

## Chapter 6 – Existing and Proposed Transportation Facilities

### Methodology

As discussed in Chapter 4, the Dixie MPO’s CUBE modeling platform was used to analyze the transformation of traffic demands as conditions change in the future. The CUBE Model applied mathematical forecasting formulas to population growth, job growth, land use changes, socio-economic data, expected trip generations, trip distributions, and mode choice of travelers (transit vs. cars vs. walking/biking).

These forecasts were then imposed on the existing road networks, transit facilities, and pedestrian trails. Then projects were conceptualized to address the forecast changes in traffic congestion by identifying “hotspots” in each phase of the plan.

Phase One looked at the changes expected in years 2019 to 2030. The associated project list was then created to address traffic congestion hotspots anticipated by 2030 together with the forecast changes in population, job creation, etc.

Phase Two looked at travel demand changes from 2031 to 2040 with a similar project list to address those additional traffic demands anticipated by 2040.

Likewise, Phase Three looks to the 2050 horizon.

### Current Network

An inventory of the current MPO road network is best noted through use of the Traffic Congestion 2050 - No-Build map in Appendix B. The roads noted in red and black indicate areas of concern or traffic congestion in 2050 if no additional projects are built.



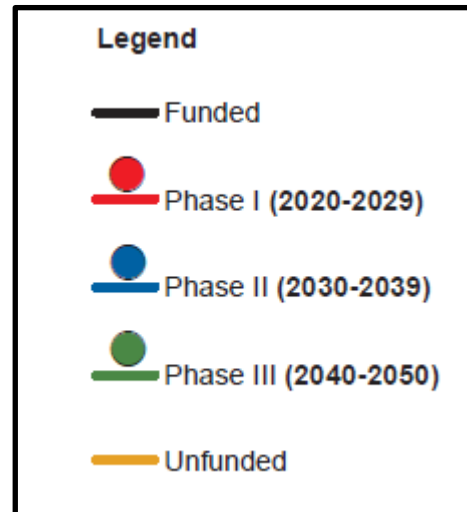
### Future Network

The Traffic Congestion 2050 - Build map, also included in Appendix B illustrates areas of concern, or traffic congestion in the year 2050 assuming that the plan projects are all built and in use at that time. Again, roads noted in red and black indicate areas of concern or traffic congestion in 2050 after all planned projects are built.

## Projects and Phasing

The next several pages list a variety of transportation projects identified using the methodology outlined in chapters 3, 4, and 5 above. Projects range from highway widening to bridge and overpass construction, as well as proposed new corridors. Additionally, some UDOT projects of interest are listed even though they may lie outside the MPO boundaries because those corridors provide vital transportation connections to Urban area residents.

The Projects and Phasing Map is also included in Appendix B. The legend to the right is used for project phase identification on the Projects and Phasing Map and in the list below:



