REPORT NO. 31

DATE August 28, 2014

SUBJECT CONFORMITY ANALYSIS FOR THE WFRC AMENDED 2040 REGIONAL TRANSPORTATION PLAN.

The Moving Ahead for Progress in the 21st Century (MAP-21) and the Clean Air ABSTRACT Act Amendments (CAAA) require that all regionally significant highway and transit projects in air quality non-attainment and maintenance areas be derived from a "conforming" Regional Transportation Plan and Transportation Improvement Program. A conforming Plan or Program is one that has been analyzed for emissions of controlled air pollutants and found to be within emission limits established in the State Implementation Plan (SIP) or within guidelines established by Environmental Protection Agency (EPA) until such time that a SIP is approved. This conformity analysis is made by the Wasatch Front Regional Council (WFRC), as the Metropolitan Planning Organization for the region, and submitted to the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) for their concurrence. This conformity analysis is being prepared according to the transportation conformity rulemakings promulgated by the EPA as of March 2010 and according to FHWA final rulemakings found in the MAP-21 legislation. The EPA approved MOVES model for estimating vehicle emissions was used for this conformity analysis.

> This conformity analysis addresses additional amendments to the previously amended 2011-2040 RTP. The amendments include widening Antelope Drive (Main Street - Woodland Park Drive), widening State Street (11400 South - 10600 South), a new interchange on Bangerter Highway at 9000 South, and advancing the upgrade of the Hillfield Road interchange at I-15 from Phase 2 to Phase 1. See Appendix 2 for a more detailed description of the project amendments.

Based on the analysis presented in this document, the Amended WFRC 2011-2040 RTP conforms to the State Implementation Plan or the Environmental Protection Agency interim conformity guidelines for all pollutants in applicable non-attainment or maintenance areas. Therefore, all the transportation projects in Weber, Davis, and Salt Lake Counties in the Amended 2011-2040 RTP are found to conform.

Wasatch Front Regional Council

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A. Conformity Requirements

Conformity Process

Since the commencement of the planning requirements in the late 1960s, further requirements (most recently the 2012 Moving Ahead for Progress in the 21st Century (MAP-21) and the 1990 Clean Air Act Amendments) have added to the responsibilities and the decision making powers of local governments through the Metropolitan Planning Organization. The Wasatch Front Regional Council (WFRC) is the Metropolitan Planning Organization for the Salt Lake/West Valley and Ogden / Layton Urbanized Areas. This report summarizes WFRC's conformity analysis of the Amended 2011-2040 RTP with the Division of Air Quality's State Implementation Plan (SIP) and the Environmental Protection Agency's interim conformity guidelines. This conformity analysis is subject to public and agency review, and requires the concurrence of the Federal Highway Administration and Federal Transit Administration.

In November, 1993, the Environmental Protection Agency and the Department of Transportation issued rules establishing the procedures to be used to show that transportation plans and programs conform to the SIP. The conformity rules establish that federal funds may not be used for transportation projects that add capacity in areas designated as "non-attainment (or maintenance) with respect to the National Ambient Air Quality Standards", until and unless a regional emissions analysis of the Plan and TIP demonstrates that the projects conform to the SIP. This restriction also applies to "regionally significant" transportation project uses local funds exclusively.

Davis, and Salt Lake Counties, Salt Lake City, Ogden City and portions of Weber, Box Elder and Tooele Counties are designated as non-attainment (or maintenance) for one or more air pollutants. Specifically, there are four areas in the Wasatch Front region for which the conformity rules apply. These areas are listed in Table 1 below.

Area	Designation	Pollutant
Salt Lake City	Maintenance Area	Carbon Monoxide (CO)
Ogden City	Maintenance Area	Carbon Monoxide (CO)
	Moderate Non-Attainment Area	Particulate Matter (PM ₁₀)
Salt Lake County	Moderate Non-Attainment Area	Particulate Matter (PM ₁₀)
Salt Lake	Moderate Non-Attainment Area	Particulate Matter (PM _{2.5})
(including Davis, Salt Lake, and portions of Weber, Box Elder, and Tooele Counties)		

Table 1Wasatch Front Region Non-attainment Designations

The CAAA established requirements for conformity. These requirements are outlined in 40 CFR 93.109 and include the following:

- Latest planning assumptions
- Transportation Control Measures (TCM)
- Emissions budget
- Project from a conforming plan and TIP
- PM₁₀ control measures

- Latest emissions model
- Consultation
- Currently conforming plan and TIP
- CO and PM₁₀ "hot spots"

Each of these requirements will be discussed in the following paragraphs.

Latest Planning Assumptions

Current travel models are based on socioeconomic data and forecasts from local building permits, the Utah Division of Workforce Services, and the Governor's Office of Management and Budget (GOMB). Socioeconomic data are from calendar year 2007. Forecasts of population and employment by traffic analysis zone were developed by WFRC in 2009 and 2010 and are based on county-level forecasts published by GOMB in January, 2008.

Latest Emissions Model

The conformity analysis presented in this document is based on EPA mobile source emissions models: MOVES2010b for tailpipe emissions and AP-42 section 13.2.1 for paved road dust emissions. The application of these models will be discussed in greater detail in the Emissions Model section of this document. Application of the new MOVES model is required since March 2013.

Consultation Process

Section 105 of 40 CFR Part 93 (Conformity Rule) requires, among other things, interagency consultation in the development of conformity determinations. To satisfy this requirement, the State Division of Air Quality (DAQ) prepared a Conformity SIP document to outline the consultation procedures to be used in air quality and transportation planning. The Conformity SIP also defines the membership of the Interagency Consultation Team (ICT) as representatives from DAQ, WFRC, Mountainland Association of Governments, Utah Department of Transportation, Utah Transit Authority, EPA, FHWA, and the FTA. The Conformity SIP has been approved by EPA. WFRC followed the consultation procedures as outlined in the Conformity SIP in the preparation of this conformity analysis. As part of the consultation procedures defined in the Conformity SIP, WFRC presented this report to the Transportation Committee (or TransCom) for review and comment. This committee includes a member of the Utah Air Quality Board as well as representatives of UDOT, UTA, and FHWA. In addition, management level staff members from the Utah Division of Air Quality are notified of meetings and agendas of the above committees. The Utah Division of Air Quality and other members of the ICT were also provided with a copy of this report at the beginning of the public comment period for the Amended 2011-2040 RTP.

This Conformity Analysis for the Amended 2011-2040 RTP was made available for public inspection and comment for a 30-day period in accordance with EPA conformity regulations. This analysis was also posted on the WFRC website at the beginning of the comment period. Notification of the comment period was sent by electronic mail to interested stakeholders. In addition, public comment was taken during various committee meetings of the Wasatch Front Regional Council, as well as public open houses with the express purpose of soliciting public comment on this document.

TCM Implementation

A conformity analysis for the Amended 2011-2040 RTP must certify that the RTP does not interfere with the implementation of any Transportation Control Measure (TCM) identified in the applicable State Implementation Plan (SIP). There is one TCM from the original SIP section for the 1-hour ozone standard which has been carried forward to the current ozone maintenance plan, even though the 1-hour ozone standard has been revoked. This TCM, the employer-based trip reduction program, applies to local, state, and federal government employers. The program emphasizes measures to reduce the drive-alone rate such as subsidized bus passes, carpooling, telecommuting, and flexible work schedules. UTA has in place the ECO pass discount for a number of large employers including the University of Utah and Weber State University. Ridesharing, telecommuting, and flexible work schedules are programs currently managed, promoted, or operated by UTA Rideshare and the UDOT Travelwise program. Congestion Mitigation and Air Quality (CMAQ) funds and other transportation funds are used to support these ongoing programs.

Emissions Budget

A comparison of mobile source emission estimates to emission budgets defined in the SIP is outlined in this document in Section D - Conformity Determination.

Currently Conforming Plan and TIP

The existing 2040 RTP for the Wasatch Front Area conforms to State air quality goals and objectives as noted in a letter from FHWA and FTA dated September 26, 2012. The existing TIP for the Wasatch Front Area was also found to conform and this was noted in the same letter from FHWA and FTA.

Projects from a Conforming Plan and TIP

TIP Time Frame - All projects which must be started no later than 2019 in order to achieve the transportation system envisioned by the Amended 2011-2040 RTP are included in the 2014-2019 TIP. The TIP is fiscally constrained, meaning that only those projects with an identified source of funds are included in the TIP. Estimated funding availability is based on current funding levels and reasonable assumptions that these funds will continue to be available. Conformity for the 2014-2019 TIP is addressed separately in Air Quality Memorandum 30a.

Regionally Significant

All regionally significant projects, regardless of funding source (federal, state, or local) are included in the RTP. All regionally significant projects are also included in the regional emissions analysis of the RTP. Regionally significant projects are identified as those projects functionally classified as a principal arterial or higher order facility, and certain minor arterials as identified through the interagency consultation process (see Appendix 1 for a complete definition of regionally significant projects). The latest Utah Department of Transportation Functional Classification map is used to identify functional classification. Interstate highways, freeways, expressways, principal arterials, certain minor arterials, light rail, and commuter rail are treated as regionally significant projects.

Because of their relative impact on air quality, all regionally significant projects regardless of funding source must be included in the regional emissions analysis, and any significant change in the design or scope of a regionally significant project must also be reflected in the analysis. All regionally significant projects have been included in the regional emissions analysis, and the

modeling parameters used for these projects are consistent with the design and scope of these projects as defined in the RTP. In order to improve the quality of the travel model, other minor arterials and collectors, as well as transit service, are also included in the regional travel model (and thus the regional emissions analysis) but these facilities are not considered regionally significant since they do not serve regional transportation needs as defined by EPA. For a list of projects included in this conformity analysis please refer to Appendix 2 for Weber, Davis, and Salt Lake Counties, Appendix 3 for Box Elder County, and Appendix 4 for Tooele County.

CO, PM₁₀ and PM_{2.5} "Hot Spot" Analysis

In addition to the regional emissions conformity analysis presented in this document, specific projects within carbon monoxide (CO) and particulate matter (PM_{10} and $PM_{2.5}$) non-attainment areas are required to prepare a "hot spot" analysis of emissions. The "hot spot" analysis serves to verify whether or not localized emissions from a specific project will meet air quality standards. This requirement is addressed during the NEPA phase of project development before FHWA or FTA can issue final project approval.

FHWA has issued guidance on quantitative PM_{10} and $PM_{2.5}$ "hot spot" analysis to be used for the NEPA process.

PM₁₀ Control Measures

Construction-related Fugitive Dust - Construction-related dust is not identified in the Utah SIP as a contributor to the PM_{10} non-attainment area. Therefore, there is no conformity requirement for construction dust. Section 93.122(d) (1) of 40 CFR reads as follows:

"For areas in which the implementation plan does not identify construction-related fugitive PM10 as a contributor to the non-attainment problem, the fugitive PM10 emissions associated with highway and transit project construction are not required to be considered in the regional emissions analysis."

In the Utah PM_{10} SIP, construction-related PM_{10} is not included in the inventory, nor is it included in the attainment demonstration or control strategies. Control of construction-related PM_{10} emissions are mentioned in qualitative terms in Section IX.A.7 of the SIP as a maintenance measure to preserve attainment of the PM_{10} standard achieved by application of the control strategies identified in the SIP. Section IX.A.7.d of the SIP requires UDOT and local planning agencies to cooperate and review all proposed construction projects for impacts on the PM_{10} standard. This SIP requirement is satisfied through the Utah State Air Quality Rules. R307-309-4 requires that sponsors of any construction activity file a dust control plan with the State Division of Air Quality.

Other Conformity Requirements

Transit Fares - Transit fares have increased periodically and will continue to increase in response to rising operating costs. The Plan assumes that transit fare box revenues will cover a constant percentage of all transit operating cost, so future fare increases are consistent with the Plan. With any price increase some market reaction is expected. While there have been some short term fluctuations in transit patronage in response to fare increases, the implementation of light rail service and other transit improvements has retained and increased transit patronage consistent with the levels anticipated by the RTP.

Plans to expand light rail service, to increase and enhance bus service, and to extend commuter rail operations are moving forward. These transit projects are envisioned in the Plan and the steps necessary to implement these projects are moving forward including various voter approved sales tax increases for transit funding.

B. Transportation Modeling

Improvement to the WFRC travel demand model practice and procedure is an ongoing process. This conformity analysis is based on the latest version (7.0) of the travel demand model. Version 7.0 of the travel demand model updates the base year of the model from 2005 to 2007. Version 7.0 of the model also has added more traffic analysis zones, and the transit mode choice portion of the model has been enhanced. Details of Version 7.0 of the travel model are documented in a report titled "WFRC/MAG Version 7.0 Travel Demand Model Documentation" which is available upon request.

Planning Process

Federal funding for transportation improvements in urban areas requires that these improvements be developed through a comprehensive, coordinated, and continuous planning process involving all affected local governments and transportation planning agencies. The planning process is certified annually by the Regional Council and reported to the Federal Highway Administration and Federal Transit Administration. Every four years FHWA and FTA conduct a comprehensive certification review. The certification review of May 2009 found that the WFRC planning process meets federal requirements. Recommendations were made to improve WFRC's planning process and these are being addressed.

The documentation of the planning process includes at a minimum, a twenty-year Regional Transportation Plan updated at least every four years; and a four-year Transportation Improvement Program (capital improvement program) updated and adopted at least every four years. The planning process includes the involvement of local elected officials, state agencies, and the general public.

Travel Characteristics

The WFRC travel model is used to estimate and forecast highway Vehicle Miles Traveled (VMT) and vehicle speeds for Weber, Davis, and Salt Lake Counties. A separate travel model is used to estimate VMT and speed in Tooele County. For VMT and speed estimates in Box Elder County, WFRC relied on forecasts provided by the Utah Department of Transportation. The WFRC travel demand model is based on the latest available planning assumptions and a computerized representation of the transportation network of highways and transit service. The base data for the travel demand model is reviewed regularly for accuracy and updates. The travel model files used for this conformity analysis are available upon request on compact disc.

Shown below in Table 2 is a summary of weekday VMT for the cities and counties in designated non-attainment areas. Totals for VMT are given for various air quality analysis years from 2012 to

2040. Note that the VMT values for Weber, Box Elder, and Tooele Counties are not for the entire county but only that portion of the county designated as non-attainment for a criteria pollutant.

	2015	2020	2030	2040
Salt Lake City	6,844,402	7,372,557	8,441,217	9,145,100
Ogden City	1,634,320	1,760,837	2,000,337	2,213,895
Salt Lake County	28,969,518	31,976,820	38,125,117	44,599,126
Davis County	8,666,311	9,526,442	10,624,931	11,572,128
Weber County*	5,328,080	5,908,979	7,025,996	8,204,092
Box Elder County*	2,463,576	2,709,337	3,227,017	3,844,694
Tooele County*	2,074,524	2,507,527	3,373,539	4,562,662

 Table 2

 Vehicle Miles Traveled (Average Winter Weekday HPMS Adjusted)

*non-attainment portion of the county

Peak and Off-Peak Speeds

The modeled VMT and speed for each time period (AM, midday, PM, and evening) defined in the travel demand model depend on the number of vehicle trips assigned for that time period. The percentage of trips by purpose varies for each time period. The percentages in Table 3 and Table 4 below are based on data from the 1993 Home Interview Survey and 2008 observed traffic count information. Trip purposes "commercial" (COM) and "through" (THRU) were not sampled in the Home Interview Survey. These two trip types are allocated to the four time periods according to the percentages for "non-home based" (NHB) and "internal/external" (IXXI) trips respectively (with some rounding as necessary for the COM trips).

