

Transportation Improvement Program







Transportation Improvement Program is . . .

1. Six Year Program of Highway & Transit
 - Four Years Funded - Two Years Concept
2. In the Urban Areas
 - Salt Lake/ West Valley - Ogden/ Layton
3. Funded by
 - Federal, State, & Local Programs
4. For All Cities, Counties, UDOT & UTA



Transportation Improvement Program will . . .

1. Implement the Long Range Plans
 - Highway, Transit, & Active Transportation Projects for the Region
2. Help Meet the Short Range Needs
 - Of the Wasatch Front Area
3. Provide for the Maintenance
 - Of the Existing Transportation System



Transportation Improvement Program's Dynamics . . .

1. Periodic Modifications due to
 - Project Timing & Funding Amounts
2. Modifications Require Board Action
 - WFRC or Trans Com as Delegated
3. Updated Annually with
 - New Projects/ Funding Strategies



Transportation Improvement Program - Today . . .

- 4a. Report on Approved Board Modification
 - WFRC – March 22, 2018

- 4b. Approve New Board Modification
 - To the 2018-2023 TIP

- 4cde. Review New Projects
 - To Be Included in the Draft Programs
 - STP, CMAQ, and TAP
 - for the Draft 2019-2024 TIP

**4a - Report on
2018-2023 TIP
Board Modification #5**

Regional Council Meeting
March 22, 2018



2018-2023 Transportation Improvement Program (TIP) (Amendment Five)

Board Modification

Scope Adjustments and Additional Funding

Ogden/ Layton Urban Area

County	Sponsor	Facility	PIN	Project Location	Concept/ Type of Improvement	Funding Source	Project Estimated Cost	Currently Funded Amount	Action	Funding Amount	Year
Weber	UDOT and North Ogden	450/ 400 East	14842	450 East/ 400 East; 2600 North to Elberta Drive	Widen existing roadway from 3-lane to 5-lane including improvements to curb, gutter, and sidewalks	STP_URB_O/L (Surface Transportation Program (STP) - Ogden/ Layton Urban Area)	\$13,786,000	\$3,600,000	<i>Additional Funding</i>	\$1,000,000	2017 - 2019
						STP_FLX_ST (STP Flexible (Any Area) Statewide)		\$2,000,000	<i>Additional Funding</i>	\$2,466,000	
						Local Funds (Weber Area Council of Government (WACOG) Funds)		\$2,650,000			
						Local Funds (North Ogden City Funds)		\$2,070,000			

In addition to the widening and improvements to 450 E/ 400 East and the intersection at Elberta Drive, UDOT has a project to widen and improve the intersection at Washington Blvd (450 E/ 400 East) and 2600 North, adding dual turn lanes and traffic flow improvements by widening and aligning all legs of the intersection with the adjacent City streets. In addition, North Ogden has a city project to widen and improve 2600 North east of the intersection adding an additional EB and WB lane to the City Hall and the Library. When UDOT was performing the latest studies in preparation for the project to begin, it was determined that unless more turning movement capacity (dual lefts on all legs) was part of the scope, the project would not benefit from the programmed improvements. Thus, this project needs to add a left turn lane in each direction and with the additional funding now, UDOT will advance construct all of the projects at the same time in 2019 to eliminate duplicate efforts, minimize impacts, and improve traffic management and safety for the surrounding area by constructing at one time rather than several different projects.

Davis	UDOT	SR-60	15154	South Weber Drive (SR-60); Riverdale Road (SR-26) to 1150 West (SR-168)	Pavement Rehabilitation and Sidewalk Construction	STP_FLX_ST (STP Flexible (Any Area) Statewide)	\$1,006,790	\$675,000	<i>Additional Funding</i>	\$331,790	2018
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The existing pavement on this section of road has deteriorated faster than expected and while rehabilitating the road Region One desires to add scope to this project by extending the sidewalk under the I-84 structure on the east side of SR-60, contingent upon the execution of a betterment agreement with Riverdale City. A sidewalk currently exists on the west side of SR-60. The proposed additional funding will come from Region One's 2017 Pavement Rehabilitation Program.

Salt Lake/ West Valley Urban Area

County	Sponsor	Facility	PIN	Project Location	Concept/ Type of Improvement	Funding Source	Project Estimated Cost	Currently Funded Amount	Action	Funding Amount	Year
Salt Lake	UDOT	Little Cottonwood Canyon	16092	Little Cottonwood Canyon	Environmental Impact Study, Phase II - Scope and Funding Addition	ST_TIF (State Transportation Investment Funds)	\$5,000,000	\$2,000,000	<i>Additional Funding</i>	\$3,000,000	2018

Phase I began the environmental impact study (EIS) process up through Alternatives Development. This phase of the study is scheduled to be completed by August, 2018. Phase II will complete the EIS process from Alternatives Development through the final Record Of Decision (ROD). Funding in the amount of \$3,000,000 is requested from the Recreational Hotspot - Transportation Investment Fund (TIF) Program.

2018-2023 Transportation Improvement Program (TIP) (Amendment Five)

Board Modification

New Projects

Salt Lake/ West Valley Urban Area

County	Sponsor	Facility	PIN	Project Location	Concept/ Type of Improvement	Funding Source	Project Estimated Cost	Currently Funded Amount	Action	Funding Amount	Year
Salt Lake	UDOT	SR-68	16424	Redwood Road (SR-68); 9000 South to 12600 South	Restripe Redwood Road from 5 Lanes to 7 Lanes - Eliminate Choke Point	STP_FLX_ST (STP Flexible (Any Area) Statewide)	\$2,000,000	\$0	<i>New Project</i>	\$2,000,000	2018
								\$0			

Because the roadway width is already sufficient, this project scope will only include grinding off the existing striping and re-striping to a 7 lane configuration. It does not include any work beyond the existing curb and gutter on either side of the street. The estimate includes the grinding, the replacement of the pavement markings at the existing intersections, repair of areas where the pavement is distressed, several utility access adjustments, and both the air and noise analysis for the environmental document. The available funds will come from Region Two's deobligation funds (funds that are returned to the Regions because of project cost savings and favorable bids).

Tooele	UDOT	SR-138	15578	SR-138, Stansbury Park Underpass Partnership	Construct Pedestrian/ Bicycle Underpass	STP_TAP_ST (Converted TAP Funds to STP)	\$1,800,000	\$0	<i>New Project</i>	\$400,000	2018
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This project will construct a tunnel under SR-138 to address a growing safety concern with school kids and other pedestrians crossing in this area of increasing density and population. This project is a local government partnership with a total project value of ~\$1.8 Million. Funding is requested from Transportation Alternative Program funds.

4b - 2018-2023 TIP Board Modification

Trans Com Meeting

April 19, 2018



2018-2023 Transportation Improvement Program (TIP) (Amendment Six)

Board Modification

Project Scope Change

Salt Lake/ West Valley Urban Area

County	Sponsor	Facility	PIN	Project Location	Concept/ Type of Improvement	Funding Source	Project Estimated Cost	Currently Funded Amount	Action	Funding Amount	Year
Salt Lake	Salt Lake City	Var	13631	Bike Share Expansion	- Original Scope - Construct Additional Bike Docking Stations and Purchase Additional Bikes - Scope Change to include the Purchase of a Re-balancing Vehicle	TAP_URB_WFRC (Transportation Alternatives Program - (WFRC))	\$150,000	\$150,000	<i>No Funding Increase</i>	\$150,000	2018

This request is to enable SLC Bike Share to use some of the TAP funds to purchase a rebalancing vehicle in addition to the construction of the new bike stations and the purchasing of additional bicycles. The existing vehicle used by SLC Bike Share is an old renovated repurposed UTA van and is long overdue for replacement. The existing vehicle is experiencing mechanical issues and is too small to adequately perform the duties required for rebalancing the bike share stations. The vehicle holds approximately eight bicycles, and is responsible for aiding bike share staff in rebalancing 33 stations and over 300 bicycles in the system. This poses a hardship on staff time and budget constraints, as many of the stations need upwards of 10 to 15 bicycles removed and reallocated at peak times.

New Project

Ogden / Layton Urbanized Area

County	Sponsor	Facility	PIN	Project Location	Concept/ Type of Improvement	Funding Source	Project Estimated Cost	Currently Funded Amount	Action	Funding Amount	Year
Box Elder	UDOT	I-84	16666	I-84; Fence Repairs in Box Elder County	Replace damaged or missing fence along I-84	STP_FLX_ST (STP Flexible (Any Area) Statewide) Transportation Solutions Program (UDOT Region One TSP Balance)	\$900,000	\$0	<i>New Funding</i>	\$900,000	2018

There are several locations along I-84 in Box Elder County between milepost 20 and milepost 42 where the fence placed with the original construction of the Interstate has fulfilled its service life. Many of these sections potentially allow both wildlife and livestock to enter the right of way. The proposed improvements will replace the existing fence with new fence in coordination with Utah Division of Wildlife Resources (DWR) the fence will be replaced with Deer Fence in prioritized locations. The requested funds will come from Region One's Transportation Solutions Program's unfunded balance.

Additional Funding

Ogden / Layton Urbanized Area

County	Sponsor	Facility	PIN	Project Location	Concept/ Type of Improvement	Funding Source	Project Estimated Cost	Currently Funded Amount	Action	Funding Amount	Year
Weber	UDOT	SR-134	12508	SR-134 (2700 North); Interchange Modifications	Construct additional lanes on 2700 North	HSIP (Highway Safety Improvement Program) STP_FLX_ST (STP Flexible (Any Area) Statewide) Transportation Solutions Program (UDOT Region One TSP Balance)	\$8,200,000	\$6,200,000	<i>Additional Funding</i>	\$2,000,000	2018

The funded scope of the project is to provide additional lanes on SR-134 to help increase operations around the SR-134 and I-15 Interchange. Operations are improved by adding an additional lane east and west bound on SR-134 from I-15 to Rulon White. The additional funds will provide a mill and fill to remove the existing seal coat and place a new one that aligns with the proposed lane lines. The additional funding would come from the Region One's 2018 Transportation Solutions Program's unfunded balance.

Bike Share Expansion

Legend
● GREENbike Stations
□ Phase 2: 50 Stations

**Expand the Scope to Include a Rebalancing Vehicle
- No Additional Funds**



2100 S Fwy

S-2300 E

Box Elder County – I-84; Fence Repairs

Replace/ Repair Missing or Damaged Fence between MP 20 and MP 42



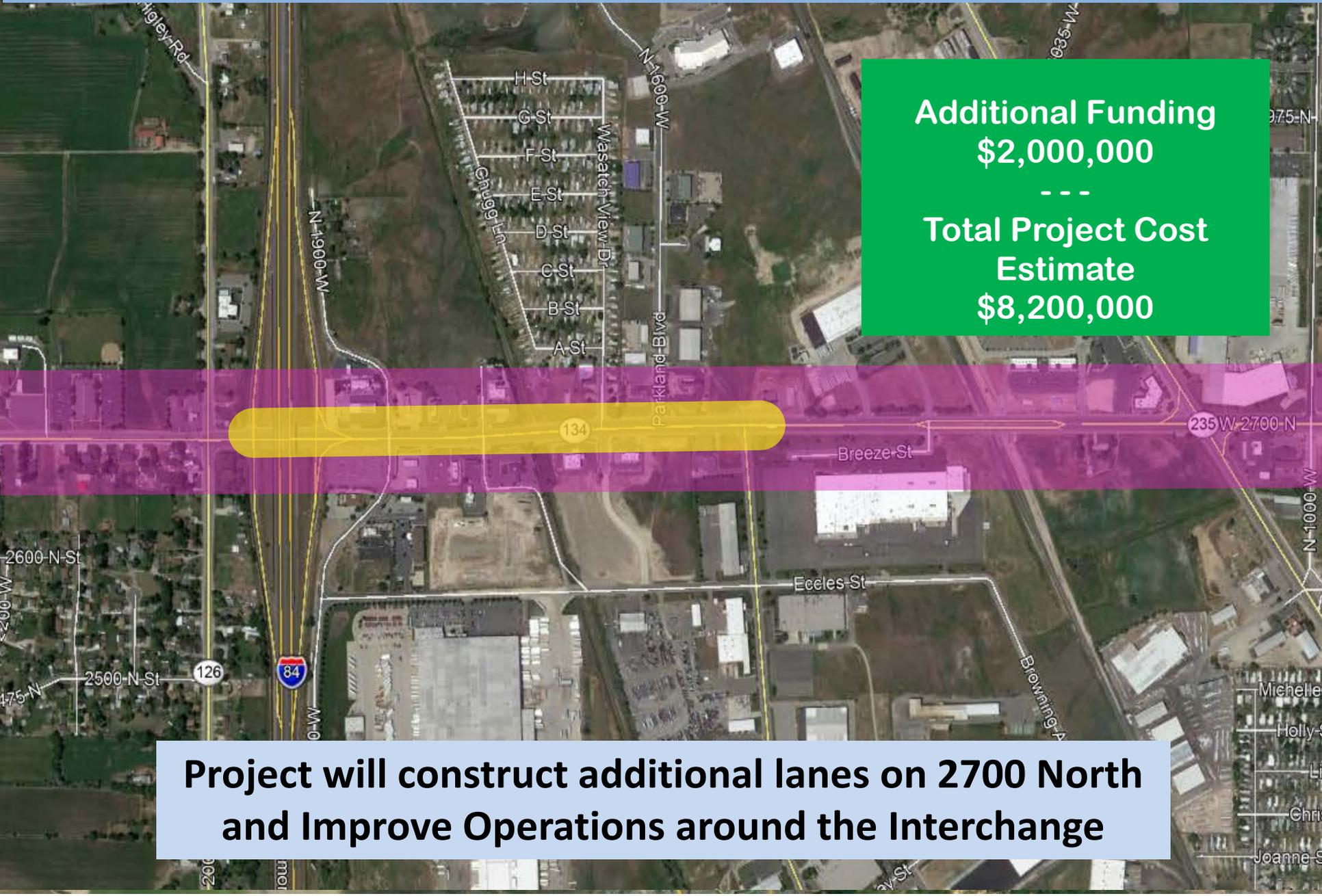
Project will replace damaged or missing fence to prevent wildlife and livestock to enter the right of way

SR-134 (2700 North); Interchange Modifications

Additional Funding
\$2,000,000

Total Project Cost Estimate
\$8,200,000

Project will construct additional lanes on 2700 North and Improve Operations around the Interchange



2018-2023 Transportation Improvement Program (TIP) (Amendment Six)

Board Modification

Additional Funding

Ogden / Layton Urbanized Area

County	Sponsor	Facility	PIN	Project Location	Concept/ Type of Improvement	Funding Source	Project Estimated Cost	Currently Funded Amount	Action	Funding Amount	Year
Davis	UDOT	I-15	16124	I-15; 200 North Kaysville Southbound Ramp	Widen the South-bound on Ramp	NHPP_IM (National Highway Performance Program - Interstate Maintenance)	\$850,000	\$500,000	<i>Additional Funding</i>	\$350,000	2018

The Region request approval to add funding to the I-15; 200 North Kaysville South Bound Ramp Meter project. The additional funds are need to provide sufficient ramp widening to provide adequate storage for the ramp meters to avoid backing onto 200 North. The requested funds are available from unprogrammed balance in the Region One Transportation Solutions Program.

Salt Lake/ West Valley Urban Area

County	Sponsor	Facility	PIN	Project Location	Concept/ Type of Improvement	Funding Source	Project Estimated Cost	Currently Funded Amount	Action	Funding Amount	Year
Salt Lake	UDOT	SR-154	12566	Bangerter Highway Interchanges at (5400 South, 7000 South, 9000 South, and 11400 South)	Replace existing signalized intersections with grade-separated interchanges	L_Betterment (Local Government - Betterment CO-OP)	\$214,171,462	\$201,371,462	<i>Additional Funding</i>	\$12,800,000	2018
						ST_TIF (State Transportation Investment Funds)					

The current funding allocated for this project was based on replacing existing four signalized intersections at 5400 South, 7000 South, 9000 South and 11400 South with freeway-type Interchanges. The cost of the project increased is based on (1) current real estate market value – Right-of-way acquisitions have increased by \$6M and (2) construction costs due to complexity of the four interchanges dealing with utilities. (i.e. The Bureau of Reclamation (BOR) 78-inch water aqueduct and the high transmission Rocky Mountain Power lines) totalling more than \$6.8 million. The request for the additional funding will come from unprogrammed Transportation Investment Funds (TIF).

Salt Lake	UDOT	SR-68	11203	SR-68; Redwood Road, Bangerter Highway to 12600 South	Widen to a 7-lane facility	L_Betterment (Local Government - Betterment CO-OP)	\$47,563,060	\$37,863,060			2018
						ST_CONCEPT_D2 (Region Two Concept Funds)					
						ST_Signals (State Construction - Signal Program)					
						ST_TIF (State Transportation Investment Funds)					
								<i>Additional Funding</i>	\$9,700,000		

This project was originally scoped and funded as a 5-lane cross section. Based on the traffic analysis during the project design, 7 lanes were ultimately needed to accommodate the projected increased capacity needs on Redwood Road. It was also determined that 2 intersections would need to be re-aligned and signalized for safety reasons and were included with the project. The project cost increase was a result of the expanded project scope and right of way negotiations extending the construction of the project into 2018.

Davis County – I-15; 200 North Kaysville Southbound Ramp Widening



New Funding

\$ 350,000

**Total Project Cost
Estimate \$ 850,000**

**Additional
Funding**

The additional funds are need to provide sufficient ramp widening to provide adequate storage for the ramp meters to avoid backing onto 200 North.

