Carbon Monoxide Traffic Air Quality Analysis

I-35 Capital Express North Project

Travis and Williamson Counties, Texas
Austin District
CSJs: 0015-10-062 & 0015-13-389

December 2020

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 9, 2019, and executed by FHWA and TxDOT.

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1.0 Project Description

The Texas Department of Transportation (TxDOT) Austin District proposes improvements to Interstate 35 (I-35) from State Highway 45 North (SH 45N) in Williamson County to US Highway 290 East (US 290E) in Travis County. The proposed improvements would add one non-tolled managed lane in each direction, reconstruct intersections and bridges to increase bridge clearances and east/west mobility, and improve bicycle and pedestrian accommodations along I-35 frontage roads and at east/west crossings. The project length is approximately 11.5 miles (see **Appendix A** for a Project Location Map).

Modeled Scenarios

The Build Alternative for the estimated time of completion (ETC) year (2025) and design year (2045) were modeled for the carbon monoxide (CO) analysis in accordance with TxDOT's *Environmental Guide: Volume 2 Activity Instructions (January 2020.)*

2.0 Background Information

CO is a primary pollutant from motor vehicles that is largely emitted from a vehicle's exhaust system; thus, there is a federal requirement to model localized CO concentrations for proposed highway projects. Projects that are adding capacity may result in an increase of CO emissions; therefore, TxDOT requires the completion of a project-level CO analysis for added capacity projects that exceed an annual average daily traffic (AADT) volume of 140,000 vehicles per day (vpd).

Since the project would add capacity and the design year traffic volume is above 140,000 vpd (see **Table 1** below), a CO traffic air quality analysis (TAQA) is required to assess whether the project would adversely affect local air quality by contributing to CO levels that exceed the 1-hour or 8-hour CO National Ambient Air Quality Standard (NAAQS).

3.0 Analysis Methodology

CO concentrations for the Build Alternative were modeled for the ETC and design years using the CAL3QHC dispersion model. The traffic data used in the analysis was obtained from TxDOT's Transportation Planning & Programming (TPP) Division. The supplied traffic data included the years of 2030 and 2050, so a compound annual growth rate was used to calculate the appropriate traffic data for the ETC and Design (No Build) scenarios. Detailed traffic data for the 2045 Build scenario was also provided. Traffic for the ETC and design year is shown by section in **Table 1**. See **Appendix B** for the complete TPP Traffic Data.

Table 1: Projected AADT and DHV

I-35 Sections: Mainlanes	*AADT*		*DHV*	
	2025 (ETC)	2045 (Design)	2025 (ETC)	2045 (Design)
Section 2: S of William Cannon to N of Rundberg	232,009	289,444	13,688	17,077
Section 3: N of Rundberg to N of Howard*	195,405	256,461	13,874	18,209
I-35 Sections: Frontage Roads	***AADT***		***DHV***	
	2025 (ETC)	2045 (Design)	2025 (ETC)	2045 (Design)
Section 7: S of US 290 Ramps to N of US 290 Ramps	56,224	68,411	3,992	4,857
Section 8: N of US 290 Ramps to N of US 183 Ramps	78,398	88,676	5,566	6,296
Section 9: N of US 183 Ramps to S of Howard Ramps	89,055	116,543	6,323	8,275
Section 10: S of Howard Ramps to N of Howard*	78,497	102,934	5,573	7,308

*North of Howard to the northern project limits.
DHV – Design Hourly Volume

The segments modeled in the CO analysis were chosen based on the areas of the project with the highest AADT and narrowest ROW. The modeled segment limits and their respective traffic sections are as follows:

- Segment 1: South of SH 45N to north of Greenlawn Blvd (within Traffic Section 3 (Mainlanes) and Section 10 (Frontage Roads))
- Segment 2: South of Howard Ln to north of Center Ridge Dr (within Traffic Section 3 (Mainlanes) and Section 9 (Frontage Roads))
- Segment 3: North of Park Plz to north of Powell Ln (within Traffic Section 2 (Mainlanes) and Section 7 (Frontage Roads))
- Segment 4: North of US 290E to south of Atkinson Rd (within Traffic Section 2 (Mainlanes) and Section 7 (Frontage Roads))

Background CO concentrations of 1.6 parts per million (ppm) (1-hour) and 1.3 ppm (8-hour) were used for the model in accordance with Appendix B of TxDOT's *Environmental Guide: Volume 2 Activity Instructions (January 2020)*.