# Phase 1 (2019-2030)

Project #	Route	Category	City	Length	Project Description	Project Concept	Estimated Cost in 2019 dollars
1	3184	Regional	I	3.000	Old Highway 91 (I), 200 E to Shivwits Reservation	Reconstruction	6,000,000
3		Regional	SC	0.7	Red Mountain Drive, Pioneer Parkway to Western Corridor	New Construction	2,212,000
5	I-15	State	UDOT	0.2	I-15 MP 4 Interchange phase II improvements w/sign bridge	Widen/Reconstruct	200,000
6		Regional	SG	3	Plantations Drive, construct from Sunbrook Drive to Dixie Drive	New Construction	5,000,000
7	SR-8	State	UDOT	1.48	Sunset Blvd. widen to 6-lanes from Valley View Dr to 1400 W	Minor Widen/Striping	600,000
8		Regional	SG	2.1	Little Valley Road, Widen from 2450 South to Commerce Drive	Widen/Reconstruct	1,500,000
9		Regional	SG	0.9	Southern Hills Parkway Phase I, 3580 South to Commerce Drive	New Construction	3,600,000
10		Regional	SG	1.6	Quarry Ridge Drive, River Road to Commerce Drive	New Construction	6,400,000
11		Regional	SG	0.25	Airport Road from old airport to Black ridge Drive	Developer New Const.	-
12	SR-18	State	UDOT	2	SR-18, St. George Blvd. to Main Street	Widen/Reconstruct	45,000,000
13		Regional	SG	2.8	Astragalus Dr. from So. Pkwy Exit 1 to So. Pkwy Exit 3	Developer New Const.	-
15		Regional	SG	1.4	100 South, Widen from 700 East to Bluff St	Re-Striping	300,000
17		Regional	SG	1	700 South, Widen from 700 East to Bluff St	Re-Striping	300,000
18		Regional	SG	0.5	400 S, Ped Underpass, DSU 700 East to DSU Health Science Building	New Construction	2,800,000
23		Regional	SG	0.9	Commerce Drive- extend road from 1630 East to Southern Hills Pkwy	Widen/Reconstruct	500,000
25		Regional	SG	0.5	Red Hills Parkway (SG, W), 2000 East to Green Springs	Widen/Reconstruct	4,320,000
30		Regional	W	1	Green Springs and Telegraph Intersection Improvements	Widen/Reconstruct	2,640,000
31		Regional	SG	2.02	3000 East from 900 South to 3580 South - 5 Lane Road	Developer New Const.	-
32		Regional	SG	0.2	Wal-Mart / Home Depot Connection between Washington & St. George	New Construction	1,107,000
34a		Regional	SG / W	1	3000 East (SG) connector to 3650 South (W)	New Construction	4,340,000
34b		Regional	W	1	3650 South from 240 West to Washington Fields Road	Developer New Const.	-
34c		Regional		1	3650 South from Camioreal Rd Southern Corridor	New Construction	4,500,000
35		Regional	W	1.3	Merrill Road	Widen/Reconstruct	2,920,000
36	I-15	State	UDOT	1	I-15 Milepost 11 Interchange and Corridor Lane Widening, MP 10 to MP 13	New Construction	45,000,000
37		Regional	W	0.9	Washington Fields Road, Lost Ridge Dr. to 3650 South (Phase IV A & B)	Widen/Reconstruct	7,152,000
39		Regional	SG/W	2.9	Washington Fields Road (SG/W), Warner Valley Road to Airport Parkway	Developer New Const.	-
42		Regional	H	1.5	Purgatory Road	New Construction	13,500,000
43	SR-9	State	UDOT	2	SR-9 Interchanges: Telegraph, Purgatory, Sand Hollow Road, 3400 W, 2800 W.	Interchanges	60,000,000
45	SR-9	State	UDOT	2.6	So. Parkway Segment VI, I-15 to 2700 W - Widen to Freeway Standards	New Construction	60,000,000

