

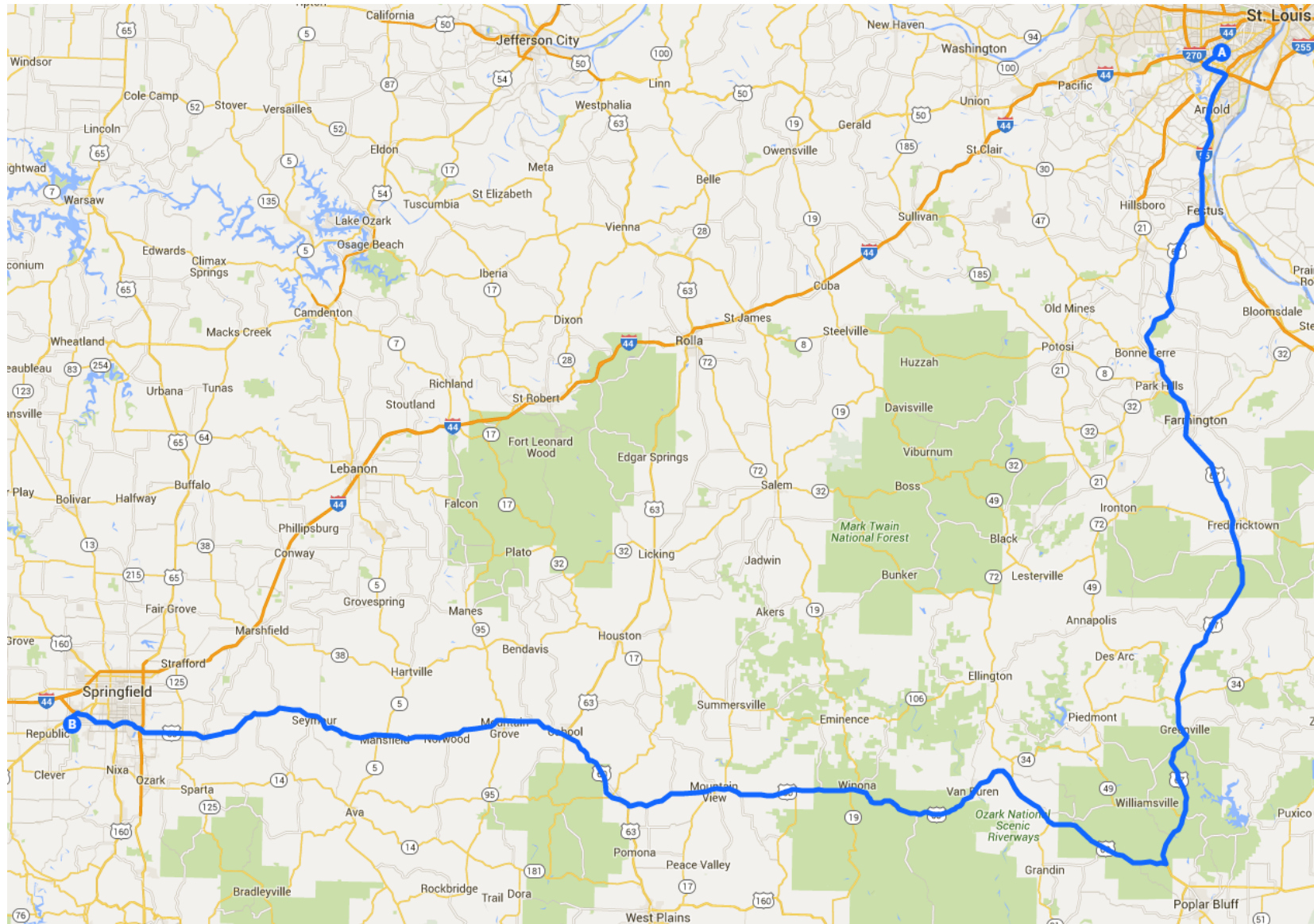
# **STAGE 2**

# **PART B**

**2016 AMERICAN SOLAR CHALLENGE**

**St. Louis, MO – Republic, MO**