Salt Lake County – Porter Rockwell Blvd (Seg. 5)

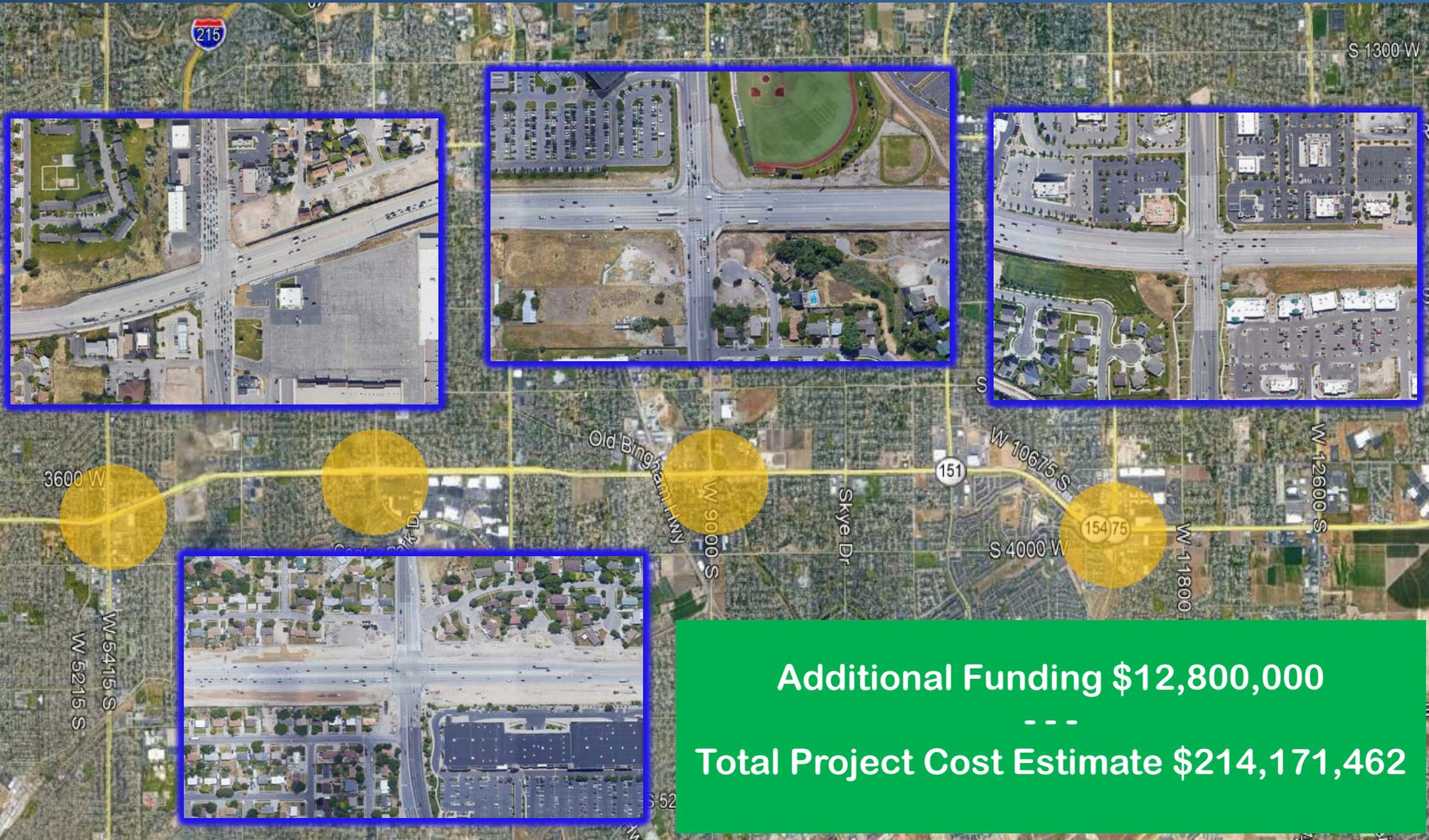
Located at Redwood Road to 0.46 miles east



Salt Lake County – Bangerter Highway Interchanges

Located at 5400 South, 7000 South, 9000 South, 11400 South

Cost Increase due to ROW and Utilities



Additional Funding \$12,800,000

Total Project Cost Estimate \$214,171,462

Salt Lake County – SR-68; Redwood Road Bangerter Highway to 12600 South Widen to a 7-Lane Facility

Additional Funding
\$ 9,700,000

Total Project Cost
Estimate \$ 47,563,060



Additional Funding

The additional funds are necessary due to additional ROW, Project Pushed into 2018, and Intersection Improvements Including Signalization and Re-alignment

2018-2023 Transportation Improvement Program (TIP) (Amendment Six)

Board Modification

Additional Funding

Ogden / Layton Urbanized Area

County	Sponsor	Facility	PIN	Project Location	Concept/ Type of Improvement	Funding Source	Project Estimated Cost	Currently Funded Amount	Action	Funding Amount	Year
Weber	UDOT	I-84	14264	I-84 bridges over the Weber River and UPRR Project	Bridge Replacement	NHPP_BR (National Highway Performance Program - Bridge On) Transportation Solutions Program (UDOT Region One TSP Balance)	\$36,000,000	\$16,800,000	<i>New Funding</i>	\$19,200,000	2021-2023

This project was approved for \$16,800,000 in 2020. A feasibility study was recently completed for these two bridges to determine best strategy for replacement. The outcome of the study indicated a need for more funding. This Request is to increase the project value to \$36,000,000, and to cash flow the funding over three years; \$5,000,000 in 2021 for design, \$15,500,000 in 2022 for first year of construction, and \$15,500,000 in 2023 for the second construction season. The additional funding is available from unprogrammed efficiency balance within the Structures program, \$6.58 million, and \$1.55 million from the Statewide Transportation Solutions program.

Statewide

County	Sponsor	Facility	PIN	Project Location	Concept/ Type of Improvement	Funding Source	Project Estimated Cost	Currently Funded Amount	Action	Funding Amount	Year
Var	UDOT	Var	9369	The Bridge Inspection Program Various Locations across the State	The Bridge Inspection Program	STP_FLX_ST (STP Flexible (Any Area) Statewide) NHPP_BR (National Highway Performance Program - Bridge On) STP_Bridge (Surface Transportation Program - Bridge for State Projects) Bridge_On/Off (Bridge Rehab/ Replacement (On/Off))	\$10,269,673	\$0 \$3,456,000 \$4,544,000 \$69,673	<i>New Funding</i>	\$2,200,000	2018-2021

Request to add \$400,000 for each of the years 2018 through 2021 to account for an increase in inspection costs due to inflation and due to additional condition-based-inspection requirements. Additionally, request to add an additional \$600,000 in the year 2019 for the Underwater Bridge Inspection Program which is required by FHWA every five years. This would add a total of \$2.2 million to this program.

Var	UDOT	Var	9615	The Structural Load Rating Maintenance Program Various Locations across the State	The Structural Load Rating Maintenance Program	NHPP_BR (National Highway Performance Program - Bridge On) ST_Bridge (State Construction Bridge Program)	\$1,330,000	\$400,000 \$30,000	<i>New Funding</i>	\$900,000	2019-2021
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Request to add \$300,000 for each of the years 2019 through 2021 to account for additional load ratings needed for emergency vehicles as mandated by FHWA and additional load ratings that are necessary as bridge conditions change due to aging. This would add a total of \$900,000 to this program.

Morgan County – I-84 bridges over the Weber River and UPRR Project

Bridge Replacement



Additional Funding
\$ 19,200,000

Total Project Cost
Estimate \$36,000,000

**Additional
Funding**

**Initially Programmed for 2020 – Study Indicated
Additional Work – Additional Funding
Over 3 Years 2021, 2022, 2023
Design – Construction - Construction**

The Bridge Inspection Program - Statewide

Additional Funding
\$2,200,000
Total Program
\$10,269,673



The Structural Load Rating Maintenance Program - Statewide

Structural Integrity
Safety & Stability

Costs
To Agencies & Users

**BRIDGE
PERFORMANCE**

**Structural
Condition**
Durability &
Service Ability

Additional Funding
\$900,000
Total Program
\$1,330,000

Functionality
To User Safety
& Service

2018-2023 Transportation Improvement Program (TIP) (Amendment Six)

Board Modification

Project Scope Change

Ogden/ Layton Urban Area

County	Sponsor	Facility	PIN	Project Location	Concept/ Type of Improvement	Funding Source	Project Estimated Cost	Currently Funded Amount	Action	Funding Amount	Year
Weber	UDOT	SR-53	14263	24th Street (SR-53) - Viaduct Rehabilitation in Ogden Project	24th Street Viaduct Rehabilitation	ST_Bridge (State Construction Bridge Program)	\$9,550,000	\$12,152,000	Funding Reduction	\$7,377,000	2019-2020
						STP_BRIDGE (STP Bridge Funds for State Projects)		\$14,151,000		\$9,376,000	

This project was approved for \$26,300,000 in 2020. The original scope included a complete deck replacement. A recently completed feasibility study determined that a deck replacement is not necessary and the rehabilitation could be completed in a less expensive manner. Request is to reduce total project value to \$9,550,000, (a reduction of \$16.75 Million); with \$1,000,000 in 2019 for design and \$8,550,000 in 2020 for construction. \$1.55 million of the cost will be for an ADA ramp on the east side of the structure, using Statewide 2020 Transportation Solutions funds.

Salt Lake/ West Valley Urban Area

County	Sponsor	Facility	PIN	Project Location	Concept/ Type of Improvement	Funding Source	Project Estimated Cost	Currently Funded Amount	Action	Funding Amount	Year
Salt Lake	UDOT	SR-266	13800	Jordan River Bridge at SR-266 (4500 South) Project	Originally programmed to be Rehabilitated Recommended that the Bridge needs to be evaluated for replacement	NHPP_BR (National Highway Performance Program - Bridge On)	\$0	\$720,000	Remove from Program	\$720,000	2018

This rehabilitation project was funded for 2019 with \$720,000. Due to continued deterioration, this bridge needs to be evaluated for replacement rather than rehabilitation. Request is to remove from the STIP and evaluate for a replacement project in the appropriate year.

New Project

Salt Lake/ West Valley Urban Area

County	Sponsor	Facility	PIN	Project Location	Concept/ Type of Improvement	Funding Source	Project Estimated Cost	Currently Funded Amount	Action	Funding Amount	Year
Salt Lake	UDOT	I-80	New	I-80 at Glendale Ave	Sound Barrier	2018 State Legislative Session House Bill 2	\$1,700,000	\$0	New Funding	\$1,700,000	2018
Salt Lake	UDOT	I-80	New	5600 West (SR-172) & Paulette Ave	Sound Barrier	2018 State Legislative Session House Bill 3	\$550,000	\$0	New Funding	\$550,000	2018

During the 2018 State Legislative Session, House Bill 2 and 3 (New Fiscal Year Supplemental Appropriations Act, and Appropriations Adjustments), were passed. In these Bills it included language to use Transportation Funds to fund the following projects:

Weber County – 24th Street (SR-53) - Viaduct

Bridge Rehabilitation and Pedestrian Improvements



Funding Reduction

\$ 16,753,000

Total Project Cost
Estimate \$9,550,000



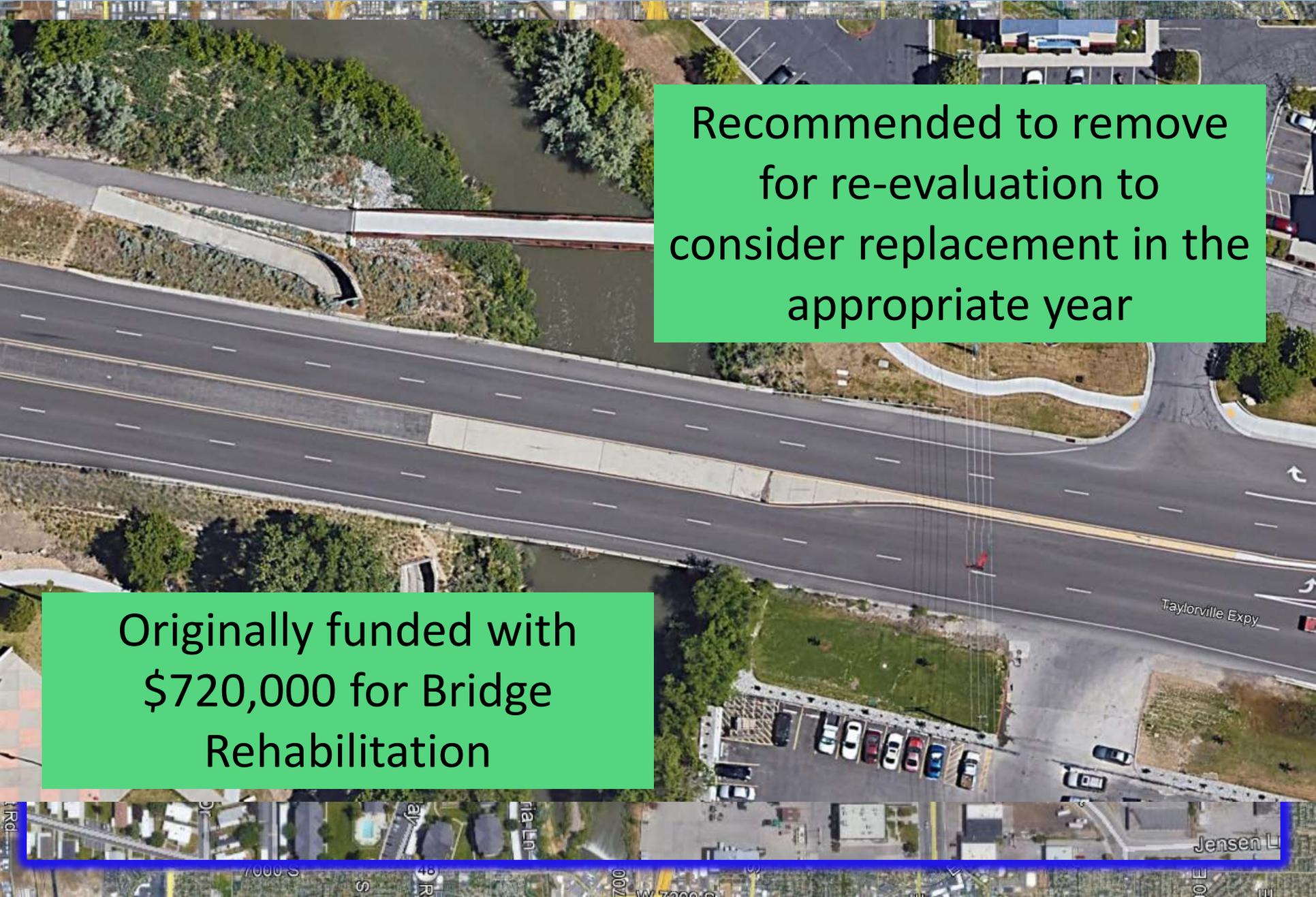
**Additional
Funding**

Initially the Viaduct was to have a deck replacement but a feasibility study determined that a deck rehabilitation would correct the issues. Funding would improve the pedestrian access on the East end.

Salt Lake Co - Jordan River Bridge at SR-266 (4500 South)

Recommended to remove for re-evaluation to consider replacement in the appropriate year

Originally funded with \$720,000 for Bridge Rehabilitation



Salt Lake County – Construct Sound Barrier

Funded with House Bill 2

Located at I-80 at Glendale Avenue

New Project Funding - \$ 1,700,000



Salt Lake County – Intersection Improvements

Funded with House Bill 3

Located at 5600 West (SR-172) & Paulette Avenue

New Project Funding - \$ 550,000



Weber County – Intersection Improvements

Funded with House Bill 3

Located at Along SR-134 (2700 North) – Adjacent to Canal

New Project Funding - \$ 850,000





- 4c - Surface Transportation Program (STP)**
- 4d - Congestion Mitigation/ Air Quality (CMAQ)**
- 4e - Transportation Alternative Program (TAP)**

Project Recommendations *for the* **2019 - 2024 TIP**

Trans Com

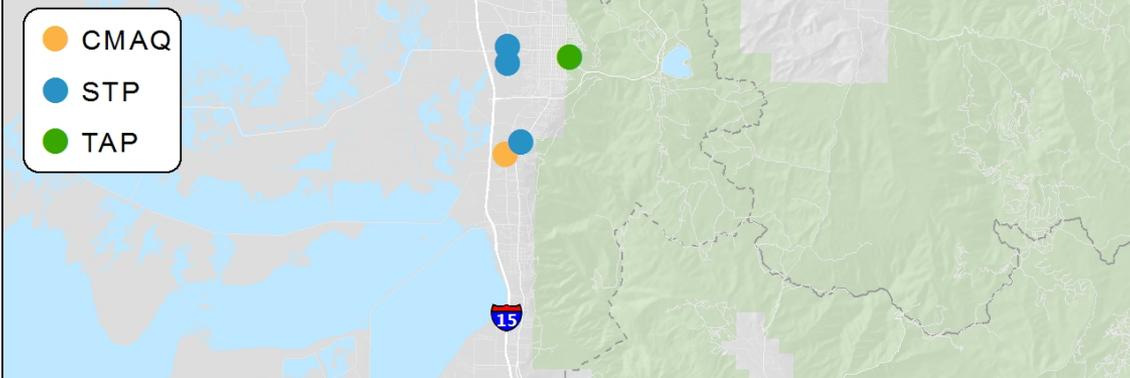
April 19, 2018



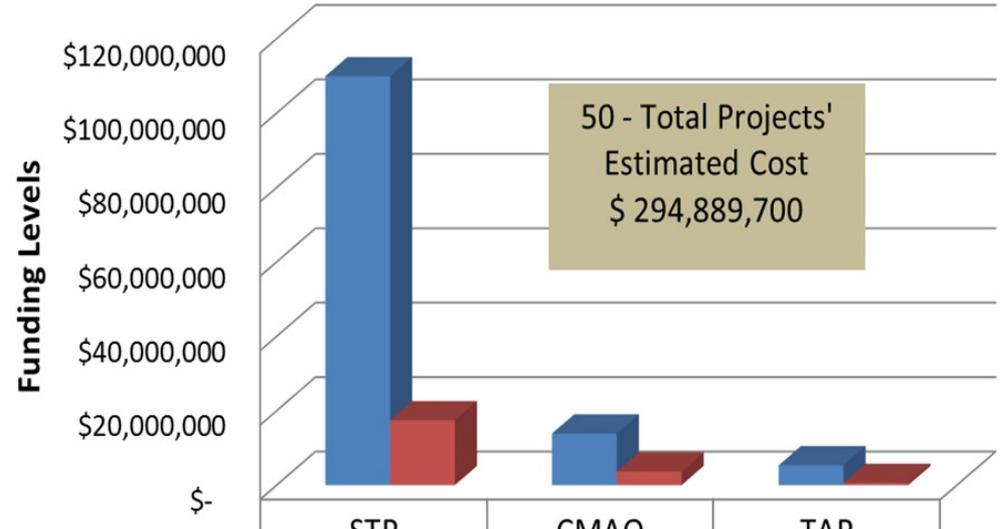
Process for New Projects & The Draft TIP