The emission rates used in the analysis were based on the MOVES2014 model, gathered from the TxDOT Emission Rates Lookup Table (ERLT) for TAQA (*TxDOT Air Quality Toolkit, June 2016*) and identified in **Table 2** below. Because the current ERLTs do not extend to the design year of 2045, the rates for the year 2040 were used as a surrogate. The use of these rates represents a worst-case

analysis, since emission rates decline over time. The speeds for the model represent the posted, free flow movement of vehicles, which would allow for a worst-case analysis.

Table 2: Emission Rates and Projected Vehicle Speeds

Facility Type	Facility Type	Emission Rates (Grams/Mile)		
		2025	2045	Posted Speed
Mainlanes	Urban Freeway	1.35	0.66	70
Direct Connectors	Urban Freeway	1.01	0.47	60
Collector-Distributor	Urban Arterial	1.09	0.52	65
Frontage Roads	Urban Arterial	1.05	0.48	55
Ramps	Urban Freeway	1.01	0.45	55

The following adverse meteorological conditions are the worst-case assumptions and input parameters used in the analysis, in accordance with Appendix D of TxDOT's *Environmental Guide: Volume 2 Activity Instructions (January 2020):*

- Averaging time of 60 minutes
- Atmospheric Stability Class of 4 (stable)
- Mixing height of 1,000 meters
- Wind speed of 1 meter per second
- Winds blowing parallel to the roadway

4.0 Receptor Locations

Receptors were modeled on the right-of-way (ROW) line along areas with the highest AADT and narrowest ROW for each segment. A standard height of 5.9 feet was given to the receptors for all models to simulate the average height of a person. As **Table 3** indicates, there's a variation of facility types amongst the segments. They all contain mainlanes and frontage roads, but Segment 2 & 3 contain collector-distributors and Segment 4 contains direct connectors as additional emission factors. Furthermore, the ROW width and traffic is also relatively consistent amongst the modeled receivers. The ROW width varies by 6 feet to 18 feet, while the total AADT at each of the receptors is consistently above 273,000 vpd to approximately 406,000 vpd. Segment 4's wider ROW, 545 feet, can be attributed to the US 290E direct connectors. Aerial maps depicting the receptor locations along the project ROW are found in **Appendix C**.

Table 3: Receptor Descriptions

Name	Segment	Distance from Roadway	ROW Width	2025 Total DHV	2045 Total DHV	2025 Total AADT	2045 Total AADT	Speed
Receptor 1 (R1)	Segment 1	31 ft	338 ft	19,447	25,517	273,902	359,395	ML: 70 FR: 55
Receptor 2 (R2)	Segment 1	27 ft	338 ft	19,447	25,517	273,902	359,395	ML: 70 FR: 55
Receptor 3 (R3)	Segment 2	30 ft	344 ft	19,447	25,517	273,902	359,395	ML: 70 FR: 55 CD: 65
Receptor 4 (R4)	Segment 2	26 ft	344 ft	19,447	25,517	273,902	359,395	ML: 70 FR: 55 CD: 65
Receptor 5 (R5)	Segment 3	42 ft	356 ft	22,796	25,325	321,064	405,987	ML: 70 FR: 55 CD: 65
Receptor 6 (R6)	Segment 3	38 ft	356 ft	22,796	25,325	321,064	405,987	ML: 70 FR: 55 CD: 65
Receptor 7 (R7)	Segment 4	16 ft	545 ft	20,465	25,408	288,233	357,855	ML: 70 FR/DC: 55
Receptor 8 (R8)	Segment 4	36 ft	545 ft	20,465	25,408	288,233	357,855	ML: 70 FR/DC: 55