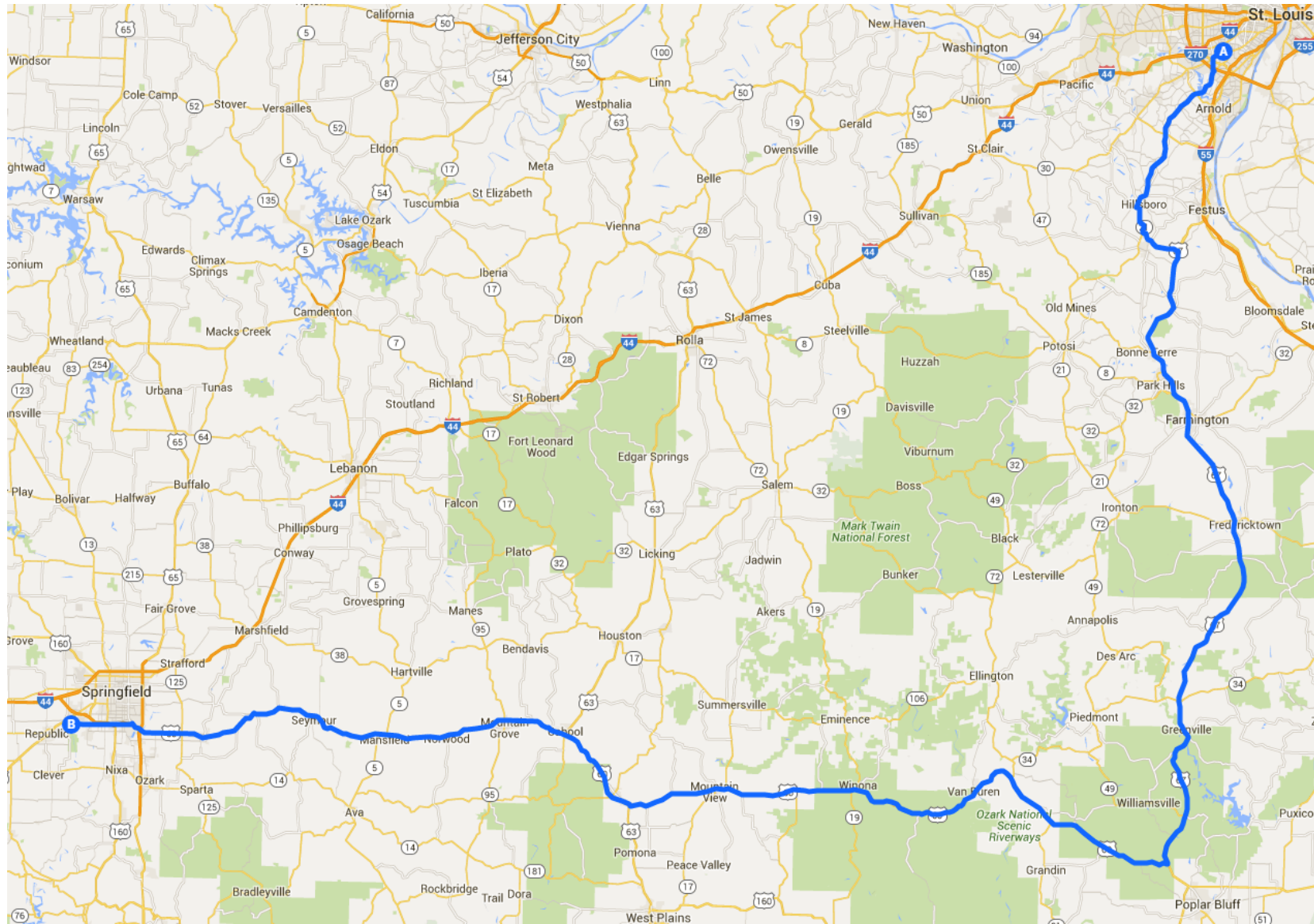
## SUPPORT VEHICLE ROUTE OVERVIEW



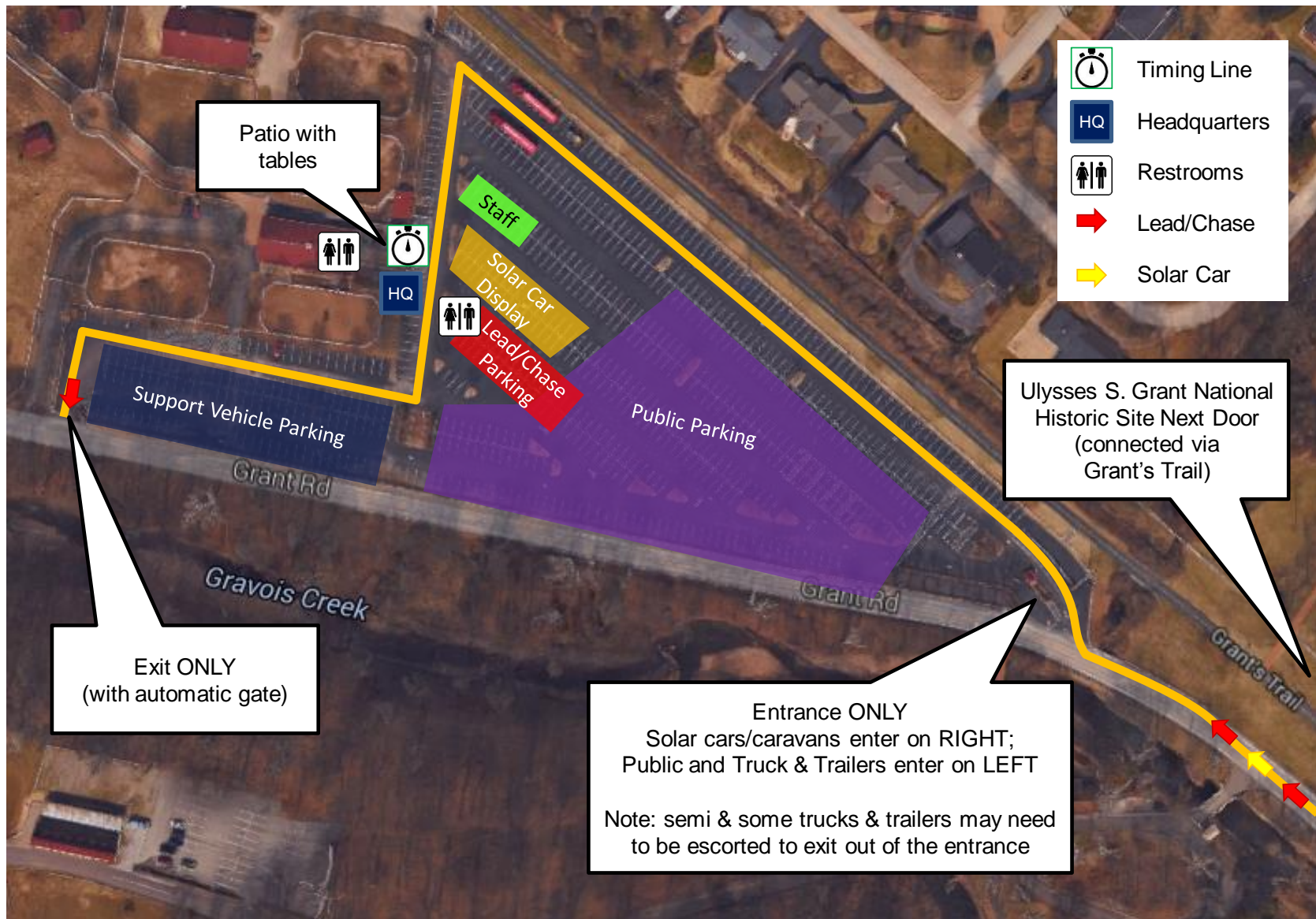
## SUPPORT VEHICLE ROUTE (NOT SOLAR CAR ROUTE!)

