

## CHAPTER SIX: FUTURE MULTI-MODAL PROJECT PLAN FOR 10 YEARS

### **State System**

The Statewide Transportation Improvement Program (STIP) is a five-year plan that is prepared annually by MoDOT. It includes all projects proposed for funding under the Moving Ahead for Progress in the 21<sup>st</sup> Century (MAP-21), Vision 100-The Century Aviation Act and state revenue. The STIP covers highways, bridges, transit, aviation, rail, waterways, enhancements and other projects. It is a project-specific document that tells citizens what improvements to expect on their transportation system during the period. Appendix A is the most current STIP for the Central District.

### **Multi-Modal Needs Identification and Prioritization**

Beginning in 2013 Meramec Regional Planning Commission (MRPC) partnered with the Missouri Department of Transportation to develop a multi-modal needs list for the Central District.

MRPC coordinated this multi-modal needs identification and prioritization process for the region using existing staff, the Transportation Advisory Committee (TAC) and MRPC board members along with stakeholders representing various transportation modes from across the region. The process was inclusive, transparent and accountable, resulting in a prioritized needs list, by mode that reflects the desires of the Meramec Region and addresses all modes of transportation.

MRPC staff created a multi-modal contact list, made up of individuals and businesses that are either directly involved or impacted by transportation. The list includes transportation professionals, MRPC board members, TAC members, elected leaders, economic developers, and tourism leaders, educators, freight haulers, transportation providers, healthcare providers, emergency services, airport operators, residents involved in bike and pedestrian organizations as well as the general public.

At the April 10, 2014 meeting of the Meramec Region Transportation Advisory Committee, multi-modal needs were prioritized, with the following results:

**PRIORITIZED AVIATION NEEDS, MERAMEC REGION**

4/10/2014

MRPC Tracking #	Source	COUNTY	Mode	Location Description	Need Description	Score	Rank
	Combined	All Counties	Aviation	Public Airports	Annually set aside funds for Airport Infrastructure construction, Improvements and expansion (i.e. runway, apron and taxiway construction/expansion/repair, fuel	69	1
	Combined	All Counties	Aviation	Public Airports	Annually set aside funds for facility construction, improvements and expansion (i.e. hanger expansion/construction, general aviation and	65	2
M-419	MRPC	Maries	Aviation	Rolla National Airport	Need to lengthen runway and/or fly zone.	63	3
	GP	Washington	Aviation	Potosi Airport	Runway expansion from 4,000' to 5,000'	47	4
	GP	Phelps	Aviation	Rolla National Airport	Accommodate Passenger Flights (e.g. Cape Air)	43	5
	GP	Phelps	Aviation	Rolla National Airport	Given opportunity to rebuild Hwy63 - lower roadway profile to remove displaced threshold on runway	37	6
	L RTP	Crawford	Aviation	Cuba Airport	Construct replacement t-hangar (10-units)	34	7
	GP	Phelps	Aviation	Rolla National Airport	Construct passenger terminal building (replace)	33	8
	L RTP	Crawford	Aviation	Cuba Airport	Reconstruct the apron	15	9
	L RTP	Phelps	Aviation	Rolla National Airport	Design & construct hanger taxi lanes	15	10
	L RTP	Crawford	Aviation	Cuba Airport	Construct new 10-unit hangar	13	11
	L RTP	Washington	Aviation	Potosi Airport	Construct fuel storage facilities	13	12
	L RTP	Crawford	Aviation	Cuba Airport	Construct taxi lanes for new t-hangar	12	13
	L RTP	Pulaski	Aviation	Waynesville/St. Robert Airport	Construct passenger terminal expansion	11	14
	L RTP	Washington	Aviation	Potosi Airport	Design & construct t-hangars	11	15
	L RTP	Osage	Aviation	Linn State Airport	Construct new t-hangar	7	16
	L RTP	Washington	Aviation	Potosi Airport	Design & construct hangar	6	17
	L RTP	Phelps	Aviation	Rolla National Airport	Construct new t-hangar	4	18