Table 3Percent of Home Based Trips by Time of Day

Α		AM N		-day	Р	Μ	Eve	ning
Purpose		To	From	To Hama	From	To	From	To Hama
	Home	Home	Home	Home	Home	Home	Home	Home
HBW	35%	2%	7%	8%	2%	25%	6%	15%
HBO	11%	1%	16%	15%	11%	15%	12%	18%

Percent of Other Trips by Time of Day						
Purpose	AM	Mid-day	PM	Evening		
NHB	7%	51%	26%	16%		
IXXI	20%	29%	26%	25%		
COM	6%	53%	26%	15%		
THRU	20%	29%	26%	25%		

Table 4
Percent of Other Trips by Time of Da

Trip Purpose abbreviations:

HBO - Home Based Other HBW - Home Based Work

IXXI - Internal/External, External/Internal

NHB - Non-Home Based COM - Commercial THRU - Through

Comparison of Modeled Speeds with Observed Data

WFRC continues to adjust modeled speeds to improve consistency with samples of observed speeds. A review of Salt Lake County modeled speed and observed speed is summarized in Table 5. Modeled speeds in Table 5 are within -4.5% to 7.4% of observed speeds.

Table 5
Salt Lake County Modeled Speeds Compared to Observed Speeds

	Arterial		Free	eway
	AM	PM	AM	PM
	Peak	Peak	Peak	Peak
2007 Modeled Speeds (mph)	31	29	64	64
2008 Observed Speeds (mph)	31	27	67	67

C. Emission Modeling

I/M Programs

Assumptions for the input files for EPA's MOVES vehicle emissions model include I/M programs in Salt Lake, Davis, and Weber Counties. Box Elder and Tooele Counties do not presently have I/M programs.

VMT Mix

The VMT mix describes how much a particular vehicle type is used in the transportation network. While no longer a required input for the MOVES model as it was for MOBILE6.2, VMT mix is used in several instances to generate the input files required to run the MOVES model. The national default VMT mix found in the MOVES database was used to disaggregate local vehicle type data. The local vehicle type data is collected by UDOT as part of the federal HPMS data collection system and is based on automated counters which classify vehicles based on axle spacing. The UDOT classification is used to calculate control percentages for light duty (LD) vehicles and heavy duty (HD) vehicles for each facility type. The EPA default VMT mix is then applied to disaggregate the

two UDOT control percentages into detailed percentages for the thirteen vehicle classes used in MOVES.

Vehicle Weights

Facility specific VMT mix data described above was also used to estimate the average vehicle weight on each facility type. Since vehicle weight affects the rate of re-entrained road dust emissions estimated using the AP-42 method, vehicle weight variations on different facilities will affect the amount of fugitive dust created. The VMT mix for each facility type was used to estimate an average vehicle weight for each facility type with the following results:

Facility	Average Vehicle Weight
Urban - Freeway	6,500 lbs, or 3.25 tons
Urban - Arterial	6,100 lbs, or 3.05 tons
Urban - Local	3,900 lbs, or 1.95 tons

Post Model Adjustments

For conformity analyses prior to 2000, the WFRC applied post model adjustments to vehicle emission estimates. Emission credits for work trips were modeled for reductions in single occupant vehicle rates based primarily on increased investments in transit service and rideshare programs, and the projected increase in telecommuting. Other less significant post model adjustments were also estimated for incident management, pavement re-striping, and signal coordination. Other emission reducing programs and projects supported by CMAQ funds such as park and ride lots, bicycle facilities, transit vehicles, intelligent transportation systems (ITS), and intersection improvements have also been implemented.

WFRC believes that these programs have a positive effect in reducing vehicle emissions. In practice, however, WFRC has found that documenting the air quality benefits of these programs can be challenging. WFRC will continue to support these emission reduction programs, but credits from these programs have not been included in this conformity analysis.

MOVES Inputs

The MOVES model is a very data intensive computer program based on the MySQL database software. Through the interagency consultation process the required MOVES inputs reflecting local conditions have been established.

Data files defining local conditions by county and year are created for vehicle population, emission testing programs, fuel supply, fuel formulation, meteorological conditions, and vehicle age are listed are all required inputs to the MOVES model.

Vehicle activity input files for the MOVES model are generated by the WFRC travel demand model using a customized in-house program for this purpose. The MOVES input files required include data for ramp fractions, road distribution, speed distribution, and VMT by vehicle type for each county (Box Elder, Davis, Salt Lake, Tooele, and Weber) and analysis year (2009, 2016, 2020, 2030, and 2040) as required for operating the MOVES model.

The input files listed above are read into the MOVES program as database files. The input database folders in Table 6 below contain the database files used for each county and year modeled using MOVESb for this conformity analysis. The results of the MOVES model are stored in the output database "Conf14_out". Results unchanged by this amendment (Box Elder and Tooele files, and files for 2009 and 2016) are found in the output database "Conf13_out".

Box Elder	Weber	Davis	Salt Lake	Tooele
conf13_be2009w_in	conf13_we2009w_in	conf13_da2009w_in	conf13_sl2009w_in	conf13_to2009w_in
conf13_be2016w_in	conf13_we2016w_in	conf13_da2016w_in	conf13_sl2016w_in	conf13_to2016w_in
conf14a_be2020w_inb	conf14a_we2020w_inb	conf14a_da2020w_inb	conf14a_sl2020w_inb	conf14a_to2020w_inb
conf14a_be2030w_inb	conf14a_we2030w_inb	conf14a_da2030w_inb	conf14a_sl2030w_inb	conf14a_to2030w_inb
conf14a_be2040w_inb	conf14a_we2040w_inb	conf14a_da2040w_inb	conf14a_sl2040w_inb	conf14a_to2040w_inb

Table 6MOVES Data – Input Database Folders

Road Dust Estimates

In January 2011, the EPA released new guidance for estimating dust emissions from paved roads. These guidelines are published in Chapter 13.2.1 of the AP-42 document. The new formula is

$$E = k \, (sL)^{0.91} \, \mathsf{x} \, (W)^{1.02}$$

where:

E = particulate emission factor (grams/mile),

k = particle size multiplier for particle size range and units of interest (for PM_{10} , k=1.0 and for $PM_{2.5}$ k=0.25),

sL = road surface silt loading (grams per square meter - g/m^2), and

W = average weight (tons) of the vehicles traveling the road.

Based on vehicle type counts on roads in the WFRC region, average vehicle weights for local roads, arterials, and freeways are 1.95, 3.05, and 3.25 tons respectively. The silt load (sL) factor varies by highway functional class and by traffic volume. The default silt load factors found in Table 13.2.1-2 of the AP-42 document are summarized below.

Traffic Volume	Functional Class	Silt Load (grams/meter ²)
500-5,000	local roads	0.200
5,000-10,000	arterial roads	0.060
limited access	freeways	0.015

A precipitation reduction factor is also applied to the above equation using the following expression:

$$(1 - P/4N)$$

Where:

P = number of "wet" days with at least 0.254 mm (0.01 in) of precipitation during the averaging period, and

N = number of days in the averaging period (e.g., 365 for annual, 91 for seasonal, 30 for monthly).

The AP-42 guidance recommends a value of 90 precipitation days per year for the Wasatch Front region. Using these values, the precipitation reduction factor yields a value of 0.9384. Combined with the basic road dust emission rate, the net $PM_{2.5}$ and PM_{10} road dust factors by highway functional class are as follows:

	PM ₁₀ Road	PM _{2.5} Road
	Dust Rate	Dust Rate
Functional Class	(grams/mile)	(grams/mile)
local roads	0.429	0.107
arterials	0.226	0.057
freeways	0.068	0.017

D. Conformity Determination

The following conformity findings for the Amended 2011-2040 Regional Transportation Plan for the Wasatch Front are based on the transportation systems and planning assumptions described in this report and the EPA approved vehicle emissions model (MOVES).

Salt Lake City CO Conformity

The carbon monoxide maintenance plan for Salt Lake City was approved by EPA effective September 30, 2005 as recorded in the Federal Register (Vol. 70, No. 146, August 1, 2005). The maintenance plan defines a motor vehicle emission budget for the years 2005 and 2019 of 278.62 tons/day. Table 7 below demonstrates that projected mobile source emissions are within the emission budget defined in the maintenance plan for the 2019 budget year. The other years listed in Table 7 are in accordance with requirements of the Conformity Rule (40 CFR Part 93) as noted in the table.

From this demonstration it is concluded that the Amended RTP conforms to the applicable controls and goals of the State Implementation Plan (Maintenance Plan) for Carbon Monoxide in Salt Lake City.

Table 7

Salt Lake City - CO

Conformity Determination

	b	С	С	е
Year	2019	2020	2030	2040
Budget [#] (tons/day)	278.62	278.62	278.62	278.62
emission rate (grams/mile)	9.14	8.66	8.04	8.32
seasonal VMT	7,261,483	7,372,557	8,441,217	9,145,100
Projection* (tons/day)	73.15	70.36	74.82	83.87
Conformity (Projection < Budget?)	Pass	Pass	Pass	Pass

a - attainment year, b - budget year, c - 10-year rule, d - no budget 5-year rule, e - last year of Plan,

[#] Federal Register Vol. 70 No. 146, August 1, 2005, Table V-2.

* Projection = Emission Rate x seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.

Ogden CO Conformity

The carbon monoxide maintenance plan for Ogden City was approved by EPA effective November 14, 2005 as recorded in the Federal Register (Vol. 70, No. 177, September 14, 2005). The maintenance plan defines a motor vehicle emission budget for the years 2005 and 2021 of 75.36 and 73.02 tons/day respectively. Table 8 below demonstrates that projected mobile source emissions are within the emission budget defined in the maintenance plan for the 2021 budget year. The other years listed in Table 8 are in accordance with requirements of the Conformity Rule (40 CFR Part 93) as noted in the table.

From this demonstration it is concluded that the Amended 2011-2040 RTP conforms to the applicable controls and goals of the State Implementation Plan (Maintenance Plan) for Carbon Monoxide in Ogden City.

Table 8

Ogden City - CO Conformity Determination

	С	b	С	е
Year	2020	2021	2030	2040
Budget (tons/day)	75.36	73.02	75.36	75.36
emission rate (grams/mile)	10.01	9.92	9.25	9.35
seasonal VMT	1,760,837	1,784,787	2,000,337	2,213,895
Projection* (tons/day)	19.43	19.52	20.40	22.81
Conformity (Projection < Budget?)	Pass	Pass	Pass	Pass

a - attainment year, b - budget year, c - 10-year rule, d - no budget 5-year rule, e - last year of Plan,

[#] Federal Register Vol. 70 No. 177, September 14, 2005, Table V-2.

* Projection = Emission Rate x seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.

Ogden PM10 Conformity

Ogden City was designated a PM_{10} non-attainment area in August of 1995 based on PM_{10} violations in 1993 or earlier. Since a PM_{10} SIP for Ogden has not yet been approved by EPA, it must be demonstrated that Ogden PM_{10} emissions are either less than 1990 emissions or less than "no-build" emissions. The analysis years 2012, 2015, 2025, and 2030 were selected in accordance with the requirements of 40 CFR Section 93.119(e).

 PM_{10} emissions are present in two varieties referred to as primary and secondary PM_{10} . Primary PM_{10} consists mostly of fugitive road dust but also includes particles from brake wear and tire wear and some "soot" particles emitted directly from the vehicle tailpipe. The methods defined in the January 2011 version of the EPA publication known as "AP-42" were used to estimate dust from paved roads. Secondary PM_{10} consists of gaseous tailpipe emissions that take on a particulate form through subsequent chemical reactions in the atmosphere. Nitrogen oxides are the main component of secondary PM_{10} emissions with sulfur oxides a distant second.

As summarized in Tables 9a and 9b, emission estimates for the Amended 2011-2040 RTP satisfy the "Build < 1990" test for secondary PM_{10} (NOx precursors) and primary PM_{10} (direct tailpipe particulates and road dust) in Ogden City. The 1990 emission estimates based on the Mobile6.2 vehicle emissions model for the 2003 conformity analysis have been updated for this conformity analysis using the MOVES model and the January 2011 AP-42 road dust methodology for consistency with current emission modeling requirements. Specifically, the NOx precursor budget (1990 emission estimate) changes from 4.57 tons/day to 6.92 tons/day, and the direct PM10 budget (1990 estimate) changes from 2.28 tons/day to 1.09 tons/day. The 1990 primary PM₁₀ estimate for

Ogden City includes emissions from the unpaved access road to the Ogden landfill which was closed in 1998.

For projections of primary PM_{10} emissions, no credit was taken for a number of programs adopted since Ogden City last violated the PM_{10} standard. These particulate reducing programs include covered load ordinances, increased frequency of street sweeping, and reduced application of deicing and skid resistant materials (salt and sand). Documentation of these programs has been provided by Ogden City but the actual benefits of these programs are not included in the emission projections below. Other areas that have estimated the benefit of these programs have found a silt load reduction of over 30% for effective street sweeping programs and a 5% silt load reduction when limiting the amount of sand and salt applied to the roads. Ogden City has also implemented a number of specific projects that have a positive effect in reducing particulate emissions including park and ride lots, storm water improvements, shoulder widening and edge striping, and addition of curb and gutter on several projects.

From this demonstration it is concluded that the RTP conforms under the Emission Reductions Criteria for areas without motor vehicle emissions budgets for PM_{10} in Ogden City.

Table 9a

Ogden City - PM10 (NOx Precursor)

Conformity	Determination
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	<i>d</i>	С	С	е
Year	2016	2020	2030	2040
1990 Emissions (tons/day)	6.92	6.92	6.92	6.92
emission rate (grams/mile)	1.44	1.08	0.82	0.74
seasonal VMT	1,657,393	1,760,837	2,000,337	2,213,895
Projection* (tons/day)	2.64	2.10	1.80	1.82
Conformity (Projection < 1990 Emissions?)	Pass	Pass	Pass	Pass

a - attainment year, b - budget year, c - 10-year rule, d - no budget 5-year rule, e - last year of Plan,

* Projection = Emission Rate x seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.

Table 9b

	d	С	С	е
Year	2016	2020	2030	2040
1990 Emissions (tons/day)	1.09	1.09	1.09	1.09
emission rates (grams/mile)				
exhaust particulates - (Ec, Oc, SO4)	0.0597	0.0476	0.0328	0.0298
brake particulates	0.0363	0.0369	0.0438	0.0401
tire particulates	0.0083	0.0085	0.0088	0.0087
road dust particulates	0.2638	0.2627	0.2605	0.2586
seasonal VMT	1,657,393	1,760,837	2,000,337	2,213,895
Projection* (tons/day)	0.67	0.69	0.76	0.82
Conformity				
(Projection < 1990 Emissions?)	Pass	Pass	Pass	Pass

Ogden City - PM10 (Primary Particulates**) Conformity Determination

** Includes road dust, elemental carbon, organic carbon, gasoline exhaust particulates, tire wear, and brake wear.

a - attainment year, b - budget year, c - 10-year rule, d - no budget 5-year rule, e - last year of Plan,

* Projection = Emission Rate x seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.