Step	Direction	Interval
1.	Exit the checkpoint and head southeast on Grant Rd	
2.	Turn right onto Gravois Rd	0.3 mi
3.	Turn left to merge onto I-270 S	3.2 mi
4.	Take exit 1A for Interstate 55 S toward Memphis	3.1 mi
5.	Merge onto I-55 S	0.7 mi
6.	Take exit 174B to merge onto US-67 S toward Bonne Terre/Farmington Note: Will join up with solar car route in approximately 6.5 miles at Step D39. US-67 and US-60 are 4-lane divided highways, but still take care to not impede solar car caravans – make sure your CB is working!	21.7 mi
7.	Take the US-60 W ramp to Van Buren/Springfield/Ozark National Scenic Riverways/Branson	108 mi
8.	Continue onto US-60 W	0.2 mi
9.	Slight right onto US-60 W/US-63 N. Continue to follow US-60 W	90.1 mi
10.	Take the MO-413/Springfield/Republic exit toward US 60 W	91.9 mi
11.	Turn left onto MO-413 S/US-60 W/W Sunshine St (signs for Republic) Continue to follow MO-413 S/US-60 W	0.2 mi
12.	Turn left onto W Republic Rd/W State Hwy M	2.0 mi
13.	Turn right onto Wilson's Creek Blvd	0.8 mi
14.	Turn left into the high school parking lot and follow signs to parking area.	0.2 mi

## SOLAR CAR ROUTE OVERVIEW

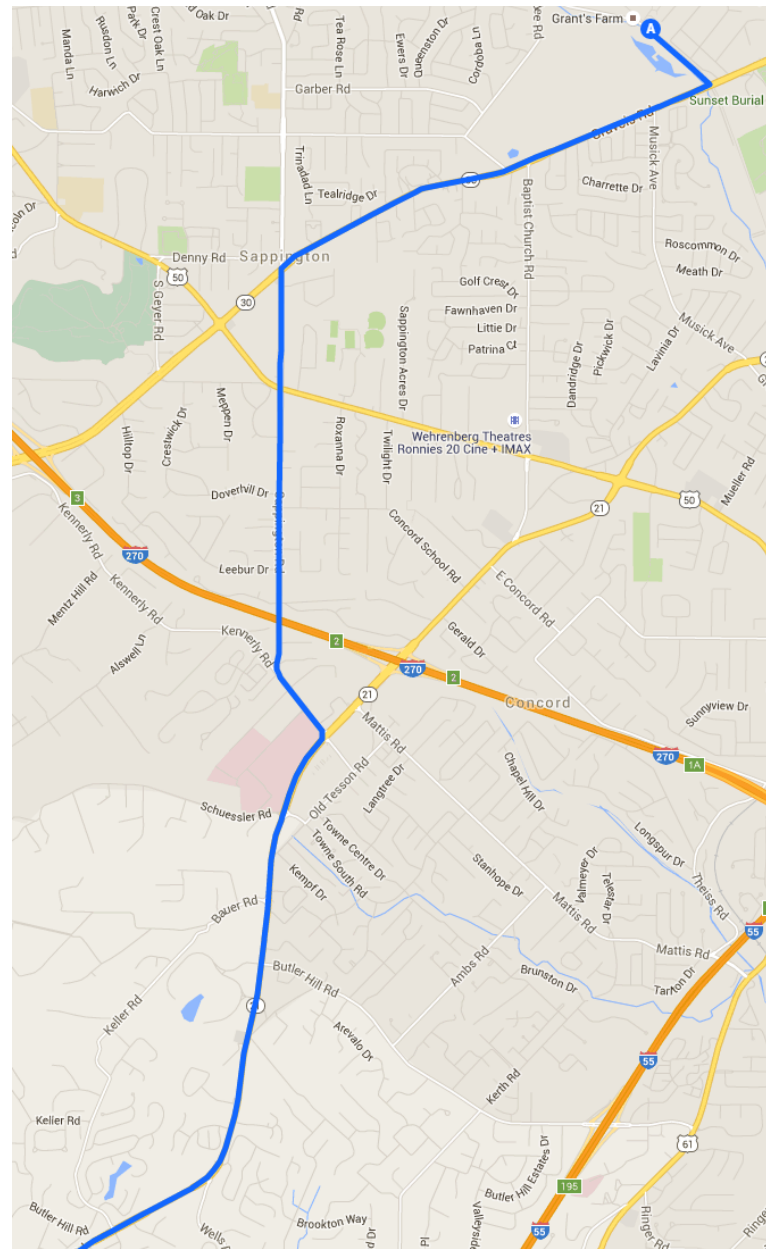






## Grant's Farm Checkpoint – St. Louis, MO – Checkpoint Detail





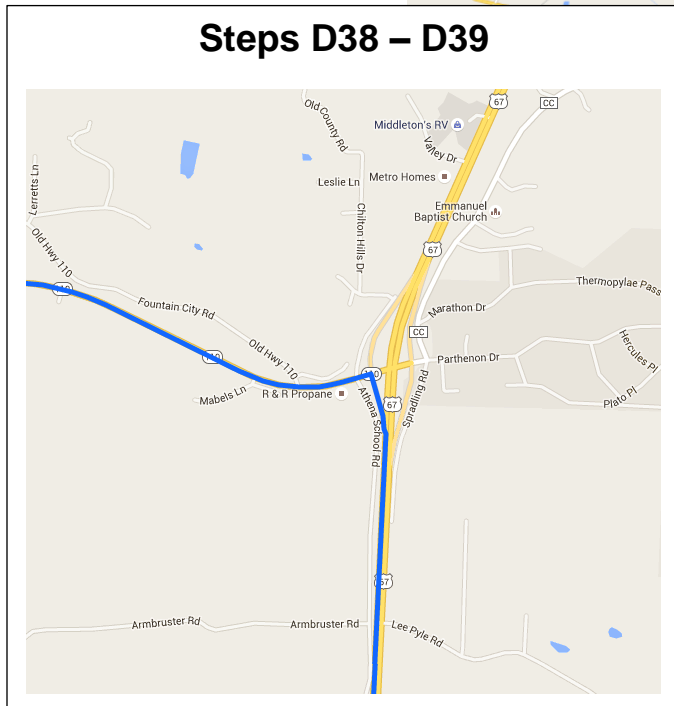
Step	Trip	Int	Major Turns/Instructions	Landmarks/Notes	Ln	Spd	Shoulder	Services
D 1			Turn left out of the parking lot		1	30	none	
D 2	0.00		Crosswalk at the entrance to the checkpoint parking lot	Zero odometer here				
D 3	0.40	0.40	Turn right at the SL onto Gravois Rd		2	40	paved/ curb	
D 4	0.70	0.30		SL for Musick Ave				
D 5	1.20	0.50		SL for Baptist Church Rd				
D 6	1.35	0.15		SL for Eddie And Park Rd				
D 7	2.40	1.05	Turn left at SL for Sappington Rd		2	35	curb	fuel
D 8	2.90	0.50	Right lane ends after the SL	SL	1	35		
D 9	4.00	1.10		SL for Kennerly Rd	2	35	curb	
D 10	4.20	0.20		SL for hospital on right				
D 11	4.40	0.20	Turn right at the SL onto Tesson Ferry Rd		2	45	paved	
D 12	4.70	0.30		SL for Schuessler Rd/Towne South Rd				fuel, food
D 13	5.10	0.40		SL for Bauer Rd				
D 14	5.30	0.20		SL for Butler Hill Rd				fuel
D 15	5.50	0.20		SL for Old Tesson Ferry Rd				
D 16	5.80	0.30		Flashing yellow for fire station on right				
D 17	6.70	0.90		SL for Suson Hills Drive				