**PRIORITIZED BIKE/PEDESTRIAN NEEDS (Includes sidewalks and trails), MERAMEC REGION  
4/10/2014**

MRPC Tracking #	Source	COUNTY	Mode	DES	RTE	Location Description	Need Description	Score	Rank
	Combined	All Counties	Bike/Ped				Annually set aside funds for sidewalk repair, connectivity and expansion of facilities including pedestrian crossings, SRTS type projects and co-use trails and bike lanes.	82	1
	Combined	All Counties	Bike/Ped				Annually set aside funds for upgrading pedestrian facilities to ADA compliance.	45	2
	GP	Region	Bike/Ped				Devote a percentage of annual funding to systematically adding needed shoulders	26	3
	GP	Washington	Bike/Ped			Potosi City Park	Trail construction and renovation in City Park, along Brenton Creek and around schools	22	4
	LRTP	District Wide	Bike/Ped			Central District wide initiative to upgrade pedestrian facilities into ADA compliance	Central District wide initiative to upgrade pedestrian facilities into ADA compliance	21	5
	GP	Washington	Bike/Ped			City of Potosi	Continued sidewalk construction and renovation in City of Potosi, especially SRTS & Public Housing Areas	20	6
O-521	MRPC	OSAGE	Bike/Ped			Countywide	Convert inactive Rock Island Railway into hiking trail.	19	7
	LRTP	Pulaski	Bike/Ped	BL	44	Construct sidewalks & Crosswalks on Old Route 66 from Casey's to Cash James Loop in Waynesville	Construct sidewalks & Crosswalks on Old Route 66 from Casey's to Cash James Loop in Waynesville	18	8
	LRTP	Washington	Bike/Ped	Rt	8	Construct sidewalks on MO 8 in Potosi	Construct sidewalks on MO 8 in Potosi	17	9
O-523	MRPC	OSAGE	Bike/Ped			Loose Creek	Additional pedestrian facilities near school	14	10
	LRTP	Pulaski	Bike/Ped			Install crosswalks at Rt 66/Benton Street, Rt 66/Lynn Street and Old Rt H at the school in Waynesville	Install crosswalks at Rt 66/Benton Street, Rt 66/Lynn Street and Old Rt H at the school in Waynesville	14	11
	GP	State/Region	Bike/Ped				Create a dedicated bicycle and pedestrian transportation fund for each regional planning commission and metropolitan planning organization in the state, similar to the existing Transportation Alternatives program.	14	12
D-229	MRPC	Dent	Bike/Ped			Salem area	Increased connectivity between multi-use trails and pedestrian traffic generators.	13	13
O-522	MRPC	OSAGE	Bike/Ped			Linn	Additional pedestrian facilities between downtown and Linn Tech	13	14
	LRTP	Phelps	Bike/Ped	Rt	63	U.S. 63 & Kingshighway Rolla	Construct interchange improvements to accommodate bike/ped traffic.	13	15
O-524	MRPC	OSAGE	Bike/Ped			Westphalia	Additional pedestrian facilities in/near Main Street area.	12	16
	LRTP	Phelps	Bike/Ped			Construct a shoulder or bike lane on Old St. James Road between Rolla & I-44 Exit 189	Construct a shoulder or bike lane on Old St. James Road between Rolla & I-44 Exit 189	12	17
	GP	Region	Bike/Ped				Create a Walk & Bike to School Safety & Connectivity Fund for the region. Similar to Safe Routes to School.	12	18
	LRTP	Phelps	Bike/Ped	IS	44	Construct bike path parallel to I-44 from Exit 184 to 189 and connect to Rolla's Acorn trail/path system	Construct bike path parallel to I-44 from Exit 184 to 189 and connect to Rolla's Acorn trail/path system	8	19
	LRTP	Pulaski	Bike/Ped			Construct sidewalks along I cord Ave to the Rt. T junction in Waynesville	Construct sidewalks along I cord Ave to the Rt. T junction in Waynesville	8	20
W-829	MRPC	Washington	Bike/Ped			Within Potosi	Better pedestrian facility connectivity to City Park	8	21
G-324	MRPC	Gasconade	Bike/Ped			Countywide, but especially From Belle to Owensville	Convert inactive Rock Island Railway into hiking trail.	7	22
Pu-728	MRPC	Pulaski	Bike/Ped	Rt	17	From Buckhorn to Courthouse	Construct sidewalks and/or bike paths and crosswalks anywhere where not already in place.	7	23
	LRTP	Phelps	Bike/Ped	Rt	63	Add shoulders to U.S. 63 from the interchange north of Rolla to County Road 8010/39/2000/34A	Add shoulders to U.S. 63 from the interchange north of Rolla to County Road 8010/39/2000/34A	6	24
W-830	MRPC	Washington	Bike/Ped			Countywide	More and Better Hiking / Biking Trails	6	25
	GP	Region	Bike/Ped			Pool of grant funds for bike/ped projects across region established for annual award	Pool of grant funds for bike/ped projects across region established for annual award	6	26
G-325	MRPC	Gasconade	Bike/Ped			Inside Hermann City Limits	Additional sidewalks to connect downtown area to school.	5	27
Ph-635	MRPC	Phelps	Bike/Ped	IS	44	At Route 63 Interchange	Add pedestrian crossing and adjoining facilities.	5	28
Ph-639	MRPC	Phelps	Bike/Ped	Rt	E	At/near I-44	Improved Pedestrian Facilities, including wider I-44 ped/bike crossing.	5	29
	GP	Phelps	Bike/Ped	US	63	US-63 and Bishop Ave in Rolla	Crosswalks needed at cross streets (many)	5	30
	LRTP	Phelps	Bike/Ped	Rt	BB	Construct a bike/ped, multi-use path along Rt. BB to connect the cities of Rolla & St. James	Construct a bike/ped, multi-use path along Rt. BB to connect the cities of Rolla & St. James	4	31
	GP	Phelps	Bike/Ped	US	63	US-63 from I-44 to Kingdom Kia	Sidewalk and wide right lane or separate path to accommodate bike and ped.	4	32
	GP	Phelps	Bike/Ped			Gasconade River north of I-44	Ped/Bike bridges or other crossings across river	3	33