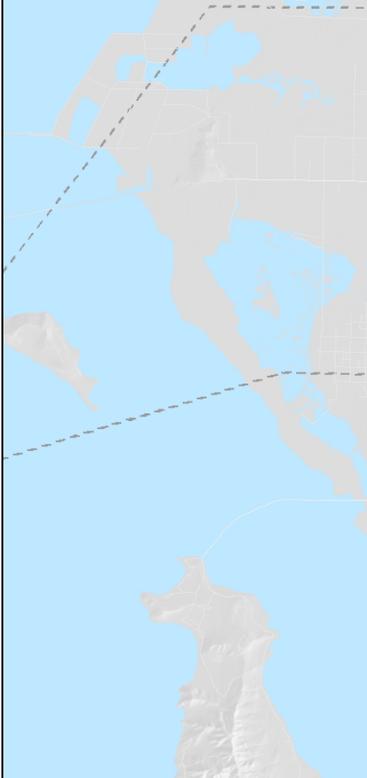
- CMAQ
- STP
- TAP



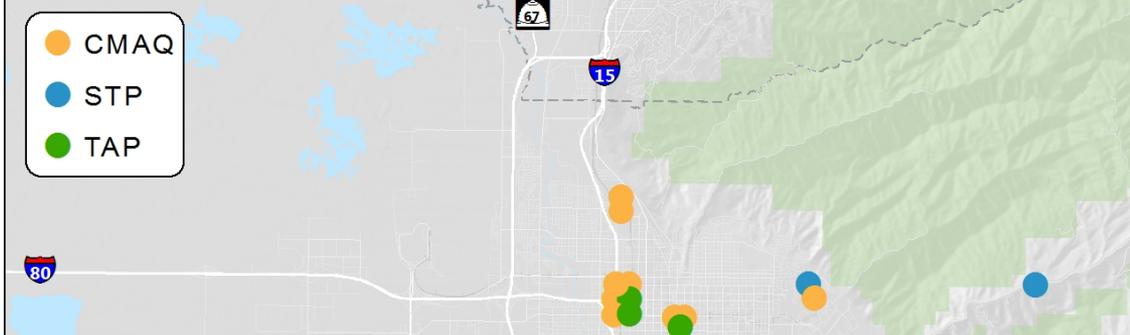
Ogden/ Layton Urban Area



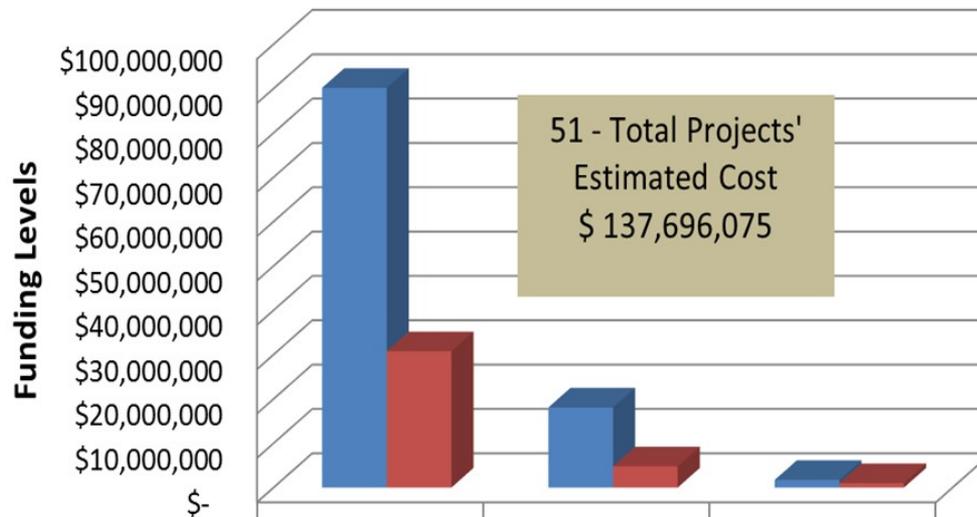
	STP	CMAQ	TAP
■ Requested	\$109,903,076	\$13,857,382	\$5,334,812
■ Available	\$17,437,053	\$3,648,415	\$591,516



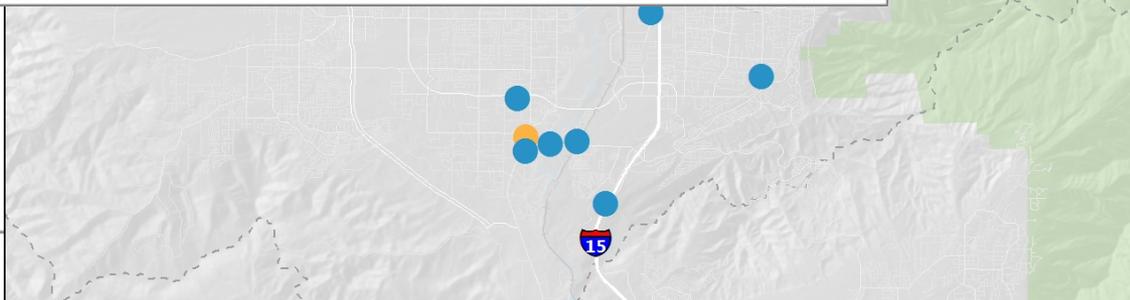
- CMAQ
- STP
- TAP



Salt Lake/ West Valley Urban Area



	STP	CMAQ	TAP
Requested	\$90,153,643	\$18,067,271	\$1,720,897
Available	\$30,758,457	\$4,781,317	\$990,577



The Evaluation Process

- **Letters of intent, concept reports, field reviews:**
All provide data for project evaluation and scoring
- **Other relevant professional considerations...**
- **Provide information and recommendations to the Technical Advisory Committees (TACs) to prioritize projects**
- **TACs recommend projects to Trans Com**



Resources for Project Selection

- Distribution of Project Scores, such as:
 - Congestion
 - Access
 - Pavement condition
 - Safety
 - Emissions / Air quality
- Other relevant professional considerations, such as:
 - Field Review Comments
 - Equity of Funding
 - Sponsor's Project History
 - Project Synergy
 - Project Timing Efficiencies
 - Complete Systems
 - Project Costs



Resources for Project Selection

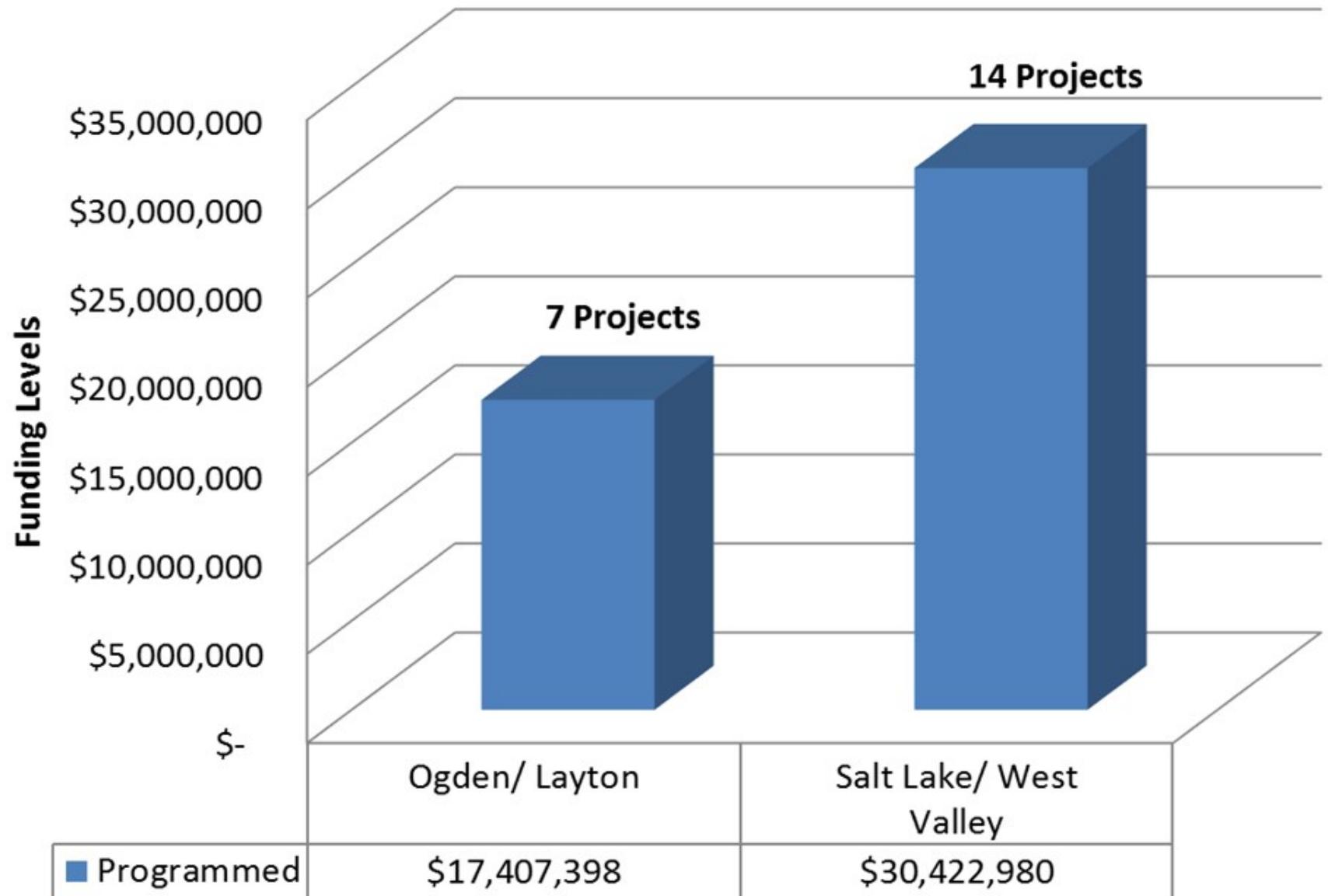
- Distribution of Project Scores, such as:
 - Congestion
 - Access
 - Pavement condition
 - Safety
 - Emissions / Air quality



- Other relevant professional considerations, such as:
 - Field Review Comments
 - Equity of Funding
 - Sponsor's Project History
 - Project Synergy
 - Project Timing Efficiencies
 - Complete Systems
 - Project Costs



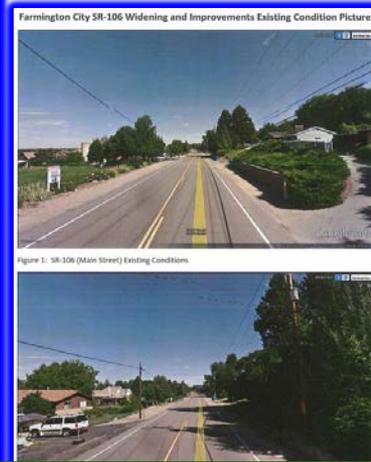
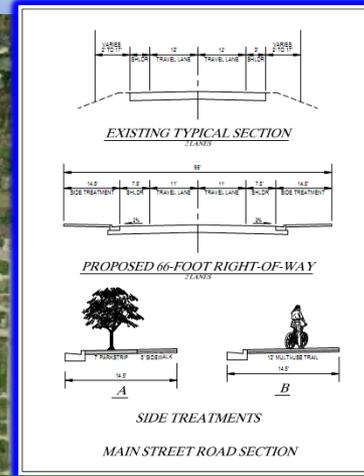
Surface Transportation Program (STP) Funds



Farmington City – SR-106 (Main Street) – Reconstruct & Minor Widening

Project Type – Reconstruction

Park Lane to Shepard Lane



Recommended Funding \$ 1,851,921



**Project Cost –
\$ 1,986,400**

**Funds Request
\$ 1,851,921**

The proposed project is intended to improve drainage and add pedestrian facilities to the section of SR-106 (Farmington Main Street) between Park Lane and Shepard Lane on the west side of the road. The project will include storm drain, curb and gutter, sidewalk and pavement widening to allow for standard shoulder width.

UTA – Ogden-WSU Bus Rapid Transit (Construction)

Project Type - Transit

Ogden Intermodal HUB (23rd/Wall) and McKay Dee Hospital (48th/Harrison)

**OGDEN-WSU
BUS RAPID TRANSIT PROJECT**

OGDEN-WSU
BUS RAPID TRANSIT
BEG PROJECT

Connects major destinations in Ogden to FrontRunner

Helps reduce congestion and parking demand at WSU

Map labels: 24TH ST, 23RD ST, 25TH ST, 28TH ST, 30TH ST, 32ND ST, WALL ST, LINCOLN AVE, GRANT AVE, KESSE AVE, WASHINGTON BLVD, ADAMS AVE, JEFFERSON AVE, MADISON AVE, MONROE BLVD, QUINCY AVE, JACKSON AVE.

Map labels: HARRISON BLVD, WSU, SPECIAL EVENT STOP ONLY.

Recommended Funding \$ 3,500,000

Promotes economic development

OGDEN-WSU
BUS RAPID TRANSIT
END PROJECT

DESIGN PLANS

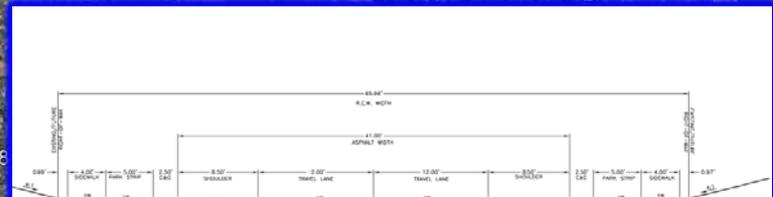
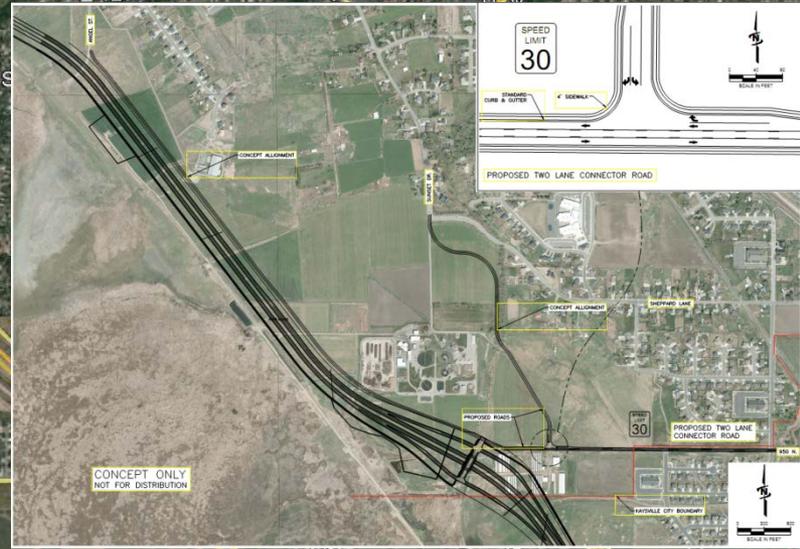
**Project Cost –
\$ 75,000,000**

**Funds Request –
\$ 5,000,000**

The Ogden/Weber State University BRT will provide premium service between the Ogden intermodal and WSU/McKay Dee Hospital. The BRT will have 13 stations and operate on exclusive lanes from 30th and Harrison to the Dee Events Center. The O/M of this line comes from funds currently used on route 603 and Prop 1 sales tax.

