

November 6, 2019

Officer Mike Burgoyne

Ballwin Police Department

Ballwin, MO 63122

314.520.63011

mburgoyne@ballwin.mo.us

**RE: City of Ballwin: Traffic Signage Assessment – Phase 1
DRAFT Report**

T² Project No: 19-04

Dear Officer Burgoyne,

T² Traffic & Transportation is pleased to submit the following Phase 1 signage assessment for the City of Ballwin, Missouri. This report is intended to provide an initial review of R1-1 (“stop”) signage within the City of Ballwin, focusing on specific locations identified by the Ballwin Police Department (PD). This study is the first phase of the Signage Assessment project, resulting in recommendations for half of the twenty-six individual signage locations and outlines a second phase of the project to complete a more robust engineering assessment of the remaining locations and a Policy Manual for the City.

Project Overview

The City of Ballwin is performing an assessment of its current roadway network stop (R1-1 regulatory) signage throughout the City. The goal is to broadly look at installation throughout the City, scrutinize particular locations identified by the Ballwin Police Department (PD) and document approval procedures for use when questions and requests for additional stop signs arise. The effort requires investigation of existing traffic conditions, signage, compliance and issues with the ultimate goal of enhancing safety and efficiency throughout the network. Furthermore, future plans and potential for the system will be considered in an effort maximize the applicable lifetime of any recommendations and strategies for implementation.

During the proposal phase of the project, the City determined the project would be completed in two phases in an effort to obtain and use project funding support via a Traffic Engineering Assistance Program (TEAP) funding grant from the Missouri Department of Transportation (MoDOT). Applications for this program were due September 20, 2019 and awards will be announced November 8, 2019. Therefore, the bulk of the technical analysis would be performed in Phase 2 of the project (ideally utilizing a TEAP grant) with Phase 1 serving as a precursor to summarize the information to date and outline the study process for the City. (Note: although it was desirable, due to the timing of Phase 1 selection, there was limited ability to compile information to support the TEAP application).



Phase 1 of the project includes the overall review of stop signage throughout the City; documentation of existing issues, including a prioritized list of individual site locations to be evaluated with related data and information needs; and a scope and fee estimate to complete the evaluations and prepare an implementation policy in a subsequent phase. The preliminary investigation is documented in this letter report to serve any consultant or timeline for the second phase.

Preliminary assumptions for Phase 2 are: data will be collected, and detailed analysis performed for selected sites, resulting in a prioritized list of recommended modifications and any associated costs. A detailed policy for the implementation of future stop sign implementation will be prepared in coordination with the City and Ballwin Police Department staff.

Existing Conditions

The City of Ballwin is a great place to live, work, and raise a family. The City has been named multiple times as “One of America’s Best Places to Live” by Money Magazine and has also been identified as one of the safest cities in America. One of the City’s strengths is its robust roadway network, with access to three interstates and as many prominent State or County routes. There is a genuine street hierarchy, a relatively dense pedestrian network, and an emerging bicycle network. The existing roadways are well-maintained, and transportation and access are routinely listed as benefits by City residents.

Recently, City staff has received numerous requests from residents for additional and/or enhanced stop signs within the City. In addition, the Ballwin PD has an on-going list of stop sign locations that need to be investigated. This project aims to study the locations identified by the PD and residents as well as create a Policy Guide for the approval and implementation of future stop signage within the City.

PRIORITY STUDY LOCATIONS

During the scoping phase of this project, Ballwin PD shared an inventory of the, approximately, 426 stop (R1-1 regulatory) signs within the City (attached as **Appendix A**). Within this list, the City has flagged:

- 31 high violation signs (yellow)
- 6 high crash location signs (red)
- 1 “not useful” signage location (green)

In addition to the existing signage, the City has identified:

- 3 additional locations where a stop or pedestrian accommodations have been requested (aqua)



Many of the stop signs in question are located at common intersections (i.e. both main road and crossroad). Therefore, this list results in 26 individual study locations to be investigated, as mapped in **Figure 1**. The Phase 1 project team met with City and Ballwin PD staff multiple times during the proposal and selection phase to obtain project information, including a “ride-along” with PD Department of Traffic Safety to visit and discuss the priority locations identified by the City. A summary of priority locations, details, and PD and observation notes are shown in **Table 1**.

These individual study locations are spread throughout the City, primarily located in neighborhoods at the intersection of local streets owned and maintained by the City of Ballwin. The exception is one location on an arterial owned and maintained by St. Louis County Department of Transportation:

- New Ballwin Road at Oak Run Lane (pedestrian crossing requested)

At this location, all decisions in regard to the approval, design and installation of any new traffic control will be made by St. Louis County. The Phase 2 project team will need to approach the St. Louis County North/West Area Engineer to begin discussions regarding issues and potential solutions.

In addition, there are four locations on City streets that approach Manchester Road (MO Route 100) which is owned and maintained by MoDOT:

- Steamboat Lane (high-crash location)
- Ramsey Lane (high-violation location)
- Ballwin Manor Drive (no stop sign currently, potential addition)
- Lark Hill Lane (high-crash location)

Although the City has jurisdiction over these approaches, the Phase 2 team is also encouraged to reach out to the MoDOT Area Engineer for South-West St. Louis County in regard to any potential mitigation at these locations.

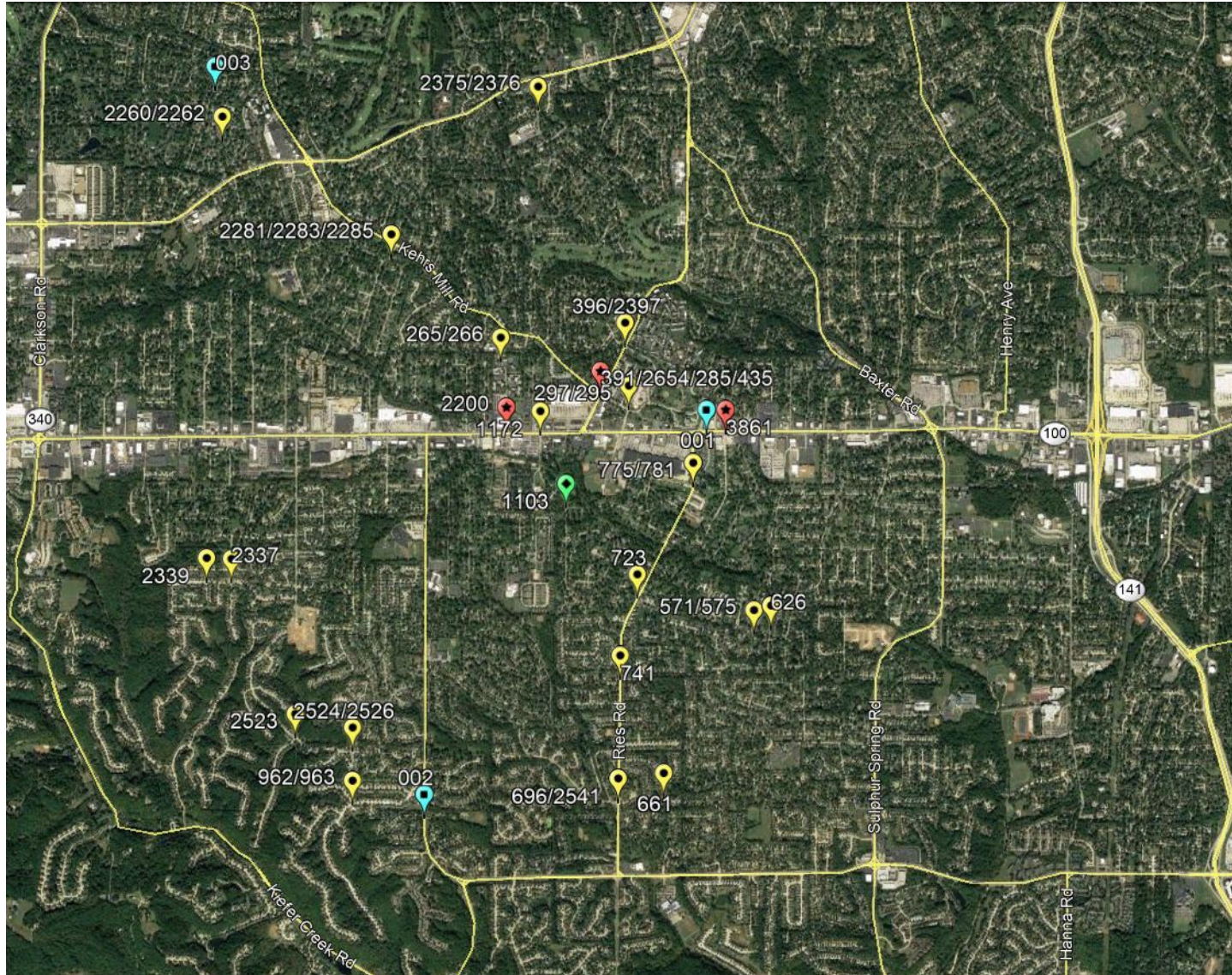


Figure 1: Study Locations

Map numbers correspond with Ballwin PD inventory in Appendix A;
red: high-crash locations, yellow: high-violation locations, green: "not useful" location, aqua: potential additional signage



Table 1: Study Location and Signage Notes

KEY: RED = High Crash Location YELLOW = High Violation Rate GREEN = Not a Useful Location AQUA = Potential Addition												
Study Location	Sign ID	Sign Placement Road:	Cross Road	Dir.	Owner	W.	H.	control?	accidents?	grades?	other geometry?	Ballwin PD NOTES/Observations
1	297	BALLPARK DR	KEHRS MILL RD	S	City	30	30	3-way stop	few	NB	crosswalk on E leg only; curb ramps on S side	NB Runs Stop
	295	KEHRS MILL RD	BALLPARK DR	W	City	30	30					
2	962	CASTLE PINES DR	CASTLE GLEN CT	NW	City	30	30	3-way stop	no	some EB	E-W curve, crosswalk on W leg to pool; T-int in middle of curve	complaints RE: EB & WB running Stops; pool on south side
	963	CASTLE PINES DR	CASTLE GLEN CT	SW	City	30	30					
3	661	CLETA DR	ASILOMAR CT	NW	City	30	30	3 way stop	no	some SB, NB, EB	no striping; City Limits sign east on Cleta	moderate citizen complaints; cut-thru route between Manchester & Ries (has not observed)
4	2375	COUNTRY CLUB DR	BRIARWYCK DR	N	City	30	30	4-way stop	no	no	crosswalks on S and W legs; school S of intersection	many violations NB and SB
	2376	COUNTRY CLUB DR	CLAYMONT PLACE DR	S	City	30	30					
5	2281	E SKYLINE DR	W SKYLINE DR	N	City	30	30	3-way stop	yes	yes N-SB	T-int. in middle of curve	
	2283	E SKYLINE DR	W SKYLINE DR	SE	City	30	30					
	2285	W SKYLINE DR	E SKYLINE DR	W	City	30	30					
6	391	HOLLOWAY RD	KEHRS MILL RD	SW	City	30	30	4-way stop	yes	NB uphill	crosswalks on all 4 legs SB stop has LED flashers (solar) good sight-distance	#1 location in City for accidents, typ. SB vs. NBL; SB doesn't stop frequently
	2654	HOLLOWAY RD	KEHRS MILL RD	NE	City	30	30					
	285	KEHRS MILL RD	HOLLOWAY RD	W	City	30	30					
	435	KEHRS MILL RD	HOLLOWAY RD	SE	City	30	30					
7	396	HOLLOWAY RD	PARK DR	SW	City	30	30	4-way stop	few	E-WB	crosswalks on all 4 legs	N of intersection above: NB/SB run stop
	2397	HOLLOWAY RD	STODDARDS MILL DR	NE	City	30	30					
8	3861	LARK HILL LN	MANCHESTER RD	S	City	36	36	T-intersection; minor stop	yes	EB, some NB	Manchester Rd. approach	NBR pulling in front of EB traffic; EB speeds an issue; sight distance for cars in queue (1st car OK)
9	2260	LENNOX DR	MAYFAIR DR	NE	City	30	30	4-way stop	no	some NB, EB, WB	Mayfair is wide, flat; good sight distance; NO striping, no sidewalks	Citizen complaints of cut-thru route; esp during school hours (HS students running Mayfair stops?)
	2262	LENNOX DR	MAYFAIR DR	SW	City	30	30					
10	2337	OAKWOOD FARMS LN	JACOB LN	W	City	30	30	3-way stop	no	no	big wide intersection; signs needed?	citizen complaints - running signs
11	2339	OAKWOOD FARMS LN	OAKBRIAR FARM DR	E	City	30	30	4-way stop	no	no	big wide intersection; striping?	citizen complaints - running signs
12	1103	RAMSEY LN	VAIL CT	S	City	30	30	2-way stop @ T	no	no	curve on Ramsey N of intersection (maybe why SB no stop)	NB & WB only stop (?)



