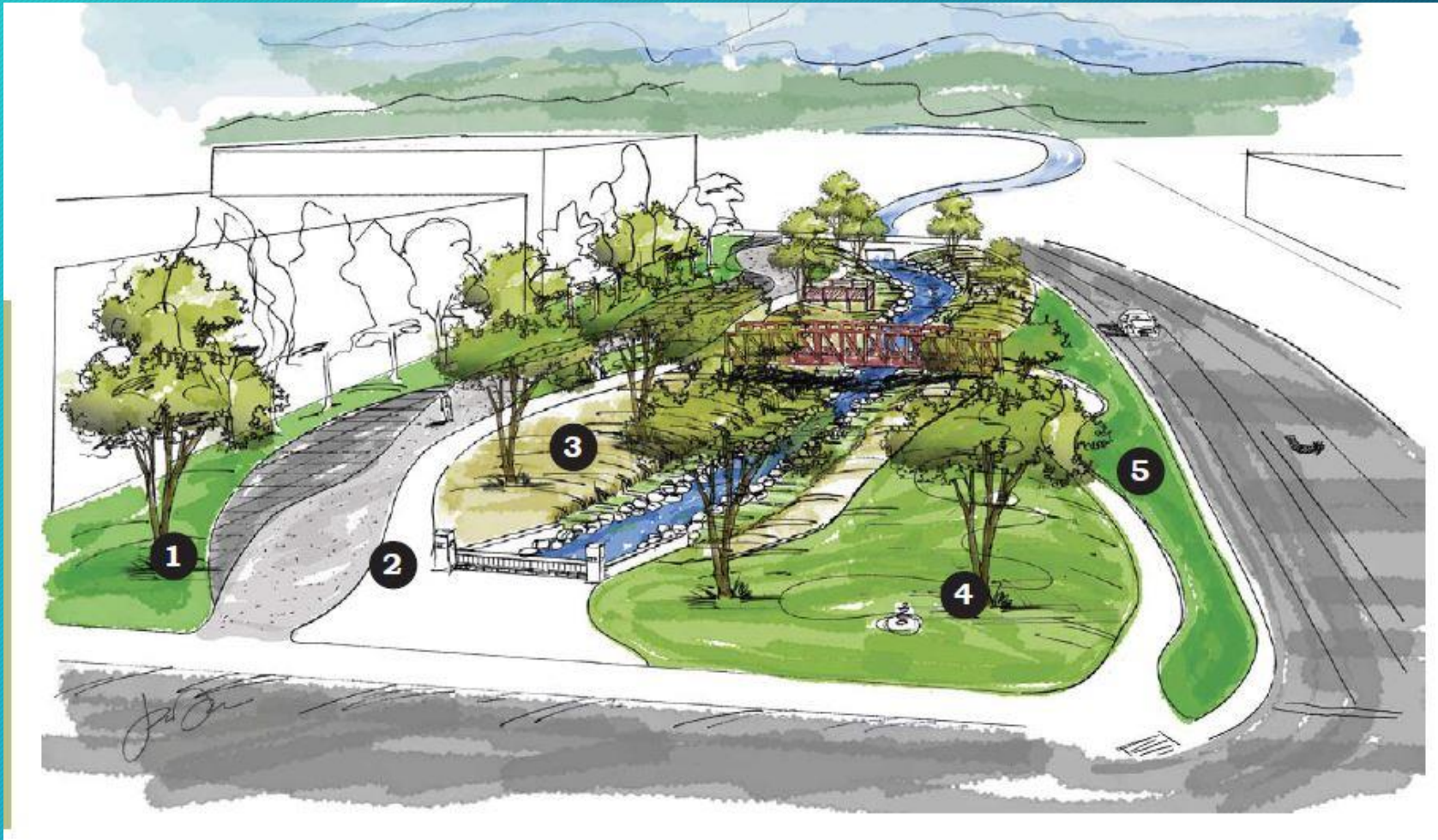


Phase 4 - Neff's Grove (Preserve)
Maintain existing conditions/cross-section