**PRIORITIZED BIKE/PEDESTRIAN NEEDS (Includes sidewalks and trails), MERAMEC REGION  
4/10/2014**

MRPC Tracking #	Source	COUNTY	Mode	DES	RTE	Location Description	Need Description	Score	Rank
	GP	Region	Bike/Ped				Incorporate routine accomodation of biking & walking trails in every transportation project built over the next ten years, wherever needed and as appropriate to the location and situation	2	34
M-421	MRPC	MARIES	Bike/Ped			Countywide, especially in Belle and Bland	Convert inactive Rock Island Railway into hiking trail.	1	35
Ph-629	MRPC	Phelps	Bike/Ped	US	63	US 63 at intersection of 10th Street in Rolla	Pedestrian Overpass	1	36
Ph-633	MRPC	Phelps	Bike/Ped	Rt	O	From Route 72 to Route C	Add shoulders and/or bike lane.	1	37
	L RTP	Phelps	Bike/Ped	Rt	68/8	Construct shoulders on MO-68 and MO-8 to allow people to bike safely to Meramec Spring Park	Construct shoulders on MO-68 and MO-8 to allow people to bike safely to Meramec Spring Park	1	38
D-227	MRPC	Dent	Bike/Ped	MO	19	From Center STto Rt 32	Sidewalk along east side of roadway.	0	39
Ph-611	MRPC	Phelps	Bike/Ped	US	63	Near State Street Intersection	pedestrian need (pedestrian crossing)	0	40
Ph-634	MRPC	Phelps	Bike/Ped	Rt	V	From I-44 to Route 68	Add shoulders and/or bike lane.	0	41
	MRPC	Phelps	Bike/Ped	IS	44	North Outer Road between Northweye and Route V	Add shoulders and/or bike lane.	0	42
Ph-636	MRPC	Phelps	Bike/Ped	IS	44	South Outer Road Between Exit 189 and St. James	Add shoulders and/or bike lane.	0	43
	L RTP	Phelps	Bike/Ped	IS	44	Construct bike/ped overpass on I-44 between Exit 185 (Rt E) & Vichy Road Bridge	Construct bike/ped overpass on I-44 between Exit 185 (Rt E) & Vichy Road Bridge	0	44
	L RTP	Phelps	Bike/Ped		63/44	Construct bike/ped crossing on the U.S. 63/I-44 overpass	Construct bike/ped crossing on the U.S. 63/I-44 overpass	0	45
	L RTP	Phelps	Bike/Ped		E/44	Improve & widen the sidewalk at the Rt. E & I-44 interchange in Rolla	Improve & widen the sidewalk at the Rt. E & I-44 interchange in Rolla	0	46
	L RTP	Phelps	Bike/Ped	Rt	68	Add shoulders & improve curves	Add shoulders & improve curves	0	47
Pu-729	MRPC	Pulaski	Bike/Ped	BL	44	Along Ichord from Route T to Southside Road	Capacity and Safety Improvements. Includes additional pedestrian facilities along Ichord and along GW Lane. Possible partnership project?	0	48
Pu-734	MRPC	Pulaski	Bike/Ped			Within Crocker, St Robert, Waynesville (et al)	Additional Pedestrian Facilities	0	49
	L RTP	Pulaski	Bike/Ped	Rt	H	Construct sidewalks on Old Rt H from Rt 66 junition to Mitchell Heights Dr.	Construct sidewalks on Old Rt H from Rt 66 junition to Mitchell Heights Dr.	0	50