Table 1, continued: Study Location and Signage Notes

KEY: RED = High Crash Location YELLOW = High Violation Rate GREEN = Not a Useful Location AQUA = Potential Addition												
Study Location	Sign ID	Sign Placement Road:	Cross Road	Dir.	Owner	W.	H.	control?	accidents?	grades?	other geometry?	Ballwin PD NOTES/Observations
13	1172	RAMSEY LN	MANCHESTER RD	S	City	30	30	T-intersection; minor stop	no	some NB uphill	Manchester Rd. approach: Left-turns restricted 7AM-7PM MON-FRI	recently, City passed ordinance restricting Lefts - has reduced number of accidents
14	723	RIES BEND RD	RIES RD	E	City	30	30	4-way stop	no	SB, EB, WB downhill	channelized rt wb (yield) - sign on left; crosswalk on S & W legs	(N end) many complaints re: traffic running sign; Windcliffe cut-thru (access)
15	741	RIES BEND RD	RIES RD	SE	City	30	30	4-way stop	no	no	crosswalks on all legs; relatively flat	(S end); possible complaints of non-compliance
16	696	RIES RD	CARAVEL CT	S	City	30	30	4-way stop	few	SB hill; EB, WB slight	recently grooved pavement, has improved situation; crosswalks on all	a lot of violations; SB traffic doesn't stop
	2541	RIES RD	TWIGWOOD DR	N	City	30	30					
17	775	RIES RD	JEFFERSON AVE	SW	City			3-way stop	very few	SB downhill	crosswalk on W leg only; school to W but no signage; NB & SB Stop bars	NB & SB rolling stops
	781	RIES RD	JEFFERSON AVE	NE	City	30	30					
18	265	STEAMBOAT LN		N	City	30	30	mid-block	no	NB hill	curve N and S of crossing	mid-block crossing; running stops; very busy in summer (pool on east side), apartments to west
	266	STEAMBOAT LN		S	City	30	30					
19	2200	STEAMBOAT LN	MANCHESTER RD	N	City	30	30	T-intersection; minor stop	yes	some SB downhill	Manchester Rd. approach; Left-turns restricted 4PM-6PM EXCEPT SUNDAYS	seems to be many running violations of drivers trying to beat the approaching queue
20	2524	WESTGLEN VILLAGE DR	WEST RUN DR	N	City	30	30	4-way stop	no	NB-SB some	good sight distance; Westglen has c/l and stop bars, none on Westglen	EB/WB run signs (esp. when see no approaching traffic)
	2526	WESTGLEN VILLAGE DR	WESTRUN DR	S	City	30	30					
21	2523	WESTRUN DR	TERRINGTON DR	NW	City	30	30	3-way stop	no	SB & NB	bottom of two hills and on a slight curve; NO striping	possibly most violated stop in City, NEB/SWB
22	571	WINDCLIFFE DR	TOWERCLIFFE DR	W	City	30	30	3-way stop	no	SB, EB, WB	stop bars on Windcliffe only	violations, low traffic
	575	WINDCLIFFE DR	TOWERCLIFFE DR	E	City	30	30					
23	626	WINDCLIFFE DR	PORTWIND PL	W	City	30	30	3-way stop	no	some NB, SB, EB	wide & angled approach; no stop bars NB & SB	violations, low traffic
24	001	BALLWIN MANOR	MANCHESTER					T-int; minor leg		NB	Manchester Rd. approach	NO STOP SIGN CURRENTLY
25	002	NEW BALLWIN ROAD	OAK RUN LANE					Mid-Block Ped	no	no	400' S of signalized int. w/ped signals, 3-lane x-section; sidewalks;	mid-block crossing requested; park entrance E side
26	003	DEL EBRO DR	NOTTINGHAM DR					T-intersection	no	some WB	wide approach; Del Ebro "turns" at int	stop requested for Del Ebro



EXISTING CITY GUIDANCE

The City of Ballwin currently has limited official guidance regarding stop sign installation. There is an existing Policy adopted by the Board of Aldermen in February 1997, attached in **Appendix B**, but no further action since that time. The Ballwin Police Department has no additional policies or guidance.

The City Policy states that, for Arterial (and higher classified) Roadways, the warrants established by the Manual of Uniform Traffic Control Devices¹ (MUTCD) govern. For Collector Roadways, the Chief of Police and the City Engineer shall prepare a joint recommendation in regards to stop sign installations based on the (MUTCD) warrants, accident history, sight distance, and/or other concerns (note: the City of Ballwin currently contracts with the City of Ellisville for City Engineering services). However, for residential streets, the policy requires a slightly higher accident rate or minimum traffic volumes plus physical factors plus resident support or a vote of the Board of Aldermen – there is no reference to the MUTCD.

Section 1 of the Policy lists roadway classifications as defined by the City of Ballwin, and Section 3 designates routes by classification. According to the policy, several of the project locations are located on City Arterials: Holloway Road, Kehrs Mill Road, Steamboat Lane, West Skyline Drive, Ries Road, Ramsey Lane, and New Ballwin Road. The local Metropolitan Planning Organization (MPO) for the St. Louis region, The East-West Gateway Council of Governments (EWGCOG), is responsible for maintaining and updating the region's Roadway Functional Classification System. **Appendix C** includes EWGCOG's Functional Classification Maps that cover the City of Ballwin. According to this official classification, all but one of the study intersections are located on Collectors or Local streets; the exception is the potential pedestrian crossing of New Ballwin Road (at Oak Run Lane), which is a minor arterial.

¹ "The *Manual on Uniform Traffic Control Devices for Streets and Highways* (MUTCD) defines the standards used by road managers nationwide to install and maintain traffic control devices on all public streets, highways, bikeways, and private roads open to public travel. The MUTCD is published by the Federal Highway Administration (FHWA)" <https://mutcd.fhwa.dot.gov/>



Phase 1 Findings

In general, the City of Ballwin's stop signs appear to be follow industry guidelines. Signage is located and installed appropriately and looks well-maintained. The possible exception is some inconsistency in placement, which is a common occurrence in cities. In the 1980's-1990's stop signs were frequently installed in an effort to reduce vehicle speeds. However, empirical evidence has indicated that numerous stop signs can lead to noncompliance (rolling or running stops) and increased speeds (drivers attempt to "recapture" time lost). And the MUTCD explicitly states "YIELD or STOP signs should not be used for speed control." The City Policy approved in February 1997 may have been an attempt to regulate such a practice of overuse of stop signage installation.

Many of the twenty-six individual study locations are questionable as to whether they would meet current warrants. According to the City Policy (**Appendix B**):

- existing conditions must meet the federal warrants listed in the MUTCD, or
- there are three (3) or more reported accidents in the past two years (of a type susceptible to correction by installation of a stop sign), or
- there is a sight-distance issue, or
- there are other concerns following an engineering study; traffic volumes are considered if the minor-street volumes exceed 50% of the major roadway

The City Policy generally follows the guidelines within the MUTCD, with the latter providing more specific parameters. Some of the applicable guidance within the MUTCD includes the recommendation that stop signs are considered for minor-street approaches where the traffic volume on the major roadway exceeds 6,000 vehicles per day and that multi-way stop control is intended for locations where the volume of traffic on the intersecting roads is approximately equal and meets specified thresholds.

Referring to both the City Policy and MUTCD guidelines, none of the locations appears to have a sight-distance issue that would warrant the existing stop sign. However, three of the study locations potentially meet accident history warrants:

- Location 6: Holloway Road and Kehrs Mill Road
- Location 8: Lark Hill Lane at Manchester Road
- Location 19: Steamboat Lane at Manchester Road



In addition, there are ten additional locations where removal of signage should not be considered due to the hierarchy of intersecting roadways or the presence of pedestrian facilities. Instead, mitigation alternatives aimed at improving compliance at these intersections should be identified.

These locations are:

- Location 1: Ballpark Drive and Kehrs Mill Road
- Location 2: Castle Pines Drive and Castle Glen Court
- Location 4: Country Club Drive and Briarwyck Drive/Claymont Place Drive
- Location 7: Holloway Road and Park Drive/Stoddards Mill Drive
- Location 13: Ramsey Lane at Manchester Road
- Location 14: Ries Bend Road and Ries Road
- Location 15: Ries Bend Road and Ries Road
- Location 16: Ries Road and Caravel Court/Twigwood Drive
- Location 20: Westglen Village Drive and Westrun Drive
- Location 24: Ballwin Manor Drive at Manchester Road (proposed)

Therefore, an engineering study is recommended for the thirteen remaining study intersections to confirm whether stop signs are warranted and to investigate alternatives as necessary. These locations to be further evaluated in Phase 2 of the Ballwin Signage Study are:

- Location 3: Cleta Drive and Asilomar Court
- Location 5: E. Skyline Drive and W. Skyline Drive
- Location 9: Lennox Drive and Mayfair Drive
- Location 10: Oakwood Farms Lane and Jacob Lane
- Location 11: Oakwood Farms Lane and Oakbriar Farm Drive
- Location 12: Ramsey Lane and Vail Court
- Location 17: Ries Road and Jefferson Avenue
- Location 18: Steamboat Lane (Pedestrian Crossing)
- Location 21: Westrun Drive and Terrington Drive
- Location 22: Windcliffe Drive and Towercliffe Drive
- Location 23: Windcliffe Drive and Portwind Place
- Location 25: Oak Run Lane at New Ballwin Road (proposed “mid-block” pedestrian crossing; St. Louis County jurisdiction)
- Location 26: Del Ebro Drive and Nottingham Drive (proposed)



Phase 1 Recommendations

The following paragraphs include recommendations to improve compliance and safety at those thirteen locations where it is recommended that the existing signage should remain as well as recommendations for interim treatments at the remaining locations where an engineering study is recommended.

SIGNAGE CHANGES

Of the thirteen intersections where it is recommended that signage should remain, there are potential changes or improvements to the signage that could enhance compliance and safety.