46		Regional	H	3.6	Turf Sod Road from 4300 West to Southern Parkway	New Construction	6,500,000
48		Regional	H	0.7	2800 West, SR-9 to 600 North	New Construction	1,300,000
49	SR-7	State	UDOT	7.8	So. Parkway Segment IVb & V, Sand Hollow to SR-9 (1st Barrel)	New Construction	75,000,000
50		Regional	H	0.6	2300 South from 3360 West to 700 West (Phase I-III)	New Construction	19,000,000
51		Regional	H	2.5	3000 South from 1150 West to 3000 West	New Construction	4,000,000
52		Regional	H	0.6	1400 West Street from SR-9 to 600 North	New Construction	6,500,000
53		Regional	H	0.5	1150 West Street, from 600 North to SR-9	Widen/Reconstruct	1,000,000
54		Regional	H	2.2	700 West from 600 North to Airport Road	Widen/Reconstruct	6,000,000
55		Regional	SG		Traffic Control Center ITS	ITS	600,000
58		Regional	H	2.46	3400 West from Dixie Springs Drive to SR-9	New Construction	2,500,000
59	SR-9	State	UDOT		SR-9; I-15 to Southern Parkway Environmental Study	Environmental/ROW	2,000,000
60		Regional	SG	0.5	100 South Underpass at I-15 in St. George	Widen/Reconstruct	2,500,000
61.a		Regional	I	0.5	Western Corridor North (I), Old Highway 91 to 400 East	New Construction	1,400,000
61.b		Regional	SC/I	0.9	Western Corridor North, 400 East City Boundary to City Boundary	New Construction	3,100,000
61.c		Regional	I	1.2	Western Corridor North (I), City Boundary to Snow Canyon Parkway	New Construction	3,300,000
62		Regional	SG/S C	1.52	Plantations Drive- Sunbrook to Western Corridor	New Construction	13,000,000
64		Regional	SG	0.54	Temple Trail Drive Phase 2 - Indian Hills Drive to Dixie Drive	New Construction	3,240,000
65		Regional	SG	1.05	Temple Trail Drive, Phase I from Old Airport Road to Indian Hills Drive	Developer New Const.	-
66		Regional	SG	2.7	Hidden Valley Drive Frontage Road - east side of I-15 from MP 2 to MP 4	New Construction	9,000,000
67		Regional	SG	1.7	White Dome Frontage Road - River Road to Southern Hills Parkway	Developer New Const.	-
68		State	UDOT	4.6	Northern Corridor Phase 1 (First 2 Lanes)	New Construction	85,000,000
69		Regional	SG	4.5	River Road, Widening/intersection improvements, Blvd. to Brigham Road	Widening	12,000,000
72	I-15	State	UDOT	1.7	SR-9 Phase I Interchange Modifications w/ SB I-15 Aux Lane to MP 13	Reconstruction	28,000,000
73		Regional	W	3	Washington Parkway (Green Springs to I-15 Exit 13)	Widening/New Const.	4,600,000
74		State	UDOT	5	Northern Corridor (BLM ROW Application Support)	Environmental/ROW	4,800,000
75	SR-7	State	UDOT	1	So. Parkway Segment II, Desert Canyon Dr to Airport Access (2nd barrel)	New Construction	15,480,000
83	I-15	State	UDOT	12	Lane Widening from MP 6-8	Widen	40,000,000
90		Regional	SG	0.5	1450 South Extension to Dixie Drive	New Construction	24,000,000
111		Regional	W	0.9	Washington Dam Road, 1900 East to East City Limits	Developer New Const.	-
117		Regional	SG	1.5	Airport Parkway from North Airport Access to West Airport Rd	New Construction	6,480,000
127		TBD	TBD	3.3	Construct Toquerville Bypass or Widen/Reconstruct SR-17 from MP1.1 to I-15	New Construction	30,360,000
130		Regional	W	0.9	4750 South from Airport Parkway to Washington Fields Road	New Construction	3,092,000
154	I-15	State	UDOT	0.5	I-15 SPUI or Flyover at MP 4	Widen/Reconstruct	40,000,000
155		Regional	W	1.3	Country Way, Washington Dam Road to Landfill Road	New Construction	5,200,000
<b>Total Funding Needs:</b>							<b>738,843,000</b>

<b>Phase One (2019 to 2030)</b>						<b>Total State Need</b>	<b>531,440,000</b>
						<b>Total Regional Need</b>	<b>207,403,000</b>
						<b>State Funds Available:</b>	<b>496,480,861</b>
						<b>Reg. Funds Available:</b>	<b>189,490,474</b>
						<b>Remainder / (Overage)</b>	<b>(52,871,665)</b>