5.0 Analysis Results

The 1-hour CO NAAQS is 35 ppm, while the 8-hour NAAQS is 9 ppm, which are not to be exceeded more than once in a year. Modeling results indicate that local concentrations of CO are not expected to exceed national standards at any time along any segment of the project; furthermore, CO concentrations are expected to slightly decrease from the ETC to the design year because of decreasing CO emission rates in the Austin area. The modeled 1-hour CO concentrations along the project range from 1.8 ppm to 1.9 ppm for 2025, and 1.6 ppm to 1.8 ppm for 2045. The highest CO concentration result and percent of the 1-hour and 8-hour NAAQS along the I-35 project is recorded in **Table 4** and **Table 5**. Receptors 1 through 5 and 8 had the highest modeled CO concentration in 2025, while Receptors 1 through 3 and 6, in Segments 1 through 3, had the highest modeled CO concentrations in 2045. These results directly correlate with each segment's ROW width and DHV; Segment 1 through 3 have a combination of a moderately high DHV and a narrow ROW width.

The associated input and output CAL3QHC files have been submitted with this technical report for inclusion in the project files.

Table 4: 1-Hour and 8-Hour CO Concentrations (ETC Year)

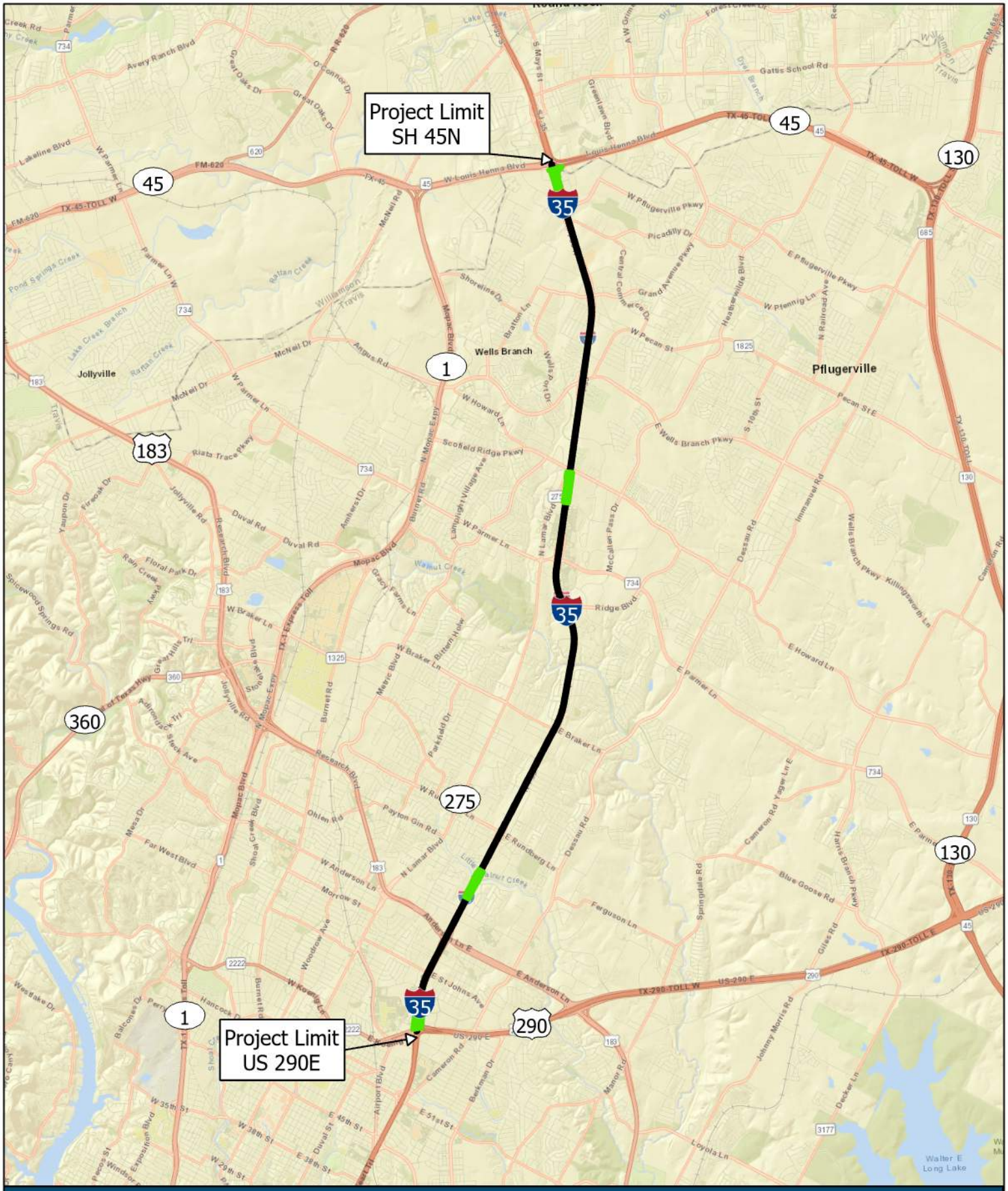
ETC Year: 2025							
Receptor	Modeled Segment	1-Hour CO Concentration (Grams/Mile)	1-Hour CO Background Concentration (Grams/Mile)	8-Hour CO Background Concentration (Grams/Mile)	8-Hour CO Concentration (Grams/Mile)	1-Hour % NAAQS	8-Hour % NAAQS
Receptor 1 (SB)	Segment 1	1.9	1.6	1.3	1.5	5.4%	16.8%
Receptor 2 (NB)	Segment 1	1.9	1.6	1.3	1.5	5.4%	16.8%
Receptor 3 (SB)	Segment 2	1.9	1.6	1.3	1.5	5.4%	16.8%
Receptor 4 (NB)	Segment 2	1.9	1.6	1.3	1.5	5.4%	16.8%
Receptor 5 (SB)	Segment 3	1.9	1.6	1.3	1.5	5.4%	16.8%
Receptor 6 (NB)	Segment 3	1.8	1.6	1.3	1.4	5.1%	16.0%
Receptor 7 (SB)	Segment 4	1.8	1.6	1.3	1.4	5.1%	16.0%
Receptor 8 (NB)	Segment 4	1.9	1.6	1.3	1.5	5.4%	16.8%
Note: 8-Hour CO Concentrations have been rounded to the nearest tenth decimal. 8-Hour % NAAQS are based on the non-rounded 8-Hour CO Concentration.							