- Location 4: Country Club Drive and Briarwyck Drive/Claymont Place Drive – school zone signage and/or treatments
- Location 6: Holloway Road and Kehrs Mill Road – LED-enhanced stop signs to additional legs of intersection where non-compliance continues to be an issue; increase sign sizes to 36"x36" on to multilane approaches
- Location 7: Holloway Road and Park Drive/Stoddards Mill Drive – adding LED-enhanced stop signs on Holloway Road approaches
- Location 8: Lark Hill Lane at Manchester Road – LED-enhanced stop sign on Lark Hill Lane approach
- Location 14: Ries Road and Ries Bend Road – the Yield sign for the channelized right-turn should be located on the RIGHT side of the roadway (it is located in the island to the left of the channelized travelway). Relocate the sign to the right side of the pavement. Consider LED-enhanced stop signs for the northbound and/or southbound approaches if compliance does not improve
- Location 16: Ries Road and Twigwood Drive/Caravel Court – increase sign sizes to 36"x36" on multi-lane approaches, install LED-enhanced stop sign on southbound approach
- Location 19: Steamboat Lane at Manchester Road – increase sign size to 36"x36" for multi-lane approach, install LED-enhanced stop sign
- Location 24: Ballwin Manor at Manchester Road – add stop sign (and stop bar striping) to Ballwin Manor approach



STRIPING CHANGES

Traffic control at several of the locations could be enhanced by adding or refreshing the roadway striping at the intersection. Lane markings and stop-bars provide another visual cue to drivers to slow and/or stop at an intersection and be aware of opposing traffic. Pedestrian crosswalks can enhance this effect by alerting drivers to a shared space while also providing facilities for non-motorized road users. Added or refreshed striping is suggested for the following study locations:

- Location 1: Ballpark Drive and Kehrs Mill Road – add a pedestrian crosswalk across the south leg
- Location 2: Castle Pines Drive and Castle Glen Court – add a pedestrian crosswalk across the north leg; consider adding a pedestrian ramp and crosswalk across the east leg
- Location 4: Country Club Drive and Briarwyck Drive/Claymont Place Drive – add pedestrian crosswalks across north and east legs of intersection and refresh existing striping, moving back stop bars and stop signs if necessary for new crosswalks
- Location 9: Lennox Drive and Mayfair Drive – add stop bars and centerline striping on all approaches
- Location 10: Oakwood Farms Lane and Jacob Lane – add stop bars on all approaches and centerline striping on Oakwood Farms Lane approaches
- Location 11: Oakwood Farms Lane and Oakbriar Farm Drive – add stop bars on all approaches and centerline striping on Oakwood Farms Lane approaches
- Location 12: Ramsey Lane and Vail Court – add stop bar and pedestrian crosswalk to east leg, refresh stop bar and centerline striping on Ramsey Lane
- Location 13: Ramsey Lane at Manchester Road – add pedestrian crossing and refresh stop bar across Ramsey Lane, moving back stop bar and stop sign if necessary for new crosswalk
- Location 14: Ries Bend Road at Ries Road – refresh existing crosswalk and stop-bar striping
- Location 15: Ries Bend Road at Ries Road – refresh existing crosswalk and stop-bar striping
- Location 20: Westglen Village Drive and Westrun Drive – add stop bars to Westrun Drive approaches, add crosswalks across all approaches
- Location 21: Westrun Drive and Terrington Drive – add stop bars to all approaches, add crosswalk across Terrington Drive approach, add centerline striping to Westrun Drive approaches
- Location 22: Windcliffe Drive and Towercliffe Drive – add stop bar to Towercliffe Drive
- Location 23: Windcliffe Drive and Portwind Place – add stop bars and centerline striping to Portwind Place approaches



Proposed Phase 2 Scope and Fee Estimate

Phase 2 of the Ballwin Signage Study will, therefore, include an engineering study to determine whether stop signage is warranted as it exists at thirteen of the study locations as listed in the previous section. These study locations are listed in **Table 2**, below. At each of these locations, the engineering studies will require site observations, traffic volume data collection, warrant analyses, and potentially operational analyses.

Table 2: Phase 2 Engineering Study Locations

Study Location	Sign ID	Main Road	Crossroad	Existing Geometry	Notes
3	661	Cleta Drive	Asilomar Court	3-way stop	on curve
5	2281 2283 2285	W. Skyline Drive	E. Skyline Drive	3-way stop	on curve
9	2260 2262	Mayfair Drive	Lennox Drive	4-way stop	cut-thru route?
10	2337	Oakwood Farms Ln.	Jacob Lane	3-way stop	
11	2339	Oakwood Farms Ln.	Oakbriar Farm Drive	4-way stop	
12	1103	Ramsey Lane	Vail Court	T-intersection; 2-way stop	NB (main) and WB (crossroad) stop only
17	775 781	Ries Road	Jefferson Avenue	3-way stop	Crosswalk on west leg; school to west
18	265 266	Steamboat Lane		Mid-block pedestrian crossing	Pool to east, apartments to west (busy crossing in summer); potential RRFB?
21	2523	Westrun Drive	Terrington Drive	3-way stop	bottom of two hills and on curve
22	571 575	Windcliffe Drive	Towercliffe Drive	3-way stop	
23	626	Windcliffe Drive	Portwind Place	3-way stop	
25	002	New Ballwin Road	Oak Run Lane	Mid-block pedestrian crossing	Resident request; park to east; under jurisdiction of St. Louis County
26	003	Del Ebro Drive	Nottingham Drive	T-intersection; 1 stop existing	Resident requested stop on 2 nd Del Ebro approach



Referring to the original plan for the overall Ballwin Signage Assessment project, Phase 2 is anticipated to include the tasks listed below. Data collection for the study sites will be the most significant task, ideally obtaining 24-hour counts of all traffic entering each of the thirteen locations. It is estimated that the data collection, evaluation, and documentation of the thirteen study locations (Tasks 1 – 5) will amount to approximately \$20,000 in total fee (not including the optional task), including \$6,500 for data collection. Development of a Policy Manual for the City (Tasks 6-7) is estimated to amount to \$5,000 in total fee.

PROPOSED PHASE 2 TASKS:

1. Kick-off meeting with City and Ballwin PD staff: review Phase 1, collect any additional or new information pertaining to Phase 2. Discuss preferences for governing Policy with City and PD staff including applicability of previous policy (approved February 1997) and related classification designations.
2. Collect traffic data (i.e. volume data) as specified in Phase 1 for individual site assessments.
3. Utilize guidance provided by the Manual on Uniform Traffic Control Devices (MUTCD), the Missouri Department of Transportation (MoDOT) Engineering Policy Guide (EPG), and St. Louis County Department of Transportation's Publications and Manuals to assess the individual site locations identified and prioritized in Phase 1. Perform traffic operational analyses as required for assessment. Consider geometric or other changes that would mitigate issues in addition to/in lieu of signage.
4. Summarize the methodology, findings, and recommendations for specified locations in a memorandum to be submitted to City staff. The summary will include any identified geometric modifications with estimated construction costs and implementation priorities.
5. Meet with City staff and Ballwin Police Department Traffic Safety Unit to discuss analysis findings, alternatives, and recommendations.
 - (Optional Task) If design modifications are identified, develop preliminary plans at high-priority locations.
6. Utilizing process and findings from Phase I, coordinate with Ballwin PD Traffic & Safety Unit and City staff to identify appropriate implementation strategies and alternatives. Identify any short- or long-term program goals for stop signage within the City.
7. Prepare a Final Report for submittal to the City documenting the final recommendations for stop sign strategies, including installation and potential enhancements and program goals and priorities where appropriate. Create a clear and concise policy (shelf reference document) for future stop signage implementation.



I trust you will find this report useful as a Phase 1 summary of existing conditions and concerns regarding City of Ballwin stop signage, short-term recommendations, and a scope for the second Phase of the project to confirm long-term solutions. Please contact me at carrie@tsquaredtt.com or by phone at 314.375.3748. should you have any questions or comments regarding this documentation.

Sincerely,

Carrie A. Falkehrath, PE, PTOE, PTP, RSP
Principal Transportation Engineer

DRAFT



APPENDIX A

Ballwin Police Department R1-1 "Stop" Sign Inventory,
Flagged Installations Highlighted

DRAFT

2019 Stop Sign Locations

KEY: RED = High Crash Location YELLOW = High Violation Rate GREEN = Not a Useful Location

ID	Ward	Sign Placement Road:	Address	Cross Road	Sign Type	MUTCD	Ord.	Dir.	Sheeting	Owner	W.	H.	PostType	Replace
887	3	AGEAN WAY		HENRY AVE	Regulatory	R1-1	Schedule D	E	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
2001	3	ALGONQUIN DR		CLAYMONT DR	Regulatory	R1-1	Schedule E	SE	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2016	3	ALGONQUIN DR		CLAYMONT DR	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	Street Light	2020
2512	4	ALVERSTON CT		WESTRUN DR	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
2514	4	ALVERSTON CT		WESTRUN DR	Regulatory	R1-1	Schedule E	SW	EGP Type I	City	30	30	Tele Spar	
2516	4	ALVERSTON CT		RICHLAND MEADOWS DR	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	U-Channel	2025
2518	4	ALVERSTON CT	426		Regulatory	R1-1	Schedule E	SE	HIP 3M Type III & IV	City	30	30	U-Channel	2025
592	1	AMBER JACK DR		BREEZEVUE DR	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	U-Channel	
2264	2	ANDANTE DR		CAMARGO DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2383	3	ANDOVER LN		ALGONQUIN DR	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	Tele Spar	2023
183	1	ANDREWS PARK WAY		SEVEN TRAILS DR	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	Tele Spar	2026
221	1	ANDREWS PARK WAY		BALLPARK DR	Regulatory	R1-1	Schedule E	E	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2317	2	APPLEGATE LN		BIRCHWOOD DR	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	U-Channel	2021
2045	4	APPLESTONE DR		TWIGWOOD DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2020
668	1	ASILOMAR CT		CLETA DR	Regulatory	R1-1	Schedule E	SW	EGP Type I	City	30	30	U-Channel	
2349	2	ASPEN VILLAGE DR		WESTGLEN VILLAGE DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2353	2	ASPEN VILLAGE DR		REINKE RD	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	Round	2020
2032	3	BABERTON DR		CLAYMONT DR	Regulatory	R1-1	Schedule E	NE	EGP Type I	City	30	30	Tele Spar	
297	1	BALLPARK DR		KEHRS MILL RD	Regulatory	R1-1	Schedule D	S	HIP 3M Type III & IV	City	30	30	U-Channel	2020
440	1	BALLPARK DR		JEFFERSON AVE	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2020
801	1	BALLWIN COMMONS CIR		OLD BALLWIN RD	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
1126	1	BALLWIN COMMONS CIR		BALLWIN COMMONS DR	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	Round	
806	1	BALLWIN COMMONS DR		OLD BALLWIN RD	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
1108	1	BALLWIN COMMONS DR		RAMSEY LN	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	U-Channel	
4026	1	BALLWIN ESTATES CT		RIES BEND RD	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	Tele Spar	2024
2070	4	BALLWOOD DR		TWIGWOOD DR	Regulatory	R1-1	Schedule E	NE	EGP Type I	City	30	30	Tele Spar	
518	1	BARKER CT		BARKER LN	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2022
751	1	BARKER LN		RIES RD	Regulatory	R1-1	Schedule D	SE	EGP Type I	City	30	30	U-Channel	
864	2	BARTON LN		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	E	EGP Type I	City	30	30	Tele Spar	
2962	2	BIRCHWOOD DR		MANCHESTER RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	City	36	36	Tele Spar	
921	3	BITTERFIELD DR		HENRY AVE	Regulatory	R1-1	Schedule D	NE	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
924	3	BITTERFIELD DR		HENRY AVE	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
2537	4	BITTERWOOD DR		GOLFWOOD DR	Regulatory	R1-1	Schedule E	SW	EGP Type I	City	30	30	U-Channel	
2539	4	BITTERWOOD DR		GOLFWOOD DR	Regulatory	R1-1	Schedule E	NE	EGP Type I	City	30	30	U-Channel	
2404	2	BLUE RIDGE PLACE CT		KEHRS MILL RD	Regulatory	R1-1	Schedule D	NE	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
4	1	BRASS LAMP DR		FOREST LEAF DR	Regulatory	R1-1	Schedule E	E	HIP 3M Type III & IV	City	30	30	U-Channel	2022