**PRIORITIZED RAIL NEEDS, MERAMEC REGION**

4/10/2014

MRPC Tracking #	Source	COUNTY	Mode	DES	Location Description	Need Description	Score	Rank
	Combined	All Counties				Establish Amtrak rail service from St. Louis to Springfield along the Burlington Northern rail paralleling I-44, making stops in Crawford, Phelps and Pulaski counties.	53	1
	Combined	All Counties				Annual funds set aside for rail infrastructure improvements (i.e. universal crossover installation, intermodal hubs, sidings, etc...)	28	2
W-826	MRPC	Washington	Rail	RR	Union Pacific Railway Near Airport and Industrial Park	Siding / Intermodal Hub	23	3
C-113	MRPC	Crawford	Rail	RR	Cuba Amtrak Stop	Amtrak service to Cuba (from St. Louis to Springfield)	16	4
Ph-627	MRPC	Phelps	Rail	RR	Rolla - Amtrak Stop	Amtrak service to Rolla (from St. Louis to Springfield)	15	5
	L RTP	Osage	Rail	RR	Construct the Bonnots Mill universal crossover to improve the MO River Runner train service		10	6
	L RTP	Gasconade	Rail	RR	Construct Hermann universal crossover to improve the MO River Runner train service		4	7
Pu-717	MRPC	Pulaski	Rail	RR	Countywide	Amtrak Service to County, Stop Locations Undetermined	4	8
		Phelps	Rail	RR	Intermodal Hub	Rolla	4	9
Pu-735	MRPC	Pulaski	Rail		Along/near BNSF Railway	Intermodal Hub	1	10
	GP	Phelps	Rail	RR	INTERBAN - St James, Rolla, Newburg, FLW	INTERBAN (Rapid Transit Service Across County) not AMTRAK, but short hop trolleys	1	11

**PRIORITIZED TRANSIT NEEDS, MERAMEC REGION**

4/10/2014

MRPC Tracking #	Source	COUNTY	Mode	Location Description	Need Description	Area Engineer Comments	Score	Rank
Combined	L RTP	District Wide	Transit	District Wide	Increased Rural Public Transportation services provided from averaging 2 days per week to 5 days per week (i.e. OATS, SMTS).		75	1
	GP	State Wide	Transit	State Wide	Increase Park & Ride programs using smaller busses running more frequently		20	2
Ph-644	MRPC	Phelps	Transit	Countywide	Increased Public Transportation Options.	SMTS is current rural public transportation provider.	13	3
C-120	MRPC	Crawford	Transit	Countywide	Increased rural transportation (frequency, options, etcetera).	<b>New Need. SMTS is current rural public transportation provider.</b>	11	4
W-831	MRPC	Washington	Transit	Countywide	Increased Rural Public Transportation (frequency, options, etcetera).	SMTS is current rural public transportation provider.	10	5
D-228	MRPC	Dent	Transit	Countywide	Increased rural transportation (frequency, options, etcetera).	SMTS is current rural public transportation provider.	9	6
G-323	MRPC	Gasconade	Transit	Countywide	Increased rural transportation (frequency, options, etcetera).	Oats is current provider.	6	7
Pu-736	MRPC	Pulaski	Transit	Countywide	Increased Public Transportation Options.	Oats is current provider.	6	8
O-520	MRPC	OSAGE	Transit	Countywide	Increased rural transportation (frequency, options, etcetera).	Oats is current provider.	3	9
	GP	State Wide	Transit	State Wide	Expansion of public transportation instead of road development		2	10
M-420	MRPC	Maries	Transit	Countywide	Increased rural transportation (frequency, options, etcetera).	Oats is current provider.	0	11