## Phase 2 (2030-2039)

Project #	Route	Category	City	Length	Project Description	Project Concept	Estimated Cost in 2019 dollars
2		Regional	I	1.5	Red Mountain Blvd. (200 East) (I), Old Highway 91 to Center Street	Reconstruction	2,000,000
27		Regional	SG	2.7	Southern Hills Pkwy - new road from Commerce Drive to Southern Parkway	New Construction	10,000,000
63		TBD	UDOT	1.5	Western Corridor - Old Hwy 91 to Plantations Drive	New Construction	46,000,000
78		Regional	SC	1.5	Pioneer Parkway, Lava Flow Drive to Red Mountain Drive	Widen/Reconstruct	12,960,000
79	SR-18	State	UDOT	6.0	SR-18, Red Hills Parkway to Winchester Hills	Widen/Reconstruct	70,560,000
80		Regional	SG	1.9	Dixie Dr - Widen to 7-lane section from Plantations Dr to Blackridge	New Construction	9,600,000
81		Regional	SG	0.5	New Interchange at West end of Northern Corridor	Widen/Reconstruct	26,000,000
82		State	UDOT	7.2	Northern Corridor - Phase 2 (Second 2 Lanes)	New Construction	46,800,000
84	I-15	State	UDOT	3.0	I-15 Widening (4th Lane) in Southbound direction from MP 16-13	Widen/Reconstruct	7,200,000
88	I-15	State	UDOT	0.3	Leeds North Interchange @ MP 23.7	Interchange Upgrade	24,000,000
92		Regional	H	2.7	3300 South from Rlington Parkway to 3000 West	New Construction	8,040,000
93		Regional	H	2.6	1500 South from 700 West to 3000 West	New Construction	7,920,000
94		Regional	SG	1.9	River Road, Widen to 5-lane section from Enterprise Dr to So. Pkwy	Widening	8,208,000
95	SR-9	State	UDOT	3.2	SR-9, increase capacity from SR-59 to Southern Parkway	Widen/Reconstruct	24,000,000
96		Regional	EWC	2.5	Toquerville to Leeds Connector Road	New Construction	14,400,000
97		Regional	SG	3.0	Cottonwood Springs Dr from Red Hills Pkwy to Northern Corridor	New Construction	8,640,000
98		Regional	H	2.0	1500 West from 1300 South to 3000 South	New Construction	7,200,000
100		Regional	SG	1.0	Quarry Ridge Drive - extend road from Commerce Drive to West Airport Rd	New Construction	4,320,000
101		Regional	H	7.0	1150 West from 2300 South to 4700 South (Phase III)	New Construction	13,200,000
102		Regional	SG	2.6	South Frontage Rd from White Dome Frontage Rd to Rim Runner Dr	Developer New Const.	-
103		Regional	SG	4.3	Airport Loop Road from Quarry Ridge Drive to Airport Parkway	New Construction	18,576,000
105		Regional	W	0.6	Main Street from I-15 Frontage Road to Washington Parkway	New Construction	2,103,000
106		Regional	W	0.7	Extend Main Street to 100 East, south of 400 South	New Construction	2,310,000
107		Regional	W	0.8	Washington Fields Rd. - 3650 So. to Stucki Farms widen to 5-lanes (Phase V.b)	Developer New Const.	-