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2231	3	BRASS LAMP DR		BRIGHTSPUR LN	Regulatory	R1-1	Schedule E	SW	EGP Type I	City	30	30	U-Channel	
567	1	BREEZVIEW DR		WINDCLIFFE DR	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
2048	4	BRIARHILL CT	477	TWIGWOOD DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2091	4	BRIARHILL CT	502	TWIGWOOD DR	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2378	3	BRIARWYCK DR		COUNTRY CLUB DR	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	Street Light	2020
2272	2	BRIDGEPORT DR		NANTUCKET DR	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City	30	30	U-Channel	2021
81	1	BRIGHT MEADOWS DR		CLEAR MEADOWS DR	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
663	1	BRIGHTFIELD DR		ASILOMAR CT	Regulatory	R1-1	Schedule E	SE	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2223	3	BRIGHTSPUR LN		BRASS LAMP DR	Regulatory	R1-1	Schedule E	NW	EGP Type I	City	30	30	U-Channel	
2227	3	BRIGHTSPUR LN		GLENMEADOW DR	Regulatory	R1-1	Schedule E	SE	EGP Type I	City	30	30	Round	
762	1	BROOKSIDE LN		RIES RD	Regulatory	R1-1	Schedule D	SE	HIP 3M Type III & IV	City	30	30	U-Channel	2025
2390	3	BURLINGTON MILL DR		WINDSOR MILL DR	Regulatory	R1-1	Schedule E	NW	EGP Type I	City	30	30	U-Channel	
2168	2	BURTONWOOD DR		HILLSDALE DR	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City	30	30	U-Channel	2025
2309	2	BURTONWOOD DR		MIMOSA LN	Regulatory	R1-1	Schedule E	E	HIP 3M Type III & IV	City	30	30	Street Light	2025
2311	2	BURTONWOOD DR		PORTSDOWN RD	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	Tele Spar	2021
2313	2	BURTONWOOD DR		PORTSDOWN RD	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	U-Channel	2021
1106	1	BUSH DR	228	RAMSEY LN	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
1109	1	BUSH DR		RAMSEY LN	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
245	2	CAMARGO DR		DEL EBRO DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2021
2250	2	CAPITOL LANDING DR		WETHERBURN RD	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	U-Channel	
2252	2	CAPITOL LANDING DR	2404		Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	Street Light	2025
698	1	CARAVEL CT		RIES RD	Regulatory	R1-1	Schedule D	E	HIP 3M Type III & IV	City	30	30	Street Light	2020
2322	2	CARINA CT		KYLEMORE DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	Tele Spar	2026
964	4	CASTLE GLEN CT		CASTLE PINES DR	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	Tele Spar	2022
2688	4	CASTLE MEADOWS CT		CASTLE PINES DR	Regulatory	R1-1	Schedule E	SE	HIP 3M Type III & IV	City	30	30	Round	2021
2686	4	CASTLE PINES CT		WESTGLEN VILLAGE DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2021
962	4	CASTLE PINES DR		CASTLE GLEN CT	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	U-Channel	2022
963	4	CASTLE PINES DR		CASTLE GLEN CT	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City	30	30	U-Channel	2022
2687	4	CASTLE PINES DR		WESTGLEN VILLAGE DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	Tele Spar	2021
965	4	CASTLE RIDGE DR		CASTLE PINES DR	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	U-Channel	2022
2684	4	CEDAR RUN DR		RUSTIC VALLEY DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	Round	2021
2178	2	CENTER CT		HILLSDALE DR	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	U-Channel	
2302	2	CENTER CT		HIGHVIEW DR	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
2403	2	CHURCHILL LN		KEHRS MILL RD	Regulatory	R1-1	Schedule D	NE	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
3521	3	CLAYMONT COURT CIR		CLAYTON RD	Regulatory	R1-1	Schedule D	S	HIP 3M Type III & IV	County	36	36	Tele Spar	
2122	3	CLAYMONT DR		CLAYTON RD	Regulatory	R1-1	Schedule D	SE	HIP 3M Type III & IV	County	36	36	Tele Spar	2020
2125	3	CLAYMONT DR		BAXTER RD	Regulatory	R1-1	Schedule D	W	HIP 3M Type III & IV	County	30	30	Round	2020
2377	3	CLAYMONT PLACE DR		COUNTRY CLUB DR	Regulatory	R1-1	Schedule E	E	HIP 3M Type III & IV	City	30	30	Street Light	2020
881	3	CLAYTON CORNERS DR		HENRY AVE	Regulatory	R1-1	Schedule D	SE	EGP Type I	City	30	30	Round	

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3524	3	CLAYTON MEADOWS CT		CLAYTON RD	Regulatory	R1-1	Schedule D	S	HIP 3M Type III & IV	County	36	36	Tele Spar	
2277	2	CLAYTON RIDGE DR		KEHRS MILL RD	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	City	36	36	Tele Spar	2020
914	3	CLAYWORTH DR		HENRY AVE	Regulatory	R1-1	Schedule D	NE	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
918	3	CLAYWORTH DR		HENRY AVE	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
91	1	CLEAR MEADOWS DR		SHADY MEADOWS DR	Regulatory	R1-1	Schedule E	E	HIP 3M Type III & IV	City	30	30	U-Channel	2020
97	1	CLEAR MEADOWS DR		SHADY MEADOWS DR	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	U-Channel	2020
425	1	CLEAR MEADOWS DR		HOLLOWAY RD	Regulatory	R1-1	Schedule D	E	HIP 3M Type III & IV	City	30	30	U-Channel	2020
3895	1	CLEAR MEADOWS DR		BAXTER RD	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	County	30	30	Street Light	
655	1	CLETA CT		CLETA DR	Regulatory	R1-1	Schedule E	E	HIP 3M Type III & IV	City	30	30	Tele Spar	2025
661	1	CLETA DR		ASILOMAR CT	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	U-Channel	2020
706	1	CLETA DR		RIES RD	Regulatory	R1-1	Schedule D	E	EGP Type I	City	30	30	Tele Spar	
1125	1	COACHGATE CT		BALLWIN COMMONS DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	Cast Iron	2024
1205	1	COACHGATE LN	241	COACHGATE CT	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	Cast Iron	2024
1208	1	COACHGATE LN	200	COACHGATE CT	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	Cast Iron	2024
2326	2	COLUMBARD DR		PALM BAY DR	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	U-Channel	
2959	2	CORAL TER		MANCHESTER RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	City	30	30	Tele Spar	
2175	2	CORONET DR		HILLSDALE DR	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	U-Channel	
2300	2	CORONET DR		HIGHVIEW DR	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
2023	3	COUNTRY CLUB DR		CLAYMONT DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
2375	3	COUNTRY CLUB DR		BRIARWYCK DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2376	3	COUNTRY CLUB DR		CLAYMONT PLACE DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2379	3	COUNTRY CLUB DR		KENILWORTH LN	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2380	3	COUNTRY CLUB DR		KENILWORTH LN	Regulatory	R1-1	Schedule E	SE	HIP 3M Type III & IV	City	30	30	U-Channel	2020
3496	3	COUNTRY CLUB DR		CLAYTON RD	Regulatory	R1-1	Schedule D	S	HIP 3M Type III & IV	County	36	36	Tele Spar	
127	1	COUNTRY CREEK CT		SPRING OAKS DR	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	U-Channel	
2051	4	COUNTRY DOWNS DR		TWIGWOOD DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	
2671	4	COVENANT PLACE CT		RIES RD	Regulatory	R1-1	Schedule D	W	EGP Type I	City	30	30	U-Channel	
2293	2	CRESTLAND DR		W SKYLINE DR	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	U-Channel	
2294	2	CRESTLAND DR		W SKYLINE DR	Regulatory	R1-1	Schedule E	SE	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2254	2	CYPRESS TRACE CT		WESTPAR DR	Regulatory	R1-1	Schedule E	SE	HIP 3M Type III & IV	City	30	30	Street Light	2020
2256	2	CYPRESS TRACE DR		WESTPAR DR	Regulatory	R1-1	Schedule E	NW	EGP Type I	City	30	30	Tele Spar	
4025	1	DAVID HARRISON LN		RIES BEND RD	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	Tele Spar	2024
860	2	DEBULA DR		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	W	EGP Type I	City	30	30	Tele Spar	
2267	2	DEL EBRO DR		NOTTINGHAM DR	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	U-Channel	2024
877	2	DENNISON DR		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	E	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
527	1	DICKENS FARM LN		RIES BEND RD	Regulatory	R1-1	Schedule E	SE	HIP 3M Type III & IV	City	30	30	Round	2026
2054	4	DOWN HILL DR		TWIGWOOD DR	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	U-Channel	
2248	2	DOWNALL GREEN DR		WETHERBURN RD	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	U-Channel	
899	3	DUTCH MILL DR		HENRY AVE	Regulatory	R1-1	Schedule D	E	HIP 3M Type III & IV	City	30	30	U-Channel	2020

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2140	3	DUTCH MILL DR		HOLLYRIDGE DR	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2155	3	DUTCH MILL DR		HOLLYRIDGE DR	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
2280	2	E SKYLINE DR		KEHRS MILL RD	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2281	2	E SKYLINE DR		W SKYLINE DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2024
2283	2	E SKYLINE DR	278	W SKYLINE DR	Regulatory	R1-1	Schedule E	SE	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2682	4	ECHO HILL CT		RUSTIC VALLEY DR	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	Tele Spar	2021
2057	4	ECHO HILL DR		TWIGWOOD DR	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	U-Channel	2020
768	1	ESSEN LN		RIES RD	Regulatory	R1-1	Schedule D	NW	HIP 3M Type III & IV	City	30	30	U-Channel	2020
3969	2	ESSEN PLACE DR		KEHRS MILL RD	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	City	30	30	U-Channel	2023
2385	3	ESSEX MILL DR		HOLLOWAY RD	Regulatory	R1-1	Schedule D	W	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2063	4	FAR HILL DR		TWIGWOOD DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2439	4	FERRIS PARK		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	E	HIP 3M Type III & IV	City	30	30	U-Channel	2021
1	1	FOREST LEAF DR		BRASS LAMP DR	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	U-Channel	
6	1	FOREST LEAF DR		BRASS LAMP DR	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
3901	1	FOREST LEAF DR		BAXTER RD	Regulatory	R1-1	Schedule D	NE	HIP 3M Type III & IV	County	30	30	U-Channel	
2359	2	FOX BRIAR LN		REINKE RD	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2691	4	FOX DEN DR		OLD BALLWIN RD	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
2357	2	FOX HOLLOW WOODS DR		REINKE RD	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
2348	2	FOX VILLAGE CT		WESTGLEN VILLAGE DR	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	Round	2020
2288	2	GANAHL DR		W SKYLINE DR	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	Tele Spar	
2154	3	GARDENWAY DR		DUTCH MILL DR	Regulatory	R1-1	Schedule E	NE	EGP Type I	City	30	30	Tele Spar	
2246	2	GEREMMA DR		KEHRS MILL RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
902	3	GLENMEADOW DR		HENRY AVE	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	City	30	30	Street Light	2020
2229	3	GLENMEADOW DR		BRIGHTSPUR LN	Regulatory	R1-1	Schedule E	NE	EGP Type I	City	30	30	U-Channel	
2184	3	GLENN DR		KEHRS MILL RD	Regulatory	R1-1	Schedule D	NE	HIP 3M Type III & IV	City	30	30	U-Channel	2020
241	4	GOLDWOOD DR		STATEWOOD DR	Regulatory	R1-1	Schedule E	E	HIP 3M Type III & IV	City	30	30	Round	2022
2538	4	GOLFWOOD DR		BITTERWOOD DR	Regulatory	R1-1	Schedule E	SE	EGP Type I	City	30	30	U-Channel	
2540	4	GOLFWOOD DR		BITTERWOOD DR	Regulatory	R1-1	Schedule E	NW	EGP Type I	City	30	30	U-Channel	
2664	3	GRAYWOOD DR		SPRING MEADOWS DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	Round	2021
2066	4	GREAT HILL DR	439	TWIGWOOD DR	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	Round	2020
2082	4	GREAT HILL DR		TWIGWOOD DR	Regulatory	R1-1	Schedule E	SE	Engineer Grade	City	30	30	U-Channel	
2206	3	GREEN LANTERN LN		MILLDALE DR	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	U-Channel	
2207	3	GREEN LANTERN LN		MILLDALE DR	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
2035	3	GREENBRIAR LN		CLAYMONT DR	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	U-Channel	2020
3438	3	GREENBRIAR LN		CLAYTON RD	Regulatory	R1-1	Schedule D	SE	HIP 3M Type III & IV	County	36	36	Tele Spar	
3910	1	GREENMORE DR		BAXTER RD	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	County	30	30	Round	
3913	1	GREENMORE DR		BAXTER RD	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	County	30	30	Round	
905	3	GUENEVERE DR		HENRY AVE	Regulatory	R1-1	Schedule D	NE	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
3532	3	HATTERAS DR		CLAYTON RD	Regulatory	R1-1	Schedule D	S	HIP 3M Type III & IV	County	36	36	Wood	