Salt Lake County PM10 Conformity

The PM_{10} SIP for Salt Lake County does not define a budget beyond the year 2003. Therefore, conformity tests are required only for analysis years which are identified in accordance with 40 CFR 93.118. All analysis years after 2003 must meet the 2003 budgets for primary particulates and secondary particulates (see the discussion above under Ogden PM_{10} Conformity for an explanation of primary and secondary PM_{10} emissions). The State air quality rule R307-310 allows a portion of the surplus primary PM_{10} budget to be applied to the secondary PM_{10} budget for conformity purposes as seen for the year 2015 in Table 10 below. For the analysis years 2020, 2030, and 2040, no budget adjustments were necessary.

Table 10

Salt Lake County - PM10 Budgets

Direct (Dust) and Precursor (NOx) PM10 Emission Budgets

(tons/day)

Year	2020	2030	2040
Total PM10 Budget [#]	72.60	72.60	72.60
Direct PM10 Budget to be Traded	0.00	0.00	0.00
Direct PM10 Budget	40.30	40.30	40.30
NOx Precursor PM10 Budget	32.30	32.30	32.30

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Table 11a and Table 11b below demonstrate that projected mobile source emissions are within the emission budget defined in the SIP. The years listed in Table 10a and Table 10b are in accordance with requirements of the Conformity Rule (40 CFR Part 93) as noted in the tables.

From this demonstration it is concluded that the RTP conforms to the applicable controls and goals of the State Implementation Plan for PM_{10} in Salt Lake County.

Table 11aSalt Lake County - PM10 (NOx Precursor)Conformity Determination

	C	С	е
Year	2020	2030	2040
Budget [#] (tons/day)	32.30	32.30	32.30
emission rate (grams/mile)	0.70	0.51	0.50
seasonal VMT	31,976,820	38,125,117	44,599,126
Projection* (tons/day)	24.52	21.42	24.37
Conformity (Projection < Budget?)	Pass	Pass	Pass

a - attainment year, b - budget year, c - 10-year rule, d - no budget 5-year rule, e - last year of Plan,

[#] WFRC Memo to Jeff Houk of EPA, April 15, 1994.

* Projection = Emission Rate x seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.

Table 11b Salt Lake County - PM10 (Primary Particulates**) Conformity Determination

	С	С	е
Year	2020	2030	2040
Budget [#] (tons/day)	40.30	40.30	40.30
emission rates (grams/mile)			
exhaust particulates - (Ec, Oc, SO4)	0.0584	0.0480	0.0475
brake particulates	0.0249	0.0260	0.0257
tire particulates	0.0069	0.0070	0.0069
road dust particulates	0.2070	0.2026	0.1928
seasonal VMT	31,976,820	38,125,117	44,599,126
Projection* (tons/day)	10.48	11.92	13.41
Conformity			
(Projection < Budget?)	Pass	Pass	Pass

** Includes road dust, elemental carbon, organic carbon, gasoline exhaust particulates, tire wear, and brake wear.

[#] WFRC Memo to Jeff Houk of EPA, April 15, 1994.

a - attainment year, b - budget year, c - 10-year rule, d - no budget 5-year rule, e - last year of Plan,

* Projection = Emission Rate x seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.

Salt Lake PM_{2.5} Conformity

(Includes Davis, Salt Lake, and portions of Weber, Tooele, and Box Elder Counties)

Davis, Salt Lake, and portions of Weber, Tooele, and Box Elder Counties have been designated as non-attainment areas under the new $PM_{2.5}$ standard (35 µg/m³) that was established in 2006. Work has begun on a $PM_{2.5}$ section of the State Implementation Plan which will establish a motor vehicle emission budget for emissions associated with $PM_{2.5}$. Until the $PM_{2.5}$ SIP is completed and approved by EPA, $PM_{2.5}$ interim conformity requirements apply. EPA interim conformity for $PM_{2.5}$ emissions requires that future NOx emissions (a precursor to $PM_{2.5}$) and primary particulate emissions not exceed 2008 levels.

Table 12a below demonstrates that projected mobile source emissions of NOx (a precursor to $PM_{2.5}$ emissions) in the five-county $PM_{2.5}$ non-attainment area are less than 2008 NOx emissions. Table 12b below demonstrates that direct particle emissions of $PM_{2.5}$ in the five-county $PM_{2.5}$ non-attainment area are also less than 2008 direct particle emissions. Direct particle emissions include exhaust emissions of elemental carbon, organic carbon, and sulfates (SO4); and mechanical emissions from brake wear and tire wear.

From this demonstration it is concluded that the RTP conforms under the interim conformity guidelines for $PM_{2.5}$ areas without an approved motor vehicle emissions budget for the Salt Lake $PM_{2.5}$ non-attainment area.

Table 12a Salt Lake Area[#] - PM2.5 (NOx Precursor) Conformity Determination

	a	С	С	е
Year	2014	2020	2030	2040
2008 Emissions (tons/day)	105.88	105.88	105.88	105.88
emission rate (grams/mile)	1.40	0.80	0.57	0.55
seasonal VMT	46,459,302	52,629,105	62,376,600	72,782,702
Projection* (tons/day)	71.64	46.54	39.52	44.35
Conformity (Projection < Budget?)	Pass	Pass	Pass	Pass

Salt Lake PM2.5 Non-Attainment Area includes: Davis, Salt Lake, and portions of Weber, Box Elder and Tooele Counties.

a - attainment year, b - budget year, c - 10-year rule, d - no budget 5-year rule, e - last year of Plan,

* Projection = Emission Rate x seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.

Table 12b
Salt Lake Area [#] - PM2.5 (Direct PM Emissions**)
Conformity Determination

	а	С	С	е
Year	2014	2020	2030	2040
2008 Emissions (tons/day)	8.19	8.19	8.19	8.19
emission rate (grams/mile)	0.14	0.12	0.10	0.10
seasonal VMT	46,459,302	52,629,105	62,376,600	72,782,702
Projection* (tons/day)	7.25	6.79	7.17	8.15
Conformity				
(Projection < Budget?)	Pass	Pass	Pass	Pass

Salt Lake PM2.5 Non-Attainment Area includes: Weber, Davis, Salt Lake, and portions of Box Elder and Tooele Counties.

a - attainment year, b - budget year, c - 10-year rule, d - no budget 5-year rule, e - last year of Plan,

* Projection = Emission Rate x seasonal VMT / 453.6 grams per pound / 2,000 pounds per ton.

** Direct PM for interim conformity includes road dust, gasoline particulates, elemental carbon, organic carbon, SO4, brake wear, and tire wear.

Salt Lake and Davis County Ozone Conformity

The 1-hour ozone standard was revoked on June 19, 2005. Therefore, a conformity analysis under the 1-hour ozone standard in Salt Lake and Davis Counties is no longer required.

The current 8-hour ozone standard is 75 ppb. All counties within the Wasatch Front area are in attainment of the current 8-hour ozone standard.

Appendix – 1 Definition of Regionally Significant Projects

Process for Determining Regionally Significant Facilities for Purposes of Regional Emissions Analysis (see CFR 93.105.2.c.1.ii)

<u>Background</u>: 40 FR 93.101 defines "regionally significant project" and associated facilities for the purpose of transportation conformity. The federal definition does not specifically include minor arterials. The following definitions and processes will be used by the Wasatch Front Regional Council (WFRC) and Mountainlands Association of Governments (MAG) in consultation with DAQ, UDOT, UTA, FHWA, FTA, and EPA to determine which facilities shall be considered regionally significant for purposes of regional emissions analysis. It is the practice of the MPO to include minor arterials and collectors in the travel model for the purpose of accurately modeling regional VMT and associated vehicle emissions. The inclusion of minor arterials and collectors in the travel model for the purpose of accurately modeling the travel model, however, does not identify these facilities as regionally significant.

- 1. Any new or existing facility with a functional classification of principal arterial or higher on the latest UDOT Functional Classification Map (currently found at <u>http://www.dot.utah.gov/index.php/m=c/tid=1228</u>) shall be considered regionally significant.
- 2. Any fixed guide-way transit service including light rail, commuter rail, or portions of bus rapid transit that involve exclusive right-of-way shall be considered regionally significant.
- 3. As traffic conditions change in the future, the MPO's in consultation with DAQ, UDOT, FHWA, and EPA (and UTA and FTA in cases involving transit facilities) will consider 1) the relative importance of minor arterials serving major activity centers, and 2) the absence of principal arterials in the vicinity to determine if any minor arterials in addition to those listed in Exhibit A should be considered as regionally significant for purposes of regional emissions analysis.

Exhibit A Minor Arterials Determined to be Regionally Significant for Purposes of Regional Emissions Analysis

In consultation with DAQ, UDOT, FHWA, and EPA; and based on inspection and engineering judgment of current traffic conditions; and based on application of the "Process for Determining Regionally Significant Facilities for Purposes of Regional Emissions Analysis" agreed upon by the aforementioned agencies; the WFRC and MAG designate the following minor arterials as regionally significant.

Salt Lake County

300 West/Beck Street: 600 South to I-15 U-111: SR-201 to New Bingham Highway New Bingham Highway: U-111 to 9000 South

Davis County

Syracuse Road: I-15 west to Antelope Island SR-108 (2000 West): Syracuse Road to Weber County line

Weber County

SR-108 (3500 West): Davis County line to Midland Drive SR-108 (Midland Drive): 3500 West to Hinckley Drive SR-79 (Hinckley Drive): SR-108 to I-15

Utah County

Redwood Road: Salt Lake County line to Highway-73

Process for Determining Significant Change in Design Concept and Scope for Purposes of Regional Emissions Analysis (see CFR 93.105.2.c.1.ii)

Changes to regionally significant projects may or may not necessitate a new regional emissions analysis. The following definitions and processes will be used to determine what changes to project concept and scope are to be considered significant or not for purposes of regional emissions analysis.

- 1. Adding or extending freeway auxiliary lanes or weaving lanes between interchanges is not considered a significant change in concept and scope since these lanes are not normally included in the travel model.
- 2. Adding or extending freeway auxiliary/weaving lanes from one interchange to a point beyond the next interchange is considered a significant change in concept and scope.
- 3. A change to a regionally significant project defined in the Regional Transportation Plan that does not change how the project is defined in the travel model is not considered a significant change in concept and scope. These changes include but are not limited to lane or shoulder widening, cross section (other than the number of through lanes), alignment, interchange configuration, intersection traffic control, turn lanes, continuous or center turn lanes, and storage lanes.
- 4. A change to a regionally significant project defined in the Regional Transportation Plan that does alter the number of through lanes, lane capacity, or speed classification as defined in the travel model is considered a significant change in concept and scope.
- 5. Advancing or delaying the planned implementation of a regionally significant project that does not result in a change in the transportation network described in the travel model for any horizon year (as defined in CFR 93.101) is not considered a significant change in concept and scope.
- 6. Advancing or delaying the planned implementation of a regionally significant project that does result in a change in the transportation network described in the travel model for any horizon year (as defined in CFR 93.101) is considered a significant change in concept and scope.
- 7. Project changes not addressed in the above statements will be decided on a case by case basis through consultation by representatives from DAQ, WFRC, MAG, UDOT, UTA, FHWA, FTA, and EPA.

Appendix-2

Highway and Transit Projects Amended 2011-2040 RTP

Salt Lake/West Valley and Ogden/Layton Areas

2013 Amended RTP HIGHWAY PROJECTS LIST

Project Amendments to the 2011-2040 RTP

Project Description

Weber County

Pioneer Road – SR126 to 4700 West – Marriott-Slaterville has requested this project be amended into Phase 1 of the RTP. Marriott-Slaterville has identified operational improvements regarding this section of the facility.

Funding: Potential for Weber County corridor preservation funds and County 1/4c Local Option Sales Tax

RTP Amendment: Include the project in Phase 1 of the Plan. (This project is not currently in the RTP).

Adams Avenue – US-89 Washington Blvd to Washington Terrace City Limits –

Washington Terrace has requested this project be amended into Phase 1 of the RTP. This project will convert the facility from 2 to 4 lanes to accommodate increasing demand.

Funding: STP Funds already programmed for reconstruction (\$4.3M)

RTP Amendment: Move the project from Phase 2 to Phase 1.

4000 South (SR-37) – 5100 West to 1900 West (SR-126) – UDOT has requested this project be amended into Phase 1 of the RTP. This project will convert the facility from 2 to 4 lanes to accommodate increasing demand.

Funding: House Bill 377 adopted in the 2013 Utah State Legislative session programmed \$15M for this project and Weber County has programmed \$10M for this project.

RTP Amendment: Move the project from Phase 2 to Phase 1.

Salt Lake County

Bangerter Highway and Redwood Road Interchange – UDOT has requested this project be amended into Phase 1 of the RTP. This project would construct a grade separated interchange, improving traffic flow on Bangerter and Redwood Road. Environmental analysis would be conducted in 2013 with anticipated construction in 2014.

Funding: House Bill 377 adopted in the 2013 Utah State Legislative session programmed \$42M for this project.

RTP Amendment: Move the project from Phase 3 to Phase 1.

2011-2040 RTP Amendments (Number 4) January 2014

Proposed I-15 Point of the Mountain Projects

1. Location: I-15 from 12300 South to Bangerter Highway

Description: Increase the number of total lanes from 5 northbound and 5 southbound to 5 northbound and 6 southbound lanes.

Proposed Design: The proposed design remains the same for northbound I-15, including the auxiliary lane. The southbound onramp from 12300 South, rather than serving as an auxiliary lane and an exit-only lane to Bangerter Highway, would instead continue through the Bangerter Highway structure, thereby providing a fifth general purpose and one High Occupancy Toll (HOT) lane profile through this section.

Funding Source: Transportation Investment Fund (TIF)

RTP Amendment: The above proposed design improvements and moving this project to Phase 1 of the 2011-2040 RTP.

2. Location: I-15 from Bangerter Highway to the Utah County Line

Description: Increase the current number of lanes in this section of I-15, from 4 and 5 north and southbound lanes, to a total of 6 lanes, thereby providing a fifth general purpose and one High Occupancy Toll (HOT) lane profile through this section.

Proposed Design: The proposed design remains the same as the FEIS, except that the truck-climbing lanes would not be constructed at this time. The 5 general purpose lanes in each direction is consistent with the RTP and the Air Quality Conformity determination for Phase 2.

Funding Source: Transportation Investment Fund (TIF)

RTP Amendment: The above proposed design improvements and moving this project to Phase 1 of the 2011-2040 RTP.

Cost: \$250,000,000

In addition to the above, the Utah Department of Transportation is requesting an amendment to the 2011-2040 RTP to include the following projects in Phase 1 of the RTP.

3. I-15 Interchange at I-215 (Near Fashion Place Mall – Approximately 6600 South).

- Move from Phase 3 to Phase 1

Cost: \$66,000,000

The following projects are new additions to the RTP. While they are Congestion Management System / Operational type projects, which are not typically included in the RTP, the UDOT is requesting their inclusion to maintain full transparency and funding flexibility through the Transportation Investment Fund.

4. I-15 SR-201 to 5300 South

- Add a southbound auxiliary lane from SR-201 to 5300 South

- Add an additional, left turn lane (making it a triple left) on I-15 southbound ramp to eastbound 3300 South
- May need to modify the SPUI with compound curves

Cost: \$32,000,000

5. I-15 Northbound 9000 South to I-215

- Decrease snow storage to 5 feet
- Add an auxiliary lane using existing shoulder from 9000 South to the I-215 off ramp
- Three lanes exit to I-215 (2 trap or "exit only" lanes, 1 option lane, with emergency pullout)

Cost: \$6,000,000

6. I-15 400 South to Bangerter Highway

- Add second northbound and southbound HOV lane during peak hours using inside shoulder and dynamic lane use signing

Cost: \$11,000,000

7. I-15 400 South to 10600 South

- I-15 ITS improvements
- Integrated corridor management
- Freeway to freeway ramp metering
- Traffic signal optimization

Cost: \$9,000,000

8. I-215 SR-201 to 4700 South

- Add auxiliary lanes

Cost: \$35,000,000

Layton City is requesting an amendment to the 2011-2040 RTP to include the following project in Phase 1 of the RTP.