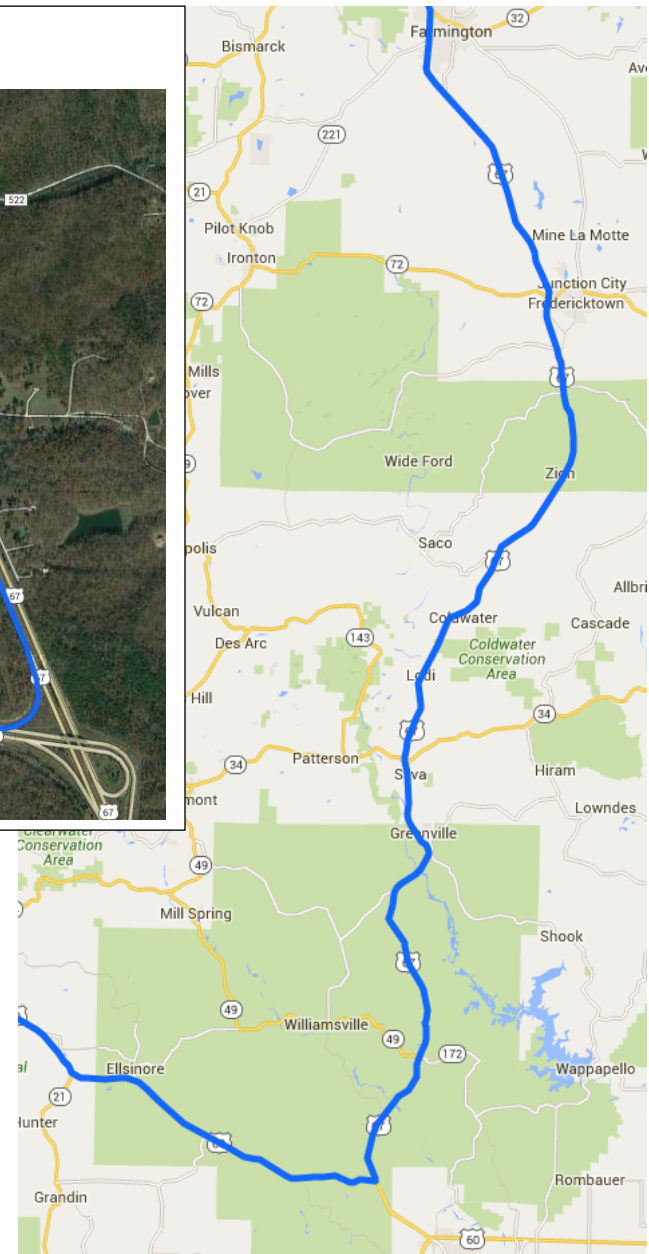
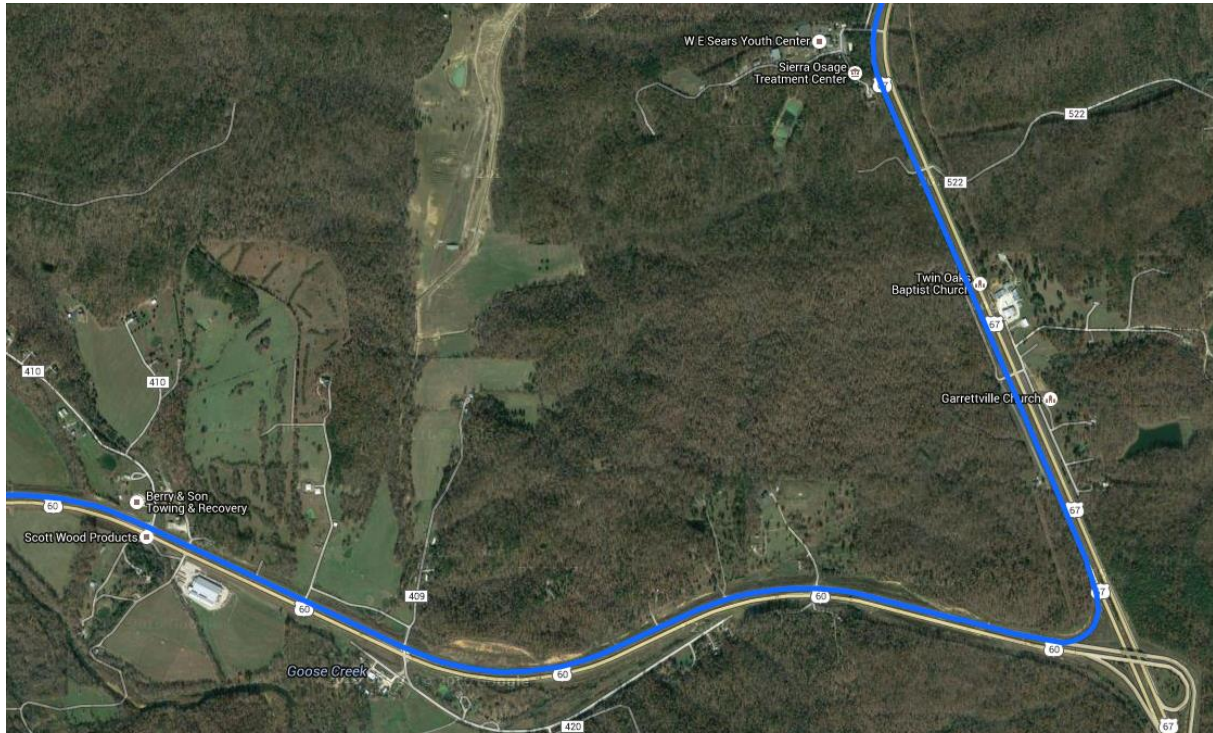