Kaysville/ Farmington – West Davis Corridor – New Facility

West Davis Corridor to Shepard Lane & I-15



Recommended Funding \$ 4,300,000

**Project Cost –
\$ 10,833,600**

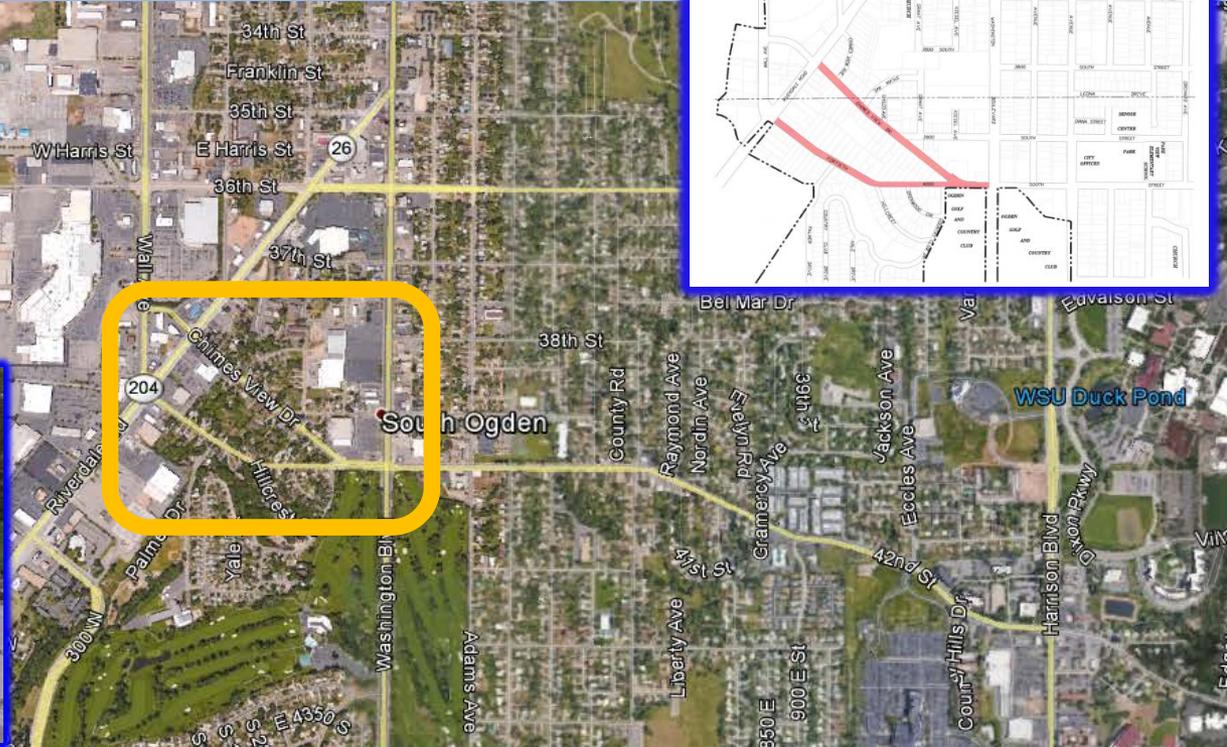
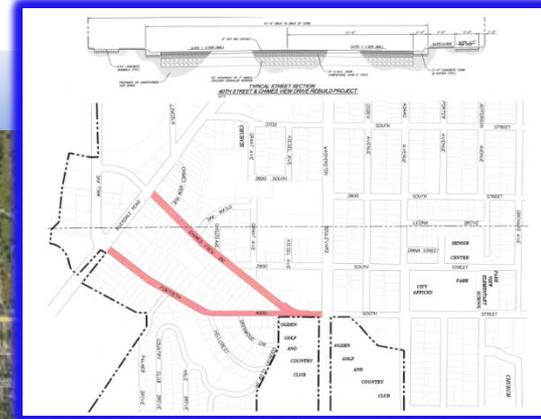
**Funds Request –
\$ 10,100,000**

This project will construct a new road connecting the proposed Shepard Lane interchange on I-15 to the West Davis Corridor and Sunset Drive. This new roadway will provide mobility and access to these two major transportation corridors. With this being a new roadway, 200 North in Kaysville was used for the traffic data.

South Ogden – 40th Street & Chimes View – Reconstruct w/ Minor Widening

Project Type – Reconstruction

Riverdale Road to Washington Blvd



Recommended Funding \$ 4,000,000

**Project Cost –
\$ 4,745,200**

**Funds Request –
\$ 4,423,950**

40th Street is a regional east-west corridor in Weber County that carries traffic to and from Weber State University, McKay Dee Hospital and shopping opportunities in Riverdale, South Ogden and Ogden City. The lower sections that will be improved as a part of this project are necessary in order for this corridor to be able to accommodate the increasing traffic.

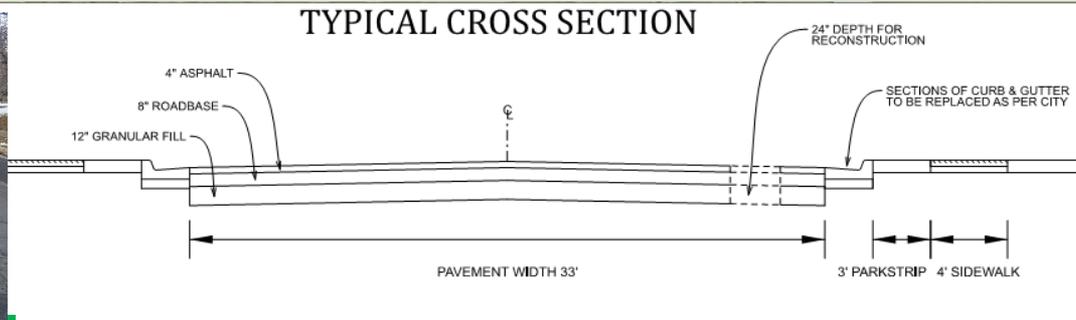
North Salt Lake – Main Street - Reconstruction

Project Type – Reconstruction

Center Street to 350 North



Recommended Funding \$ 1,223,364



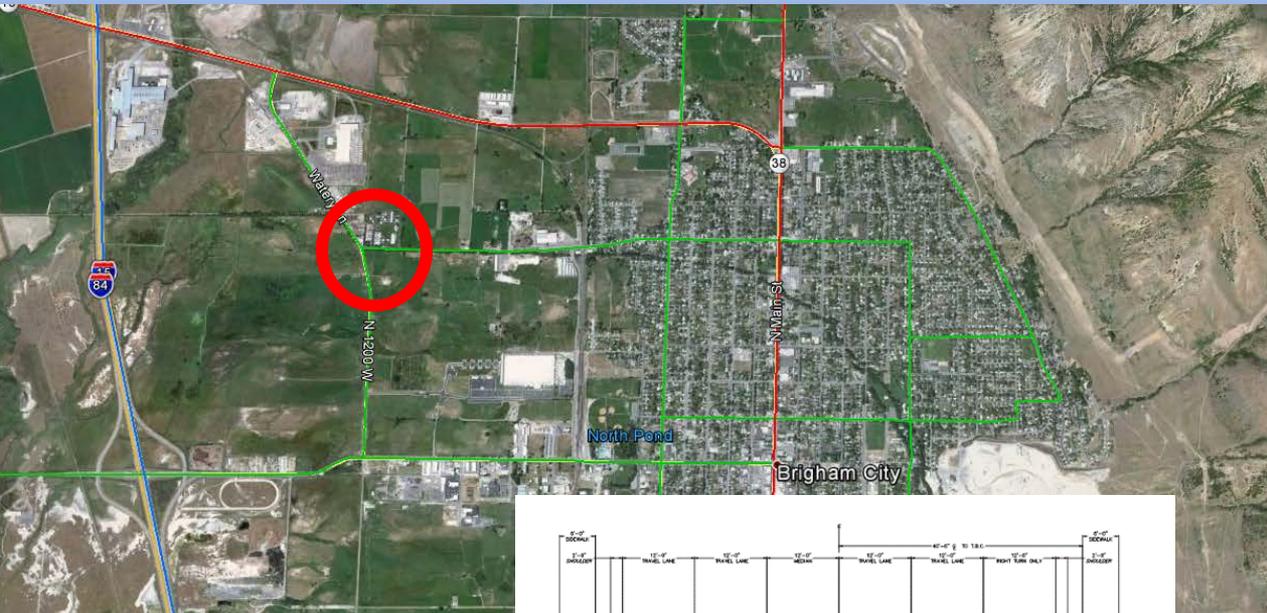
**Project Cost –
\$ 1,312,200**

**Funds Request –
\$ 1,223,364**

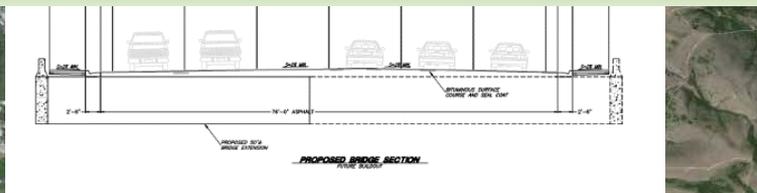
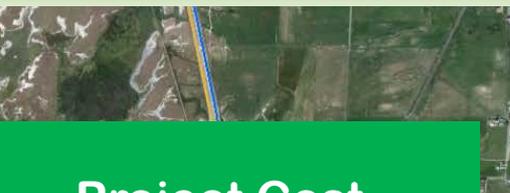
This portion of Main Street is very old and is in desperate need of attention. Patching of the potholes has become a constant task and the asphalt is failing. The project is also needed to accommodate increased future traffic, as significant and rapid redevelopment is occurring in and around this neighborhood.

Brigham City – 1200 West Box Elder Creek Bridge - Widening Project Type – Reconstruction

550 North to 650 North



Recommended Funding \$ 1,582,113



**Project Cost –
\$ 1,750,000**

**Funds Request –
\$ 1,582,113**

To widen an existing bridge on 1200 West over Box Elder Creek that will accommodate increasing traffic volumes from growing industrial and commercial uses. The project is part of planned improvements for 1200 West which will provide a north/south corridor between SR-13 in Brigham City and SR-315 in Willard.

UDOT – Connected Vehicle Infrastructure

Project Type – ATMS or ITS

Ogden/ Layton Urbanized Area



Recommended Funding \$ 950,000

Connected Vehicles are about to fundamentally alter traffic management capabilities by allowing the communication of vehicles to vehicles and vehicles to infrastructure via short range radio. This initial project will continue to develop connected vehicle technology using vehicle to infrastructure systems to help maintain bus schedules. This technique is intended to allow a bus that is behind schedule to request an extended green light cycle in order to help the bus maintain schedule.

**Project Cost –
\$ 1,200,000**

**Funds Request –
\$ 1,124,000**

UDOT/ Sandy City – Monroe - Intersection Improvements

Project Type – Operations

Monroe and 90th South (SR-209)



Recommended Funding \$ 4,200,000

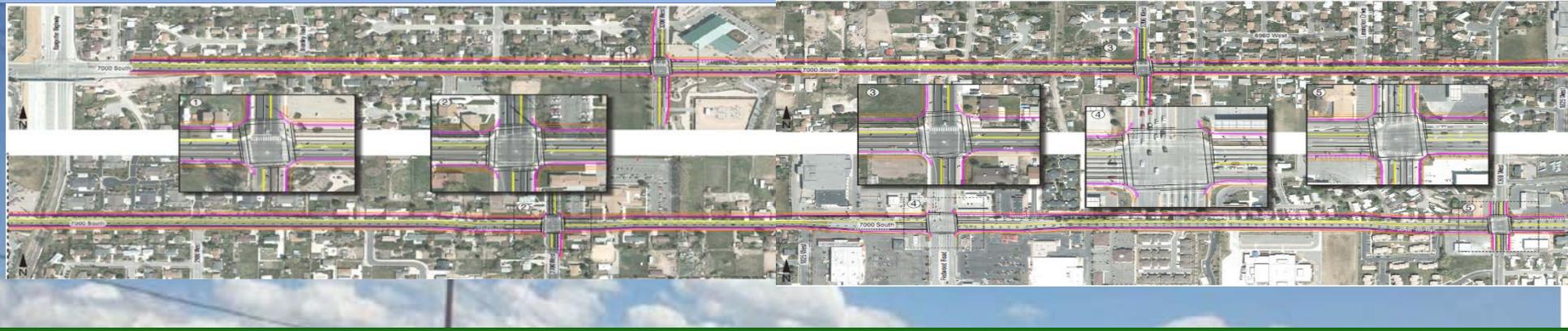


**Project Cost –
\$ 6,145,100
Funds Request –
\$ 5,729,077**

The purpose of this project is to widen Monroe and SR-209 to provide dual left turn lanes in all directions. This improvement would allow for less congestion by removing turning movements from the thru lanes and by clearing the left turn queue more efficiently.

West Jordan – 7000 South – Environmental Impact Statement Project Type - Study

1300 West to Bangerter Highway (SR-154)



Recommended Funding \$ 1,000,000



Presently there are 25,000 plus vehicles per day that use this important east -west arterial street. This traffic is projected to grow to up to 50,000 vehicles per day. This project will complete the NEPA documentation process to allow the future widening of 7000 South from an existing 4 and 5 lane roadway to a full 5 to 7 lanes with shoulders from 1300 West to SR-154.

**Project Cost –
\$ 2,000,000**

**Funds Request –
\$ 1,860,000**

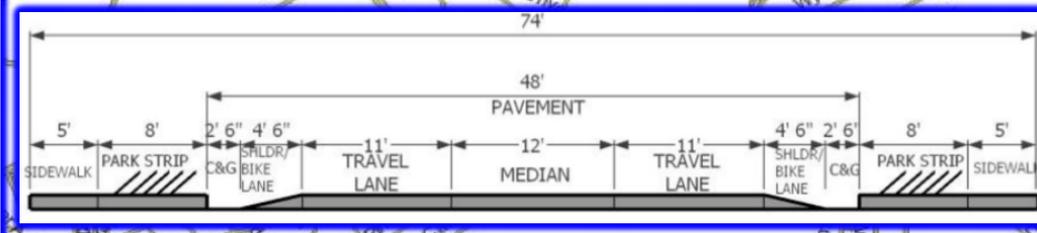
Draper – 1300 East – Reconstruction & Minor Widening

Project Type - Reconstruction

Wayne's World Drive to Nashi Lane



Recommended Funding \$ 3,270,000



**Project Cost –
\$ 3,600,000**

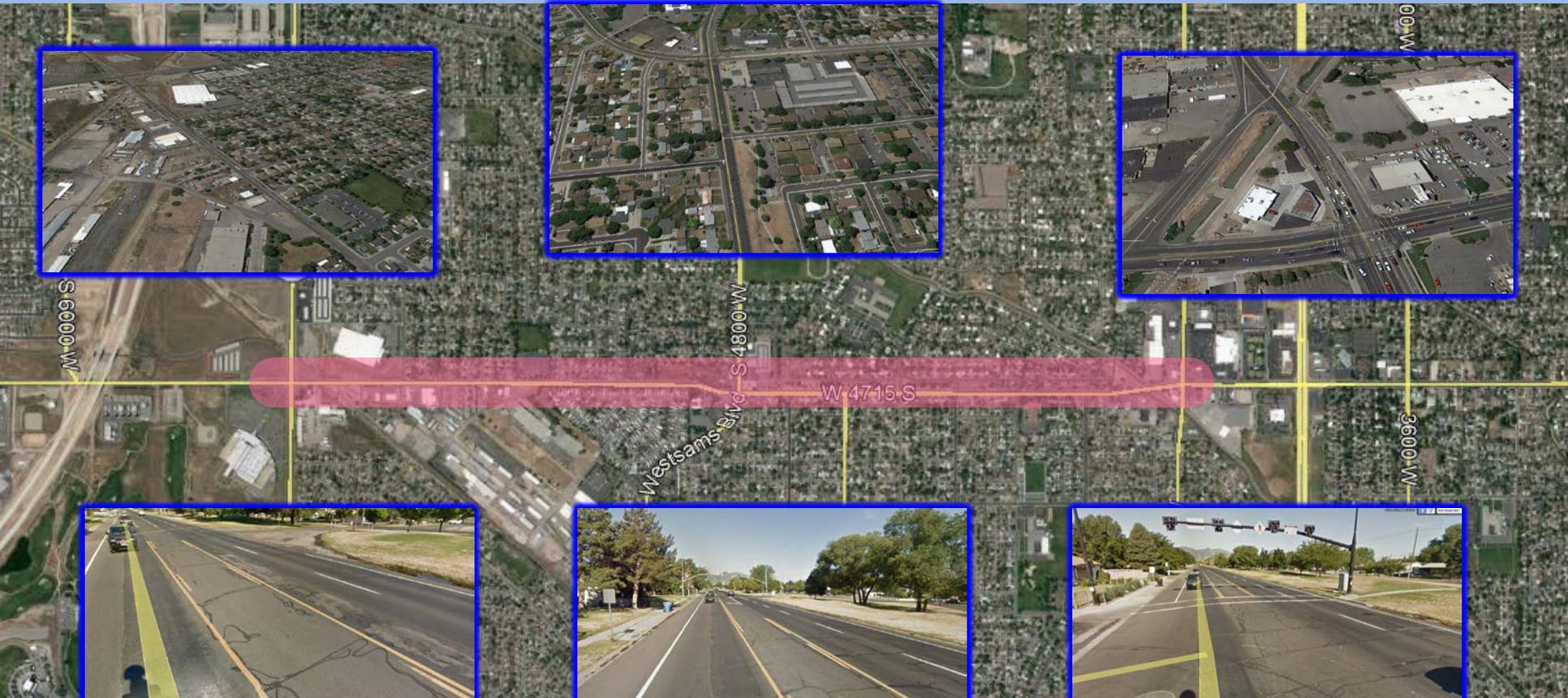
**Funds Request –
\$ 3,270,000**

Reconstruct and widen 1300 East to provide a continuous 3 lane section with shoulders/bike lanes, curb, gutter, and sidewalks, and improve the function of the intersection at Wayne's World Drive (13800 South).