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3385	3	HENRY AVE			Regulatory	R1-1	Schedule E	E	EGP Type I	Parkway	30	30	Tele Spar	
884	3	HENRY OAKS CT		HENRY AVE	Regulatory	R1-1	Schedule D	E	EGP Type I	City	30	30	Tele Spar	
86	1	HIGH MEADOWS DR		CLEAR MEADOWS DR	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
3359	3	HIGHLAND RIDGE DR		CLAYTON RD	Regulatory	R1-1	Schedule D	S	HIP 3M Type III & IV	County	36	36	Wood	
1052	2	HIGHVIEW DR		MANCHESTER RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	City	30	30	Tele Spar	2022
973	3	HILL TRAIL DR		WILDWOOD PKWY	Regulatory	R1-1	Schedule E	SE	HIP 3M Type III & IV	City	30	30	Tele Spar	2022
2101	3	HILL TRAIL DR		WILDWOOD PKWY	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	U-Channel	
2110	3	HILL TRAIL DR		WILDWOOD PKWY	Regulatory	R1-1	Schedule E	NW	EGP Type I	City	30	30	U-Channel	
2117	3	HILL TRAIL DR		BAXTER RD	Regulatory	R1-1	Schedule D	NE	HIP 3M Type III & IV	County	30	30	Street Light	2020
2218	3	HILLBROOK DR		GLENMEADOW DR	Regulatory	R1-1	Schedule E	NW	EGP Type I	City	30	30	U-Channel	
2219	3	HILLBROOK DR		GLENMEADOW DR	Regulatory	R1-1	Schedule E	SE	EGP Type I	City	30	30	U-Channel	
2180	2	HILLSDALE DR		MANCHESTER RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	City	36	36	Tele Spar	2025
391	1	HOLLOWAY RD		KEHRS MILL RD	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	City	30	30	Tele Spar	2022
396	1	HOLLOWAY RD		PARK DR	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City	30	30	U-Channel	2022
2397	3	HOLLOWAY RD		STODDARDS MILL DR	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	U-Channel	2022
2654	3	HOLLOWAY RD		KEHRS MILL RD	Regulatory	R1-1	Schedule D	NE	HIP 3M Type III & IV	City	30	30	Tele Spar	2026
407	1	HOLLOWAY RIDGE CT		HOLLOWAY RD	Regulatory	R1-1	Schedule D	E	EGP Type I	City	30	30	Tele Spar	
710	1	HOLLY GREEN DR		RIES RD	Regulatory	R1-1	Schedule D	E	EGP Type I	City	30	30	Street Light	
637	1	HOLLY HAVEN DR		HOLLY GREEN DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	2022
692	1	HOLLYLEAF DR		RIES RD	Regulatory	R1-1	Schedule D	E	HIP 3M Type III & IV	City	30	30	U-Channel	2022
2144	3	HOLLYRIDGE DR		DUTCH MILL DR	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City	30	30	Tele Spar	2023
2157	3	HOLLYRIDGE DR		DUTCH MILL DR	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	U-Channel	
2161	3	HOLLYRIDGE DR		DUTCH MILL DR	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	U-Channel	2020
1111	1	HOWARD DR		RAMSEY LN	Regulatory	R1-1	Schedule E	NE	EGP Type I	City	30	30	U-Channel	
2279	2	HUNTLEIGH DR		SUNSET DR	Regulatory	R1-1	Schedule E	NW	EGP Type I	City	30	30	U-Channel	
3332	3	IRON LANTERN DR		CLAYTON RD	Regulatory	R1-1	Schedule D	S	HIP 3M Type III & IV	County	36	36	U-Channel	
2338	2	JACOB LN		OAKWOOD FARMS LN	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	2020
551	1	JASMIN PARK CT		RIES BEND RD	Regulatory	R1-1	Schedule E	NE	EGP Type I	City	30	30	Tele Spar	
443	1	JEFFERSON AVE		BALLPARK DR	Regulatory	R1-1	Schedule E	W	Engineer Grade	City	30	30	U-Channel	
446	1	JEFFERSON AVE		BALLPARK DR	Regulatory	R1-1	Schedule E	S	Engineer Grade	City	30	30	Street Light	
450	1	JEFFERSON AVE		BALLPARK DR	Regulatory	R1-1	Schedule E	E	HIP 3M Type III & IV	City	30	30	U-Channel	2020
779	1	JEFFERSON AVE		RIES RD	Regulatory	R1-1	Schedule D	NW	HIP 3M Type III & IV	City	30	30	U-Channel	2020
1110	1	JOYCE CT		RAMSEY LN	Regulatory	R1-1	Schedule E	SW	EGP Type I	City	30	30	U-Channel	
291	1	KEHRS MILL BEND DR		KEHRS MILL RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	City	30	30	Tele Spar	2022
285	1	KEHRS MILL RD		HOLLOWAY RD	Regulatory	R1-1	Schedule D	W	HIP 3M Type III & IV	City	30	30	Street Light	2020
295	1	KEHRS MILL RD		BALLPARK DR	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	U-Channel	2020
435	1	KEHRS MILL RD		HOLLOWAY RD	Regulatory	R1-1	Schedule D	SE	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
294	1	KEHRS MILL TRL		KEHRS MILL RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	City	30	30	U-Channel	2022
2381	3	KENILWORTH LN		COUNTRY CLUB DR	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	Street Light	2024

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2382	3	KENILWORTH LN		COUNTRY CLUB DR	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City	30	30	Round	2020
893	3	KINGRIDGE DR		HENRY AVE	Regulatory	R1-1	Schedule D	W	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
2318	2	KYLEMORE DR			Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
2320	2	KYLEMORE DR		CARINA CT	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	U-Channel	
2324	2	KYLEMORE DR		COLUMBARD DR	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	U-Channel	
3096	2	KYLEMORE DR		REINKE RD	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	Round	
1993	3	LAKEWOOD LN		CLAYMONT DR	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City	30	30	U-Channel	2020
3861	1	LARK HILL LN		MANCHESTER RD	Regulatory	R1-1	Schedule D	S	HIP 3M Type III & IV	City	36	36	Tele Spar	2024
2260	2	LENNOX DR		MAYFAIR DR	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	U-Channel	2021
2262	2	LENNOX DR		MAYFAIR DR	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City	30	30	U-Channel	2021
2269	2	LENNOX DR		BEDFORD LN	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	U-Channel	2021
2270	2	LERING DR		LERING CT	Regulatory	R1-1	Schedule E	E	HIP 3M Type III & IV	City	30	30	Round	2020
2374	3	LEXBRIDGE LN		KENILWORTH LN	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
2287	2	LINDELL DR		E SKYLINE DR	Regulatory	R1-1	Schedule E	NW	EGP Type I	City	30	30	U-Channel	
2289	2	LINDELL DR	802	W SKYLINE DR	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	Tele Spar	
2290	2	LINDELL DR		W SKYLINE DR	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
509	1	LOCK DR		MANCHESTER RD	Regulatory	R1-1	Schedule D	N	EGP Type I	City	30	30	U-Channel	
1159	2	LOG HILL LN		KEHRS MILL RD	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
2950	2	LOG HILL LN		LUCERNE PLACE DR	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	Tele Spar	2026
3873	3	LONDONDARY DR		CLAYTON RD	Regulatory	R1-1	Schedule D	S	HIP 3M Type III & IV	County	36	36	Tele Spar	
280	1	LUCERNE CROSSING CT		KEHRS MILL RD	Regulatory	R1-1	Schedule D	S	EGP Type I	City	30	30	Tele Spar	
2369	2	LUCERNE PLACE DR		KEHRS MILL RD	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2675	4	MADRINA CT		RIES RD	Regulatory	R1-1	Schedule D	W	EGP Type I	City	30	30	Round	
2334	2	MAEVE CT		PALM BAY DR	Regulatory	R1-1	Schedule E	SW	EGP Type I	City	30	30	Tele Spar	
709	1	MAGNOLIA TRACE DR		RIES RD	Regulatory	R1-1	Schedule D	E	EGP Type I	City	30	30	Round	
3286	3	MANSIONHILL DR		WOODS MILL RD	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	Tele Spar	2023
2678	4	MARK WESLEY LN		RIES RD	Regulatory	R1-1	Schedule D	W	EGP Type I	City	30	30	Cast Iron	
2258	2	MAYFAIR DR		NOTTINGHAM DR	Regulatory	R1-1	Schedule E	SE	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2261	2	MAYFAIR DR		LENNOX DR	Regulatory	R1-1	Schedule E	SE	EGP Type I	City	30	30	U-Channel	
2263	2	MAYFAIR DR		LENNOX DR	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	U-Channel	2021
2665	3	MAYMONT DR		SPRING MEADOWS DR	Regulatory	R1-1	Schedule E	NW	EGP Type I	City	30	30	Round	
966	3	MEADOWBROOK COUNTRY CLUB EST	12		Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
967	3	MEADOWBROOK COUNTRY CLUB EST	11		Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	U-Channel	2022
968	3	MEADOWBROOK COUNTRY CLUB EST	19		Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2022
969	3	MEADOWBROOK COUNTRY CLUB EST	28		Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	2022
970	3	MEADOWBROOK COUNTRY CLUB EST			Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	U-Channel	2022
971	3	MEADOWBROOK COUNTRY CLUB EST	200		Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	U-Channel	2022
3423	3	MEADOWBROOK COUNTRY CLUB EST		KEHRS MILL RD	Regulatory	R1-1	Schedule D	E	HIP 3M Type III & IV	County	30	30	Round	
3428	3	MEADOWBROOK COUNTRY CLUB EST		CLAYTON RD	Regulatory	R1-1	Schedule D	NW	HIP 3M Type III & IV	County	36	36	Tele Spar	

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3431	3	MEADOWBROOK DR		CLAYTON RD	Regulatory	R1-1	Schedule D	S	HIP 3M Type III & IV	County	36	36	Tele Spar	
2672	4	MELANIE MEADOWS LN		RIES RD	Regulatory	R1-1	Schedule D	W	EGP Type I	City	30	30	Tele Spar	
3526	3	MERCER MANOR DR		CLAYTON RD	Regulatory	R1-1	Schedule D	S	HIP 3M Type III & IV	County	36	36	Tele Spar	
499	3	MILLDALE DR		GARDENWAY DR	Regulatory	R1-1	Schedule E	NE	EGP Type I	City	30	30	Round	
2303	2	MIMOSA LN		BURTONWOOD DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2305	2	MIMOSA LN			Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2307	2	MIMOSA LN		PORTSDOWN RD	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2885	2	MIMOSA LN		MANCHESTER RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	City	36	36	Tele Spar	
2265	2	MORENA CT		DEL EBRO DR	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	U-Channel	
2266	2	MORENA CT		DEL EBRO DR	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
2661	3	MOREWOOD CT		BRASS LAMP DR	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	Round	
2662	3	MOREWOOD CT		BRASS LAMP DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	Tele Spar	2021
896	3	MUIR VIEW DR		HENRY AVE	Regulatory	R1-1	Schedule D	E	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
3863	1	N ELM ST		MANCHESTER RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	City	30	30	Tele Spar	
2361	2	NANCY PL		DENNISON DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2026
2363	2	NANCY PL		OLD BALLWIN RD	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	U-Channel	
2271	2	NANTUCKET DR		PROVIDENCE RD	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City	30	30	Street Light	2021
2274	2	NANTUCKET DR		PROVIDENCE RD	Regulatory	R1-1	Schedule E	NW	EGP Type I	City	30	30	U-Channel	
587	1	NASSAU WAY		BREEZEVUE DR	Regulatory	R1-1	Schedule E	SW	EGP Type I	City	30	30	U-Channel	
3705	4	NEW BALLWIN OAKS DR		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	NW	HIP 3M Type III & IV	County	30	30	Tele Spar	
2257	2	NOTTINGHAM DR		MAYFAIR DR	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2259	2	NOTTINGHAM DR		MAYFAIR DR	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2268	2	NOTTINGHAM DR		BEDFORD LN	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	U-Channel	2021
2347	2	OAK BOROUGH DR		OAKMONT FARM DR	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	Round	
3710	4	OAK COMMONS DR		BIG BEND RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	County	30	30	U-Channel	
3718	4	OAK LEAF MANOR CT		BIG BEND RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	County	30	30	Round	
137	1	OAK PASS CT		SPRING OAKS DR	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
3650	4	OAK RUN LN		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	W	HIP 3M Type III & IV	County	30	30	U-Channel	
2341	2	OAKBRIAR FARM DR		OAKWOOD FARMS LN	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2342	2	OAKBRIAR FARM DR		OAKWOOD FARMS LN	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2343	2	OAKBRIAR FARM DR		COLUMBARD DR	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
2344	2	OAKBRIAR FARM DR		OAKMONT FARM DR	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	Round	
2345	2	OAKMONT FARM DR		OAK BOROUGH DR	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	U-Channel	2026
2346	2	OAKMONT FARM DR	300		Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
2336	2	OAKWOOD FARMS LN	989		Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
2337	2	OAKWOOD FARMS LN		JACOB LN	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2339	2	OAKWOOD FARMS LN		OAKBRIAR FARM DR	Regulatory	R1-1	Schedule E	E	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2340	2	OAKWOOD FARMS LN		OAKBRIAR FARM DR	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	U-Channel	2020
3161	2	OAKWOOD FARMS LN		REINKE RD	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	Round	