9. I-15 Overpass at 1200 North Layton

- Move facility from the Unfunded Phase to Phase 1

Cost: \$20,000,000

Moving the projects listed above to Phase 1 of the 2011-2040 RTP will require that the following projects currently in Phase 1 will need to be moved to Phase 2.

- SR-171/3500 South Mountain View corridor to 4000 West \$105,000,000
- US-89 / Antelope Drive Interchange \$72,000,000
- Layton Parkway 1475 West to West Davis Corridor \$17,000,000

2011-2040 RTP Amendments (Number 5) May 2014

- 1. Antelope Drive (Main Street Woodland Park Drive) Widen from 4 lanes to 6 lanes by 2020 (project is new to RTP and placed in phase 1).
- 2. State Street (11400 South 10600 South) Widen from 4 lanes to 6 lanes by 2020 (project is new to RTP and placed in phase 1).
- 3. Bangerter Highway interchange at 9000 South new interchange by 2020 (moved from phase 3 to phase 1).
- 4. Advance the upgrade of the Hillfield Road interchange on I-15 from Phase 2 to Phase 1 (conversion to a SPUI).

ID#	PROJECT	PROJECT DESCRIPTION		PHASE
Salt L	ake County, East-West Facilities	<u>.</u>		
S-1	Sports Complex Boulevard (2400 North)	New Construction: 0 to 2 lanes	COL / 0.5 miles / Local	1
S-2	700 South / 500 South	ROW: 2007 - 0 ft / 2040 - 66 ft Widening: 2 to 4 lanes	Bike Class: None COL / 3.6 miles / Local	3
	5600 West to 2700 West California Avenue	ROW: 2007 - 50 ft / 2040 - 99 ft Widening: 2 to 4 lanes	Bike Class: 2 MA / 1 miles / Local	-
S-3	Mountain View Corridor to 4800 West	ROW: 2007 - 110 ft / 2040 - 110 ft Widening: 6 to 8 lanes	Bike Class: Priority 2 FWY / 3.5 miles / UDOT	3
S-4	1300 East to I-215 (East)	ROW: 2007 - 328 ft / 2040 - 328 ft	Bike Class: Priority 1	2
S-5	I-215 (East) to Summit County Line	Widening: 3 EB to 4 EB lanes ROW: 2007 - 328 ft / 2040 - 328 ft	FWY / 11 miles / UDOT Bike Class: 3	3
S-6	2100 South I-15 to 1300 East	Operational	MA / 2.7 miles / Local Bike Class: 2	1
S-7	SR-201	Widening: 4 to 6 lanes	FWY / 6.6 miles / UDOT	3
	I-80 (West) to SR-111 Bypass SR-201	ROW: 2007 - 300 ft / 2040 - 300 ft Widening: 4 to 6 lanes	Bike Class: Priority 1 FWY / 4 miles / UDOT	2
S-8	SR-111 Bypass to Mountain View Corridor SR-201	ROW: 2007 - 300 ft / 2040 - 300 ft Widening: 6 to 6+HOT lanes	Bike Class: Priority 1 FWY / 7 miles / UDOT	
S-9	Mountain View Corridor to I-15	ROW: 2007 - 300 ft / 2040 - 300 ft	Bike Class: None	2
S-10	Parkway Boulevard (2700 South) 7200 West to 5600 West	Widening: 2 to 4 lanes ROW: 2007 - 80 ft / 2040 - 86 ft	COL / 2 miles / Local Bike Class: 2	3
S-11	3300 South / 3500 South I-215 (West) to Highland Drive	Operational	PA / 2.7 miles / UDOT Bike Class: 1, 2, and None	1
S-12	3500 South	Widening: 2 to 4 lanes	PA / 1.3 miles / Local	3
S-13	SR-111 Bypass to 7200 West 3500 South	ROW: 2007 - 66 ft / 2040 - 110 ft Widening: 2 to 4 lanes	Bike Class: 2 and 3 PA / 1.7 miles / Local	2
	7200 West to Mountain View Corridor 3500 South	ROW: 2007 - 66 ft / 2040 - 110 ft Widening: 2/4 to 6 lanes	Bike Class: None PA / 2.3 miles / UDOT	
S-14	Mountain View Corridor to 4000 West	ROW: 2007 - 80 ft / 2040 - 113 ft	Bike Class: None	1
S-15	4100 South SR-111 to Mountain View Corridor	Widening: 2 to 4 lanes ROW: 2007 - 76 ft / 2040 - 99 ft	MA / 4.3 miles / Local Bike Class: Priority 2	3
S-16	4700 South 6400 West to 4000 West	Widening: 2 to 4 lanes ROW: 2007 - 80 ft / 2040 - 110 ft	PA / 2.3 miles / Local Bike Class: 2	2
S-17	4700 South	Widening: 4 to 6 lanes	PA / 1.5 miles / Local	1
-	4000 West to 2700 West 4500 South / 4700 South	ROW: 2007 - 110 ft / 2040 - 110 ft Widening: 4 to 6 lanes	Bike Class: 3 PA / 2 miles / UDOT	
S-18	Redwood Road to I-15 4500 South	ROW: 2007 - 150 ft / 2040 - 150 ft Widening: 2 to 4 lanes	Bike Class: 3 and None PA / 2.2 miles / UDOT	3
S-19	900 East to 2300 East	ROW: 2007 - 80 ft / 2040 - 110 ft	Bike Class: 2 and 3	3
S-20	5400 South SR-111 to Mountain View Corridor	Widening: 2 to 4 lanes ROW: 2007 - 70 ft / 2040 - 99 ft	MA / 2.4 miles / UDOT Bike Class: Priority 2	2
S-21	5400 South SR-111 to Mountain View Corridor	Widening: 4 to 6 lanes ROW: 2007 - 70 ft / 2040 - 123 ft	MA / 2.4 miles / UDOT Bike Class: Priority 2	3
S-22	5400 South	Widening: 4 to 6 lanes	MA / 2.5 miles / UDOT	1
-	Mountain View Corridor to Bangerter Highway 5400 South	ROW: 2007 - 65 ft / 2040 - 110 ft Operational	Bike Class: Priority 2 and 3 MA / 2.3 miles / UDOT	
S-23	5600 West to Bangerter Highway 5400 South		Bike Class: Priority 2 and 3	1
S-24	Redwood Road to I-15	Operational	MA / 2 miles / UDOT Bike Class: Priority 3 and None	1
S-25	6200 South SR-111 to Mountain View Corridor	New Construction: 0 to 4 lanes ROW: 2007 - 0 ft / 2040 - 110 ft	MA / 1.6 miles / Local Bike Class: 1 and 2	1
S-27	6200 South Mountain View Corridor to 5600 West	Widening/NC: 2/0 to 4	MA / 0.3 miles / Local Bike Class: 2	1
S-28	7000 South	ROW: 2007 - 0 ft / 2040 - 110 ft Widening: 3 to 4 lanes	MA / 1.9 miles / Local	2
	Bangerter Highway to Redwood Road 7000 South / 7200 South	ROW: 2007 - 56 ft / 2040 - 99 ft Widening: 4 to 6 lanes	Bike Class: 2 MA / 2 miles / UDOT	
S-29	Redwood Road to Bingham Junction Boulevard	ROW: 2007 - 90 ft / 2040 - 123 ft	Bike Class: 1 and 2	3
S-30	7000 South / 7200 South Bingham Junction Boulevard to I-15	Widening: 4 to 6 lanes ROW: 2007 - 90 ft / 2040 - 123 ft	MA / 0.6 miles / UDOT Bike Class: 1	1
S-31	Fort Union Boulevard Union Park Boulevard to 3000 East	Operational	MA / 2.8 miles / Local Bike Class: 2	1
S-32	7800 South SR-111 to New Bingham Highway	Widening: 2 to 4 lanes ROW: 2007 - 66 ft / 2040 - 120 ft	MA / 3.7 miles / Local Bike Class: Priority 2	1
S-34	9000 South	New Construction: 0 to 4 lanes	PA / 1.7 miles / Local	1
	SR-111 to 5600 West 9000 South	ROW: 2007 - 0 ft / 2040 - 110 ft Widening: 4 to 6 lanes	Bike Class: 2 PA / 2.5 miles / UDOT	
S-35	5600 West to Bangerter Highway	ROW: 2007 - 106 ft / 2040 - 123 ft	Bike Class: 2	3
S-36	9000 South Bangerter Highway to I-15	Widening: 4 to 6 lanes ROW: 2007 - 106 ft / 2040 - 123 ft	PA / 4 miles / UDOT Bike Class: 1 and 2	2
S-37	10200 South SR-111 to Mountain View Corridor	Widening: 2 to 4 lanes ROW: 2007 - 82 ft / 2040 - 110 ft	COL / 2.6 miles / Local Bike Class: 2	1
S-38	10400 South / 10800 South SR-111 to Mountain View Corridor	New Construction: 0 to 4 lanes	MA / 2 miles / Local	2
S-39	10400 South / 10800 South	ROW: 2007 - 0 ft / 2040 - 110 ft New Construction: 0 to 4 lanes	Bike Class: None MA / 1.2 miles / Local	1
	Mountain View Corridor to 4800 West 10600 South / 10400 South	ROW: 2007 - 0 ft / 2040 - 110 ft Operational	Bike Class: 1 and None MA / 4.2 miles / UDOT	
S-40	Bangerter Highway to I-15		Bike Class: 2 and None	1
S-41	10600 South 1300 East to Highland Drive	Widening: 2 to 4 lanes ROW: 2007 - 86 ft / 2040 - 86 ft	MA / 0.9 miles / Local Bike Class: 1	1
S-42	11800 South SR-111 to 5600 West	Widening: 2 to 4 lanes ROW: 2007 - 66 ft / 2040 - 99 ft	MA / 2.4 miles / Local Bike Class: Priority 2	2

ID#	PROJECT	DESCRIPTION		
S-43	11400 South	Widening: 2 to 4 lanes	MA / 1 miles / Local	1
S-43	11800 South / 5600 West to Valdania Street (5200 West) 11400 South	ROW: 2007 - 80 ft / 2040 - 110 ft Widening: 2 to 4 lanes	Bike Class: Priority 2 MA / 1.2 miles / Local	3
	1300 East to Highland Drive Herriman Parkway (12600 South)	ROW: 2007 - 80 ft / 2040 - 99 ft New Construction: 0 to 4 lanes	Bike Class: Priority 3 and None PA / 1.5 miles / Local	-
S-46	8000 West to 6000 West	ROW: 2007 - 0 ft / 2040 - 110 ft	Bike Class: 1 or 2	3
S-47	12600 South Mountain View Corridor to Bangerter Highway	Widening: 4 to 6 lanes ROW: 2007 - 106 ft / 2040 - 123 ft	PA / 1.6 miles / Local Bike Class: Priority 2	2
S-48	12300 South / 12600 South Redwood Road to 700 East	Widening: 4 to 6 lanes ROW: 2007 - 106 ft / 2040 - 123 ft	PA / 2 miles / UDOT Bike Class: Priority 2	2
S-49	Riverton Boulevard	New Construction: 0 to 4 lanes	COL / 0.6 miles / Local	1
S-50	4570 West to 13400 South 13400 South	ROW: 2007 - 0 ft / 2040 - 89 ft Widening/NC: 2 to 4 lanes	Bike Class: None COL / 3 miles / Local	3
	8000 West to Mountain View Corridor 13400 South	ROW: 2007 - 66 ft / 2040 - 110 ft Widening: 4 to 6 lanes	Bike Class: 2 and 3 COL / 1.7 miles / Local	-
S-51	Mountain View Corridor to Bangerter Highway	ROW: 2007 - 66 ft / 2040 - 106 ft	Bike Class: 2	1
S-52	Juniper Crest 4800 West to Mountain View Corridor	New Construction: 0 to 6 lanes ROW: 2007 - 0 ft / 2040 - 110 ft	MA / 1 miles / Local Bike Class: 2	1
S-53	Juniper Crest / 14400 South Mountain View Corridor to 3600 West	New Construction: 0 to 2 lanes ROW: 2007 - 0 ft / 2040 - 86 ft	COL / 0.9 miles / Local Bike Class: Priority 2 and 3	1
S-54	Traverse Ridge Road Highland Drive to Mike Weir Drive	Widening: 2 to 4 lanes ROW: 2007 - 89 ft / 2040 - 99 ft	COL / 1.3 miles / Local Bike Class: 2	3
S-55	Porter Rockwell Road	New Construction: 0 to 4 lanes	PA / 3 miles / Local	1
	Redwood Road to 14600 South	ROW: 2007 - 0 ft / 2040 - 167 ft	Bike Class: Priority 1 and 2	· ·
SaltL	ake County, North-South Facilities	Wideming/NO: 2/2 to 4 to		
S-56	SR-111 Bypass SR-201 to SR-111	Widening/NC: 0/2 to 4 lanes ROW: 2007 - 55 ft / 2040 - 150 ft	PA / 2.5 miles / UDOT Bike Class: 1 and None	3
S-57	SR-111 5400 South to 11800 South	Widening: 2 to 4 lanes ROW: 2007 - 106 ft / 2040 - 106 ft	PA / 8.5 miles /Local-UDOT Bike Class: Priority 2	2
S-58	8000 West 11800 South to 13400 South	New Construction: 0 to 4 lanes	COL / 1.8 miles / Local Bike Class: None	3
S-59	7200 West	ROW: 2007 - 0 ft / 2040 - 106 ft Widening: 2 to 4 lanes	MA / 2.5 miles / Local	1
	SR-201 to 3500 South Mountain View Corridor	ROW: 2007 - 66 ft / 2040 - 86 ft New Construction: 0 to 4 lanes	Bike Class: 3 PA / 3 miles / UDOT	
S-61	SR-201 to 4100 South	ROW: 2007 - 0 ft / 2040 - 328 ft	Bike Class: Priority 1 & None PA / 2.2 miles / UDOT	1
S-62	Mountain View Corridor 4100 South to 5400 South	New Construction: 0 to 4 lanes ROW: 2007 - 0 ft / 2040 - 328 ft	Bike Class: Priority 1	1
S-63	Mountain View Corridor 5400 South to Redwood Road	New Construction: 0 to 4 lanes ROW: 2007 - 0 ft / 2040 - 328 ft	PA / 14.4 miles / UDOT Bike Class: Priority 1 &None	1
S-64	Mountain View Corridor Redwood Road to Utah County Line	New Construction: 0 to 4 lanes ROW: 2007 - 0 ft / 2040 - 328 ft	PA / 2.9 miles / UDOT Bike Class: Priority 1	2
S-66	Mountain View Corridor	Widening & Interchanges: 4 to 6 lanes	FWY / 3 miles / UDOT	2
	SR-201 to 4100 South Mountain View Corridor	ROW: 2007 - 328 ft / 2040 - 328 ft Widening & Interchanges: 4 to 6 lanes	Bike Class: Priority 1 &None FWY / 2.2 miles / UDOT	2
S-67	4100 South to 5400 South Mountain View Corridor	ROW: 2007 - 328 ft / 2040 - 328 ft Widening & Interchanges: 4 to 6 lanes	Bike Class: Priority 1 FWY / 4.5 miles / UDOT	
S-68	5400 South to 9000 South	ROW: 2007 - 328 ft / 2040 - 328 ft	Bike Class: Priority 1 and None	2
S-69	Mountain View Corridor 9000 South to 10200 South	Widening & Interchanges: 4 to 6 lanes ROW: 2007 - 328 ft / 2040 - 328 ft	FWY / 1.5 miles / UDOT Bike Class: Priority 1 and None	3
S-70	Mountain View Corridor 10200 South to Redwood Road	New Construction & Ints: 0 to 6 lanes ROW: 2007 - 328 ft / 2040 - 328 ft	FWY / 8.4 miles / UDOT Bike Class: Priority 1 & None	3
S-71	Mountain View Corridor	Widening & Interchanges: 4 to 6 lanes	FWY / 2.9 miles / UDOT	2
S-72	Redwood Road to Utah County Line Mountain View Corridor	ROW: 2007 - 328 ft / 2040 - 328 ft Widening: 6 to 6+HOV lanes	Bike Class: None FWY / 22.5 miles / UDOT	3
-	SR-201 to Utah County Line 5600 West	ROW: 2007 - 328 ft / 2040 - 328 ft Widening: 2 to 4 lanes	Bike Class: Priority 1 & None MA / 3.1 miles / UDOT	-
S-73	I-80 to SR-201	ROW: 2007 - 86 ft / 2040 - 120 ft	Bike Class: Priority 2	2
S-74	5600 West 2700 South to 6200 South	Operational	PA / 5 miles / Local-UDOT Bike Class: 2	1
S-75	5600 West 6200 South to New Bingham Highway	Widen/ NC: 0/2 to 4 lanes ROW: 2007 - 0 ft / 2040 - 110 ft	MA / 3.1 miles / Local Bike Class: 2	1
S-76	5600 West 6200 South to New Bingham Highway	Operational	MA / 3.1 miles / Local	2
S-77	5600 West	Widening: 2 to 4 lanes	Bike Class: 2 COL / 1.5 miles / Local	2
	New Bingham Highway to Old Bingham Highway 5600 West	ROW: 2007 - 66 ft / 2040 - 110 ft New Construction: 0 to 4 lanes	Bike Class: 2 COL / 1.7 miles / Local	
S-78	Old Bingham Highway to 10400 South / 10800 South	ROW: 2007 - 0 ft / 2040 - 86 ft	Bike Class: None	1
S-79	5600 West 11800 South to 13100 South	New Construction: 0 to 2 lanes ROW: 2007 - 0 ft / 2040 - 86 ft	COL / 3.2 miles / Local Bike Class: 2	1
S-80	5600 West Connection 5600 West to 11800 South	New Construction: 0 to 2 lanes ROW: 2007 - 0 ft / 2040 - 66 ft	COL / 0.7 miles / Local Bike Class: 2 and None	1
S-81	4800 West SR-201 to Lake Park Boulevard (2700 South)	New Construction: 0 to 2 lanes ROW: 2007 - 0 ft / 2040 - 86 ft	COL / 0.9 miles / Local Bike Class: Priority 3	2
S-82	4800 West	New Construction: 0 to 2 lanes	COL / 2.7 miles / Local	1
	Skye Drive to Mountain View Corridor 4570 West	ROW: 2007 - 0 ft / 2040 - 86 ft New Construction: 0 to 4 lanes	Bike Class: Priority 2 and None COL / 1 miles / Local	1
S-83	12600 South to 13400 South 4200 West / Riverton Boulevard	ROW: 2007 - 0 ft / 2040 - 89 ft	Bike Class: None COL / 1.5 miles / Local	1
S-84	13400 South to 14400 South	New Construction: 0 to 4 lanes ROW: 2007 - 0 ft / 2040 - 89 ft	Bike Class: None	1
S-85	4150 West 12600 South to Riverton Boulevard	New Construction: 0 to 2 lanes ROW: 2007 - 0 ft / 2040 - 66 ft	COL / 0.6 miles / Local Bike Class: None	1
S-86	3600 West	Widening: 2 to 4 lanes	COL / 1.3 miles / Local	3