Step	Trip	Int	Major Turns/Instructions	Landmarks/Notes	Ln	Spd	Shoulder	Services
D 18	7.40	0.70		SL for Hageman Rd/Duchesne Parque Drive	2	45		
D 19	7.50	0.10		SL for Walden Ridge				
D 20	8.50	1.00	Continue straight onto MO-21 South	Bridge over Meramec River, cross into Missouri				
D 21	8.70	0.20		Junction with MO-141	2	65	paved	
D 22	13.70	5.00		Old Route 21/Shady Valley, mile marker 180.8				
D 23	16.30	2.60		Highway M and MM, mile marker 178.2				
D 24	21.50	5.20		Old Route 21/Goldman, mile marker 173.0				
D 25	24.90	3.40		Hayden Rd, mile marker 169.6				
D 26	26.30	1.40		Highway A, mile marker 168.2				
D 27	28.50	2.20	Merge into a single lane		1			
D 28	28.70	0.20	Exit right at highway B	Divided MO-21 literally ends ahead, must take this exit.				
D 29	29.10	0.40	Turn left at the SL for Highway B to follow MO-21			45	narrow	
D 30	29.20	0.10		SL for MO-21 North	1			
D 31	29.40	0.20		Entering Hillsboro				
D 32	29.60	0.20	Turn right at SL to follow MO-21 South		1	55	paved	
D 33	32.50	2.90		Castle Ranch Rd on left				
D 34	33.40	0.90	Turn left at the flashing yellow onto MO-110 East	BP gas station on right	1	60	narrow paved	fuel



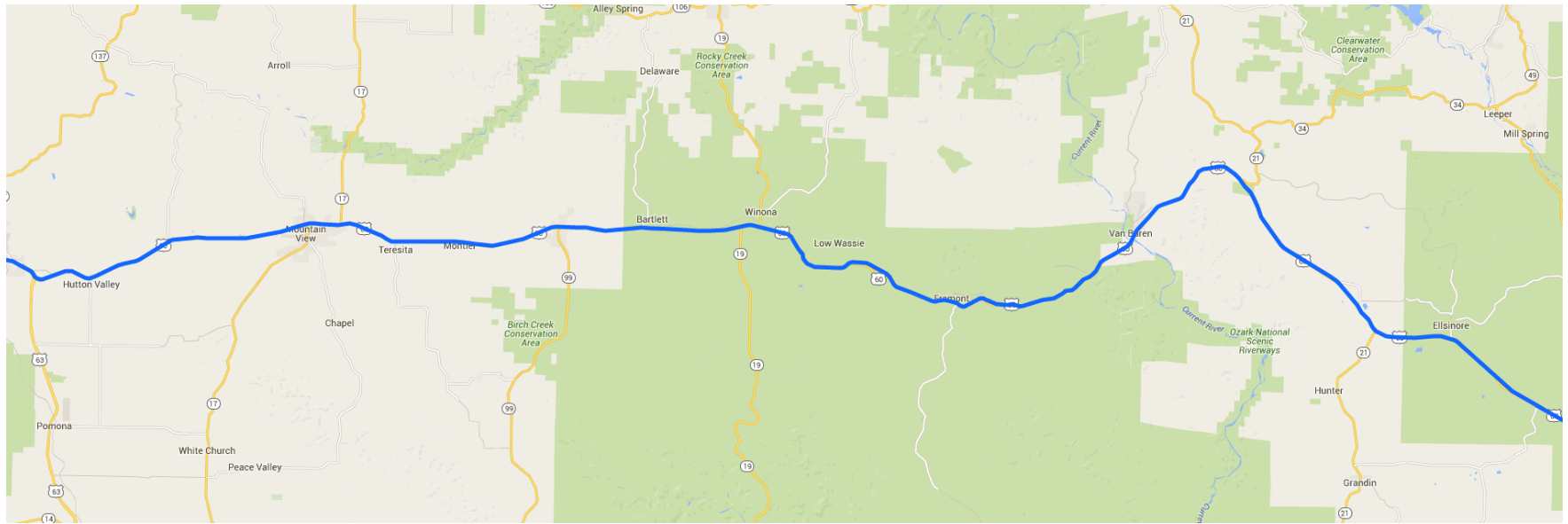
Step	Trip	Int	Major Turns/Instructions	Landmarks/Notes	Ln	Spd	Shoulder	Services
D 35	34.80	1.40		Entering De Soto	1	50		
D 36	35.60	0.80				60	wide paved	
D 37	39.20	3.60	Note: right lane becomes turn only for Athena School Road		2	60	paved	
D 38	39.80	0.60	Turn right onto the entrance ramp for US-67 South		1			fuel
D 39	40.00	0.20	Merge left onto US-67 South	Continue on US-67 South for the next ~100 miles	2	65	paved	
D 40	42.00	2.00		Flucom Rd with Gulf gas station				fuel
D 41	52.70	10.70		St. Francois State Park on left, with campgrounds.				
D 42	56.50	3.80		Bonne Terre/Terre Du Lac/Route K/MO-47				fuel, food, lodging
D 43	57.20	0.70		Old Orchard Road		60		hospital access
D 44	60.00	2.80		MO-8/US-67 Business exit with access to Desloge and Park Hills				Food, fuel, and lodging
D 45	63.50	3.50		MO-32 West, Leadington, Park Hills. Access to St. Joe State Park with camping				
D 46	67.20	3.70	Continue straight on US-67 South	MO-32 East exits to the left				Full Services
D 47	67.90	0.70		Exit for Maple St/Farmington		60		Hospital access
D 48	77.30	9.40		Intersection with Route DD	2	65	wide paved	
D 49	85.00	7.70		Fredricktown and MO-72 exit	2	65	wide paved	Full services hospital
D 50	88.30	3.30		Fredricktown and Route E exit				
D 51	90.90	2.60		Passing through Cherokee Pass			paved	Fuel