Table 5: 1-Hour and 8-Hour CO Concentrations (Design Year)

Design Year: 2045							
Receptor	Modeled Segment	1 Hour CO Concentration (Grams/Mile)	1 Hour CO Background Concentration (Grams/Mile)	8 Hour CO Background Concentration (Grams/Mile)	8 Hour CO Concentration (Grams/Mile)	1-Hour % NAAQS	8-Hour % NAAQS
Receptor 1 (SB)	Segment 1	1.8	1.6	1.3	1.4	5.1%	16.0%
Receptor 2 (NB)	Segment 1	1.8	1.6	1.3	1.4	5.1%	16.0%
Receptor 3 (SB)	Segment 2	1.8	1.6	1.3	1.4	5.1%	16.0%
Receptor 4 (NB)	Segment 2	1.7	1.6	1.3	1.4	4.9%	15.2%
Receptor 5 (SB)	Segment 3	1.7	1.6	1.3	1.4	4.9%	15.2%
Receptor 6 (NB)	Segment 3	1.8	1.6	1.3	1.4	5.1%	16.0%
Receptor 7 (SB)	Segment 4	1.6	1.6	1.3	1.3	4.6%	14.4%
Receptor 8 (NB)	Segment 4	1.7	1.6	1.3	1.4	4.9%	15.2%
Note: 8-Hour CO Concentrations have been rounded to the nearest tenth decimal. 8-Hour % NAAQS are based on the non-rounded 8-Hour CO Concentration.							

APPENDIX A

Project Location Map



I-35 Capital Express North

From SH 45N to US 290E
Travis & Williamson County, TX
CSJ: 0015-10-062 & 0015-13-389

CO Modeling Area

ProjectLimits

US Feet
0 4,000 8,000

Sources: ESRI Basemap 2020

APPENDIX B

Traffic Data

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Mainlanes)												
Section 1												
Mainlanes Cutline Section 1	181,550	238,300	51 - 49	7.0	10.3	4.6	0	0	0	3	0	8"
Travis County												

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	89.7	95.4
Medium Duty	1.8	0.8
Heavy Duty	8.5	3.8

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Mainlanes)												
Section 1												
Mainlanes Cutline Section 1	181,550	262,450	51 - 49	7.0	10.3	4.6	0	0	0	3	0	8"
Travis County												