**PRIORITIZED OTHER NON-MODE SPECIFIC, MERAMEC REGION**

4/10/2014

MRPC Tracking #	Source	Mode	Location Description	Need Description	Area Engineer Comments	Score	Rank
	GP	All	Regional	Matching grant program for cities & counties covering all modes for local projects		94	1
	GP	All	Regional	Planning funds for Multi-Modal Projects		60	2

**PRIORITIZED HIGHWAY NEEDS (Top Regional Needs), MERAMEC REGION**

**4/10/2014**

MRPC Tracking #	COUNTY	Mode	DES	RTE	Location Description	Need Description	TAC Priority	Score	Rank
MRPC-1	Phelps, Maries, Osage	Highway	US	63	Major Project: US 63 from US Hwy 50 in Osage County to the Phelps/Texas County line	Corridor improvements including widening to 4-lane. Shoulders and horizontal alignment improvements as well. (or any project that will advance the 4-laning of the corridor)	MRPC-1	74	1
G-312	Gasconade	Highway	RT	19	From 28 Junction to North City Limits on Hwy 19 near school	Add third lane on Hwy 19 by High School. From Hwy 28/Hwy 19 Junction to North City Limits sign.	5	40	2
MRPC-2	Gasconade and Osage	Highway	US	50	Major Project: US HWY 50 from about one mile west of Linn to the Gasconade/Franklin County line	Corridor improvements including widening to 4-lane. Shoulders and horizontal alignment improvements as well. (or any project that will advance the 4-laning of the corridor)	MRPC-2	38	3
C-102	Crawford	Highway	RT	C	Bridge No. S0364 over Little Bourbouse River	Load posted, one-lane bridge.	3	37	4
Combined	All Counties	Highway				Annually set aside funds for safety improvements on numbered and lettered routes. (i.e. correcting sight distance issues, intersection alignments and curve geometrics, adding shoulders, rumble strips and signage.		27	5
Combined	All Counties	Highway				Annually set aside funds for award at the District Level for bridge replacement on lettered routes.		26	6
Combined	All Counties	Highway				Annually set aside funds for resurfacing of numbered and lettered routes and improving drainage where needed.		26	7
Ph-605	Phelps	Highway	US	63	I-44 to University Drive / overpass at I-44 in Rolla	roadway need (additional lanes) / traffic control need (congestion concern)	4	25	8
D-210	Dent	Highway	RT	TT	Bridge No. R0808 over Crooked Creek	bridge need (flooding concern) / replace culvert with bridge	13	23	9
Ph- 641	Phelps	Highway	MO	72	MO72 from 44 to 63 Extension	Extend Route 72 to I-44 at/near Proposed 5th Interchange.	7	22	10
W-803	Washington	Highway	MO	8	Crawford County Line to St. Francois County Line	roadway need (passing-lanes) - continued improvement	8	22	11
W- 820	Washington	Highway	Rt	185	Rt 185 Bridge over FoucheAREnault	Load posted, one-lane bridge. (4-6-7)	12	21	12
O-503	Osage	Highway	MO	133	Entire route through county - Functional /Safety Needs	Safety Improvements to Rte 133 across Osage County and add shoulders.	9	15	13
O-517	Osage	Highway	US	63	Hwy 63 Intersection with MO 133	Safety Improvements at Intersection	15	13	14
M-417	Maries	Highway	Rt	42	Intersection of US 63 and 42 in Vienna	Traffic flow issues, need to make improvements to the intersection	6	9	15
Ph-602	Phelps	Highway	MO	8	St. James to Crawford County Line	Further Roadway Improvements for Safety and Capacity.	11	7	16
M-411	Maries	Highway	US	63	Acceleration Lane for Northbound 63 at Route 68 junction.	Safety and traffic flow improvement.	21	7	17
Pu-720	Pulaski	Highway	MO	28	Guardrail on Gasconade River Hill	Safety improvements	10	6	18
Pu-718	Pulaski	Highway	RT	H	Intersection of Rt H and Southside Drive in Waynesville	Congestion / safety.	22	6	19
G-302	Gasconade	Highway	MO	100	Safety	Safety improvements at Route J intersection, 6.0 miles west of Hermann.	14	5	20
G-304	Gasconade	Highway	RT	T	Route T Bridge over Bourbouse River	Bridge improvements	16	4	21
C-111	Crawford	Highway	RT	N	At Whites Creek	roadway need (flooding concern)	19	3	22
W-811	Washington	Highway	MO	21	Hwy 21 from Route H at Desoto County Line to Hwy 8/21 Intersection at Potosi	Change Functional Classification from Minor Arterial to Principal Arterial	23	3	23
O-515	Osage	Highway	Rt	100	Rt 100 bridge over Shawnee Creek	Needs replaced. Built in 1947. (4-6-5)	25	3	24
Pu-705	Pulaski	Highway	RT	Y	Entire Route	Safety improvements. (High Accident Rate)	26	3	25
C-105	Crawford	Highway	MO	49	Bridge No. S0421 over Dry Fork Creek	bridge need (neck down to one lane)	24	2	26
D-206	Dent	Highway	MO	32	Chilton Oil Plant	guardrail and widening of box culvert	17	1	27
M-405	Maries	Highway	US	63	Hwy 63/28 Intersection	Safety improvements at the 'Y' intersection	19	1	28
D-214	Dent	Highway	RT	K	Entire Route	Safety improvements / and shoulders	18	0	29