## Steps D59 – D60

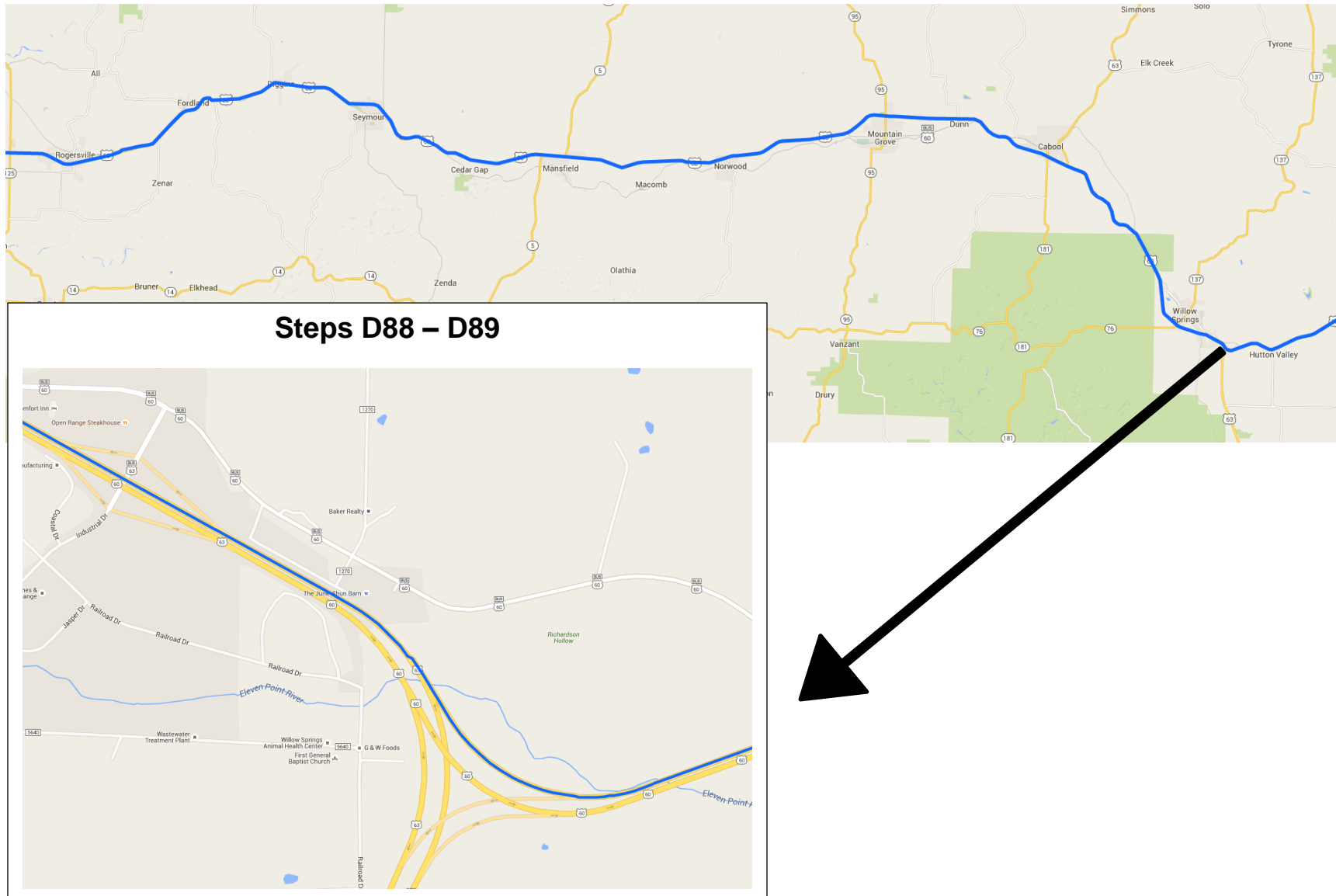




Step	Trip	Int	Major Turns/Instructions	Landmarks/Notes	Ln	Spd	Shoulder	Services
D 52	93.90	3.00		Bridge over 12 Mile Creek	2	65		
D 53	110.30	16.40		Bridge over Bennett Creek				
D 54	115.20	4.90		MO-34 with access to Peidmont and Marble Hill				
D 55	119.70	4.50		Greenville/Route E access to left				fuel, food
D 56	124.00	4.30		Route A intersection				
D 57	134.20	10.20		MO-49; large gravel pulloff area. Access to Lake Wappapello State Park with camping	2	65	paved	
D 58	140.60	6.40		Flashing yellow warnings for tight left turn ahead. Signs suggest 55mph.				
D 59	141.90	1.30	Exit right onto US-60 West with signs for Van Buren and Springfield.	Tight exit, signs suggest 40mph.				
D 60	142.20	0.30	Merge left onto US-60 West; follow it for the next ~175 miles	Extremely poor/non-existent cell reception next ~80 miles. Plan ahead.	2	65	paved	
D 61	147.20	5.00		Route PP access to left				
D 62	151.20	4.00		Gas station pull off on right - "Stop-N-Go"				fuel
D 63	157.70	6.50		Junction Route V, Ellsinore access to right	2	55	paved	
D 64	158.30	0.60		Access to Pinewoods Lake Campground to left				
D 65	158.60	0.30		Fuel and motel access to left	2	65	paved	fuel
D 66	161.30	2.70		MO-21 South access to left				
D 67	163.00	1.70		Simmons grocery, gas, and hardware in a pull-off to the right				Fuel, grocery
D 68	170.90	7.90		MO-21/MO-34 access to right				