ID#	PROJECT	DESCRIF	PTION	PHASE
S-87	3200 West	New Construction: 0 to 4 lanes	COL / 0.7 miles / Local	2
S-88	California Avenue to 1820 South 3200 West 1820 South to Parkway Boulevard (2700 South)	ROW: 2007 - 0 ft / 2040 - 99 ft Widening: 2 to 4 lanes ROW: 2007 - 0 ft / 2040 - 110 ft	Bike Class: 2 COL / 1.3 miles / Local Bike Class: 2	2
S-89	I-215 2100 North to I-80	Widening: 6 to 8 lanes	FWY / 3.3 miles / UDOT Bike Class: None	3
S-90	I-215 Frontage Road	ROW: 2007 - 328 ft / 2040 - 328 ft New Construction: 0 to 1 lanes	COL / 2.1 miles / Local	1
S-91	2700 South to 4100 South Redwood Road	ROW: 2007 - 0 ft / 2040 - 66 ft Widening: 2 to 4 lanes	Bike Class: None MA / 3 miles / UDOT	3
S-92	I-215 (North) to 1000 North Redwood Road	ROW: 2007 - 110 ft / 2040 - 110 ft Operational	Bike Class: 2 PA / 3.9 miles / UDOT	1
S-93	SR-201 to 4700 South Redwood Road	Widening: 4 to 6 lanes	Bike Class: 1, 2, and None PA / 6 miles / UDOT	3
S-94	9000 South to Bangerter Highway Redwood Road	ROW: 2007 - 66 ft / 2040 - 123 ft Operational	Bike Class: Priority 2 and None PA / 3 miles / UDOT	1
S-95	9000 South to 11400 South Redwood Road	Widening: 2 to 4 lanes	Bike Class: Priority 2 and None PA / 1.5 miles / UDOT	1
S-95	12600 South to Bangerter Highway Redwood Road	ROW: 2007 - 66 ft / 2040 - 99 ft Widening: 4 to 6 lanes	Bike Class: Priority 2 PA / 2.7 miles / UDOT	3
	Bangerter Highway to Porter Rockwell Road 1200 West	ROW: 2007 - 106 ft / 2040 - 123 ft New Construction: 0 to 4 lanes	Bike Class: Priority 2 COL / 0.5 miles / Local	-
S-97	3100 South to 3300 South Bingham Junction Boulevard	ROW: 2007 - 0 ft / 2040 - 86 ft New Construction: 0 to 2 lanes	Bike Class: 3 MA / 2.8 miles / Local	1
S-98	7800 South to 8400 South Galena Park Boulevard	ROW: 2007 - 0 ft / 2040 - 86 ft New Construction: 0 to 4 lanes	Bike Class: 2 COL / 1.8 miles / Local	1
S-99	12300 South to 13490 South	ROW: 2007 - 0 ft / 2040 - 89 ft Widening: 2 to 4 lanes	Bike Class: 1 and 3 COL / 1.2 miles / Local	1
S-100	Lone Peak Parkway	ROW: 2007 - 65 ft / 2040 - 99 ft New Construction: 0 to 4 lanes	Bike Class: 2 COL / 2 miles / Local	3
S-101	12300 South to Bangerter Highway	ROW: 2007 - 0 ft / 2040 - 99 ft Collector/Distributor: 0 to 1 lanes	Bike Class: 2	1
S-103	10000 South to 10600 South	ROW: 2007 - 0 ft / 2040 - 66 ft	COL / 0.7 miles / Local Bike Class: None	1
S-104	1-15 12300 South to Bangerter Highway	Widening: 7+HOV to 8+HOV lanes ROW: 2007 - 328 ft / 2040 - 328 ft	FWY / 1.6 miles / UDOT Bike Class: None	1
S-105	I-15 Bangerter Highway to Utah County Line	Widening: 6/7+HOV to 8+HOV lanes ROW: 2007 - 328 ft / 2040 - 328 ft	FWY / 3.9 miles / UDOT Bike Class: None	1
S-106	I-15 Bangerter Highway to Utah County Line	Widening: 8+HOV to 10+HOV lanes ROW: 2007 - 328 ft / 2040 - 328 ft	FWY / 3.9 miles / UDOT Bike Class: None	1
S-107	Cottonwood Street 4500 South to Vine Street	New Construction: 0 to 2 lanes ROW: 2007 - 0 ft / 2040 - 89 ft	COL / 0.9 miles / Local Bike Class: None	1
S-108	State Street 600 South to I-215	Operational	MA / 8.6 miles / UDOT Bike Class: None	2
S-109	State Street I-215 to 12300 South	Operational	MA / 7.2 miles / UDOT Bike Class: None	1
S-110	State Street 6200 South to 9000 South	Widening: 4 to 6 lanes ROW: 2007 - 100 ft / 2040 - 110 ft	MA / 3.3 miles / UDOT Bike Class: None	1
S-111	900 East 3300 South to 4500 South	Operational	COL / 1.7 miles / Local Bike Class: Priority 2	1
S-112	900 East / 700 East Fort Union Boulevard to 9400 South	Widening: 4 to 6 lanes ROW: 2007 - 106 ft / 2040 - 123 ft	PA / 3 miles / UDOT Bike Class: Priority 2 and 3	3
S-113	700 East 11400 South to 12300 South	Widening: 2 to 4 lanes ROW: 2007 - 80 ft / 2040 - 110 ft	PA / 1.2 miles / UDOT Bike Class: Priority 2	1
S-114	Union Park Boulevard / 1300 East Fort Union Boulevard to 7800 South	Operational	MA / 1.2 miles / Local Bike Class: 1 and None	1
S-115	Highland Drive Murray Holladay Boulevard to Van Winkle Expressway	Operational	PA / 2 miles / Local Bike Class: None	2
S-116	2000 East Fort Union Boulevard to 9400 South	Widening: 4 to 6 lanes ROW: 2007 - 106 ft / 2040 - 123 ft	PA / 3.1 miles / Local Bike Class: Priority 2	3
S-117	Highland Drive 9400 South to 9800 South	Widening: 2 to 4 lanes ROW: 2007 - 106 ft / 2040 - 114 ft	PA / 0.5 miles / Local	2
S-118	Highland Drive 9800 South to Draper City Limit	New Construction: 0 to 4 lanes ROW: 2007 - 0 ft / 2040 - 114 ft	Bike Class: Priority 2 PA / 2.8 miles / Local Bike Class: Priority 2	3
S-119	Highland Drive Draper City Limit to 14600 South	Widening: 2 to 4 lanes	Bike Class: Priority 2 PA/MA / 5.8 miles / Local Bike Class: Brierity 2	3
S-120	Highland Drive Connection	ROW: 2007 - 106 ft / 2040 - 114 ft Widening: 2 to 4 lanes	Bike Class: Priority 2 PA / 1.8 miles / Local	3
S-121	Traverse Ridge Road to 13800 South 500 South / Foothill Drive	ROW: 2007 - 106 ft / 2040 - 114 ft Operational	Bike Class: 2 and None PA / 2.4 miles / UDOT	1
S-122	1300 East to 2300 East Foothill Boulevard	Widening: 4 to 6 lanes	Bike Class: 2 and 3 PA / 2.4 miles / UDOT	3
	2300 East to I-80 .ake County, Spot Facilities	ROW: 2007 - 110 ft / 2040 - 110 ft	Bike Class: Priority 1 and 2	
	SR-201 Interchange	Upgrade	FWY / UDOT	
S-123	@ I-80 SR-201 Interchange	New Construction	Bike Class: Priority 2 FWY / UDOT	2
S-124	@ SR-111 Bypass SR-201 Interchange	New Construction	Bike Class: Priority 3 FWY / UDOT	3
S-125	@ 8400 West SR-201 Interchange	New Construction	Bike Class: Priority 3 FWY / UDOT	2
S-126	@ 7200 West SR-201 Interchange		Bike Class: Priority 3 FWY / UDOT	2
S-127	@ I-215	Upgrade	Bike Class: None	3
S-128	SR-111 Rail Road Structure @ 4300 South	Widening: 2 to 4 lanes	PA / UDOT Bike Class: Priority 2	1