Salt Lake County/ West Valley/ Kearns – 4700 South – Recon. w/ Minor Widen

Project Type – Reconstruction

4000 West to 5600 West



Recommended Funding \$ 4,500,000

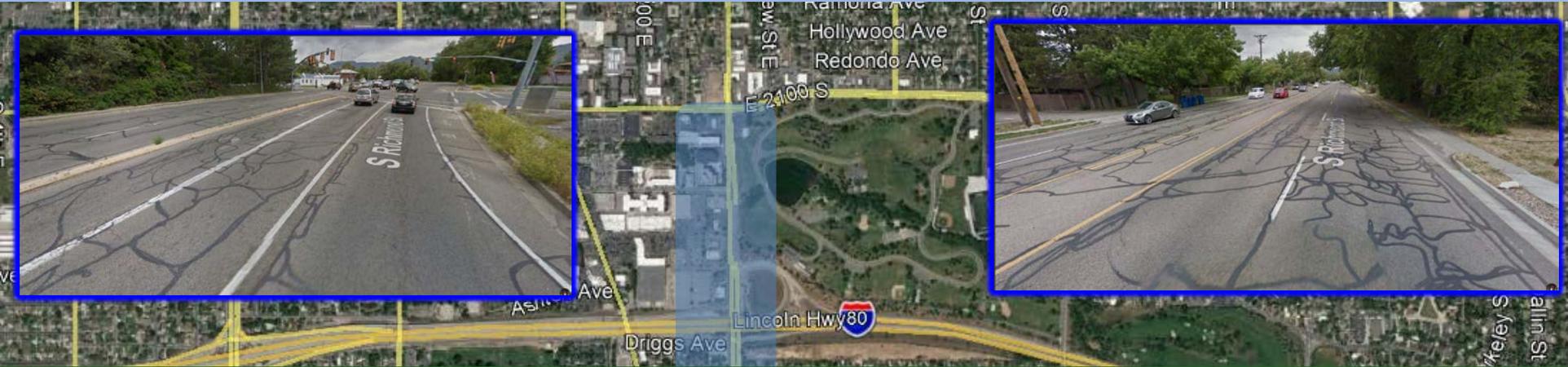
**Project Cost –
\$ 16,367,300
Funds Request –
\$ 15,259,234**

The project is needed to meet capacity needs, by improving capacity at the intersections, railroad crossings, reconstructing and widening canal bridges, and to reconstruct the existing pavement with its various deficiencies.

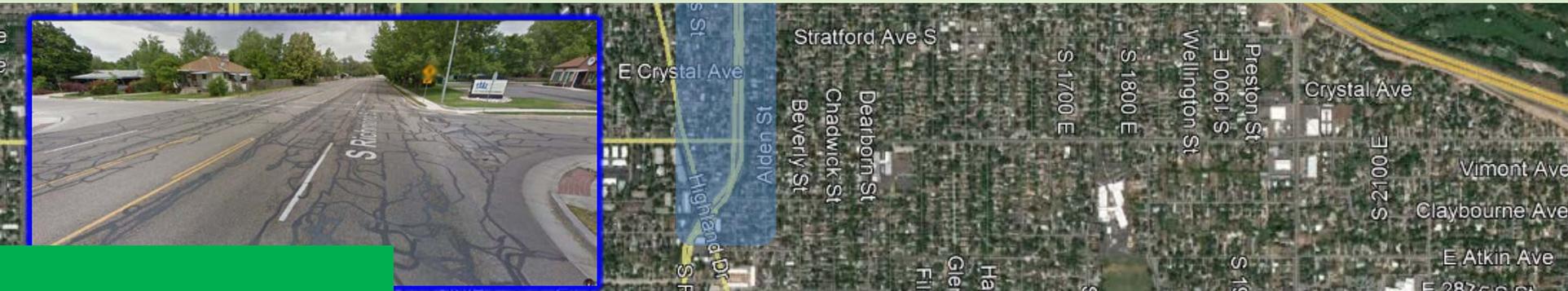
Salt Lake City – 1300 East Reconstruction Segment 2

Project Type - Reconstruction

2100 South to Southern Boundary



Recommended Funding \$ 4,300,000



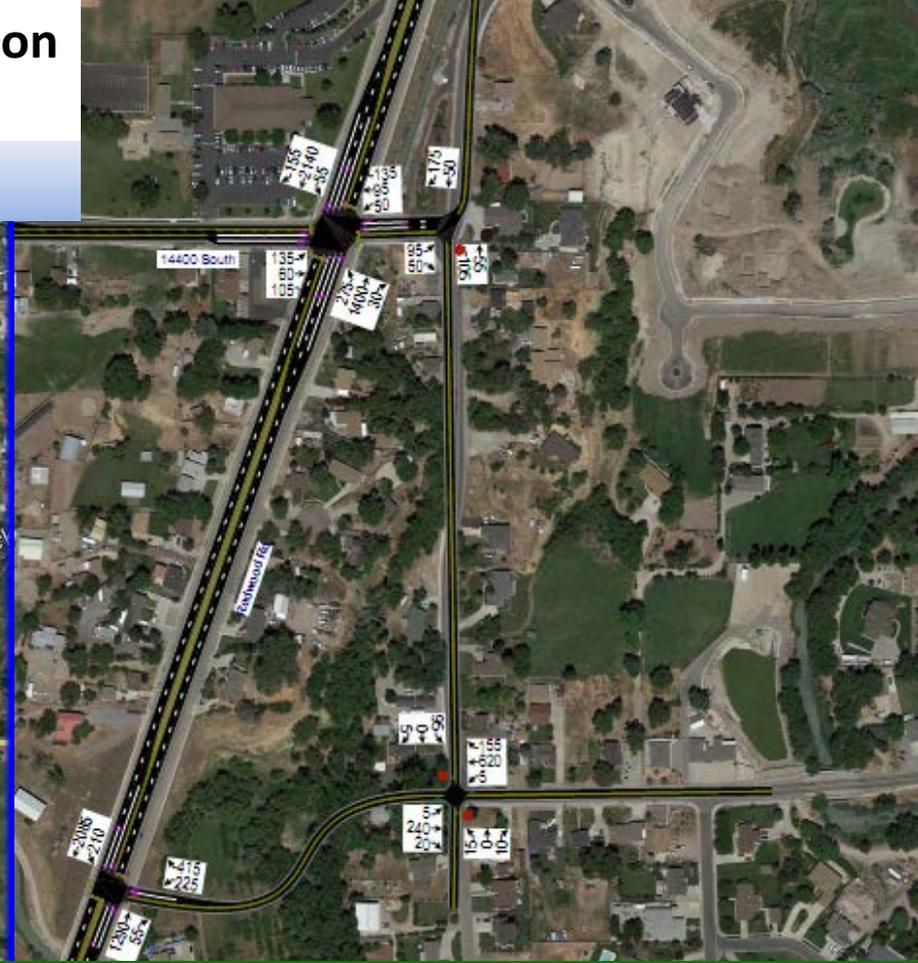
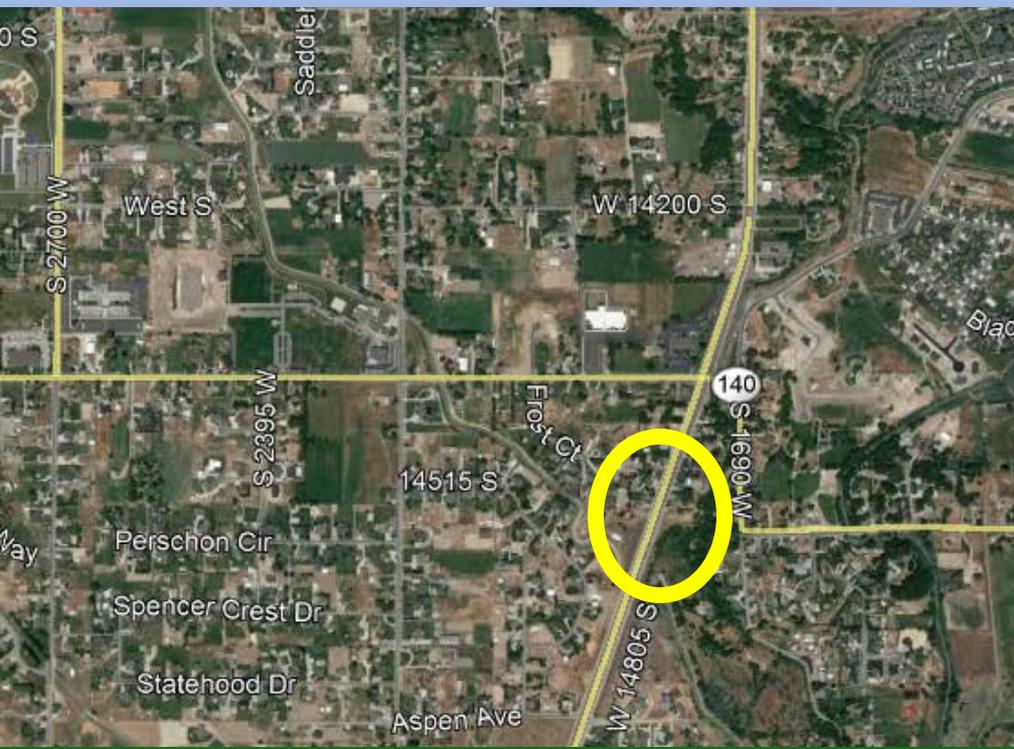
**Project Cost –
\$ 6,975,600**

**Funds Request –
\$ 6,503,352**

This project encompasses pavement improvements for this deteriorated street, including removal and replacement of the pavement, curb and gutter, and pedestrian improvements. This project will incorporate Complete Streets concepts to make pedestrian, bicycle, & transit safety improvements.

Bluffdale/ UDOT – 14600 So High-T Intersection Project Type – Operations

14600 South and Redwood Road



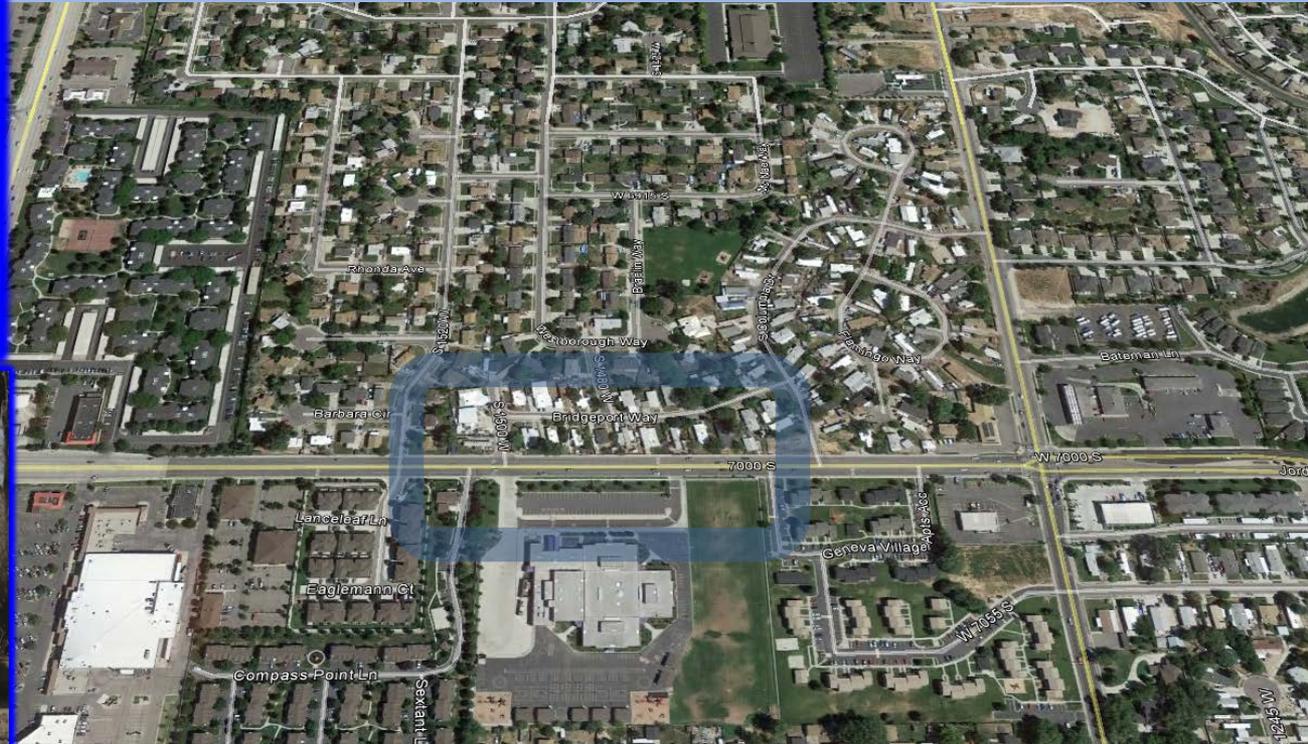
Recommended Funding \$ 550,000

**Project Cost –
\$ 600,000
Funds Request –
\$ 550,000**

This project is to install a new High-T intersection at Redwood Road and 14600 South where the City is planning to extend 14600 South. Currently, the intersection of 14400 South and Redwood Road is functioning at a level service F and has large delays and significant safety issues due to the poor sight distance and geometry of the 14400 South and its connection to 1690 West and Loumis Parkway being less than 300 feet.

West Jordan – 7000 South & 1500 West – New Construction Project Type – Bicycle and Pedestrian

Pedestrian Bridge



Recommended Funding \$ 1,499,977

**Project Cost –
\$ 1,608,900**

**Funds Request –
\$ 1,499,977**

Heartland Elementary School needs to have a pedestrian bridge for the safety of children crossing 7000 South, which is slated to expand from its present 4 lane configuration to a 7 lane configuration in the future. This project will salvage a bridge span from 10600 South and 1300 West to save on project costs.

Magna Metro Township – 8000 West – Sidewalk

Project Type – Bike and Ped

2600 South to 3100 South



Recommended Funding \$ 1,255,528

**Project Cost –
\$ 1,346,700**

**Funds Request –
\$ 1,255,528**



Construct sidewalk, curb and gutter on the west side of 8000 West from the existing sidewalk at about 2600 South to the 3100 South intersection.

Bluffdale City – 14600 South Railroad Bridge

Project Type – Study

14600 South and Union Pacific Railroad Structure



Recommended Funding \$ 119,894



**Project Cost –
\$ 128,600
Funds Request –
\$ 119,894**

Perform an engineering study of alternatives to replace the existing one-lane railroad crossing on 14600 South with a crossing that meets future geometry and aligns with 14600 South.

Millcreek and Holladay Cities – 3900 South Improvements

Project Type – Reconstruction

2300 East to Wasatch Blvd



Figure 2: 3900 South (looking East) – Existing SW on South, Clear zone hazards on North.



Recommended Funding \$ 4,000,000



**Project Cost –
\$ 8,652,500**

**Funds Request –
\$ 8,066,726**

Create a safer environment for all users including the construction of curb, gutter, sidewalk, ADA ramp, enhanced bus stops, a bicycle facility, lighting and the relocation of utility poles out of asphalt, eliminate open ditch and pipe irrigation/storm drainage along 3900 South from 2300 East to Wasatch Blvd.

Taylorsville City – 1780 BRT Connector Road

Project Type - Transit

Bruin Blvd to 4700 South



Recommended Funding \$ 655,220



The Murray-Taylorsville-West Valley BRT project is a critical regional and local transit project for Salt Lake Valley. The Transit project's purpose is to provide a reliable, efficient transit system and connection between the Murray Central TRAX and FrontRunner stations, Taylorsville, Salt Lake Community College and the West Valley Central TRAX Station. As part of the overall BRT project 1780 W will allow the BRT to better access SLCC from 4700 S.

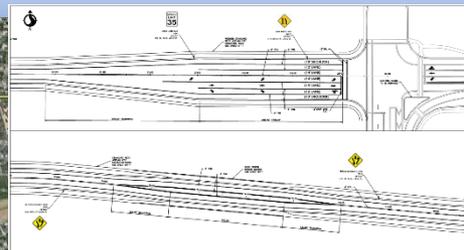
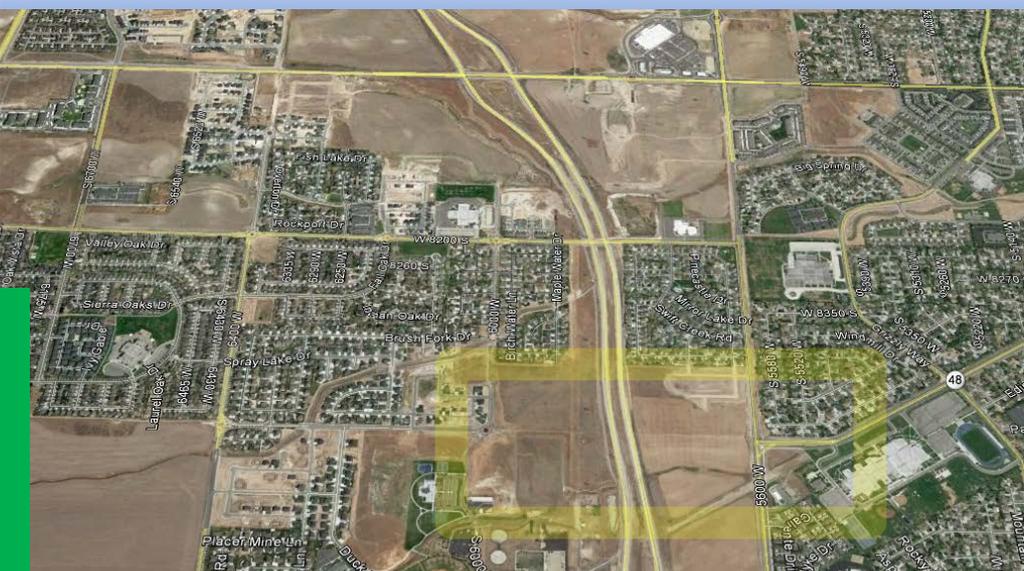
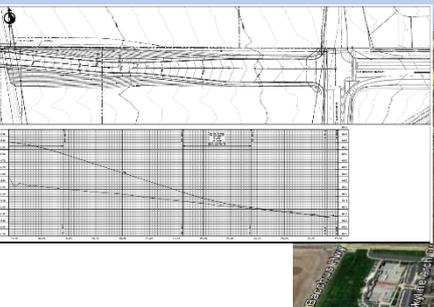
**Project Cost –
\$ 1,002,800**

**Funds Request –
\$ 655,220**

West Jordan – 8600 South Bridge over MVC – New Construction

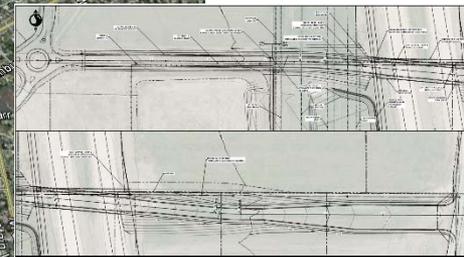
Project Type – Capacity

5600 West to 6000 West

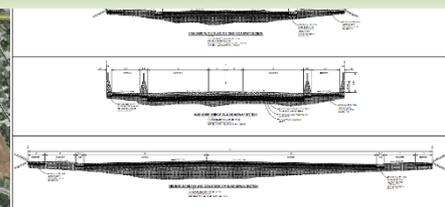
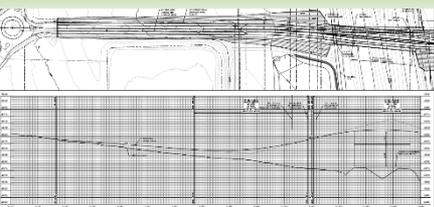


**Project Cost –
\$ 17,900,000**

**Funds Request –
\$ 4,000,000**



Recommended Funding \$ 700,000



8600 South is a major collector street on the west side of the Salt Lake Valley, and is projected to carry 15,000 to 25,000 VPD by the year 2030. This crossing connects to Ron Wood Park, a regional park for the entire west half of the City of West Jordan, serving approximately 50,000 residents. A major recreation center (\$45 to \$50 million) is slated to be built within this park in the next few years. This bridge is the essential connector for that project, and will provide the connectivity for existing residents living west of the MVC.