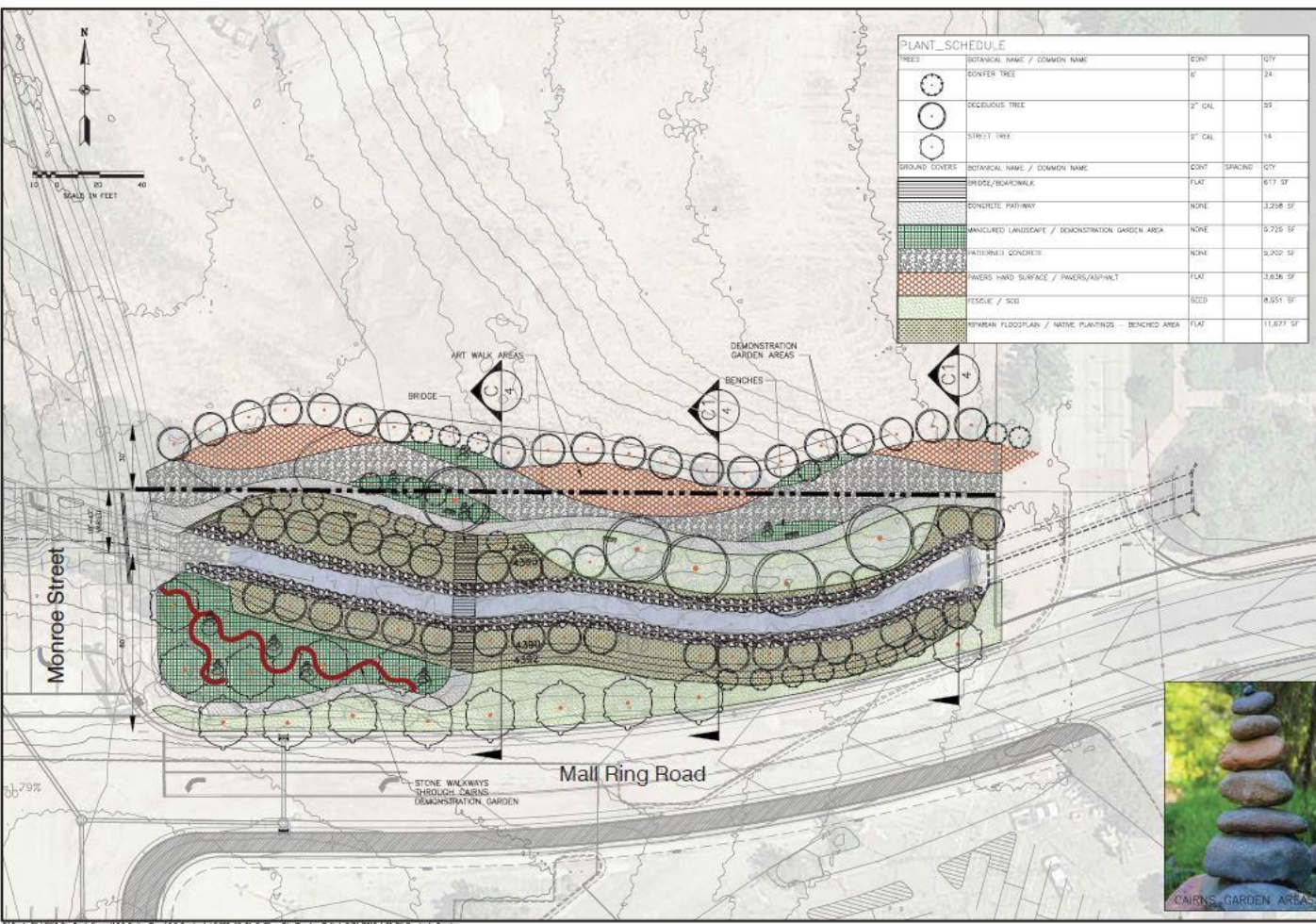


Phase 5

Phase 2 (Monroe to Centennial)



Phase 2 (Monroe to Centennial)