## Highway 63 Prioritization

In December 2009, MoDOT presented information on Hwy. 63 segments. The TAC members were asked to prioritize the segments for future construction. The TAC ranking is as follows:

1. **Project 7:** From south of Maries CR 443 to Phelps County Super 2. 8 mile stretch. AADT 5866. 113 crashes (6 fatalities, 7 disabling injuries, 22 minor injuries, 78 property damage only). Approx. cost \$17.7 Million
2. **Project 1:** From Highway 50 to south of the bridge over Maries River at Westphalia. Approx. 5 mile stretch. AADT 7706. 89 crashes (0 fatalities, 6 disabling injuries, 18 minor injuries, 65 property damage only). Approx. cost \$23.1 Million
3. **Project 2:** South of the bridge over Maries River at Westphalia to south of Osage CR 524. Approx. 7 mile stretch. AADT 5025. 104 crashes (2 fatalities, 11 disabling)
4. **Project 3:** South of Osage CR 524 to south of Maries CR 332. 9 mile stretch. AADT 4260. 130 crashes (3 fatalities, 14 disabling injuries, 37 minor injuries, 76 property damage only). Approx. cost \$45.7 Million
5. **Project 4:** South of Maries CR 332 to south of Maries CR 325. 5.5 mile stretch. AADT 5001. 169 crashes (3 fatalities, 9 disabling injuries, 48 minor injuries, 109 property damage only). Approx. cost \$23.4 Million
6. **Project 5:** South of Maries CR 325 to just North of Hwy 68. 8 mile stretch. AADT 5814. 93 crashes (0 fatalities, 5 disabling injuries, 23 minor injuries, 65 property damage only). Approx. cost \$24 Million
7. **Project 6:** Just North of Hwy 68 to south of Maries CR 443. 2 mile stretch. AADT 5433. 42 crashes (0 fatalities, 4 disabling injuries, 12 minor injuries, 26 property damage only). Approx. cost \$6.3 Million

## Statewide Transportation Improvement Program 2017-2021

The Statewide Transportation Improvement Program (STIP) for state fiscal years 2017 through 2021 is located in Appendix A. The STIP is prepared annually and sets forth the specific construction projects MoDOT will undertake in the next five years.