ID#	PROJECT	DESCR	DESCRIPTION		
S-130	5600 West Rail Road Crossing	New Construction: 2 to 4 lanes	PA / UDOT	1	
S-131	@ 750 South 4800 West Overpass	New Construction: 0 to 2 lanes	Bike Class: Priority 2 COL / Local	2	
S-133	@ SR-201 Bangerter Highway Interchange	Upgrade	Bike Class: Priority 3 FWY / UDOT	3	
S-140	@ SR-201 Bangerter Highway Interchange	New Construction	Bike Class: None FWY / UDOT	3	
S-141	@ 6200 South Bangerter Highway Interchange	New Construction	Bike Class: 2 FWY / UDOT	3	
S-142	@ 7000 South Bangerter Highway Interchange	New Construction	Bike Class: 2 FWY / UDOT	1	
	@ 7800 South Bangerter Highway Interchange	New Construction	Bike Class: Priority 2 FWY / UDOT		
S-143	@ 9000 South Bangerter Highway Interchange	New Construction	Bike Class: 2 FWY / UDOT	1	
S-144	@ 9800 South Bangerter Highway Interchange	New Construction	Bike Class: Priority 2 FWY / UDOT	3	
S-145	@ 10400 South Bangerter Highway Interchange	New Construction	Bike Class: 2 FWY / UDOT	3	
S-146	@ 11400 South Bangerter Highway Interchange		Bike Class: Priority 2 FWY / UDOT	3	
S-147	@ 12600 South	New Construction	Bike Class: Priority 2	3	
S-148	Bangerter Highway Interchange @ 13400 South	New Construction	FWY / UDOT Bike Class: 2	2	
S-149	Bangerter Highway Interchange @ 2700 West	New Construction	FWY / UDOT Bike Class: None	3	
S-150	Bangerter Highway Interchange @ Redwood Road	New Construction	FWY / UDOT Bike Class: Priority 2	1	
S-151	Bangerter Highway Interchange @ 600 West	New Construction	FWY / UDOT Bike Class: None	1	
S-152	Bangerter Highway Interchange @ I-15	Upgrade	FWY / UDOT Bike Class: None	2	
S-154	P15 Interchange @ 5400 South	New Construction	FWY / UDOT Bike Class: Priority 3	3	
S-155	I-215 Interchange	Upgrade	FWY / UDOT	3	
S-156	@ Redwood Road (South) I-15 Interchange	New Construction: 0 to 2 lanes	Bike Class: None FWY / UDOT	3	
S-157	@ 100 South (HOV Ramps) I-15 Interchange	Upgrade	Bike Class: None FWY / UDOT	1	
S-158	@ I-215 (South) 13800 South Overpass	New Construction: 0 to 2 lanes	Bike Class: None COL / Local	3	
	@ I-15 Interchange	Upgrade	Bike Class: Priority 2 FWY / UDOT	2	
S-160	@ 14600 South I-80 Interchange	Upgrade	Bike Class: Priority 2 FWY UDOT		
S-161	@ I-215 / Foothill Drive Avalanche Snow Shed	New Construction	Bike Class: 3 MA UDOT	2	
S-163	Little Cottonwood Canyon Road @ Whitepine Chutes		Bike Class: 2	3	
Davis	County, East-West Facilities	Widening: 2 to 4 lanes	MA / 2 miles / UDOT		
D-1	West Davis Corridor to 2000 West	ROW: 2007 - 80 ft / 2040 - 99 ft	Bike Class: Priority 2	2	
D-2	1800 North 2000 West to SR-126	Widening: 2 to 4 lanes ROW: 2007 - 66 ft / 2040 - 99 ft	MA / 2 miles / UDOT Bike Class: Priority 2	1	
D-3	SR-193 Extension West Davis Corridor to 2000 West	New Construction: 0 to 4 lanes ROW: 2007 - 0 ft / 2040 - 110 ft	MA / 2.2 miles / UDOT Bike Class: Priority 2	2	
D-4	SR-193 Extension 2000 West to State Street	New Construction: 0 to 4 lanes ROW: 2007 - 0 ft / 2040 - 110 ft	MA / 2.9 miles / UDOT Bike Class: Priority 2	1	
D-6	SR-193	Operational	MA / 5 miles / UDOT	1	
D-7	I-15 to US-89 Syracuse Road (SR-127)	Widening: 2 to 4 lanes	Bike Class: Priority 2 MA / 1 miles / UDOT	1	
	West Davis Corridor to 2000 West Antelope Drive	ROW: 2007 - 66 ft / 2040 - 110 ft New Construction: 0 to 2 lanes	Bike Class: Priority 2 MA / 0.3 miles / Local	1	
D-8	Oak Forest Drive (2500 East) to US-89 Gordon Avenue (1000 North)	ROW: 2007 - 0 ft / 2040 - 86 ft Widening: 2 to 4 lanes	Bike Class: Priority 2 COL / 0.7 miles / Local		
D-9	Fairfield Road to 1600 East Gordon Avenue (1000 North)	ROW: 2007 - 66 ft / 2040 - 86 ft New Construction: 0 to 4 lanes	Bike Class: None COL / 1.3 miles / Local	2	
D-10	1600 East to US-89	ROW: 2007 - 0 ft / 2040 - 86 ft	Bike Class: None	2	
D-11	Hill Field Road Extension 3650 West (Layton) to 2200 West (Layton)	Widening: 2 to 4 lanes ROW: 2007 - 60 ft / 2040 - 110 ft	MA / 1.5 miles / Local Bike Class: 2	3	
D-12	Layton Parkway West Davis Corridor to Flint Street	New Construction: 0 to 4 lanes ROW: 2007 - 0 ft / 2040 - 86 ft	MA / 2.6 miles / Local Bike Class: None	1	
D-13	200 North (Kaysville) West Davis Corridor to I-15	Widening: 2 to 4 lanes ROW: 2007 - 60 ft / 2040 - 99 ft	MA / 2.1 miles / Local Bike Class: Priority 2	3	
D-14	2600 South / 1100 North Redwood Road to I-15	Operational	MA / 1.4 miles / Local Bike Class: Priority 2	1	
D-15	Center Street Redwood Road to US-89	Operational	COL / 1.1 miles / Local Bike Class: Priority 1	1	
Davis	County, North-South Facilities	·		·	
D-16	West Davis Corridor	New Construction: 0 to 4 lanes	FWY / 4.8 miles / UDOT	2	
	Weber County Line to Syracuse Road West Davis Corridor	ROW: 2007 - 0 ft / 2040 - 320 ft New Construction: 0 to 4 lanes	Bike Class: Priority 1 FWY / 11.8 miles / UDOT	- 1	
D-16 D-17	Weber County Line to Syracuse Road West Davis Corridor Syracuse Road to I-15 / US-89 / Legacy Parkway	ROW: 2007 - 0 ft / 2040 - 320 ft New Construction: 0 to 4 lanes ROW: 2007 - 0 ft / 2040 - 320 ft	Bike Class: Priority 1 FWY / 11.8 miles / UDOT Bike Class: Priority 1		

ID#	PROJECT	DESCRI	DESCRIPTION		
D-18	West Davis Corridor Weber County Line to Syracuse Road	Corridor Preservation	FWY / 4.8 miles / UDOT	1	
D-19	3000 West	ROW: 2007 - 0 ft / 2040 - 320 ft New Construction: 0 to 2 lanes	Bike Class: Priority 1 COL / 0.5 miles / Local	1	
D-20	6000 South (Weber County) to 2300 North 2000 West (SR-108)	ROW: 2007 - 0 ft / 2040 - 75 ft Widening: 2 to 4 lanes	Bike Class: Priority 2 MA / 4.4 miles / UDOT	1	
	Weber County Line to Syracuse Road (SR-108) 2000 West	ROW: 2007 - 66 ft / 2040 - 110 ft Widening: 2 to 4 lanes	Bike Class: Priority 2 COL / 1.5 miles / Local		
D-21	Syracuse Road (SR-108) to West Davis Corridor 3650 West (Layton)	ROW: 2007 - 66 ft / 2040 - 99 ft New Construction: 0 to 2 lanes	Bike Class: Priority 2 COL / 0.7 miles / Local	3	
D-22	700 North to Gentile Street	ROW: 2007 - 0 ft / 2040 - 66 ft	Bike Class: None	3	
D-23	2700 West (Layton) Gordon Avenue to Layton Parkway	New Construction: 0 to 4 lanes ROW: 2007 - 0 ft / 2040 - 99 ft	COL / 1.8 miles / Local Bike Class: 2	3	
D-24	Redwood Road 500 South to 2600 South	Widening: 2 to 4 lanes ROW: 2007 - 100 ft / 2040 - 110 ft	MA / 1.7 miles / UDOT Bike Class: Priority 2	2	
D-25	I-15 Weber County Line to Hill Field Road (SR-232)	Widening: 6 to 6+HOV lanes ROW: 2007 - 328 ft / 2040 - 328 ft	FWY / 6.3 miles / UDOT Bike Class: None	1	
D-26	I-15	Widening: 8 to 8+HOV lanes	FWY / 10.6 miles / UDOT	1	
D-28	US-89 (Farmington) to I-215 US-89	ROW: 2007 - 328 ft / 2040 - 328 ft Widening: 4 to 6 lanes	Bike Class: None FWY / 3.2 miles / UDOT	2	
-	I-84 to Antelope Drive	ROW: 2007 - 120 ft / 2040 - 150 ft Widening: 4 to 6 lanes	Bike Class: Priority 2 FWY / 7.4 miles / UDOT		
D-29	Antelope Drive to I-15 (Farmington)	ROW: 2007 - 120 ft / 2040 - 150 ft	Bike Class: Priority 2	3	
Davis	County, Spot Facilities				
D-30	1800 North Overpass @ 500 West Rail Road Crossing	New Construction: 2 to 4 lanes	MA / UDOT Bike Class: Priority 2	1	
D-31	I-15 Interchange @ 1800 North	New Construction	FWY / UDOT Bike Class: Priority 2	1	
D-32	I-15 Interchange	Upgrade	FWY / UDOT	3	
D-33	@ 650 North I-15 Interchange	Upgrade	Bike Class: None FWY / UDOT	3	
	@ Syracuse Road I-15 Interchange	Upgrade	Bike Class: Priority 2 FWY / UDOT		
D-35	@ Hill Field Road	10	Bike Class: None	1	
D-36	I-15 Interchange @ Shepard Lane	New Construction	FWY / UDOT Bike Class: None	1	
D-37	I-15 Interchange @ Parrish Lane	Upgrade	FWY / UDOT Bike Class: Priority 2	3	
D-38	I-15 Interchange @ 400 North / 500 West	Upgrade	FWY / UDOT Bike Class: None	3	
D-39	I-15 Interchange	Upgrade	FWY / UDOT	1	
D-40	@ 500 South I-15 Interchange	Upgrade	Bike Class: Priority 2 FWY / UDOT	1	
	@ 2600 South 2600 South / 1100 North	New Construction	Bike Class: Priority 2 MA / Local		
D-41	@ 1150 West Rail Road Crossing		Bike Class: Priority 2	2	
D-42	Legacy Parkway Interchange @ Center Street	New Construction	FWY / UDOT Bike Class: Priority 1	3	
D-45	US-89 Interchange @ Antelope Drive	New Construction	FWY / UDOT Bike Class: Priority 2	1	
D-46	US-89 Interchange @ Gordon Avenue	New Construction	FWY / UDOT Bike Class: Priority 2	2	
D-47	US-89 Interchange	New Construction	FWY / UDOT	2	
D-48	@ Oakhills Drive (SR-109) US-89 Interchange	New Construction	Bike Class: Priority 2 FWY / UDOT	1	
-	@ 400 North (Fruit Heights) Nicholl's Road Overpass	New Construction: 0 to 2 lanes	Bike Class: Priority 2 COL / Local		
D-49	@ US-89		Bike Class: None	3	
Webe	r County, East-West Facilities				
W-1	Skyline Drive (North) US-89 to 450 East	New Construction: 0 to 2 lanes ROW: 2007 - 0 ft / 2040 - 86 ft	COL / 3.6 miles / Local Bike Class: Priority 3	1	
W-2	Skyline Drive (North) 450 East to 2600 North	New Construction: 0 to 2 lanes ROW: 2007 - 0 ft / 2040 - 86 ft	COL / 3.1 miles / Local Bike Class: Priority 3	2	
W-3	1700 North	New Construction: 0 to 2 lanes	COL / 1.2 miles / Local	3	
W-4	US-89 to 400 East Larsen Lane	ROW: 2007 - 0 ft / 2040 - 66 ft Widening: 2 to 4 lanes	Bike Class: 1 MA / 0.5 miles / Local	3	
	US-89 / Wall Avenue to 400 East Pioneer Road (400 North)	ROW: 2007 - 60 ft / 2040 - 89 ft Re-stripe: 2 to 4 lanes	Bike Class: None COL / 1 miles / Local		
W-5	I-15 to 1200 West	ROW: 2007 - 110 ft / 2040 - 110 ft	Bike Class: Priority 2	1	
W-5a	Pioneer Road SR-126 (1900 West) to SR-134 (4700 West)	Re-align ROW: 2007 - 110 ft / 2040 - 110 ft	COL / 2.5 miles / Local Bike Class: Priority 2	1	
W-6	1200 South SR-67 (North Legacy Corridor) to 4700 West	Widening: 2 to 4 lanes ROW: 2007 - 55 ft / 2040 - 110 ft	COL / 2.1 miles / UDOT Bike Class: Priority 2	3	
W-7	1200 South 4700 West to I-15	Widening: 2 to 4 lanes ROW: 2007 - 92 ft / 2040 - 110 ft	PA / 4.8 miles / UDOT Bike Class: Priority 2	2	
W-8	20th Street	Operational	MA / 1.6 miles / Local	1	
	Wall Avenue to Harrison Boulevard 21st Street	Operational	Bike Class: None COL / 0.6 miles / Local		
W-9	Wall Avenue to Adams Avenue 24th Street	Widening: 2 to 4 lanes	Bike Class: None MA / 1.6 miles / UDOT	1	
W-10	I-15 to Lincoln Avenue	ROW: 2007 - 86 ft / 2040 - 110 ft	Bike Class: Priority 3	2	
W-11	2550 South I-15 to 3500 West	Widening: 2 to 4 lanes ROW: 2007 - 60 ft / 2040 - 86 ft	COL / 3 miles / Local Bike Class: Priority 3	3	

ID#	PROJECT	DESCRIPTION		PHASE
W-12	Country Hills Drive Adams Avenue to Gramercy Avenue	Widening: 2 to 4 lanes ROW: 2007 - 66 ft / 2040 - 99 ft	MA / 1 miles / Local Bike Class: Priority 2	1
W-13	4000 South (SR-37) SR-67 (North Legacy Corridor) to 1900 West (SR-126)	Widening: 2 to 4 lanes ROW: 2007 - 86 ft / 2040 - 110 ft	MA / 3.9 miles / UDOT Bike Class: Priority 3	1
W-14	Midland Drive (SR-108) 3500 West to 1900 West (SR-126)	Widening: 2 to 4 lanes ROW: 2007 - 66 ft / 2040 - 110 ft	MA / 2.9 miles / UDOT Bike Class: Priority 3	1
W-16	Riverdale Road (SR-26) 1900 West (SR-126) to I-84	Widening: 4 to 6 lanes ROW: 2007 - 99 ft / 2040 - 120 ft	PA / 1 miles / UDOT Bike Class: 3	1
W-17	5600 South / 5500 South 5900 West (Hooper) to 3500 West	Widening: 2 to 4 lanes ROW: 2007 - 68 ft / 2040 - 86 ft	MA / 3.1 miles / UDOT Bike Class: Priority 3	2
W-18	5600 South 3500 West to 1900 West (SR-126)	Widening: 2 to 4 lanes ROW: 2007 - 66 ft / 2040 - 99 ft	MA / 2 miles / UDOT Bike Class: Priority 2 and 3	2
Webe	r County, North-South Facilities			
W-19	SR-67 (North Legacy Corridor) I-15 (North) to 4000 South	Corridor Preservation ROW: 2007 - 0 ft / 2040 - 220 ft	FWY / 15.6 miles / UDOT Bike Class: Priority 1	1
W-20	SR-67 (North Legacy Corridor) 4000 South to Davis County Line	Corridor Preservation ROW: 2007 - 0 ft / 2040 - 220 ft	FWY / 3.3 miles / UDOT Bike Class: Priority 1	1
W-21	SR-67 (North Legacy Corridor) 4000 South to 5500 South	New Construction: 0 to 4 lanes ROW: 2007 - 0 ft / 2040 - 220 ft	FWY / 2.5 miles / UDOT Bike Class: Priority 1	3
W-22	SR-67 (North Legacy Corridor) 5500 South to Davis County Line	New Construction: 0 to 4 lanes ROW: 2007 - 0 ft / 2040 - 220 ft	FWY / 0.8 miles / UDOT Bike Class: Priority 1	2
W-23	4700 West 1200 South to 4000 South	Widening: 2 to 4 lanes ROW: 2007 - 82 ft / 2040 - 110 ft	MA / 3.8 miles / Local Bike Class: None	3
W-24	4700 West 4600 South to 4800 South	New Construction: 0 to 2 lanes ROW: 2007 - 0 ft / 2040 - 66 ft	COL / 0.3 miles / Local Bike Class: None	1
W-25	3500 West 1200 South to Midland Drive	Operational	COL / 4.6 miles / Local Bike Class: Priority 3	2
W-26	3500 West (SR-108) Midland Drive to Davis County Line	Widening: 2 to 4 lanes ROW: 2007 - 66 ft / 2040 - 110 ft	MA / 1.6 miles / UDOT Bike Class: Priority 3	1
W-27	1900 West / 2000 West (SR-126) 2700 North to 1200 South	Widening: 2 to 4 lanes ROW: 2007 - 66 ft / 2040 - 120 ft	MA / 4.3 miles / UDOT Bike Class: Priority 3	3
W-28	1900 West (SR-126) Riverdale Road to 5600 South	Widening: 4 to 6 lanes ROW: 2007 - 100 ft / 2040 - 113 ft	MA / 0.4 miles / UDOT Bike Class: Priority 3	1
W-29	I-15 Box Elder County Line to 2700 North	Widening: 4 to 6 lanes ROW: 2007 - 328 ft / 2040 - 328 ft	FWY / 2.2 miles / UDOT Bike Class: None	1
W-30	I-84 to Davis County Line	Widening: 6 to 6+HOV lanes ROW: 2007 - 328 ft / 2040 - 328 ft	FWY / 2.8 miles / UDOT Bike Class: None	1
W-31	600 West Elberta Drive to 2600 North	Operational	COL / 0.9 miles / Local Bike Class: None	2
W-32	Adams Avenue US-89 / Washington Boulevard to Washington Terrace City Limits	Widening: 2 to 4 lanes ROW: 2007 - 86 ft / 2040 - 99 ft	MA / 0.6 miles / Local Bike Class: 2	1
W-33	450 East / 400 East 3300 North to 2600 North	Widening: 2 to 4 lanes ROW: 2007 - 68 ft / 2040 - 89 ft	COL / 0.8 miles / Local Bike Class: 3	1
W-34	Monroe Boulevard 3100 North to 1300 North	New Construction: 0 to 2/4 lanes ROW: 2007 - 0 ft / 2040 - 86 ft	MA / 2.3 miles / Local Bike Class: 3 and None	3
W-35	Harrison Boulevard 2600 North to 12th Street	Operational	PA / 3.8 miles / Local Bike Class: Priority 3	2
W-36	Harrison Boulevard 12th Street to Country Hills Drive	Operational	PA / 4.7 miles / UDOT Bike Class: Priority 2 & None	1
W-37	Harrison Boulevard Country Hills Drive to US-89	Widening: 4 to 6 lanes ROW: 2007 - 99 ft / 2040 - 123 ft	PA / 4.8 miles / UDOT Bike Class: Priority 2	3
W-38	US-89 Harrison Boulevard to I-84	Widening: 4 to 6 lanes ROW: 2007 - 120 ft / 2040 - 120 ft	FWY / 2 miles / UDOT Bike Class: Priority 2	2
W-39	Skyline Drive 1. Fern Drive / 2. Ogden City Limits to 1. 4600 South / 2. Eastwood Boulevard	New Construction: 0 to 2 lanes ROW: 2007 - 0 ft / 2040 - 80 ft	COL / 0.6 miles / Local Bike Class: Priority 3	1
Webe	r County, Spot Facilities	· ·		·
W-41	I-15 Interchange @ 24th Street	Upgrade	FWY / UDOT Bike Class: Priority 3	2
W-42	Provide Constant (SR-26) @ Riverdale Road (SR-26)	Upgrade	FWY / UDOT Bike Class: 3	1
W-43	Priversale from (01720) I-15 Interchange @ 5600 South	Upgrade	FWY / UDOT Bike Class: 2	3
W-44	US-89 Interchange @I-84	Upgrade	FWY / UDOT Bike Class: Priority 2	3