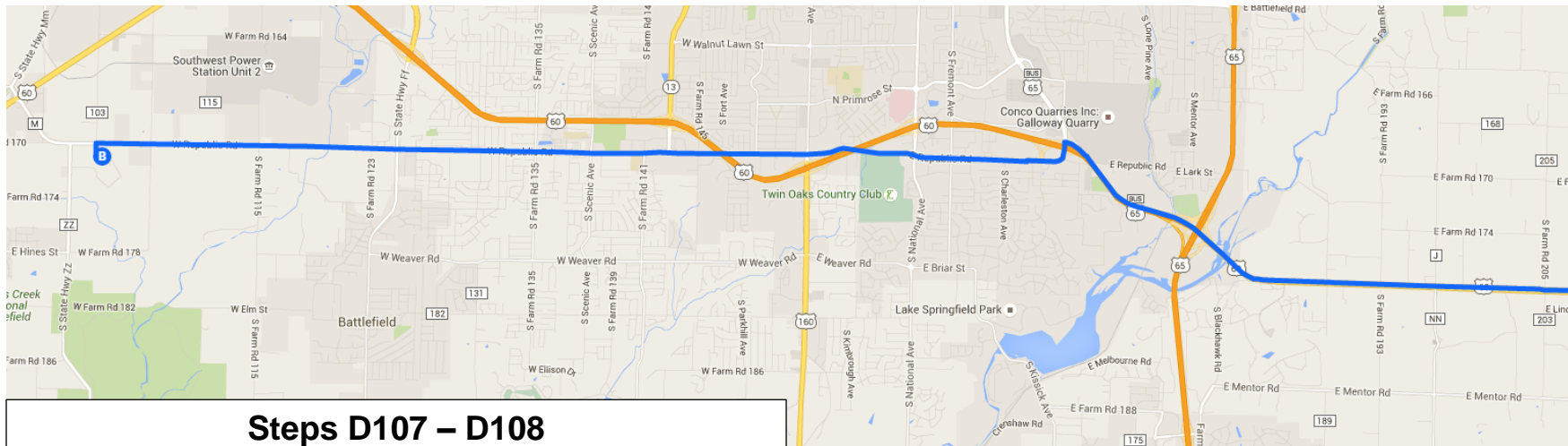
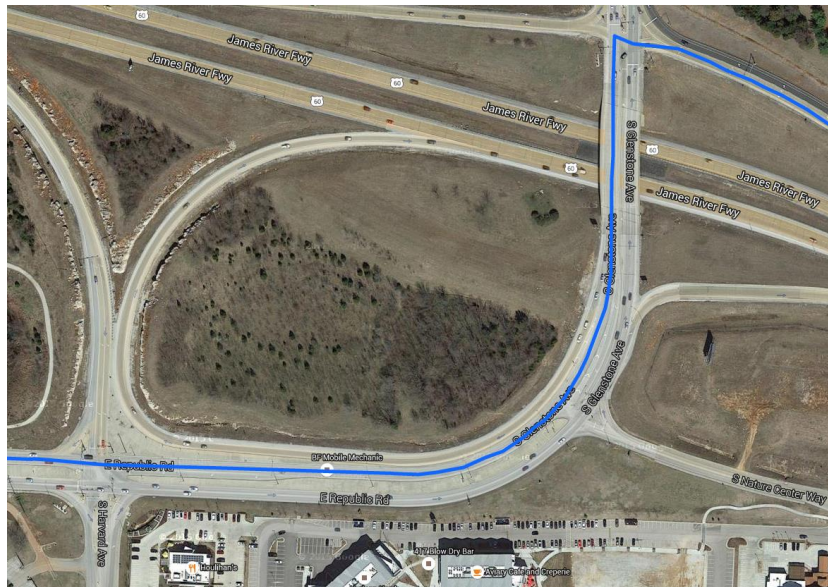
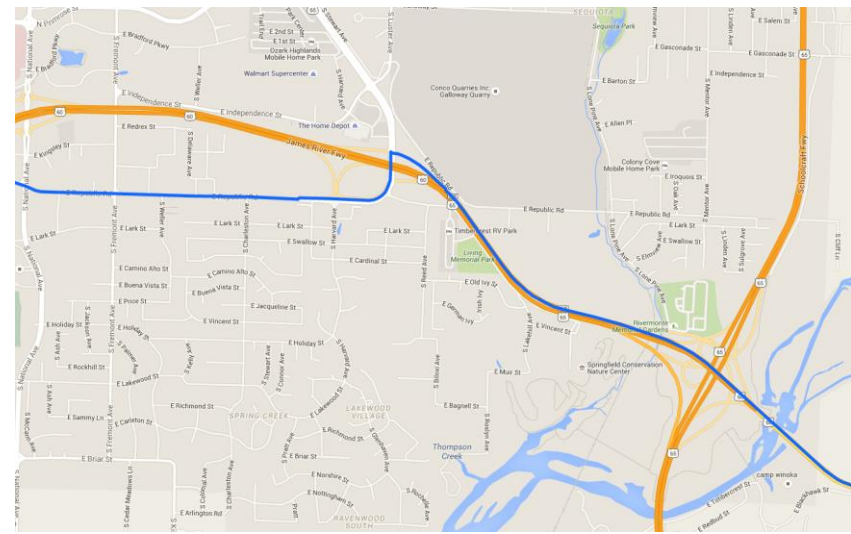


Step	Trip	Int	Major Turns/Instructions	Landmarks/Notes	Ln	Spd	Shoulder	Services
D 69	174.00	3.10		Gain right passing lane up hill for 1 mile	2	65		
D 70	175.60	1.60		Entering Van Buren	2	55	paved w/guardrail	fuel, food
D 71	177.30	1.70		Main Van Buren exit				fuel
D 72	177.80	0.50		Access to Big Spring State Park with camping on left, 4 miles away				
D 73	178.50	0.70			2	65	paved w/guardrail	
D 74	185.70	7.20		Pulloff on the right side of a sharp right- to-left S curve	2	65	paved	
D 75	187.50	1.80		Access to Fremont via Route Y				
D 76	191.00	3.50		Entering Shannon County				
D 77	197.60	6.60		Entering Winona		55		fuel, food, motel
D 78	198.80	1.20			2	65	paved	
D 79	206.70	7.90		Entering Birch Tree, access via FF on left		55		fuel
D 80	207.80	1.10				65		
D 81	217.40	9.60		Entering Mountain View - abrupt speed limit/little warning.	2	55	paved	fuel, food, lodging
D 82	218.90	1.50		Non-divided 4-lane highway with center turn lane.		45		
D 83	219.10	0.20		SL for Elm St				hospital
D 84	219.25	0.15		SL for Pine St/Route Y				Full services
D 85	219.50	0.25			2	60		