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684	1	OLD BALLWIN RD		MANCHESTER RD	Regulatory	R1-1	Schedule D	S	HIP 3M Type III & IV	City	30	30	Tele Spar	2022
2663	3	OLD OAKS DR		HIGHLAND RIDGE DR	Regulatory	R1-1	Schedule E	SE	HIP 3M Type III & IV	City	30	30	U-Channel	2023
911	3	ORKNEY CT		HENRY AVE	Regulatory	R1-1	Schedule D	NE	EGP Type I	City	30	30	Tele Spar	
2328	2	PALM BAY DR	963		Regulatory	R1-1	Schedule E	SE	EGP Type I	City	30	30	U-Channel	
2330	2	PALM BAY DR		MAEVE CT	Regulatory	R1-1	Schedule E	NW	EGP Type I	City	30	30	U-Channel	
2332	2	PALM BAY DR	931		Regulatory	R1-1	Schedule E	SE	EGP Type I	City	30	30	U-Channel	
3115	2	PALM BAY DR		REINKE RD	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	Round	
211	1	PARK DR		ANDREWS PARK WAY	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2020
400	1	PARK DR		HOLLOWAY RD	Regulatory	R1-1	Schedule D	SE	HIP 3M Type III & IV	City	30	30	Street Light	2020
870	2	PARKER DR		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	E	EGP Type I	City	30	30	Tele Spar	
2362	2	PARKER DR		OLD BALLWIN RD	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	U-Channel	
2679	4	PINE HOLLOW CT		RIES RD	Regulatory	R1-1	Schedule D	W	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
2187	2	PLEASANT GROVE AVE		KEHRS MILL RD	Regulatory	R1-1	Schedule D	NE	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
4091	1	POINTE LANSING CT		BARKER LN	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	Tele Spar	2025
2191	2	POINTE LUCERNE CT		KEHRS MILL RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
2315	2	PORTSDOWN RD		BURTONWOOD DR	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	U-Channel	2021
622	1	PORTWIND PL		WINDCLIFFE DR	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	U-Channel	
624	1	PORTWIND PL		WINDCLIFFE DR	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
3089	2	QUAIL VILLAGE CT		FOX VILLAGE CT	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	Round	2024
3539	3	QUINNMOOR DR		BAXTER RD	Regulatory	R1-1	Schedule D	W	HIP 3M Type III & IV	County	30	30	Round	
1107	1	RADFORD LN		RAMSEY LN	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
735	1	RAMSEY LN		RIES RD	Regulatory	R1-1	Schedule D	NW	EGP Type I	City	30	30	U-Channel	
1103	1	RAMSEY LN	220	VAIL CT	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	Street Light	
1172	1	RAMSEY LN		MANCHESTER RD	Regulatory	R1-1	Schedule D	S	EGP Type I	City	30	30	Tele Spar	
2292	2	RAUSCHER DR		W SKYLINE DR	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	U-Channel	
874	2	REDSTART DR		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	W	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
2673	4	REMINGTON PLACE DR		RIES RD	Regulatory	R1-1	Schedule D	W	EGP Type I	City	30	30	Street Light	
2660	2	RENEHALE DR		PLEASANT GROVE AVE	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
486	1	RETHMEIER DR		ESSEN LN	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
2517	4	RICHLAND MEADOWS DR		ALVERSTON CT	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City	30	30	Tele Spar	2025
3623	4	RICHLAND MEADOWS DR		KIEFER CREEK RD	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	County	30	30	Round	
723	1	RIES BEND RD		RIES RD	Regulatory	R1-1	Schedule D	E	EGP Type I	City	30	30	U-Channel	
741	1	RIES BEND RD		RIES RD	Regulatory	R1-1	Schedule D	SE	HIP 3M Type III & IV	City	30	30	U-Channel	2020
766	1	RIES CT		RIES RD	Regulatory	R1-1	Schedule D	NW	EGP Type I	City	30	30	U-Channel	
696	1	RIES RD		CARAVEL CT	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	2020
719	1	RIES RD		RIES BEND RD	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
731	1	RIES RD		RIES BEND RD	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City	30	30	U-Channel	2020
737	1	RIES RD		RAMSEY LN	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	U-Channel	2020
775	1	RIES RD		JEFFERSON AVE	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City			U-Channel	2020

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781	1	RIES RD		JEFFERSON AVE	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2541	4	RIES RD		TWIGWOOD DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
2674	4	RIES RD		MADRINA CT	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	U-Channel	
367	1	ROBIN HILL LN		LARK HILL LN	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	Round	
867	2	ROJEAN DR		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	W	EGP Type I	City	30	30	Tele Spar	
568	1	ROYAL OAKS DR		WINDCLIFFE DR	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
890	3	RUE MONTAND DR		HENRY AVE	Regulatory	R1-1	Schedule D	E	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
2535	4	RUNNING CREEK DR		RUSTIC VALLEY DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	Round	
2683	4	RUSTIC VALLEY CT		RUSTIC VALLEY DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2021
2087	4	RUSTIC VALLEY DR		TWIGWOOD DR	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City	30	30	Street Light	
2533	4	RUSTIC VALLEY DR	675		Regulatory	R1-1	Schedule E	E	HIP 3M Type III & IV	City	30	30	U-Channel	
2534	4	RUSTIC VALLEY DR		RUNNING CREEK DR	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	U-Channel	
825	1	SEAWIND DR		OLD BALLWIN RD	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
1098	1	SEAWIND DR		RAMSEY LN	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	Street Light	
89	1	SHADY MEADOWS DR		CLEAR MEADOWS DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2022
95	1	SHADY MEADOWS DR		CLEAR MEADOWS DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	2020
3904	1	SHADY MEADOWS DR		BAXTER RD	Regulatory	R1-1	Schedule D	NE	HIP 3M Type III & IV	County	30	30	Round	
3907	1	SHADY MEADOWS DR		BAXTER RD	Regulatory	R1-1	Schedule D	S	HIP 3M Type III & IV	County	30	30	Round	
650	1	SHANDRA DR		CLETA DR	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
3866	1	SHIRLEY LN		MANCHESTER RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	City	30	30	Wood	
3733	4	SHOWPLACE CT		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	NE	HIP 3M Type III & IV	County	30	30	Round	
1124	1	OLON DR		BALLWIN COMMONS DR	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	U-Channel	
2393	3	SPRAGUES MILL CT		STODDARDS MILL DR	Regulatory	R1-1	Schedule E	NE	EGP Type I	City	30	30	U-Channel	
908	3	SPRING MEADOWS DR		HENRY AVE	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
131	1	SPRING OAKS DR	259	OAK PASS CT	Regulatory	R1-1	Schedule E	E	HIP 3M Type III & IV	City	30	30	U-Channel	2025
133	1	SPRING OAKS DR		OAK PASS CT	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	U-Channel	2025
416	1	SPRING OAKS DR		HOLLOWAY RD	Regulatory	R1-1	Schedule D	SE	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2205	3	ST ANDREWS CT		HOLLOWAY RD	Regulatory	R1-1	Schedule D	W	EGP Type I	City	30	30	U-Channel	
810	1	ST JOSEPHS DR		OLD BALLWIN RD	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
817	1	ST MARYS DR		OLD BALLWIN RD	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
236	4	STATEWOOD DR		GOLDWOOD DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	Tele Spar	
239	4	STATEWOOD DR		GOLDWOOD DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	
2073	4	STATEWOOD DR		TWIGWOOD DR	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	Tele Spar	2023
265	1	STEAMBOAT LN			Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	
266	1	STEAMBOAT LN			Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	
272	1	STEAMBOAT LN		KEHRS MILL RD	Regulatory	R1-1	Schedule D	S	HIP 3M Type III & IV	City	30	30	Tele Spar	2023
2200	1	STEAMBOAT LN		MANCHESTER RD	Regulatory	R1-1	Schedule D	N	Engineer Grade	City	30	30	Tele Spar	
2399	3	STODDARDS MILL DR		HOLLOWAY RD	Regulatory	R1-1	Schedule D	NW	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2291	2	STREIFF LN		W SKYLINE DR	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	U-Channel	

2019 Stop Sign Locations

1996	3	SUDBURY LN		CLAYMONT DR	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
2038	3	SUDBURY LN	341	CLAYMONT DR	Regulatory	R1-1	Schedule E	NW	EGP Type I	City	30	30	Street Light	
2428	3	SUDBURY LN	323	KEHRS MILL RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	City	30	30	U-Channel	2020
1179	1	SUNNYSIDE CT		MANCHESTER RD	Regulatory	R1-1	Schedule D	S	EGP Type I	City	30	30	Tele Spar	
2028	3	SUNNYSLOPE DR		CLAYMONT DR	Regulatory	R1-1	Schedule E	NE	EGP Type I	City	30	30	Tele Spar	
563	1	SUNRISE BLVD		WINDCLIFFE DR	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	
2278	2	SUNSET DR		CRESTLAND DR	Regulatory	R1-1	Schedule E	SE	EGP Type I	City	30	30	U-Channel	
2364	2	SUNSET DR		KEHRS MILL RD	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
3316	3	SUNSET FOREST CT		HENRY AVE	Regulatory	R1-1	Schedule D	W	HIP 3M Type III & IV	City	30	30	Round	
2666	3	SUNSTONE DR		SPRING MEADOWS DR	Regulatory	R1-1	Schedule E	NW	EGP Type I	City	30	30	U-Channel	
2676	4	TALBERT CT		RIES RD	Regulatory	R1-1	Schedule D	W	EGP Type I	City	30	30	Street Light	
4024	1	TALL TIMBER MEADOWS DR		RIES BEND RD	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	Street Light	2024
718	1	TARA RIDGE CT		RIES RD	Regulatory	R1-1	Schedule D	E	EGP Type I	City	30	30	U-Channel	
2521	4	TERRINGTON DR		WESTRUN DR	Regulatory	R1-1	Schedule E	SW	EGP Type I	City	30	30	Tele Spar	
1170	1	TIMKA DR		MANCHESTER RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	City	36	36	Tele Spar	
573	1	TOWERCLIFFE DR		WINDCLIFFE DR	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	U-Channel	
3544	4	TRAGO CREEK DR		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	W	HIP 3M Type III & IV	County	30	30	Street Light	
2132	3	TRAILWOOD DR		WILDWOOD PKWY	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	Round	
616	1	TREASURE COVE		TOWERCLIFFE DR	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	U-Channel	
2076	4	TURFWOOD DR		TWIGWOOD DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	
2059	4	TWIGWOOD DR		ECHO HILL DR	Regulatory	R1-1	Schedule E	SE	HIP 3M Type III & IV	City	30	30	U-Channel	2024
2083	4	TWIGWOOD DR		RUSTIC VALLEY DR	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	U-Channel	
2094	4	TWIGWOOD DR		RIES RD	Regulatory	R1-1	Schedule D	W	HIP 3M Type III & IV	City	30	30	Round	
1102	1	VAIL CT		RAMSEY LN	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
2677	4	VALLEY MANOR DR		RIES RD	Regulatory	R1-1	Schedule D	W	HIP 3M Type III & IV	City	30	30	Street Light	2026
2681	4	VERNAL HILL CT		RUSTIC VALLEY DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	Street Light	2021
2358	2	VICTORIA POINTE CT		REINKE RD	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	Round	
2354	2	VILLAGE CREEK CT		REINKE RD	Regulatory	R1-1	Schedule E	N	EGP Type I	City	30	30	Round	
2355	2	VILLAGE CREEK DR		REINKE RD	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2972	2	VLASIS DR		MANCHESTER RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	City	36	36	Tele Spar	
248	1	W ORCHARD AVE		BALLPARK DR	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	Tele Spar	2026
389	1	W ORCHARD AVE		HOLLOWAY RD	Regulatory	R1-1	Schedule D	E	EGP Type I	City	30	30	U-Channel	
2285	2	W SKYLINE DR		E SKYLINE DR	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	U-Channel	2024
2685	4	WALNUT POINT CT		RUSTIC VALLEY DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	Round	2021
2275	2	WARWICK LN		NANTUCKET DR	Regulatory	R1-1	Schedule E	NE	EGP Type I	City	30	30	U-Channel	
2438	2	WESTGLEN VILLAGE DR		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	W	HIP 3M Type III & IV	County	30	30	Round	2021
2524	4	WESTGLEN VILLAGE DR		WEST RUN DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	
2526	4	WESTGLEN VILLAGE DR		WESTRUN DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	
2253	2	WESTPAR DR		CYPRESS TRACE CT	Regulatory	R1-1	Schedule E	S	EGP Type I	City	30	30	U-Channel	