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Mainlanes) Section 2 Mainlanes Cutline Section 2 Travis County	245,200	305,900	51 - 49	5.9	8.9	4.0	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	91.1	96.0
Medium Duty	2.5	1.1
Heavy Duty	6.4	2.9

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Mainlanes) Section 2 Mainlanes Cutline Section 2 Travis County	245,200	336,300	51 - 49	5.9	8.9	4.0	0	0	0	3	0	8"

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Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Mainlanes) Section 3 Mainlanes Cutline Section 3 Travis County	209,150	274,500	55 - 45	7.1	9.6	4.3	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	90.4	95.7
Medium Duty	2.2	1.0
Heavy Duty	7.4	3.3

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Mainlanes) Section 3 Mainlanes Cutline Section 3 Travis County	209,150	302,200	55 - 45	7.1	9.6	4.3	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 1 Frontage Road Cutline Section 1 Travis County	9,300	12,200	51 - 49	7.0	4.1	3.1	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	95.9	96.9
Medium Duty	3.6	2.7
Heavy Duty	0.5	0.4

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 1 Frontage Road Cutline Section 1 Travis County	9,300	13,400	51 - 49	7.0	4.1	3.1	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 2 Frontage Road Cutline Section 2 Travis County	48,800	63,950	51 - 49	7.0	3.2	2.4	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	96.8	97.6
Medium Duty	2.8	2.1
Heavy Duty	0.4	0.3

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 2 Frontage Road Cutline Section 2 Travis County	48,800	70,450	51 - 49	7.0	3.2	2.4	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 3 Frontage Road Cutline Section 3 Travis County	78,900	103,550	51 - 49	7.0	2.6	2.0	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	97.4	98.0
Medium Duty	2.3	1.7
Heavy Duty	0.3	0.3

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 3 Frontage Road Cutline Section 3 Travis County	78,900	113,900	51 - 49	7.0	2.6	2.0	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 4 Frontage Road Cutline Section 4 Travis County	71,050	89,450	51 - 49	7.0	2.7	2.0	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	97.3	98.0
Medium Duty	2.4	1.8
Heavy Duty	0.3	0.2

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 4 Frontage Road Cutline Section 4 Travis County	71,050	98,350	51 - 49	7.0	2.7	2.0	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 5 Frontage Road Cutline Section 5 Travis County	48,400	60,200	51 - 49	5.9	3.2	2.4	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	96.8	97.6
Medium Duty	2.8	2.1
Heavy Duty	0.4	0.3

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 5 Frontage Road Cutline Section 5 Travis County	48,400	66,250	51 - 49	5.9	3.2	2.4	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 6 Frontage Road Cutline Section 6 Travis County	84,400	104,500	51 - 49	5.9	2.6	2.0	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	97.4	98.0
Medium Duty	2.3	1.7
Heavy Duty	0.3	0.3

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 6 Frontage Road Cutline Section 6 Travis County	84,400	112,550	51 - 49	5.9	2.6	2.0	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 7 Frontage Road Cutline Section 7 Travis County	59,050	71,850	55 - 45	7.1	3.3	2.5	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	96.7	97.5
Medium Duty	2.2	1.7
Heavy Duty	1.1	0.8

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 7 Frontage Road Cutline Section 7 Travis County	59,050	79,400	55 - 45	7.1	3.3	2.5	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 8 Frontage Road Cutline Section 8 Travis County	80,850	91,450	55 - 45	7.1	2.9	2.2	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	97.1	97.8
Medium Duty	1.9	1.4
Heavy Duty	1.0	0.8

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 8 Frontage Road Cutline Section 8 Travis County	80,850	100,000	55 - 45	7.1	2.9	2.2	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 9 Frontage Road Cutline Section 9 Travis County	95,250	124,650	55 - 45	7.1	2.7	2.0	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	97.3	98.0
Medium Duty	1.8	1.4
Heavy Duty	0.9	0.6

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 9 Frontage Road Cutline Section 9 Travis County	95,250	137,150	55 - 45	7.1	2.7	2.0	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