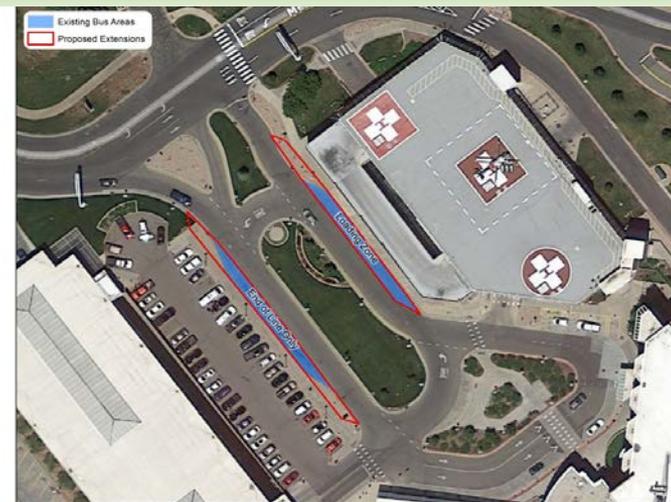
UTA – University of Utah Hospital Stop Expansion

Project Type – Transit

U of U Bus Bays



Recommended Funding \$ 372,361

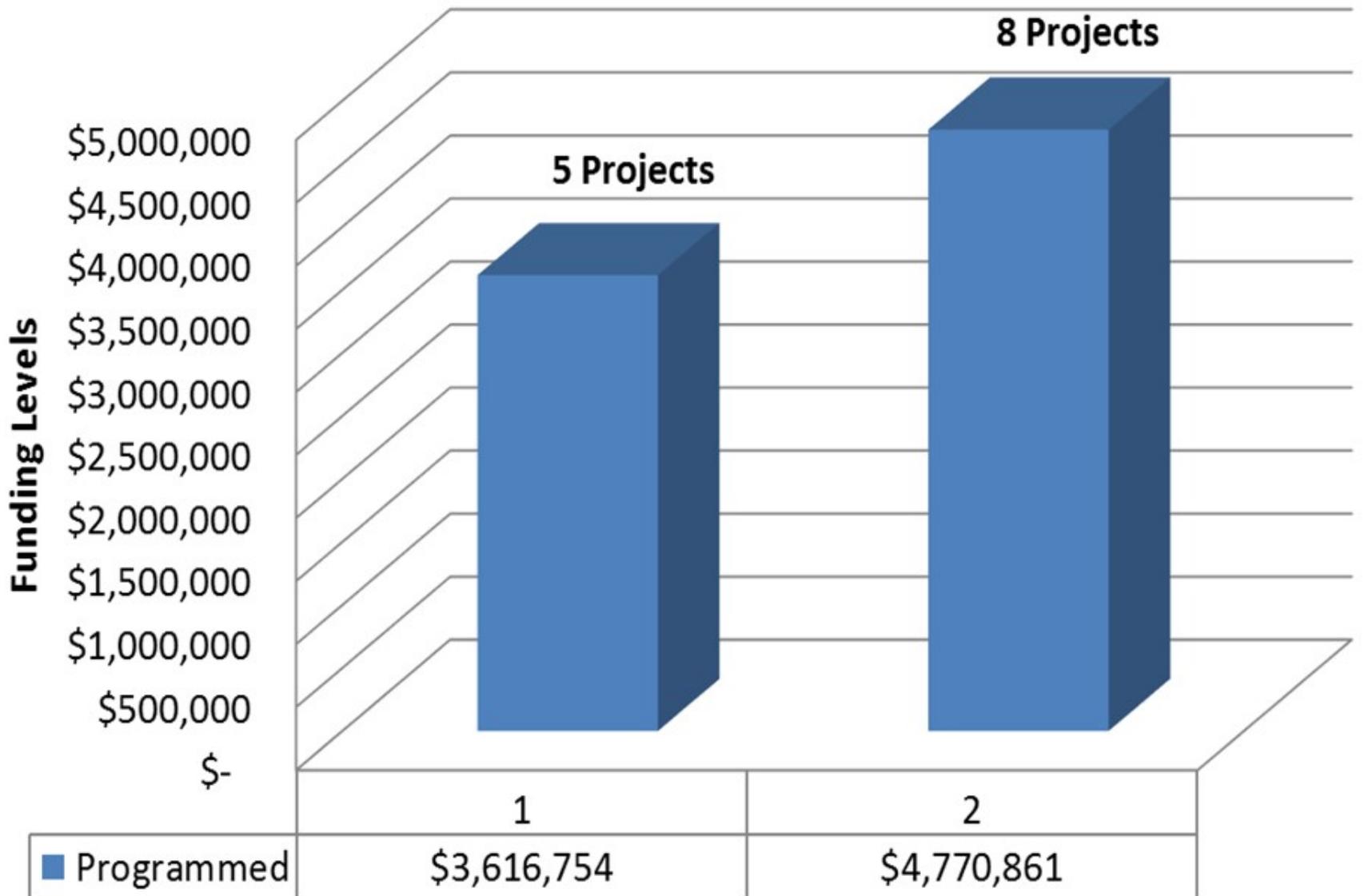


**Project Cost –
\$ 399,400**

**Funds Request –
\$ 372,361**

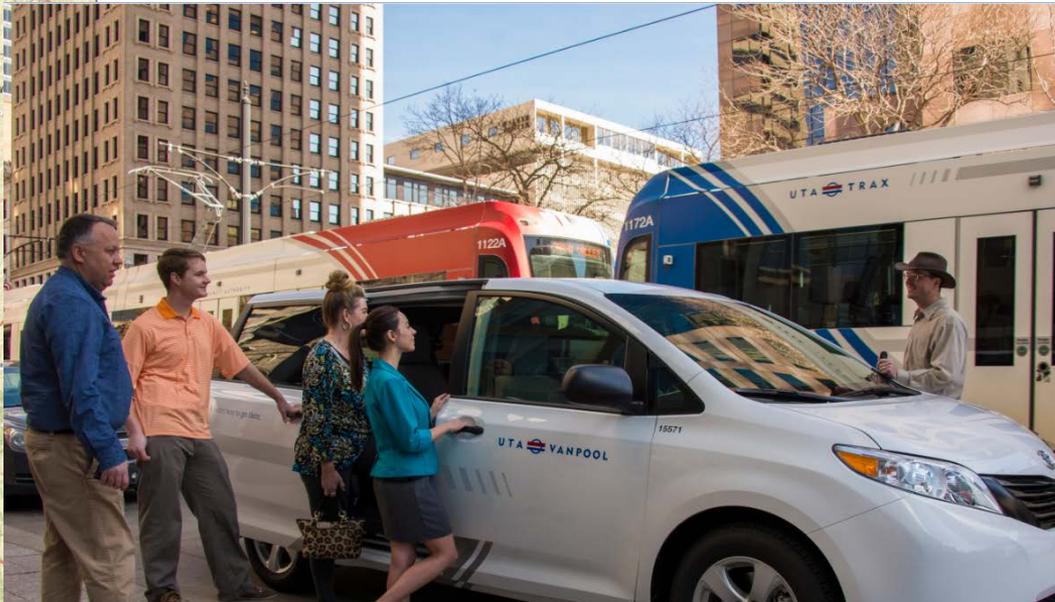
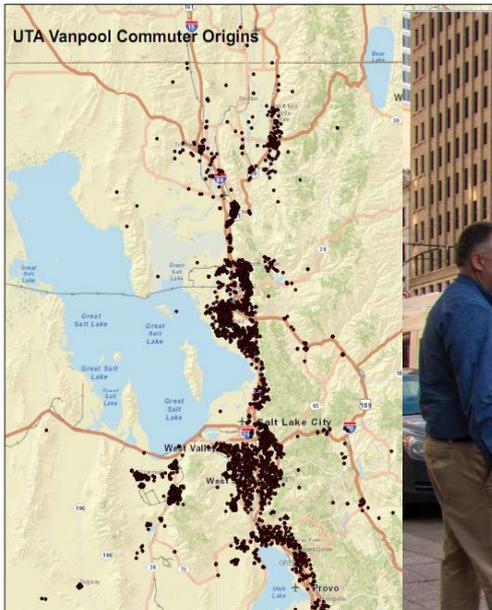
The U of U is a large transit trip generator in Salt Lake City and the Hospital is one of the most used stops. Currently there are limited bays for buses. This project would extend bays and allow more buses to serve the area simultaneously.

Congestion Mitigation/ Air Quality (CMAQ) Funds



UTA - Vanpool Management Project Type - Transit

Various Areas in the Ogden/ Layton Urbanized Area



Recommended Funding \$ 130,522



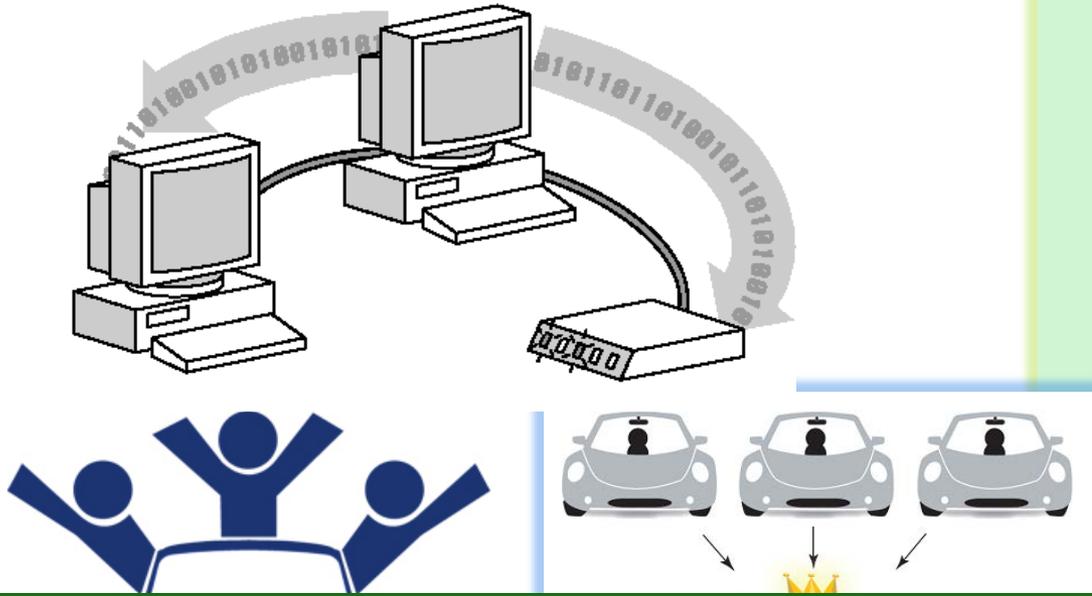
**Project Cost –
\$ 140,000**

**Funds Request –
\$ 130,522**

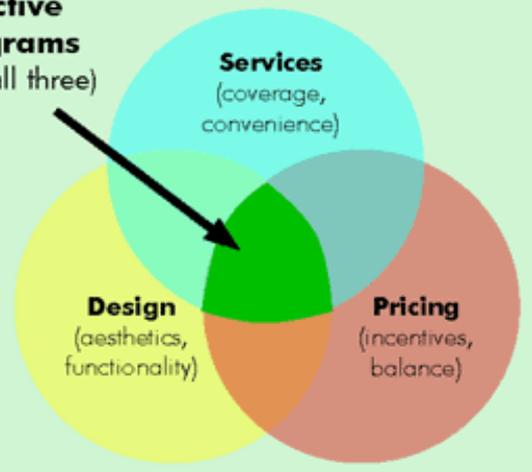
Manage the daily logistics/expenses of a 400+ vanpool program reducing single occupancy vehicle usage. This includes customer service, managing accounts/rosters, adding/removing participants, driver training, customer accounting, maintenance logistics, community education/marketing, and Federal/local reporting requirements.

UTA – Transportation Demand Management - Rideshare Project Type - Transit

Various Areas in the Ogden/Layton Urbanized Area



Most Effective TDM Programs
(Combine all three)



Recommended Funding \$ 31,232



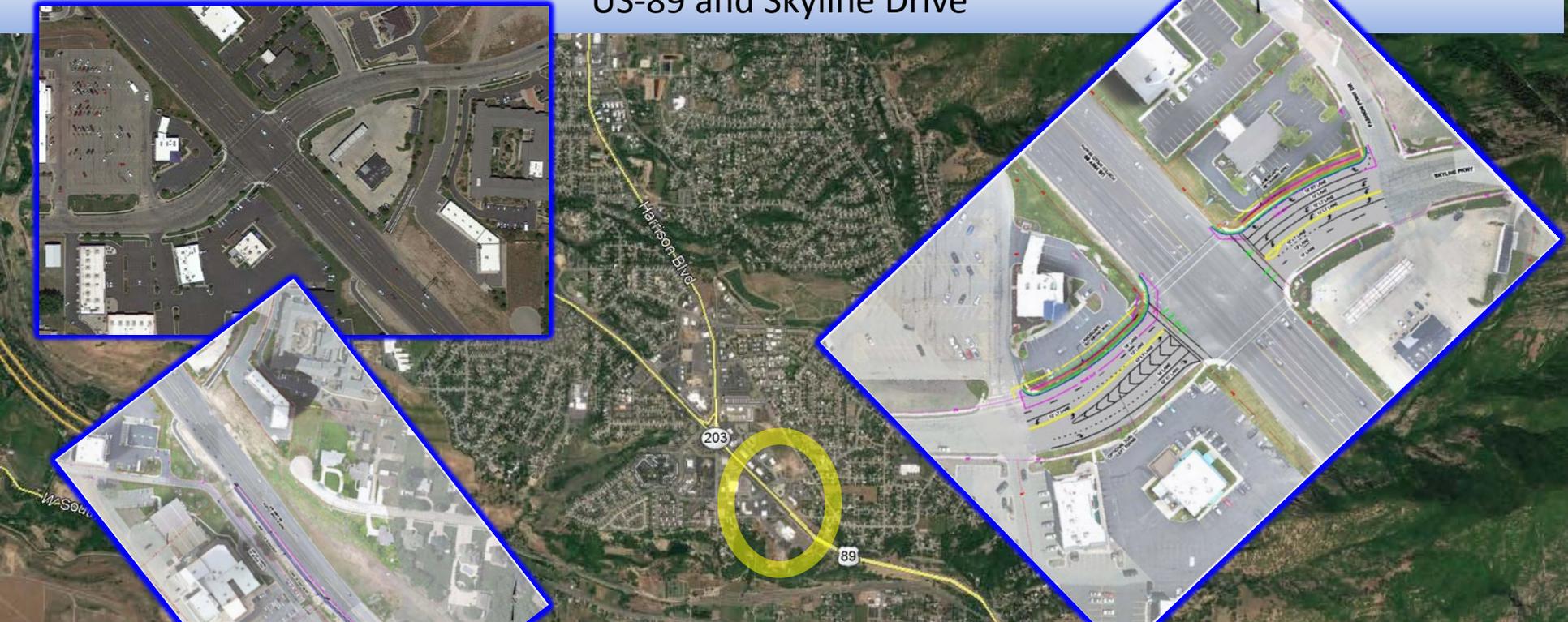
**Project Cost –
\$ 35,000**

**Funds Request –
\$ 31,232**

Provides carpool, vanpool, and other commuting matches. Provides non-commute matches for special event trips. Educate communities and others concerning alternative transportation options and promote those options that reduce single occupancy vehicle usage, improve mobility, enhance air quality, and conserve energy.