108		Regional	W	1.1	Wash. Fields Road - Stucki Farms to Warner Valley Rd. 5-lane section (Phase VI.b)	Developer New Const.	-
109	SR-7	State	UDOT	4.0	So. Parkway Segment IIIa (SG & W), Airport to Warner Valley Road (2nd Barrel)	New Construction	26,904,000
110		Regional	SG	1.5	So. Pkwy East Frontage Road from Deseret Canyon Dr to So. Pkwy Interchange 9	New Construction	6,480,000
112	SR-7	State	UDOT	4.0	So. Parkway Segment IIIb, Warner Valley Rd. to Washington Dam Rd. (2nd Barrel)	New Construction	32,796,000
113		Regional	W	3.0	Long Valley Road	Developer New Const.	-
115	SR-7	State	UDOT	3.2	So. Parkway Segment IVa, Wash. Dam Rd to Sand Hollow (2nd barrel)	New Construction	17,700,000
116		Regional	H	1.2	Sand Hollow Road from SR-9 to Southern Parkway	New Construction	5,836,000
118		Regional	H	0.4	130 North from 3400 West to 3700 West	New Construction	600,000
119		Regional	H	1.3	200 North from 2800 West to 3400 West	New Construction	6,000,000
120		Regional	H	4.9	3000 West from 150 South to Southern Parkway	New Construction	16,040,000
121	SR-9	State	UDOT	4.6	So. Parkway Segment IVb, Sand Hollow to 3000 S (2nd Barrel)	New Construction	24,072,000
122	SR-7	State	UDOT	3.3	So. Parkway Segment V, 3000 S to SR-9 (2nd Barrel)	New Construction	22,656,000
123		Regional	H	4.6	2750 West from 150 South to 3000 West	New Construction	12,960,000
124		Regional	H	2.7	1300 South from 200 West to 3000 West	New Construction	6,960,000
125		Regional	H	6.8	Rlington Parkway from 400 South to 4700 South/1100 West Intersection	New Construction	21,360,000
126		Regional	H	1.3	1150 West from 100 South to 2300 South (Phase II)	Reconstruction	6,000,000
128		Regional	SG		Traffic Control Center ITS	ITS	600,000
129		Regional	SG	0.5	700 South widening under I-15 in St. George	Widen/Reconstruct	10,920,000
131		Regional	W	1.3	Interchange 8 Road from Airport Parkway to SP East Frontage Road	New/Developer	4,000,000
145		State	SG	0.3	I-15 - Install interchange at 700 South	New Construction	25,000,000
150		Regional	SC	1.5	Santa Clara Dr to Western Corridor Connector Road	New Construction	2,000,000
151		Regional	SG/W	0.9	Crimson Ridge Dr (SG/W) from 3300 East to Washington Fields Road	New Construction	3,800,000
153	I-15	State	UDOT	2.0	I-15 Lane Widening from MP 2-4	Widen	33,400,000
157		Regional	H	1.6	SR-9 South Frontage Road, Southern Parkway to Sand Hollow Road	New Construction	6,400,000
158		Regional	H	0.7	3000 West, 200 North to 600 North	New Construction	2,800,000
160	I-15	Regional	SG	1.4	White Dome Rd. from River Road to Southern Hills Parkway	New Construction	5,600,000
167		Regional	H	0.5	2800 West, 600 North to North City Limits	New Const./Developer	4,000,000
168		Regional	L	1.0	North Babylon Road from Leeds/Toquerville Connector to Leeds Main Street	New Construction	4,000,000
<b>Phase Two (2031-2040)</b>						<b>Total Funding Needs:</b>	<b>682,921,000</b>
						<b>Total State Need</b>	<b>401,088,000</b>
						<b>Total Regional Need</b>	<b>281,833,000</b>
						<b>State Funds Available:</b>	<b>363,498,618</b>
						<b>Reg. Funds Available:</b>	<b>244,855,261</b>
						<b>Remainder / (Overage)</b>	<b>(74,567,121)</b>