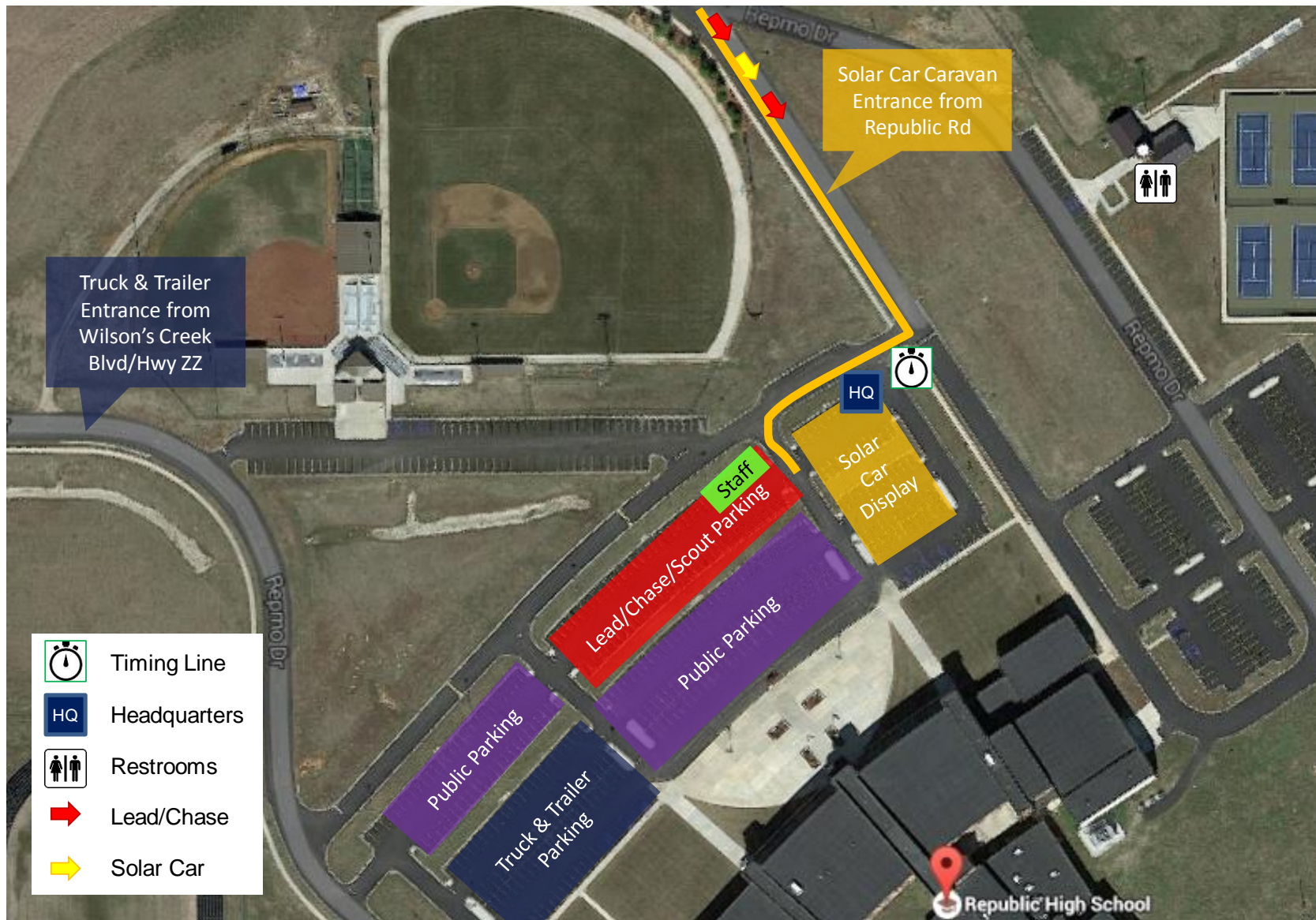


Step	Trip	Int	Major Turns/Instructions	Landmarks/Notes	Ln	Spd	Shoulder	Services
D 86	222.00	2.50		Regain divided highway.	2	65	paved	
D 87	228.20	6.20		Ozark Springs RV park to right				
D 88	232.00	3.80	Continue on US-60 West as it curves to the right at the US-63 interchange	Do NOT exit left onto US-63 South				
D 89	232.50	0.50	Must merge left twice - right lane ends, then new right lane becomes exit only	Do NOT exit right onto US-60 Business	2	65	paved	
D 90	235.00	2.50		MO-76/MO-137 with access to Willow Springs				Fuel, Food
D 91	241.00	6.00		Entering Texas County, rest area on left, abandoned gas station on right	2	65	paved	
D 92	246.20	5.20		Junction with US-63 North				
D 93	247.40	1.20		MO-181 exit with access to Cabool				Full services
D 94	256.90	9.50		MO-95 exit with access to Mountain Grove				Full services
D 95	266.10	9.20		Route E/Route C with access to Norwood				fuel
D 96	275.10	9.00		MO-5 North exit with access to Mansfield and Hartfield				
D 97	276.20	1.10		MO-5 South/Route EE exit with access to Mansfield and Ava		65		
D 98	280.70	4.50		Route O on left with access to Cedar Gap				
D 99	286.20	5.50		SL for Route K/Route C with access to Seymore	2	65	paved	fuel
D 100	288.20	2.00		SL for Clinton Rd				Food
D 101	296.60	8.40		Route PP exit with access to Fortland				
D 102	304.20	7.60		Route B/Route V/Mill Street exit with access to Rogersville	2	60	paved	

**Steps D107 – D108****Steps D105 – D111**

Step	Trip	Int	Major Turns/Instructions	Landmarks/Notes	Ln	Spd	Shoulder	Services
D 103	306.60	2.40		SL for Jamestown Blvd/W Center St	2	60		
D 104	308.60	2.00		SL for MO-125				fuel, antique mall
D 105	314.50	5.90	Continue straight on US-60 West at the US-65 interchange	Watch out for merging traffic from the right				
D 106	316.00	1.50	Exit right for Glenstone Ave/Republic road/US-65 Business					
D 107	316.50	0.50	Turn left at the SL at the end of the exit			40		
D 108	316.70	0.20	Continue on Republic Road	Do NOT exit right onto US-60 East onramp				
D 109	316.90	0.20		SL for Harvard Ave	2	40	curb	
D 110	317.70	0.80		SL for Fremont Ave				Full Services in Springfield
D 111	318.10	0.40	Right lane ends before the next SL	SL for National Ave			bike lane guardrail	
D 112	319.10	1.00		SL for Campbell Ave	1		bike lane	
D 113	320.40	1.30		SL for Kansas Expressway	2			
D 114	320.60	0.20		SL for Cox Ave			bike lane w/curb	
D 115	321.10	0.50	Merge left; right lane ends after the next SL	SL for Scenic Ave				
D 116	321.60	0.50		SL for Golden Ave	1	40	narrow grass	
D 117	322.90	1.30		SL for Route FF	1	55		
D 118	323.10	0.20		Flashing yellow for Farm Road 123 S				
D 119	325.70	2.60	Turn left into the parking lot for Republic High School	Follow signs/flaggers to parking locations				





Republic High School Stage Point – Republic, MO – Stage Finish