2019 Stop Sign Locations

2255	2	WESTPAR DR		CYPRESS TRACE DR	Regulatory	R1-1	Schedule E	NE	EGP Type I	City	30	30	U-Channel	
2513	4	WESTRUN DR		ALVERSTON CT	Regulatory	R1-1	Schedule E	NW	HIP 3M Type III & IV	City	30	30	U-Channel	
2515	4	WESTRUN DR		ALVERSTON CT	Regulatory	R1-1	Schedule E	SE	HIP 3M Type III & IV	City	30	30	U-Channel	
2520	4	WESTRUN DR	935		Regulatory	R1-1	Schedule E	SE	HIP 3M Type III & IV	City	30	30	U-Channel	
2523	4	WESTRUN DR		TERRINGTON DR	Regulatory	R1-1	Schedule E	NW	EGP Type I	City	30	30	U-Channel	
2525	4	WESTRUN DR		WESTGLEN VILLAGE DR	Regulatory	R1-1	Schedule E	E	HIP 3M Type III & IV	City	30	30	Tele Spar	
2527	4	WESTRUN DR		WESTGLEN VILLAGE DR	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	U-Channel	
972	3	WESTWOOD DR		CLAYMONT DR	Regulatory	R1-1	Schedule E	NE	HIP 3M Type III & IV	City	30	30	U-Channel	2022
1987	3	WESTWOOD DR		CLAYMONT DR	Regulatory	R1-1	Schedule E	W	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2370	3	WESTWOOD DR		MEADOWBROOK DR	Regulatory	R1-1	Schedule E	NE	EGP Type I	City	30	30	U-Channel	
2247	2	WETHERBURN RD	15966		Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	U-Channel	
2249	2	WETHERBURN RD		DOWNALL GREEN DR	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
2251	2	WETHERBURN RD		CAPITOL LANDING DR	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	U-Channel	
3656	4	WHISPERING FOREST DR		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	W	HIP 3M Type III & IV	County	30	30	Round	
2195	2	WHITE ACRE CT		KEHRS MILL RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
2199	2	WHITE TREE LN		KEHRS MILL RD	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
2201	2	WHITE TREE LN		KEHRS MILL RD	Regulatory	R1-1	Schedule D	NE	HIP 3M Type III & IV	City	30	30	Tele Spar	2020
3709	4	WILDFLOWER CT		BIG BEND RD	Regulatory	R1-1	Schedule D	N	HIP 3M Type III & IV	County	30	30	Round	
2137	3	WILDWOOD PKWY		BAXTER RD	Regulatory	R1-1	Schedule D	E	HIP 3M Type III & IV	County	30	30	Round	
545	1	WINDCLIFFE DR		RIES BEND RD	Regulatory	R1-1	Schedule E	E	HIP 3M Type III & IV	City	30	30	U-Channel	2020
571	1	WINDCLIFFE DR		TOWERCLIFFE DR	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	U-Channel	
575	1	WINDCLIFFE DR		TOWERCLIFFE DR	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	U-Channel	
626	1	WINDCLIFFE DR		PORTWIND PL	Regulatory	R1-1	Schedule E	W	EGP Type I	City	30	30	U-Channel	
2148	3	WINDMILL DR		DUTCH MILL DR	Regulatory	R1-1	Schedule E	S	HIP 3M Type III & IV	City	30	30	U-Channel	
2151	3	WINDMILL DR		DUTCH MILL DR	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	
2392	3	WINDSOR MILL DR		MONROE MILL DR	Regulatory	R1-1	Schedule E	E	EGP Type I	City	30	30	Round	
2356	2	WINDY ACRES ESTATES DR		REINKE RD	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	Round	2023
482	1	WOERTHER LN		ESSEN LN	Regulatory	R1-1	Schedule E	N	HIP 3M Type III & IV	City	30	30	U-Channel	2021
1990	3	WOODRUFF DR		CLAYMONT DR	Regulatory	R1-1	Schedule E	SW	HIP 3M Type III & IV	City	30	30	U-Channel	2020
2371	3	WOODRUFF DR		MEADOWBROOK DR	Regulatory	R1-1	Schedule E	NE	EGP Type I	City	30	30	Tele Spar	
3552	4	WOODRUN CT		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	E	HIP 3M Type III & IV	County	30	30	Round	
3876	4	WOODRUN DR		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	W	HIP 3M Type III & IV	County	30	30	Round	
3699	4	WOODSIDE TRAILS DR		NEW BALLWIN RD	Regulatory	R1-1	Schedule D	SW	HIP 3M Type III & IV	County	30	30	Round	

NOTE: Ramsey and Ballwin Commons is not reflected due to it being a temporary location, but is in need of assessment for possible perminate signage



APPENDIX B

City of Ballwin Official Policy: Stop Sign Installation

DRAFT

This policy establishes warrants that must be met to justify the installation of stop signs on city-maintained streets. Requests for stop signs on city-maintained streets shall be submitted in writing to the City Administrator. Upon receipt of the request, the Police and Public Works Departments will determine if the location satisfies these warrants.

SECTION 1 - CLASSIFICATIONS:

Federal, State and County Roadway Systems:

Streets maintained by the United States Government, State of Missouri, or St. Louis County.

City Arterial Roadway Systems:

Streets or combinations of street segments that intersect a Federal, State, County or other local arterial roadway at each end, but not the same street, and where parking is prohibited.

Collector Roadway Systems:

Streets or combination of street segments of streets that intersect a Federal, State, County, or other local arterial roadway at each end (but not the same street) and where parking is allowed.

Residential Streets:

All other streets whose purpose is to serve the adjoining properties or other subdivision streets.

SECTION 2 - STOP SIGN WARRANTS:

Federal, State, County and City Arterial Roadway Systems:

Warrants established by the appropriate agency (Manual of Uniform Traffic Control Devices).

Collector Roadway Systems:

The Chief of Police and the City Engineer shall determine if the following warrants have been satisfied and prepare a joint recommendation.

1. Federal warrants for stop sign installation contained in the Manual of Uniform Traffic Control Devices shall be met.
2. Existing conditions meet the federal warrants listed in the Manual of Uniform Traffic Control Devices, or
3. Accident history at the intersection in question for the current year and the year just past reflects three (3) or more reported accidents of the type susceptible to correction by the installation of a stop sign, including right and left turn and right angle collisions indicate an accident problem, or
4. Where the application of the normal right-of-way yield is unduly hazardous due to a sight distance problem, or
5. Where other concerns are expressed by the City Engineer following an engineering study of the location in question, and where installation of a stop sign is determined to be the appropriate action. Traffic volumes shall be considered if the volumes on the lessor, or cross street, exceeds 50% of the volume on the City arterial or collector roadway.

Residential streets:

Residential stop signs will be considered if the following conditions are met:

1. An accident problem exists, as indicated by five or more reported accidents of a type susceptible to correction by a multiway stop installation occurring within a 12-month period. Such accidents include right and left-turn collisions as well as right-angle collisions.

OR

2. These minimum traffic volumes exist:

- (a) The total vehicular volume entering the intersection from all approaches must average at least 500 vehicles per hour for any 8 hours of an average day, and
- (b) The combined vehicular and pedestrian volume from the minor street or highway must average at least 200 units per hour for the same 8 hours, with an average delay to minor street vehicular traffic of at least 30 seconds per vehicle during the maximum hour, but
- (c) When the 85-percentile approach speed of the major traffic exceeds 40 miles per hour, the minimum vehicular volume warrant is 70 percent of the above requirements.

3. A field investigation by staff is conducted to validate enforcement and physical factors, such as sight visibility.
4. A petition of support is presented to the City Clerk indicating that a significant number of property owners or residents who may be affected by the stop signs are supportive of this measure.

OR

5. Notwithstanding the above, the Board of Aldermen reserves the right to consider stop sign requests based on unique factors such as significant pedestrian activity, proximity of other traffic control devices and/or overriding safety considerations. Approval requires a super majority affirmative vote of the Board of Aldermen.

SECTION 3 - DESIGNATIONS:

Federal, State, and County Roadway Systems:

Manchester Road (MO Route 100), Clayton Road, Baxter Road, New Ballwin Road (south of Twigwood Drive) and Oak Street.

City Arterial Roadway Systems:

Holloway Road, Kehrs Mill Road, Henry Road, Steamboat Lane, Hillsdale Drive, West Skyline Drive, Ries Road, Ramsey Lane, Old Ballwin Road, New Ballwin Road, and Reinke Road.

Collector Roadway Systems:

Castle Pines Dr./Ct., Mayfair Drive (between Clayton Road and Nottingham Drive), Nottingham Drive (between Mayfair Drive and Del Ebro Drive), Del Ebro (between Nottingham Drive and Kehrs Mill Road), Claymont Drive, Sudbury Drive, Greenbriar Drive, Country Club Drive, Clear Meadows Drive, Hill Trail Drive, Wildwood Parkway, Trail Wood Drive, Old Oaks Drive, Iron Lantern Drive, Gatehall Drive (between Iron Lantern Drive and Henry Road), Forest Leaf Drive (between Baxter Road and Brass Lamp Drive), Brass Lamp Drive, Spring Meadows Drive, Clayworth Drive, Shady Meadows Drive, Seven Trails Drive, Dutch Mill Drive, Windcliffe Drive, Towercliffe Drive, Portwind Drive (between Windcliffe Drive and Treasure Cove), Treasure Cove, Cleta Drive, Twigwood Drive, Rustic Valley Drive, Westglen Village Drive, Westrun Drive, Aspen Village Drive, Woodrun Drive (between Westrun Drive and New Ballwin Road), St. Joseph Drive, Ballwin Commons Drive, Mimosa Drive, Burtonwood Drive, and Portsdown Drive (between Mimosa Drive and Burtonwood Drive).

Residential streets: All other streets.