## Phase 3 (2041-2050)

Project #	Route	Category	City	Length	Project Description	Project Concept	Estimated Cost in 2019 dollars
76		Regional	I	1.1	Kwavasa Drive (I) in Kayenta	Widen/Reconstruct	2,500,000
77		State	UDOT	10.0	Western Corridor, Sun River Parkway to Plantations Drive (1st Barrel)	New Construction	117,600,000
85		Regional	SG	0.5	Man O War-I-15 Crossing between Pioneer Rd to Hidden Valley Dr	New Construction	36,000,000
86		Regional	W	5.1	Pecan Road through Warner Valley (Warner Valley Road to So. Parkway)	New Construction	17,831,000
87		Regional	SG	1.8	Quality Drive from Commerce Dr to Hidden Valley Rd	New Construction	7,776,000
89		Regional	SG	3.0	400 East I-15 Ped Tunnel Crossing	New Construction	4,800,000
104	SR-59	State	UDOT	1.2	SR-59 from MP 22 to Big Plain Junction	Widening	15,000,000
114		Regional	W	1.5	Warner Valley Road from Southern Parkway to the road through Warner Valley	New Construction	5,337,000
134	I-15	State	UDOT	11.5	I-15 MP Exit 16 to Exit 27 Widening	Widening	55,000,000
135	SR-9	State	UDOT	3.5	SR-9 (LV), Widen from SR-17 to La Verkin eastern city limit	New Construction	12,600,000
136		Regional	SG		Traffic Control Center ITS	ITS	600,000
137	SR-59	State	H	3.7	SR-59 - Widen from Main St to Hurricane City limits	Widen/Reconstruct	25,000,000
138	SR-9	State	H	6.4	SR-9 - Widen to 6-Lanes from I-15 to Southern Parkway	Widen/Reconstruct	31,200,000
139		Regional	H	24.2	Warner Valley Road - Extend from Pecan Road to Honeymoon Trail Road	New Construction	200,400,000
140		Regional	SG	1.3	Snow Canyon Parkway- Widen to 7-lane section from 2000 N to SR-18	Widen/Reconstruct	9,120,000
143	SR-34	State	SG	0.5	SG Blvd/Red Cliffs Dr - Intersection improvements	Widen/Reconstruct	1,200,000
144		Regional	SG	0.4	1000 East- Widen to 5-lanes from SG Blvd to Red Hills Parkway	Widen/Reconstruct	2,520,000
146		State	H	0.1	I-15 - Install interchange at 5500 West	New Construction	20,000,000
147		Regional	SG/W	3.2	1450 S - Widen to 7-lanes between River Road and Washington Fields Road	Widen/Reconstruct	17,640,000
149	SR-18	State	SG	0.3	SB Flyover at the Sunset/Bluff St intersection	Widen/Reconstruct	9,000,000
152		Regional	W	1.7	Washington Fields Road - Widen from Warner Valley to 3650 S to 7-lane section	Widening	6,000,000
156		Regional	H	1.3	Turf Sod Connector Road, Turf Sod Road to Purgatory Road	New Construction	5,200,000
159	I-15	State	UDOT	0.3	I-15 MP 8 Industrial Road direct connect	New Construction	500,000
161	I-15	State	UDOT	2.6	I-15 MP 13 to MP 16 NB (4th Lane) with 3-lane exit at MP 16	New Construction	21,710,000
162		Regional	SG	0.6	Sunset Blvd, widen to 7-lanes from 1400 West to Dixie Drive	Widening	150,000
166		Regional	I	3.0	Old Highway 91 (I), Pioneer Parkway to Shivwits	Widening	3,500,000
169	I-15	State	UDOT	3.0	Addition of Aux lanes from Port of Entry to Southern Parkway	Widening	21,000,000
170	I-15	State	UDOT	6.0	Addition of NB & SB Aux lanes from Exit 13 to Exit 16	Widening	30,000,000

**Phase Three (2041-2050)**

<b>Total Funding Needs:</b>	<b>679,184,000</b>
<b>Total State Need</b>	<b>359,810,000</b>
<b>Total Regional Need</b>	<b>319,374,000</b>
<b>State Funds Available:</b>	<b>499,213,459</b>
<b>Reg. Funds Available:</b>	<b>290,672,817</b>
<b>Remainder / (Overage)</b>	<b>110,702,276</b>

Total Funding Assumptions	2,084,211,490
Total Needs	2,100,948,000
Total Difference	<b>(16,736,510)</b>

**State**

Total Funding Assumption	1,359,192,937
Total Needs	1,292,338,000
Total Difference	<b>66,854,937</b>

Regional

Total Funding Assumption	725,018,552
Total Needs	808,610,000
Total Difference	<b>(83,591,448)</b>

## Unfunded Needs

Project #	Route	Category	City	Length	Project Description	Project Concept	Estimated Cost in 2019 dollars
91		TBD	TBD	4	Babylon Road	New Construction	40,000,000
148		TBD	TBD	6.7	Honeymoon Trail Road from south end of Warner Valley and Southern Parkway	New Construction	52,800,000
<b>Total Unfunded Needs:</b>							<b>(92,800,000)</b>