UDOT / South Ogden – Intersection Improvement Project Type – Operations

US-89 and Skyline Drive



Recommended Funding \$ 1,400,000

Additional green time is not available at this intersection. Dual left turn lanes can serve more traffic with less left turn green time on Skyline Dr. The existing auxiliary lane on US-89 is too short to make the lane attractive to drivers. Extending the auxiliary lane an additional 500 feet creates a more attractive lane, which evens out lane utilization through the intersection, improving operations.

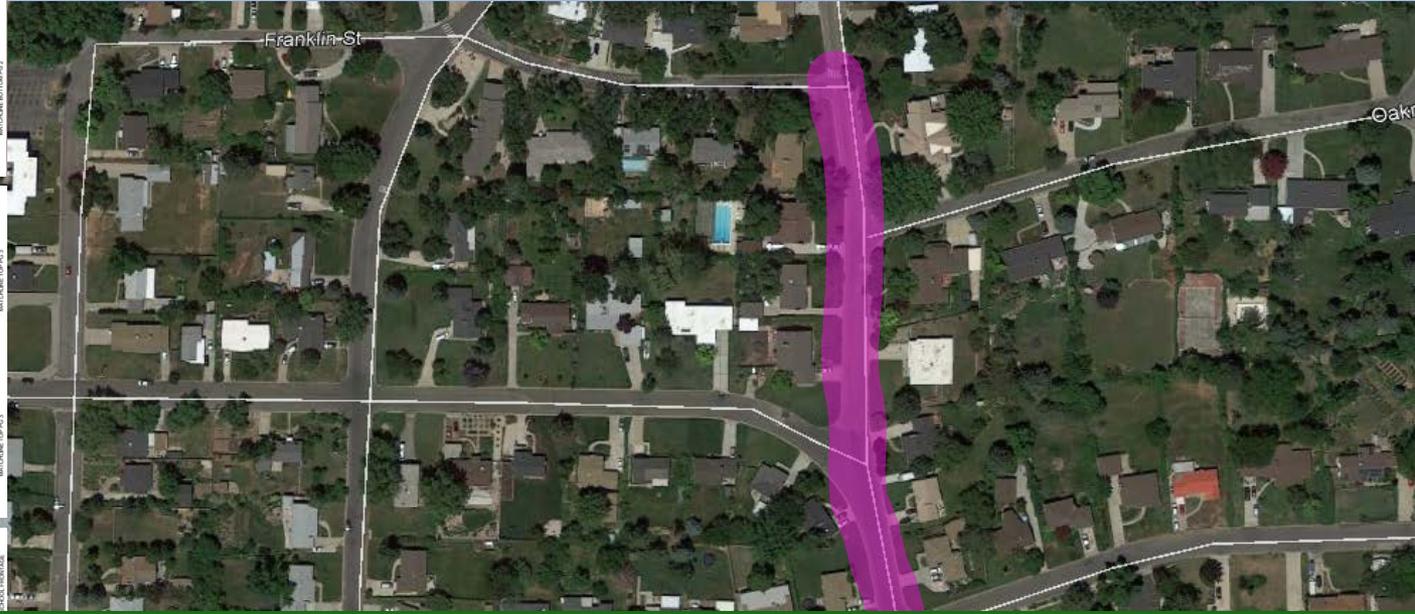
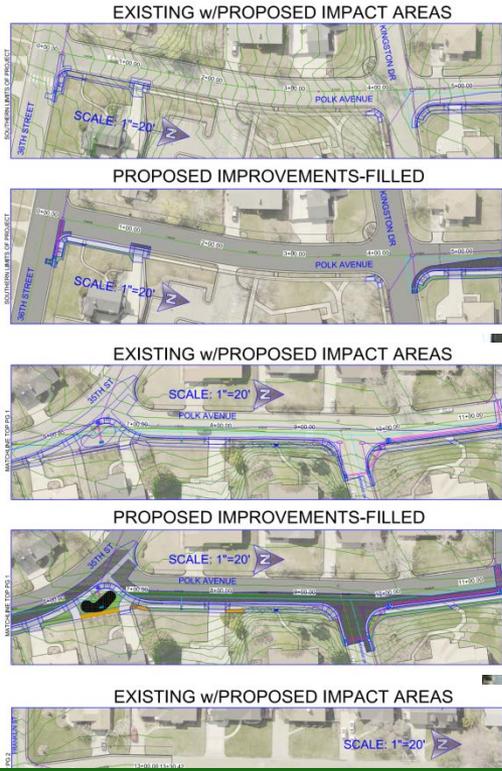
**Project Cost –
\$ 2,515,600**

**Funds Request –
\$ 1,500,000**

Ogden City – Polk Avenue Sidewalk Project

Project Type – Safe Routes to School

Franklin Avenue to 36th Street



Recommended Funding \$ 555,000



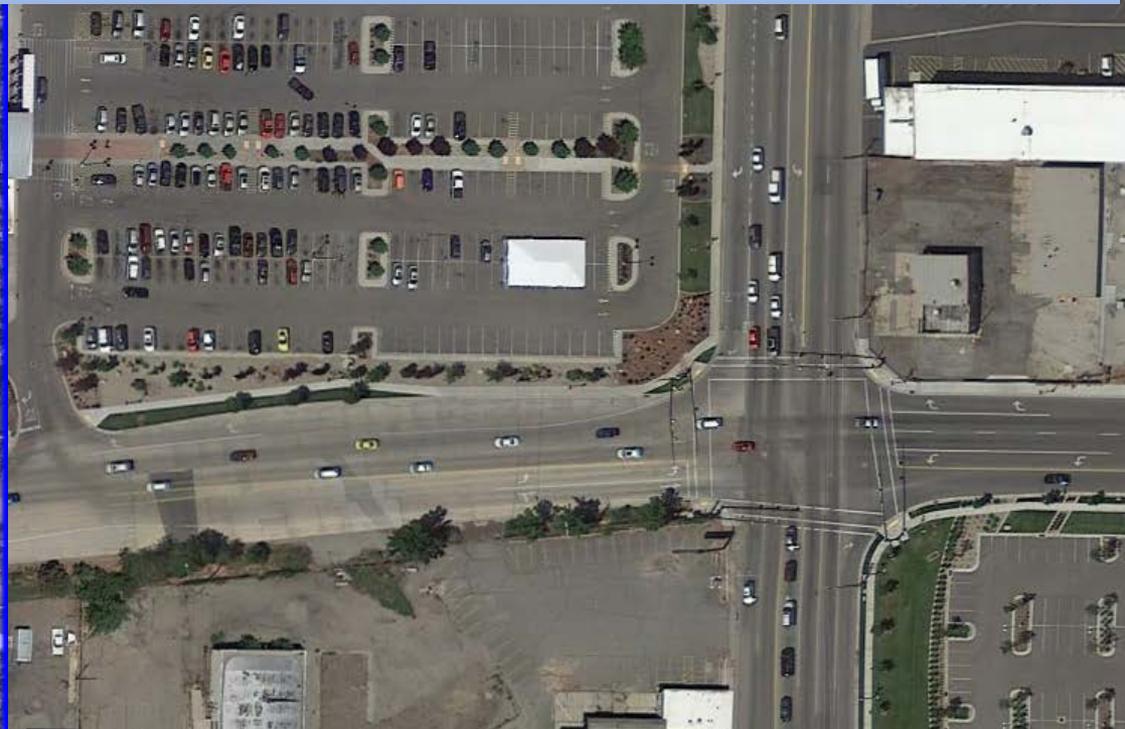
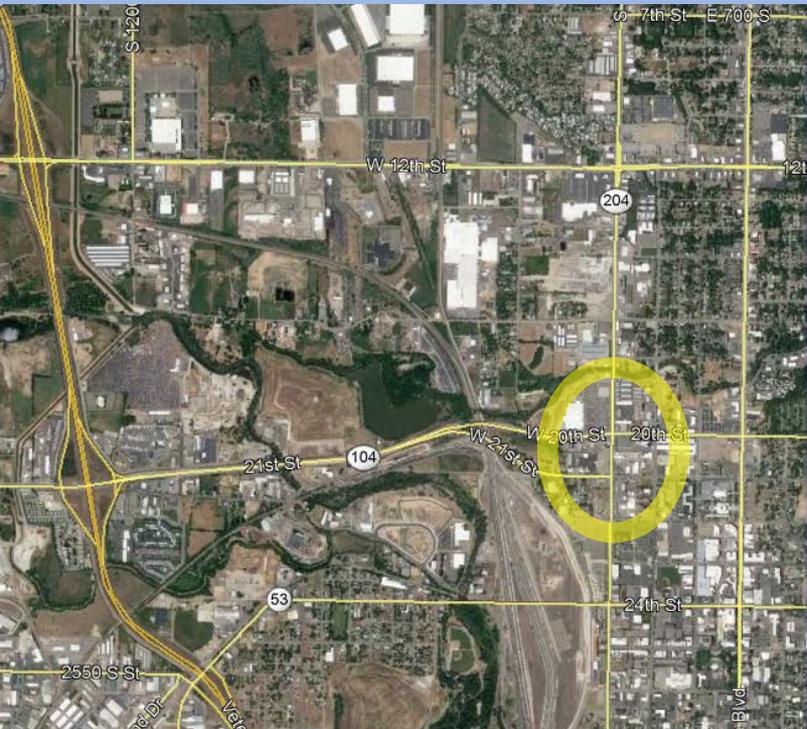
**Project Cost –
\$ 595,302**

**Funds Request –
\$ 555,000**

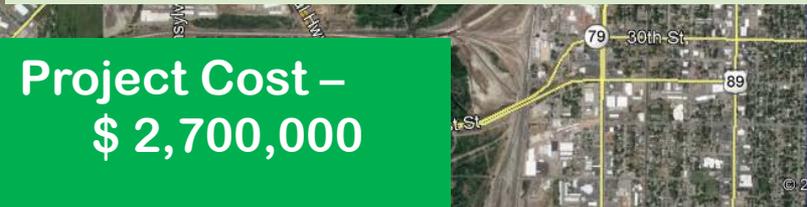
Currently, there are 266 single family residences within the south of Wasatch Elementary that are tributary to the proposed sidewalk. It is rare to see sidewalk missing in such close proximity to an Elementary. This project would also be appreciated by residents with disabilities, the elderly and WSU students.

UDOT / Ogden – Dual Left Turn Lanes - Intersection Improvement Project Type – Operations

Wall Ave (SR-204) at 20th Street (SR-104)



Recommended Funding \$ 1,500,000



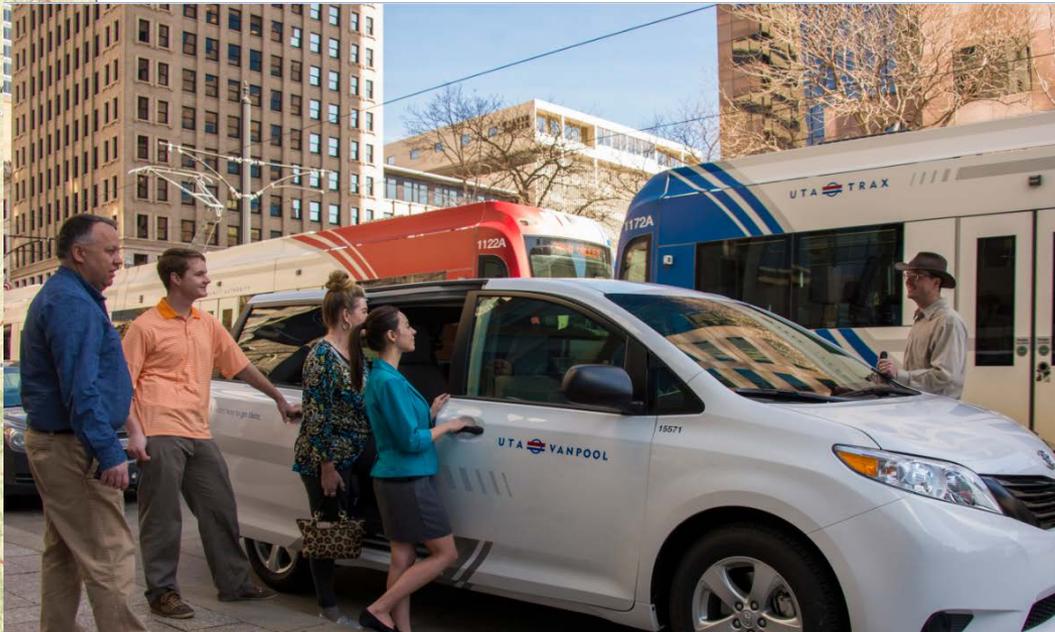
**Project Cost –
\$ 2,700,000**

**Funds Request –
\$ 2,500,000**

This project is to help improve traffic operations for NB traffic on Wall Ave to turn left onto 20th St which connects to I-15

UTA - Vanpool Management Project Type - Transit

Various Areas in the Salt Lake/ West Valley Urbanized Area



Recommended Funding \$ 270,367



**Project Cost –
\$ 290,000**

**Funds Request –
\$ 270,367**

Manage the daily logistics/expenses of a 400+ vanpool program reducing single occupancy vehicle usage. This includes customer service, managing accounts/rosters, adding/removing participants, driver training, customer accounting, maintenance logistics, community education/marketing, and Federal/local reporting requirements.

UTA – Locomotive Rebuild

Project Type – Transit

Rebuild 5 Locomotive Prime Mover Engines



Recommended Funding \$ 932,300

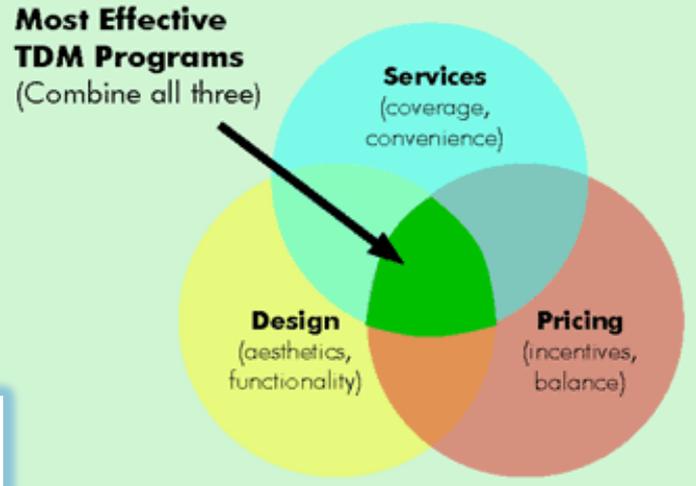


**Project Cost –
\$ 1,000,000
Funds Request –
\$ 932,300**

Reduce particulate matter emissions and the formation of ozone in Salt Lake County. The rebuilding of 5 locomotive prime mover engines to EPA's standard of Tier 2+ would reduce the total emissions of criteria air pollutants (i.e. NO_x, HC, CO and PM) by 10,751 kg annually.

UTA – Transportation Demand Management - Rideshare Project Type - Transit

Various Areas in the Salt Lake/ West Valley Urbanized Area



Recommended Funding \$ 55,938

**Project Cost –
\$ 60,000**

**Funds Request –
\$ 55,938**

Provides carpool, vanpool, and other commuting matches. Provides non-commute matches for special event trips. Educate communities and others concerning alternative transportation options and promote those options that reduce single occupancy vehicle usage, improve mobility, enhance air quality, and conserve energy.

Salt Lake City – Bike Share Program

Project Type – Bicycle

Salt Lake City Proper



LEGEND

■ FOOD/DRINK	■ HOTEL
■ SHOPPING & ENTERTAINMENT	■ RESIDENTIAL

GREENbike
SLC'S NON-PROFIT BIKE SHARE

2017: 33 STATIONS/350 ACTIVE BIKES



Recommended Funding \$ 400,000



Project Cost – \$ 593,900

Funds Request – \$ 553,693

The bike share program provides an option for commuters to link local destinations with regional transit via bicycle and reduce short car trips in the downtown area. GREENbike works to improve the community's health and reduce carbon emissions and vehicle miles traveled by providing alternatives to automobile trips, and is the most successful small (less than 50 stations) bike share program in the country. In 2016, GREENbike users removed nearly 741,000 lbs of CO2 by biking instead of driving.