2040 RTP TRANSIT PROJECT LIST

PROJECT		LOCATION	
Needed Mode	Funded Mode	From	То
Phase 1			
North Ogden - Salt L	ake (First of Three Ph.	ases)	
		- Newgate Mall - Riverdale - Clearfield	- Hill Air Force Base - Lavton
FrontRunner Station - Farn	nington FrontRunner Station -	- Centerville - Bountiful - Woods Cross	– North Salt Lake - Salt Lake
Central - Downtown Salt La			
Bus Rapid Transit	Corridor Preservation	4400 S. (Roy)	Davis County Line
Bus Rapid Transit	Corridor Preservation	Davis County Line	651 N./SR-126
Bus Rapid Transit	Bus Rapid Transit	HAFB West Gate	200 N./SR-126
Bus Rapid Transit	Enhanced Bus (BRTI)	200 N./SR-126	Clearfield FrontRunner
Rail/Bus Rapid Transit	Enhanced Bus (BRTI)	Main St/Parrish Lane	3800 S. Bountiful/US-89
Rail/Bus Rapid Transit	Bus Rapid Transit	3800 S. Bountiful/US-89	US-89/Eagleridge Dr
Ogden - Weber State	e University (First of T	wo Phases)	
Oaden Intermodal Center -	Oaden - South Oaden - Web	per State University - McKay Dee Hosp	vital
Streetcar	Enhanced Bus (BRTI)	Ogden Intermodal Center	Washington/27th St
Streetcar	Bus Rapid Transit	Washington/27th St	Washington/36th St
Streetcar	Enhanced Bus (BRTI)	Washington/36th St	Harrison Boulevard/Edvalson
Streetcar	Bus Rapid Transit	Harrison Boulevard/Edvalson Ave	McKay-Dee Hospital
West Davis - West W	/eber		
		I - Riverdale - Roy FrontRunner Statior	- West Haven - Clinton - West
Point - Syracuse - Clearfiel	d - Hill Airforce Base - Laytor	FrontRunner Station	
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	3500 W./Midland Dr	Davis County Line
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	Weber County Line	2000 W./Antelope Dr
Ogden Valley Park-A	nd-Ride		
• •			
Near Pineview Dam Park-and -Ride	Park-and-ride	Near Pineview Dam	1
		Near Fineview Dam	
Faicon Hill - Hill AFE	B West Transit Center		
Falcon Hill - Hill AFB West	Gate		
Transit Hub	Transit Hub	New Hill AFB West Gate	
Salt Lake City - Foot	hill Drive - Wasatch D	rive (First of Three Phases)	
Salt Lake Central - Salt Lak	ke City - University of Utah - N	Medical Center - Research Park - Parle	ey's Canyon - Interstate 215 -
Cottonwood Corporate Cer	nter - Big Cottonwood Canyor	n - Little Cottonwood Canyon	
Bus Rapid Transit	Enhanced Bus (BRTI)	Salt Lake Central	Medical Dr./ Research Rd
Bus Rapid Transit	Bus Rapid Transit	Medical Dr./ Research Rd	New Rd at Wakara Way
Bus Rapid Transit	Enhanced Bus (BRTI)	New Rd at Wakara Way	Arapeen Dr/Chipeta Way
Park City			
Salt Lake Central - 200 So	uth - I Iniversity of I Itah - Med	lical Center - Foothill - Interstate 80 - S	ummit County Line
Enhanced Bus (BRTI)	Operations only	Salt Lake Central	Summit County Line
· · ·	· · ·	Gait Lake Gentral	
State (First of Three		Murray Frant Dunney Ctation Midua	la Canaly/Cayth Jandan
		- Murray FrontRunner Station - Midval	ie - Sandy/South Jordan
FrontRunner Station - Drap Bus Rapid Transit	Enhanced Bus (BRTI)	200 S./State St	State St/Winchester St
Bus Rapid Transit	Enhanced Bus (BRTI)	State St/Winchester St	9000 S.
Bus Rapid Transit	Enhanced Bus (BRTI)	9000 S.	Draper FrontRunner
Redwood (First of TI		Airport Foot Live Most Valley Test	proville West larden Couth
Jowntown Salt Lake - Salt Jordan - Riverton - Draper		Airport East Hub - West Valley - Taylo	orsville - west Jordan - South
Bus Rapid Transit	Enhanced Bus (BRTI)	N. Temple/Redwood Rd	SR-201
Bus napiu mansii	Enhanced Bus (BRTI)	SR-201	4700 S.
Bus Banid Transit			-, 00 O.
			9000 S
Bus Rapid Transit Bus Rapid Transit Bus Rapid Transit	Enhanced Bus (BRTI) Corridor Preservation	4700 S. 9000 S.	9000 S. 12600 S.

PROJECT		LOCATION		
Needed Mode	Funded Mode	From	То	
Draper Line North Seg	gment			
10000 South TRAX Station -				
Light Rail	Light Rail	10000 S. TRAX Station	12600 S. TRAX	
5600 West (First of Tw			12000 01 11 8 81	
		Airport East Hub - International Center -	West Valley - Kearns - West	
Jordan - Daybreak Station				
Rail/Bus Rapid Transit	Corridor Preservation	Salt Lake International Airport	5600 W./2700 S.	
Rail/Bus Rapid Transit	Bus Rapid Transit	5600 W./2700 S.	5600 W./6200 S.	
Rail/Bus Rapid Transit	Corridor Preservation	5600 W./6200 S.	11800 S.	
200 South Streetcar				
Salt Lake Central - Downtow	n Salt Lake – Harmons Groo	cery		
Streetcar	Streetcar	600 W./200 S.	200 S./200 East	
Sugarhouse				
Sugarhouse - South Salt Lak	e - North/South TRAX Line			
Streetcar	Streetcar	2100 S. TRAX	Highland Dr/Sugarmont	
3900/3500 South (Firs				
•				
East Millcreek - Holladay - M			2500 W /6000 W	
Bus Rapid Transit	Bus Rapid Transit	3500 S./3600 W.	3500 W./6000 W.	
Taylorsville Murray, C	central Segment (Firs	t of Two Phases)		
Downtown Murray - Murray F		sen Research Park - SLCC Redwood Ca	ampus	
Bus Rapid Transit	Enhanced Bus (BRTI)	Box Elder St/4800 S.	SLCC Redwood Campus	
Taylorsville Murray, V	Vest Valley Extension	(First of Two Phases)		
Salt I ake Community Colleg	e Redwood Campus - Ameri	ican Express - West Valley Intermodal C	Center	
Bus Rapid Transit	Enhanced Bus (BRTI)	4500 S./Redwood Rd	W. Valley Intermodal Ctr	
West Bench, Daybrea	k Seament			
Daybreak – 8400 West Corridor Preservation	Corridor Preservation	Daybreak S. Station	11400 S./8400 W.	
Phase 2	Condor reservation	Baybreak 6. Station	11400 8./0400 W.	
	- -			
Ogden - Pleasant View	w Frequency Improve	ments		
Downtown Ogden - Pleasant				
Commuter Rail	Commuter Rail	Ogden Intermodal Center	Pleasant View FrontRunner	
Ogden - Weber State	University (Second o	f Two Phases)		
Oaden Intermodal Center - C	Daden - South Oaden - Webe	er State University - McKay Dee Hospita	al	
Streetcar	Streetcar	Ogden Intermodal Center	Washington/27th St	
Streetcar	Streetcar	Washington/27th St	Washington/36th St	
Streetcar	Streetcar	Washington/36th St	Harrison/Edvalson Av	
Streetcar	Streetcar	Harrison Boulevard/Edvalson Av	McKay-Dee Hospital	
North Ogden - Salt La	ke (Second of Three	Phases)		
U		Newgate Mall - Riverdale - Roy FrontRi	unner Station - West Haven -	
		e Base - Layton FrontRunner Station - F		
Centerville - Bountiful - Wood	ds Cross - North Salt Lake -	Salt Lake Central - Downtown Salt Lake		
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	2700 N./Washington Boulevard	12th St/Washington Boulevard	
Bus Rapid Transit	Bus Rapid Transit	12th St/Washington Boulevard	Ogden Intermodal Ctr	
Bus Rapid Transit	Enhanced Bus (BRTI)	Washington Boulevard/36th St	4400 S./UP-HAFB ROW	
Bus Rapid Transit	Bus Rapid Transit	4400 S./UP-HAFB ROW	Davis County Line	
Bus Rapid Transit Bus Rapid Transit	Bus Rapid Transit	Davis County Line 200 N./State St	HAFB West Gate Clearfield FrontRunner	
Bus Rapid Transit	Bus Rapid Transit Enhanced Bus (BRTI)	Clearfield FrontRunner	Farmington FrontRunner	
	× /		Parrish Lane/Main St	
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	Farmington FrontRunner		
Rail/Bus Rapid Transit Rail/Bus Rapid Transit	Bus Rapid Transit Bus Rapid Transit	1500 S./Main St US-89/Eagleridge Dr	3800 S. Bountiful/US-89 Salt Lake County Line	
Rail/Bus Rapid Transit	Bus Rapid Transit	Salt Lake County Line	Salt Lake Intermodal Center	
Hill AFB South Transi	•			
THILAFD SOUTH TRANSI	Center			

PROJECT		LOCA	
Needed Mode	Funded Mode	From	
Hill AFB South Gate	Transit Hub		
Antelope Drive Parl			
•	-And-filde		
Antelope Dr/US-89 Park-and -Ride	Park-and-Ride		
North Redwood (Fi			
•			
		ner Station - N. Salt Lake - North Temp	
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	500 S./Orchard Dr	500 S./Redwood Rd
Enhanced Bus (BRTI) Enhanced Bus (BRTI)	Enhanced Bus (BRTI) Enhanced Bus (BRTI)	500 S./Redwood Rd 2600 S. Redwood Rd	2600 S. Redwood Rd Salt Lake County Line
		rive (Second of Three Phases	
	enter - Big Cottonwood Canyor	Medical Center - Research Park - Parley	's Canyon - Interstate 215 -
Bus Rapid Transit	Bus Rapid Transit	Salt Lake Central	200 S./200 East
Bus Rapid Transit	Bus Rapid Transit	200 East/200 S.	Medical Dr./Research Rd
Bus Rapid Transit	Bus Rapid Transit	New Rd/Wakara Way	Arapeen Dr/Chipeta Way
Bus Rapid Transit	Enhanced Bus (BRTI)	Arapeen Dr/Chipeta Way	I-80/I-215/Foothill Dr
State (Second of Th	ree Phases)		
		- Murray FrontRunner Station - Midvale	- Sandy/South Jordan
FrontRunner Station - Dra		-	
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	200 S./300 W.	600 S./State St
Bus Rapid Transit	Bus Rapid Transit	600 S./State St	Interstate 80
Bus Rapid Transit	Bus Rapid Transit	Interstate 80	Winchester St
Redwood (Second			
		Airport East Hub - West Valley - Taylor	sville - West Jordan - South
Jordan - Riverton - Drape			5 400 0
Bus Rapid Transit	Bus Rapid Transit	SR-201	5400 S.
Bus Rapid Transit	Bus Rapid Transit	5400 S. 9000 S.	9000 S. 12600 S.
Bus Rapid Transit Bus Rapid Transit	Bus Rapid Transit Enhanced Bus (BRTI)	12600 S./Redwood Rd	12300 S./Pony Express Rd
		12000 3.///edwood //d	
University to Salt L			
	ty of Utah - Salt Lake Downtow		
Light Rail	Light Rail	400 S./Main St	Salt Lake Central
3900/3500 South (T	hird of Four Phases)		
East Millcreek - Holladav	- Millcreek - South Salt Lake -	West Vallev West Bench	
Bus Rapid Transit	Bus Rapid Transit	3500 W./6000 W.	3500 S./9200 W.
Bus Rapid Transit	Enhanced Bus (BRTI)	Millcreek TRAX	3900 S./Highland Dr
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	3900 S./Highland Dr	3900 S./Wasatch Dr
Taylorsville Murray	, Holladay Extension		
Downtown Murray - Holla	day - Wasatch Drive		
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	Box Elder St/4800 S.	3900 S./Wasatch Dr
	Central Segment (Sec		
• •	•		-
	· .	sen Research Park - SLCC Redwood (· ·
Bus Rapid Transit	Bus Rapid Transit	Box Elder St/4800 S.	Murray-Taylorsville Rd/500 W
Bus Rapid Transit	Bus Rapid Transit	Murray-Taylorsville Rd/500 W.	Murray-Taylorsville/Redwood
l aylorsville Murray	west Valley Extension	(Second of Two Phases)	
Salt Lake Community Col	lege Redwood Campus - Amel	rican Express - West Valley Intermodal	Center
Bus Rapid Transit	Bus Rapid Transit	4500 S./Redwood Rd	4400 S./Constitution
5400 South (First o	f Two Phases)		
•	•	ANA Amphitheater - West Bench	
Bus Rapid Transit	Enhanced Bus (BRTI)	Murray Boulevard/Vine St	5400 S./6400 W.
Bus Rapid Transit	Bus Rapid Transit	5400 S./6400 W.	5400 S./7200 W.
	outh (First of Two Phas		
	•	•	
Murray FrontRunner Stati	on - Bingham Junction - Jordai	n Landing - West Bench	