PLANT SCHEDULE				
TREES				
	BOTANICAL NAME / COMMON NAME	COV'T	SPACING	QTY
	CONIFER TREE	6'		24
	DECIDUOUS TREE	2" CAL		99
	STREET TREE	2" CAL		14
GROUND COVERS				
	BOTANICAL NAME / COMMON NAME	COV'T	SPACING	QTY
	BRIDGE/BOARDWALK	FLAT		617 SF
	CONCRETE PATHWAY	NOVE		3,258 SF
	MANUFACTURED LANDSCAPE / DEMONSTRATION GARDEN AREA	NOVE		5,325 SF
	INTERWOVEN CONCRETE	NOVE		3,302 SF
	PAVERS HARD SURFACE / PAVERS/ASPHALT	FLAT		3,636 SF
	SEDUM / SEDUM	SEED		8,951 SF
	WETLAND FLOODPLAIN / NATIVE PLANTINGS / BENCHED AREA	FLAT		11,677 SF



- Section A**
- Keeps flood zone separate from public space
 - Provides 30' of art walk space
 - Maintains existing low flow channel
 - Benched to allow for the 100-year flood

- Section B**
- Opens up flood zone for public use
 - Provides 55' of art walk space/passive recreation
 - Maintains existing low flow channel
 - Benched on one south side for the 100-year flood



ONLINE
**DRY CREEK
 30% SITE, GRADING
 AND LANDSCAPE PLAN**
 DATE: JULY 2017
 DRAWING NO.
C-1
 SHEET 3 OF 4

REACH B: \$700,000

- 2,000 Feet of Trail along Dry Creek \$200,000
- 2,000 Feet of Sidewalk and Road Improvements along 10200 South \$500,000

REACH C: \$7 M

- Phase 1 - Complete
- Phase 2 \$400,000
 - Channel: \$160,000
 - Trail: \$40,000
 - Art Walk: \$200,000
- Phase 3 \$400,000
 - Channel: \$160,000
 - Trail: \$40,000
 - Art Walk: \$200,000
- Phase 4 \$200,000
 - Channel/Bank Cleanup \$70,000
 - 700 Feet of Trail \$70,000
 - Neff's Grove Clean-up \$60,000
- Phase 5 \$1.5 M
 - 650 Feet of Canal Enclosure (\$1.3 M)
 - 650 Feet of Trail (\$65,000)
 - Channel Improvements \$135,000
- Phase 6 \$2.7 - \$5.7 M
 - State Street Pedestrian Underpass \$1.5 M
 - State Street Flood Control Culvert \$1.5 M
 - State Street Overpass (Ped Bridge) \$4 M
 - State Street Property Fairbanks Acquisition \$1 M

REACH D: \$1.5 M

- 3,000 Feet of Trail (\$300,000)
- 3,000 Feet of Channel Restoration (\$1.2 M)

ALTERNATIVES

- Box Culvert at Centennial Parkway \$500,000
- Box Culvert West of Neff's Grove \$500,000

The following is a breakdown of estimated costs associated with each phase of Reach C. Additional costs are also provided for two additional Reaches, they are Reach C: which includes a Dry Creek channel restoration and trail located which is highlighted and Reach B: trail and Dry Creek channel improvements between State Street and UTA TRAX.



REACH C

Stakeholder and Community Engagement

Stakeholders

- Shops at South Towne
- SL County Flood Control
- SL County Parks Recreation
- UDOT
- Utah DEQ & Division of Water Quality
- Sandy Public Utilities, Parks, Engineering, Community Development, etc.

Community Engagement

- Public workshops
- Groundbreaking Event
- Ongoing Design outreach
- Dimple Dell Advisory Committee
- Meetings with local property owners

Project Schedule

2018 - Construct Phase 2 (Monroe to Centennial) and Neff's Grove

May 11th Water Week groundbreaking w/stakeholders & public

10200 South State Street and Centennial Parkway culverts

Obtain flood improvement funding in 2018 (and Parks/Trails if possible)

10200 S. at State = approx. \$500K

Centennial Parkway = \$100k to \$400k

Design 2018

Construct 2019/20 (goal)

FEMA Flood Map update

2018 Obtain Conditional Letter of Map Revision (CLOMR) from FEMA

2018-2020 Construction

2020? - Final Letter of Map Revision (Flood Maps are updated at this time)