UDOT/ Murray City – State Street - Intersection Improvements

Project Type – Operations

State Street (SR-89) and Vine Street



Recommended Funding \$ 290,411

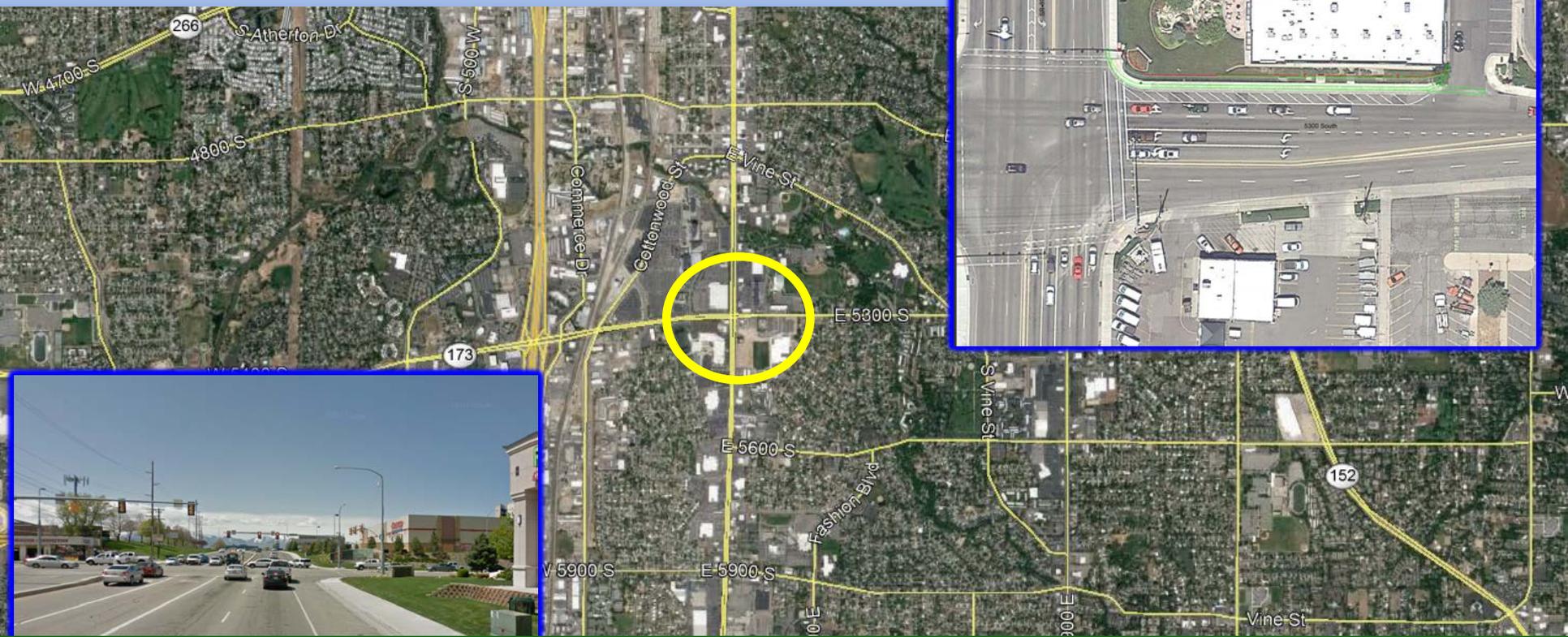
**Project Cost –
\$ 311,500
Funds Request –
\$ 290,411**

The purpose of this project is to extend the left turn lanes for the EB to NB and NB to WB movements. This is a busy intersection and significant redevelopment is planned in the area. Extending the turn pockets will reduce congestion by removing turning traffic from thru lanes.

UDOT/ Murray City – 5300 South - Intersection Improvements

Project Type – Operations

5300 South (SR-173) and State Street (SR-89)



Recommended Funding \$ 489,458

**Project Cost –
\$ 525,000
Funds Request –
\$ 489,458**

The purpose of this project is to add a WB to NB right turn lane at 5300 S and SR-89 (State Street). This is one of the busiest intersections in Murray and congestion is a problem throughout the day. The right turn lane will reduce congestion by removing right turn traffic from the thru lane.

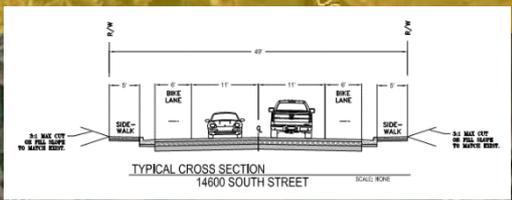
Bluffdale City – 14600 South Sidewalk and Bike Lanes

Project Type – Bike and Ped

Redwood Road to Railroad Bridge



Recommended Funding \$ 1,064,687



14600 South is a main east/west thorough way in Bluffdale City. The section of roadway between Redwood Road and the railroad trestle consists of two travel lanes with limited curb, sidewalk and gutter. To improve the level of service the City intends to widen the roadway, add bicycle lanes and sidewalk, curb and gutter. This will help accommodate a wide range of users and provide a safe mode of transport for pedestrians. The addition of the bicycle lanes will promote outdoor activities and decrease automobile pollution.

**Project Cost –
\$ 1,142,000**
**Funds Request –
\$ 1,064,687**

Holladay City – Highland Drive Intersection Improvement

Project Type – Operations

Highland Drive and 4500 South

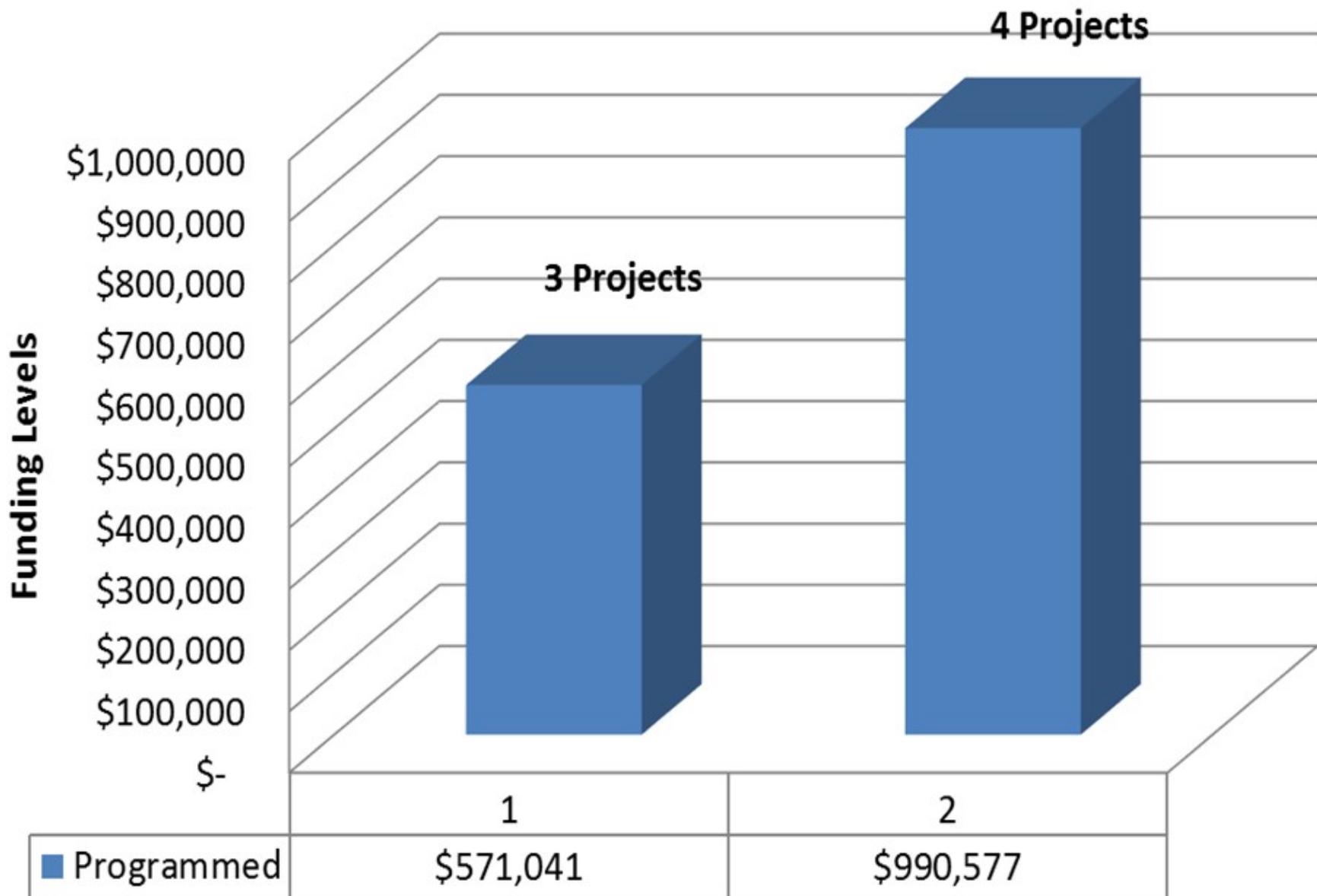


Recommended Funding \$ 1,200,000

The proposed project includes changing an existing single left hand turn lane to a dual left hand turn for vehicles traveling from westbound 4500 S. to southbound Highland Dr. The project will also add a new right hand turn lane on northbound Highland Dr. to eastbound 4500 S. ROW, utility relocation, and curb and gutter improvements are also planned.

**Project Cost –
\$ 2,597,900
Funds Request –
\$ 2,328,792**

Transportation Alternatives Program (TAP) Funds



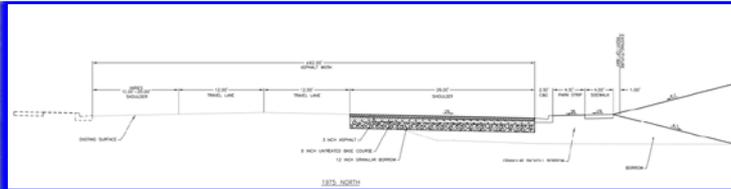
Plain City – 1975 North Widening – Construct Sidewalk

Project Type – Safe Routes to School

3775 West to 3525 West



Recommended Funding \$ 300,000



**Project Cost –
\$ 1,142,300
Funds Request –
\$ 1,064,966**

The proposed project is to add a shoulder and curb, gutter and sidewalk for pedestrian use and to provide a walking route to the elementary school.

Farmington City – State Street & Clark Lane – Pedestrian Crossings Project Type – Capital Improvement

400 West and 950 West



Recommended Funding \$ 200,000



Figure 3: Clark Lane Crosswalk Existing Conditions



Figure 4: Clark Lane Crosswalk Existing Conditions



Figure 5: Proposed Pedestrian Crossing (Kaysville)



Figure 1: State Street Crosswalk Existing Conditions



Figure 2: State Street Crosswalk Existing Conditions

\$ 318,100

**Funds Request –
\$ 296,565**

There has been 1 pedestrian fatality at State Street and 400 W. Location two has seen a large increase in pedestrian and vehicle traffic near the Davis County Legacy Event Center. The project is needed to increase safety for pedestrians at these crosswalks.

Farmington City – East Park Lane Road – Construct Missing Sidewalk Project Type – Capital Improvement

326 West Park Lane



Recommended Funding \$ 71,041

**Project Cost –
\$ 76,200**

**Funds Request –
\$ 71,041**

The north side of SR 225 is fully improved from Main St. to Lagoon Dr. except for a 100' gap which requires asphalt, curb & gutter, sidewalk, and additional ROW at 326 West Park Lane. The project will improve the street on the north side, and provide pedestrian access from Lagoon Dr. to the bus stops on SR 106.

Cottonwood Heights – 2700 East Sidewalk Project

Project Type – Safe Routes to School

7550 South to 7655 South



Recommended Funding \$ 363,038



**Project Cost –
\$ 415,400**

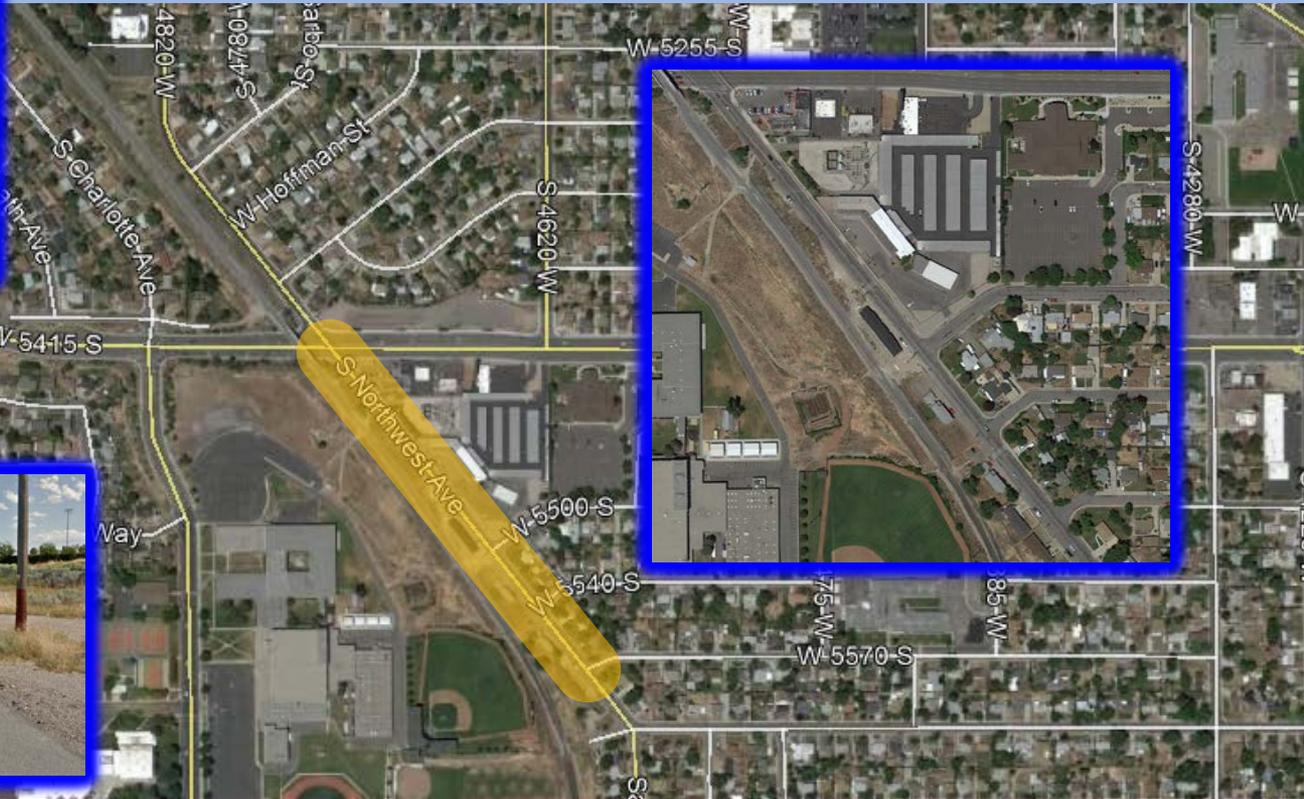
**Funds Request –
\$ 363,038**

Major sidewalk gap exists on the east side of 2600 East between South of Toni Circle (7635 S.) to Bridgewater Drive (7655 S.). Existing crossing is at a dangerous location on 2600 East. Proposed sidewalk will relocate crossing to safer location.

Salt Lake County – Kearns Metro Township – Northwest Ave Sidewalk

Project Type – Safe Routes to School

5415 South to 5570 South



Recommended Funding \$ 193,918

**Project Cost –
\$ 208,000**

**Funds Request –
\$ 193,918**

Construct sidewalk, curb, and gutter on the west side of Northwest Avenue from 5415 S to existing sidewalk at about 5570 S. Sidewalk will improve safety of access for students walking from the southeast quadrant of Kearns to the railroad crossing at 5415 S and on to Kearns High School and Kearns Olympic Park and Oval.

UTA – Bus Bike Rack Expansion Project Type – Capital Improvement Salt Lake Urbanized Area



Recommended Funding \$ 33,198



**Project Cost –
\$ 91,200**

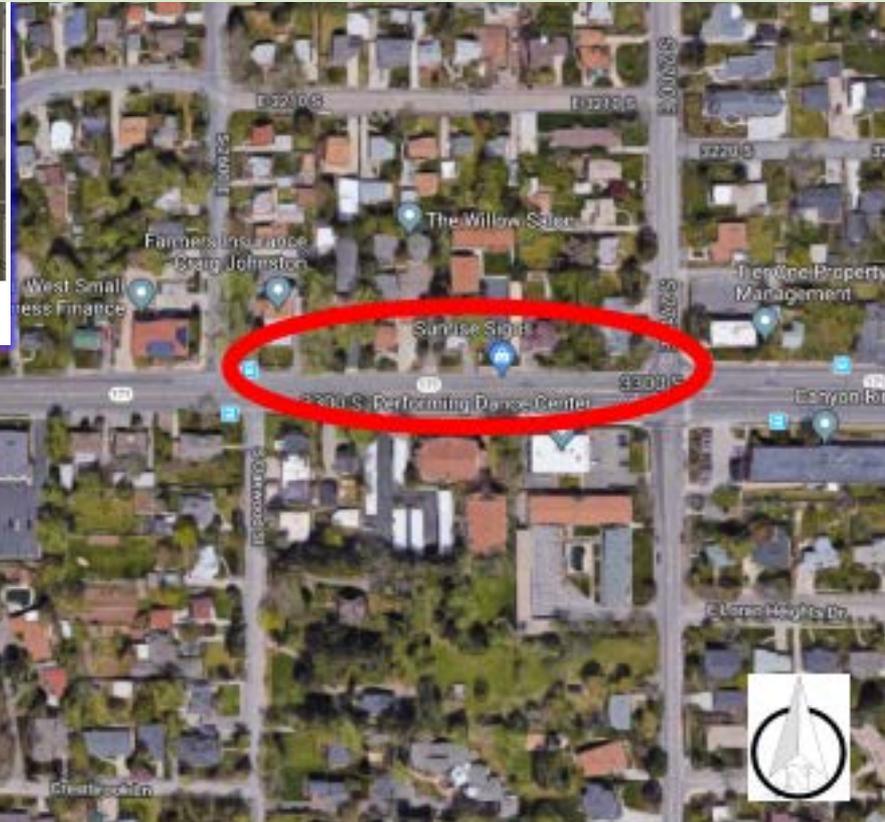
**Funds Request –
\$ 85,026**

All 2006-2012 model year UTA buses have racks that hold two bikes. System-wide, this is about 145 buses. These are often filled and biking passengers are turned away. New UTA buses have racks that accommodate three bikes. These funds will pay for 35 (the estimated number of these buses attributable to the Ogden Layton Urbanized Area) 3 spot racks to replace existing 2 spot racks on current fleet.

Millcreek City – 3300 South Sidewalk Safety Project Type – Bike and Ped

2600 East to 2700 East

Recommended Funding \$ 400,423



**Project Cost –
\$ 429,500**

**Funds Request –
\$ 400,423**

Construct sidewalk, curb and gutter on the north side of 3300 S. There is little to no shoulder and pedestrians are often seen walking in the travel lane. Sidewalk here is identified as a critical need in the Walk Millcreek Plan (2015) and 3300 S Sidewalk Safety Study (2016).