PROJECT LOCATION		ION	
Needed Mode	Funded Mode	From	То
Enhanced Bus (BRTI)	Corridor Preservation	State St/7200 S.	Redwood Rd/7000 S.
Enhanced Bus (BRTI)	Corridor Preservation	Redwood Rd/7000 S.	Bangerter Highway/7000 S.
12300/12600 South (F	First of Three Phases)		
		erton - Herriman - Daybreak TRAX Stat	ion
Bus Rapid Transit	Enhanced Bus (BRTI)	Daybreak S. TRAX	Redwood Rd/12600 S.
Bus Rapid Transit	Enhanced Bus (BRTI)	700 East	Draper TRAX
Bus Rapid Transit	Enhanced Bus (BRTI)	700 East	Pony Express Rd
Bus Rapid Transit	Corridor Preservation	700 East	Pony Express Rd
Salt Lake Downtown	Bus Transit Center		
200 South ./ State Street			
Transit Hub	Transit Hub	200 S./State St	
East Airport Transit I	Hub		
1950 West Redwood Road	Airport TRAX Line Station		
Transit Hub	Transit Hub	1950 W. Redwood Rd	
Interstate-80 Transit	Only Ramps		
About 900 West / Interstate	80		
Transit Only Ramps	Transit Only Ramps	Near 900 W. and 200 S.	
Phase 3			
Pleasant View – Brig	ham City		
Downtown Oaden - Box Eld			
Mode Undetermined	Corridor Preservation	Pleasant View FrontRunner	Box Elder County Line
	1	1	Box Elder County Line
	vis (Second of Two P		
	Ogden CBD - Newgate Mall - I - Hill Air Force Base - Layto	Riverdale - Roy FrontRunner Station - n FrontRunner Station	West Haven - Clinton - West
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	4400 S./UP-HAFB Rail Line	3500 W./Midland Dr
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	2000 W./Antelope Dr	Hill Field Rd/Main St.
Ogden Circulator	,		·
Ogden Intermodal Center -	Downtown Ordon		
Mode Undetermined	Streetcar	25th/Washington	20th/Lincoln
Mode Undetermined	Streetcar	20th/Lincoln	20th/Washington
Mode Undetermined	Streetcar	20th/Washington	23rd/Washington
	ake (Third of Three Pl		Lora, Maonington
North Ogden - Ogden Interr Clinton - West Point - Syrac Centerville - Bountiful - Woo	nodal Center - Ogden CBD - use - Clearfield - Hill Air Forc ods Cross - North Salt Lake -	Newgate Mall - Riverdale - Roy FrontR e Base - Layton FrontRunner Station - I Salt Lake Central - Downtown Salt Lake	Farmington FrontRunner Station -
Bus Rapid Transit	Bus Rapid Transit	Washington Boulevard/36th St	4400 S./UP-HAFB ROW
Bus Rapid Transit	Bus Rapid Transit	Clearfield FrontRunner	Farmington FrontRunner
North Redwood (Sec	ond of Two Phases)		
East Bountiful - West Bount	iful - Woods Cross FrontRuni	ner Station - North Salt Lake - North Ter	mple - Downtown Salt Lake
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	Davis County Line	N. Temple/Redwood Rd
Salt Lake City - Footl	nill Drive - Wasatch Dr	ive	
	e City - University of Utah - N ter - Big Cottonwood Canyon	ledical Center - Research Park - Parley	's Canyon - Interstate 215 -
Bus Rapid Transit	Bus Rapid Transit	Arapeen Dr/Chipeta Way	I-80/I-215/Foothill Dr.
Bus Rapid Transit	Bus Rapid Transit	I-215 Ramp/3300 S.	I-215 Ramp/3900 S.
Mode Undetermined	Bus Rapid Transit	6200 S./Interstate 215	Little Cottonwood Canyon
1300 East (North)			
		reek - Holladay - Murray - Fort Union - (Cottonwood Heights – Midvale -
Bus Rapid Transit	Enhanced Bus (BRTI)	1300 East/200 S.	Ft Union Boulevard/Union Park
1300 East (South)			
		Station - Midvale - Fort Union - Cotton	
Bus Rapid Transit	Bus Rapid Transit	Ft Union Boulevard/Union Park Av	1000 East Pioneer Rd
700 East			

PROJECT		LOCA	TION
Needed Mode	Funded Mode	From	То
Salt Lake Central – South S	Salt lake - Millcreek - Murray	- Holladay - Cottonwood Heights - Fort	Union
Bus Rapid Transit	Bus Rapid Transit	200 S./200 East	Highland/Ft Union Boulevard
State (Third of Three	Phases)		
		K - Murray FrontRunner Station - Midvale	e - Sandy/South Jordan
FrontRunner Station - Drap	er FrontRunner Station		-
Bus Rapid Transit	Bus Rapid Transit	9000 S.	Draper FrontRunner
Draper South Segme	ent		
		FrontRunner Station - Midvale - Sandy	- Draper - Utah County Line
Light Rail	Light Rail	Draper TRAX	14600 S./Interstate 15
_ight Rail	Light Rail	14600 S./Interstate 15	Utah County Line
Redwood (Third of T			
		- Airport East Hub - West Valley - Taylo	orsville - West Jordan - South
Jordan - Riverton - Draper			
Bus Rapid Transit	Bus Rapid Transit	200 S./600 W.	Transit Ramp to I-80
Bus Rapid Transit	Bus Rapid Transit	I-80/Redwood Rd	East Airport Hub
Bus Rapid Transit	Bus Rapid Transit	I-80/Redwood Rd	SR-201/Redwood Rd
Bus Rapid Transit	Bus Rapid Transit	12600 S./Redwood Rd	12300S/Pony Exp Rd
5600 West (Second of	of Two Phases)		
		- Airport East Hub - International Cente	r - West Valley - Kearns - West
Jordan - Daybreak Station			
Rail/Bus Rapid Transit	Bus Rapid Transit	East Airport Hub	N. Temple/I-80
Rail/Bus Rapid Transit	Bus Rapid Transit	I-80/Wright Brothers Dr	2700 S./5600 W.
Rail/Bus Rapid Transit	Bus Rapid Transit	6200 S./5600 W.	11800 S.
Sugarhouse, Westm	inster Segment		
Westminster College - Sug	arhouse – South Salt Lake -	- North/South TRAX Line	
Streetcar	Streetcar	Highland Dr/Sugarmont Dr	1700 S./1100 East
Parkway			•
•			
		- Airport East Hub - Decker Lake - Lake	
Bus Rapid Transit	Bus Rapid Transit	Redwood Rd/Parkway Boulevard	5600 W./Parkway Boulevard
3900/3500 South (Fo	rth of Four Phases)		
East Millcreek - Holladay -	Millcreek - South Salt Lake	- West Valley West Bench	
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	9200 W./3500 S.	Little Valley
Bus Rapid Transit	Bus Rapid Transit	3500 S./Constitution Boulevard	3500 S./Redwood Rd
Bus Rapid Transit	Bus Rapid Transit	3500 S./Redwood Rd	Millcreek TRAX
Bus Rapid Transit	Bus Rapid Transit	Millcreek TRAX	3900 S./Highland Dr
5400 South (Second	of Two Phases)		
Murray FrontRunner Statio	n - Tavlorsville - Kearns - H	SANA Amphitheater - West Bench	
Bus Rapid Transit	Bus Rapid Transit	Murray Boulevard/Vine St	7200 W.
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	7200 W.	8400 W.
Fort Union		·	·
	Dettermine of Operation 2 and	en Festilisien Misterle Fredrik Di	
		er - Fort Union - Midvale - Fashion Place	
Mode Undetermined	Bus Rapid Transit	State St/Fort Union Boulevard	Little Cottonwood Canyon
7000 South/7800 Sou	uth (Second of Two F	nases)	
Murray FrontRunner Statio	n - Bingham Junction - Jorda	an Landing - West Bench	
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	State St/7200 S.	Redwood Rd/7000 S.
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	Redwood Rd/7000 S.	Bangerter Highway/7000 S.
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	Bangerter Highway/7000 S.	8400 W./7800 S.
9000 South			
Sandy/South Jordan Front	Runner Station - Mid-Jordan	TRAX Station	
Bus Rapid Transit	Bus Rapid Transit	9000 S./State St	9000 S./Redwood Rd
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	9000 S./Redwood Rd	Mid-Jordan TRAX
9400 South			
Mouth of Little Cottonwood	Canvon - Sandy - Sandy/S	outh Jordan FrontRunner Station	
Mode Undetermined	Bus Rapid Transit	9400 S./State St	Little Cottonwood Canyon

PROJECT		LOCATION								
Needed Mode	Funded Mode	From	То							
10200/10400 South										
South Jordan FrontRunner	Station - Daybreak TRAX Sta	tion								
Enhanced Bus (BRTI)	Enhanced Bus (BRTI)	Jordan Gateway/S Jordan Parkway	Daybreak North TRAX							
12300/12600 South (1	Third of Three Phases)								
Draper TRAX Station - Draper FrontRunner Station - Riverton - Herriman - Daybreak TRAX Station										
Bus Rapid Transit	Bus Rapid Transit	Daybreak S. TRAX	Redwood Rd/12600 S.							
Bus Rapid Transit	Bus Rapid Transit	700 East	Draper TRAX							
5400 South Redwood Rd Park-And-Ride										
5400 South/Redwood Rd										
Park- and-Ride	Park-and-Ride	5400 S./Redwood Rd								
3100 South/5600 Wes	st Park-And-Ride									
3100 South/5600 West										
Park-and-Ride	Park-and-Ride	3100 S./5600 W.								
6200 South/5600 Wes	st Park-And-Ride									
6200 South/5600 West										
Park-and-Ride	Park-and-Ride	6200 S./5600 W.								
5400 South/5600 Wes	st Park-And-Ride									
5400 South/5600 West										
Park-and-Ride	Park-and-Ride	5400 S./5600 W.								
Fort Union Transit Co	enter									
Union Park Avenue/Fort Un	ion Boulevard									
Transit Hub	Transit Hub	Union Park Ave/Ft Union Boulevard								
Little Cottonwood Ca	nyon Park-And-Ride									
Wasatch Boulevard - Mouth	of Little Cottonwood Canyon	,								
Park-and-Ride	Park-and -Ride	Little Cottonwood Canyon								
Big Cottonwood Can	yon Park-And-Ride									
Wasatch Boulevard - Mouth	of Big Cottonwood Canyon									
Park-and-Ride	Park-and-Ride	Big Cottonwood Canyon								

Appendix-3

Box Elder County Highway and Transit Projects 2040 RTP

Box Elder County

Box Elder County Air Quality Conformity Regionally Significant Project List Draft March 30, 2011

Project Name and Location	Improvement Type	Time					
UDOT Region 1							
	Interchange						
I-15 at MP 362.0 US-91, (1100 South Brigham City) STIP CD	Upgrade	2011-2020					
*SR-30 I-15 to SR-38 (Collinston) MP 90.7 to 95.1	Widening	2010-2020					
*SR-30 MP 95 to 108	Planning Study	2010-2020					
*SR-30 MP 90.7 to MP 107.6, from SR-38 to Cache MPO Boundary							
at 1900 West	Widening	2021-2030					
SR-13 MP 2.9 to 5.7, from SR-38 Junction to I-15	Widening	2020-2030					
SR-240 MP 0.1 to MP 1.2, from I-15 to SR-38	Widening	2020-2030					
US-89 at MP 435 US-90 (Brigham City)	Interchange Upgrade	2020-2030					
I-15 MP 351.5 to MP 362, from Box Elder/Weber CL to Brigham	Widening/Safety						
City south Interchange	/Rest area	2031-2040					
Local Government							
6800 West (Iowa String Road) from SR-38 to I-84	Widening	2031-2040					
10400 North (Rocket Road) from I-84 to 5200 West (SR-13)	Widening	2031-2040					

*These projects are outside the PM2.5 non-attainment area.

Appendix-4

Highway and Transit Projects 2040 RTP

Tooele County

TOOELE VALLEY LONG RANGE PLAN 2007 -2030 PROJECTS

ID	STREET TO - FROM	PROJECT TYPE	LENGTH (MILES)	2030 FUNCTIONAL CLASS	BIKE CLASS	2006 LANE	2030 LANE	2006 ROW (FT.)	2030 RO (FT.)	PHASE 1=2007-2020 2=2021-2030	SPONSOR	PHASE COST
1	Additional I-80 Interchange I-80	New Construction	0.0	Interchange	0	0	0	0	0	1	UDOT	\$47,900,000
2	Additional I-80 Access Road I-80 - SR-36	New Construction	1.0	Principal Arterial	0	0	4	0	200	1	UDOT	\$15,000,000
3	I-80 Additional I-80 Interchange - SR-201	Widening	4.9	Freeway	0	4	6	375	375	2	UDOT	\$516,200,000
4	SR-138 SR-112 - Mid-Valley Highway	Widening	3.1	Minor Arterial	1	2	4	100	100	1	UDOT	\$29,800,000
5	SR-138 Mid-Valley Highway - SR-36	Widening	5.1	Minor Arterial	1,0	2	4	100	100	2	UDOT	\$78,500,000
6	1000 North SR-112 - SR-36	New Construction	2.4	Minor Arterial	2	0	4	0	66	1	Local	\$18,800,000
7	1000 North SR-36 - Droubay Road	Restripping	1.3	Minor Arterial	2	2	4	66	66	2	Local	\$1,400,000
8	2000 North SR-112 - SR-36	New Construction	3.6	Minor Arterial	0	0	2	0	66	1	Local	\$29,500,000
9	3700 North Mid-Valley Highway - Droubay Road	New Construction	6.5	Minor Arterial	0	0	2	0	66	2	Local	\$81,700,000
10	SR-112 Mid-Valley Highway - Tooele Blvd.	Widening	3.3	Principal Arterial	0	2	4	100	100	1	UDOT	\$31,800,000
11	Mid-Valley Highway SR-36 - I-80	Corridor Preservation	11.7	Freeway	0	0	4	0	200	1	UDOT	\$12,300,000
12	Mid-Valley Highway SR-36 - I-80	New Construction	11.7	Principal Arterial	0	0	4	0	200	1	UDOT	\$193,600,000
13	Mid-Valley Highway SR-36 - I-80	New Construction	11.7	Freeway	0	0	4	0	200	2	UDOT	\$442,500,000
14	Tooele Blvd SR-36 - 1000 North/SR-36	New Construction	4.1	Minor Arterial	0	0	4	0	84	1	Local	\$38,300,000
15	SR-36 South Depot Entrance - 500 South	Widening	2.4	Principal Arterial	1	2	4	100	100	1	UDOT	\$19,900,000
16	SR-36 Stockton - South Depot Entrance	Widening	3.3	Minor Arterial	1	2	4	100	100	2	UDOT	\$57,800,000
17	400 West 1000 North - 3700 North	New Construction	2.7	Minor Arterial	0	0	2	0	66	1	Local	\$21,200,000
18	1200 West 1000 North - 3700 North	New Construction	2.7	Minor Arterial	0	0	2	0	66	1	Local	\$21,200,000