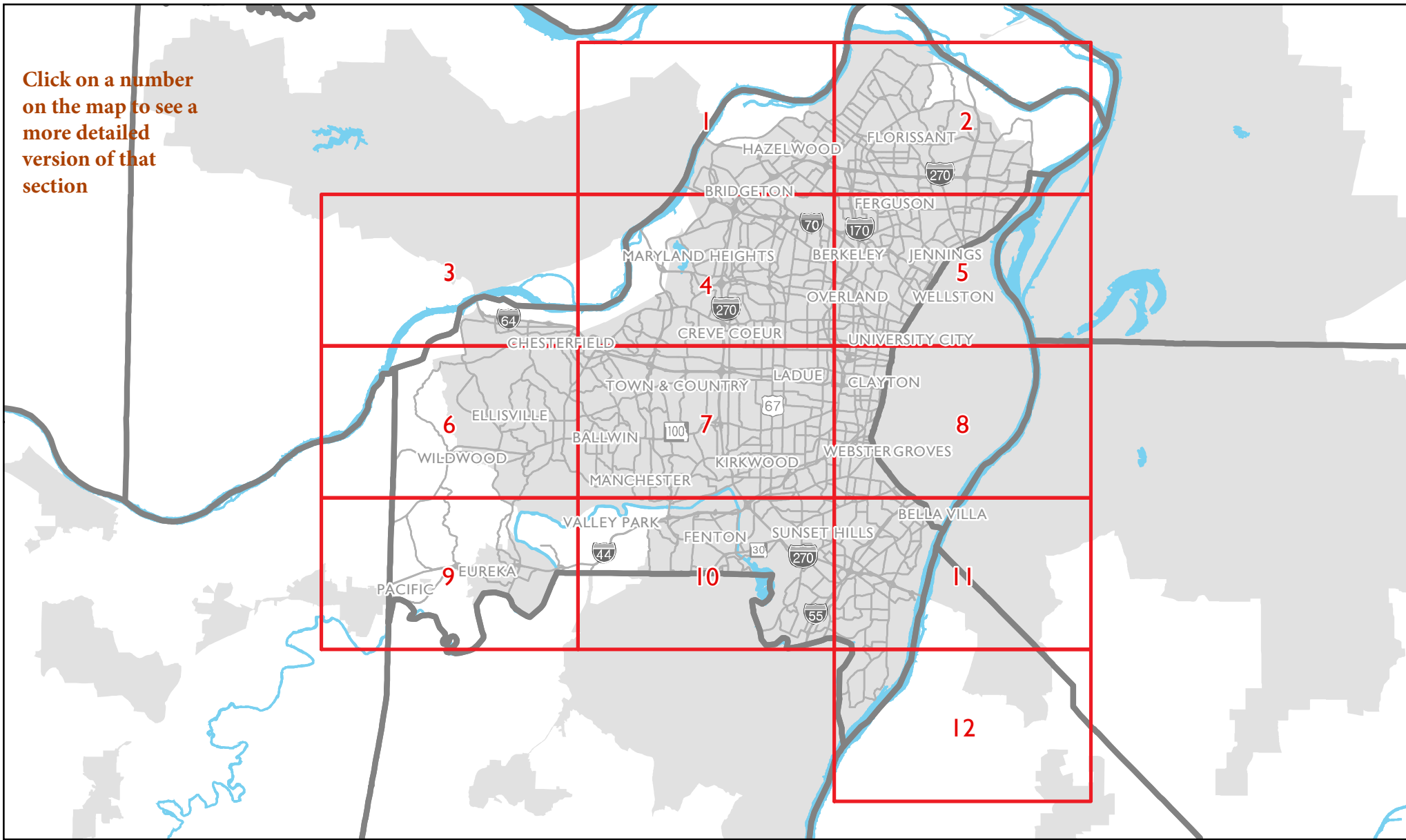


APPENDIX C






East-West Gateway Council of Governments Functional Classification Maps
Ballwin area

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Click on a number on the map to see a more detailed version of that section



St. Louis County, Missouri
Index of
Functional Classification Maps
August 2019

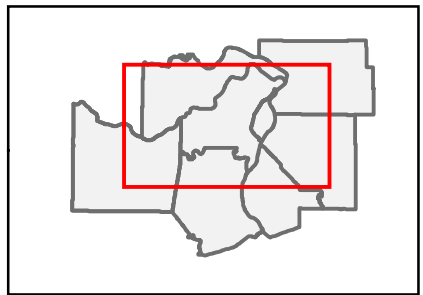
-  Map Index
-  County Boundary
-  Urban Area Boundary
-  Functionally Classified Roads
-  River or Lake

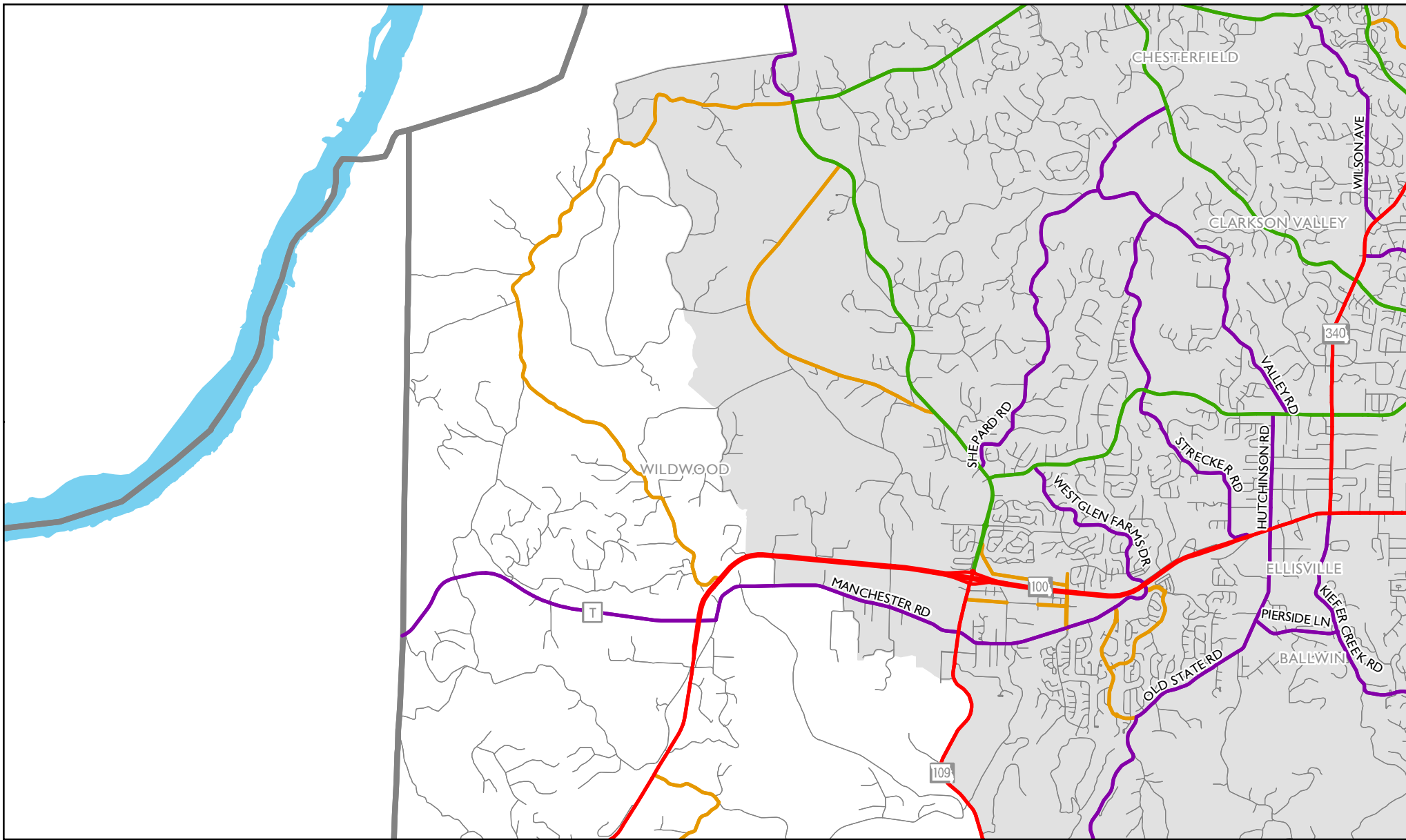


EAST-WEST GATEWAY
Council of Governments





Miles





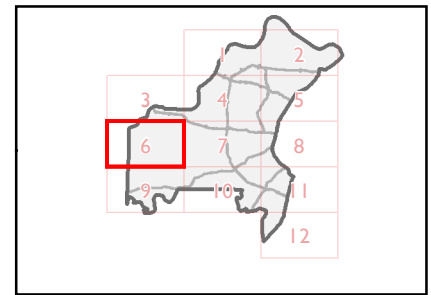
Map 6 of 12
 St. Louis County, Missouri
 August 2019

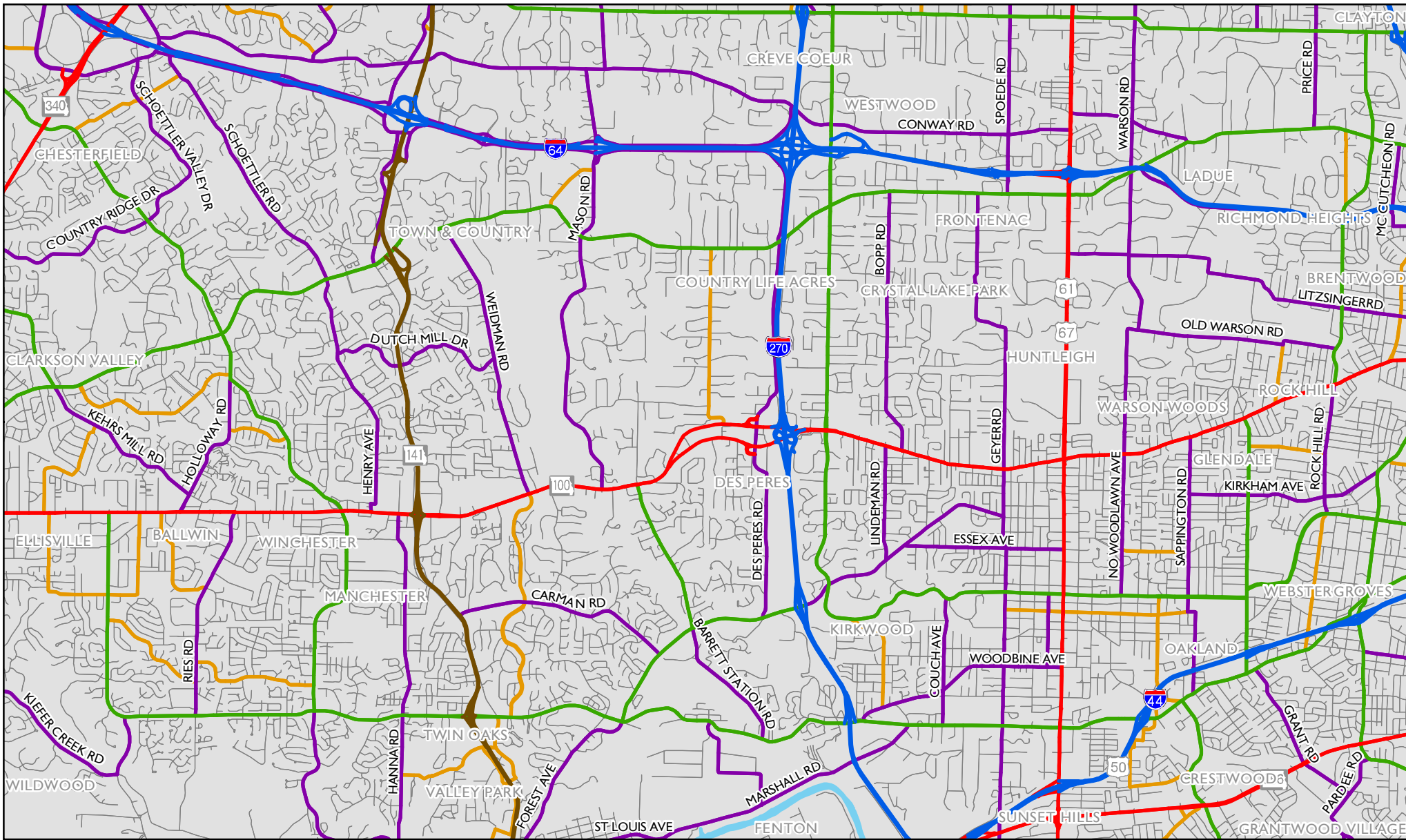
- Interstate
- Expressway
- Principal Arterial
- Minor Arterial
- Major Collector
- Minor Collector
- Local Road

-  County Boundary
-  Urban Area Boundary



FHWA Approval
 August 29, 2019





Map 7 of 12
 St. Louis County, Missouri
 August 2019

- Interstate
- Expressway
- Principal Arterial
- Minor Arterial
- Major Collector
- Minor Collector
- Local Road

- County Boundary
- Urban Area Boundary



EAST-WEST GATEWAY
 Council of Governments

FHWA Approval
 August 29, 2019