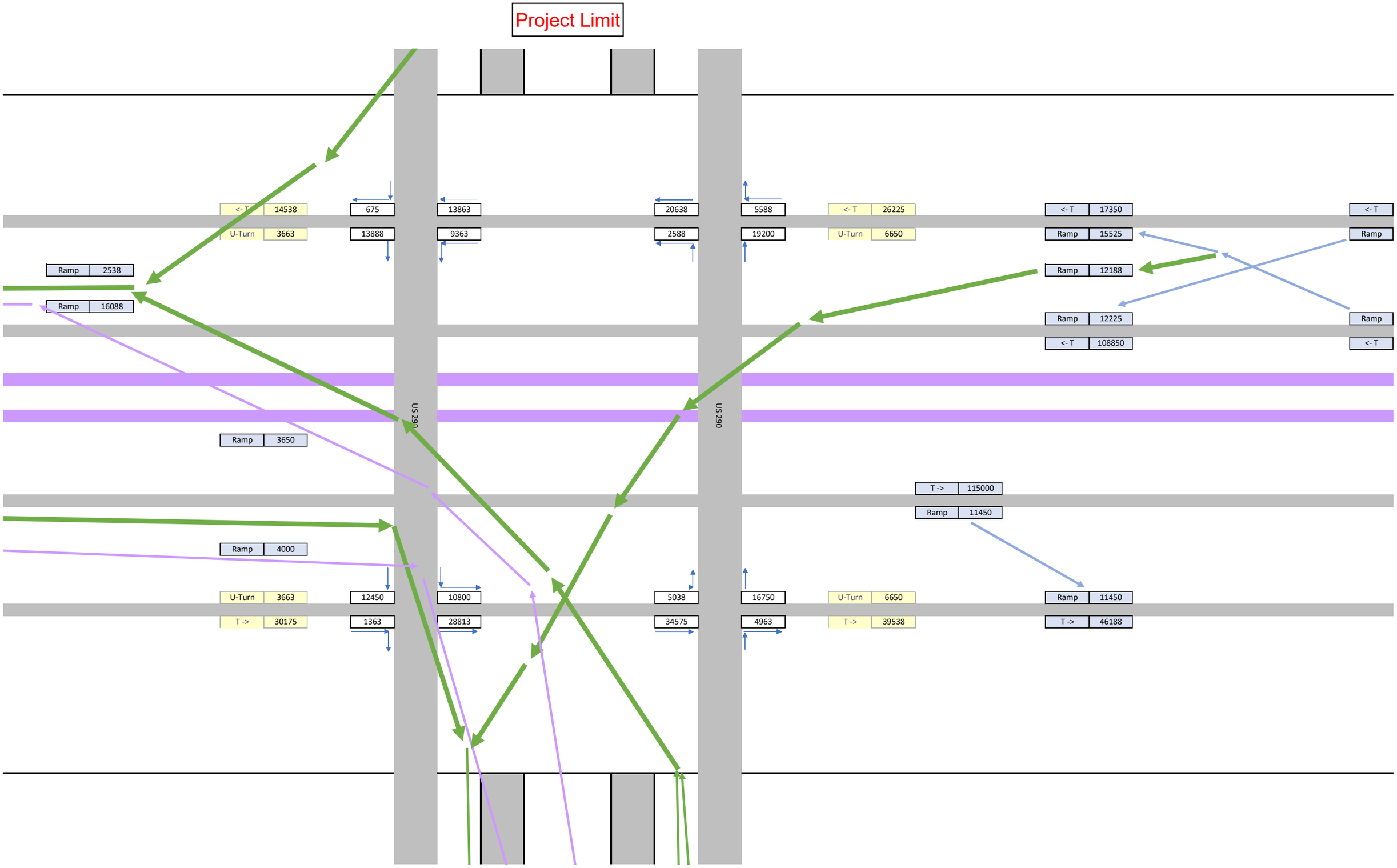
August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 10 Frontage Road Cutline Section 10 Travis County	84,000	110,150	55 - 45	7.1	2.9	2.2	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	97.1	97.8
Medium Duty	1.9	1.4
Heavy Duty	1.0	0.8

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 10 Frontage Road Cutline Section 10 Travis County	84,000	121,250	55 - 45	7.1	2.9	2.2	0	0	0	3	0	8"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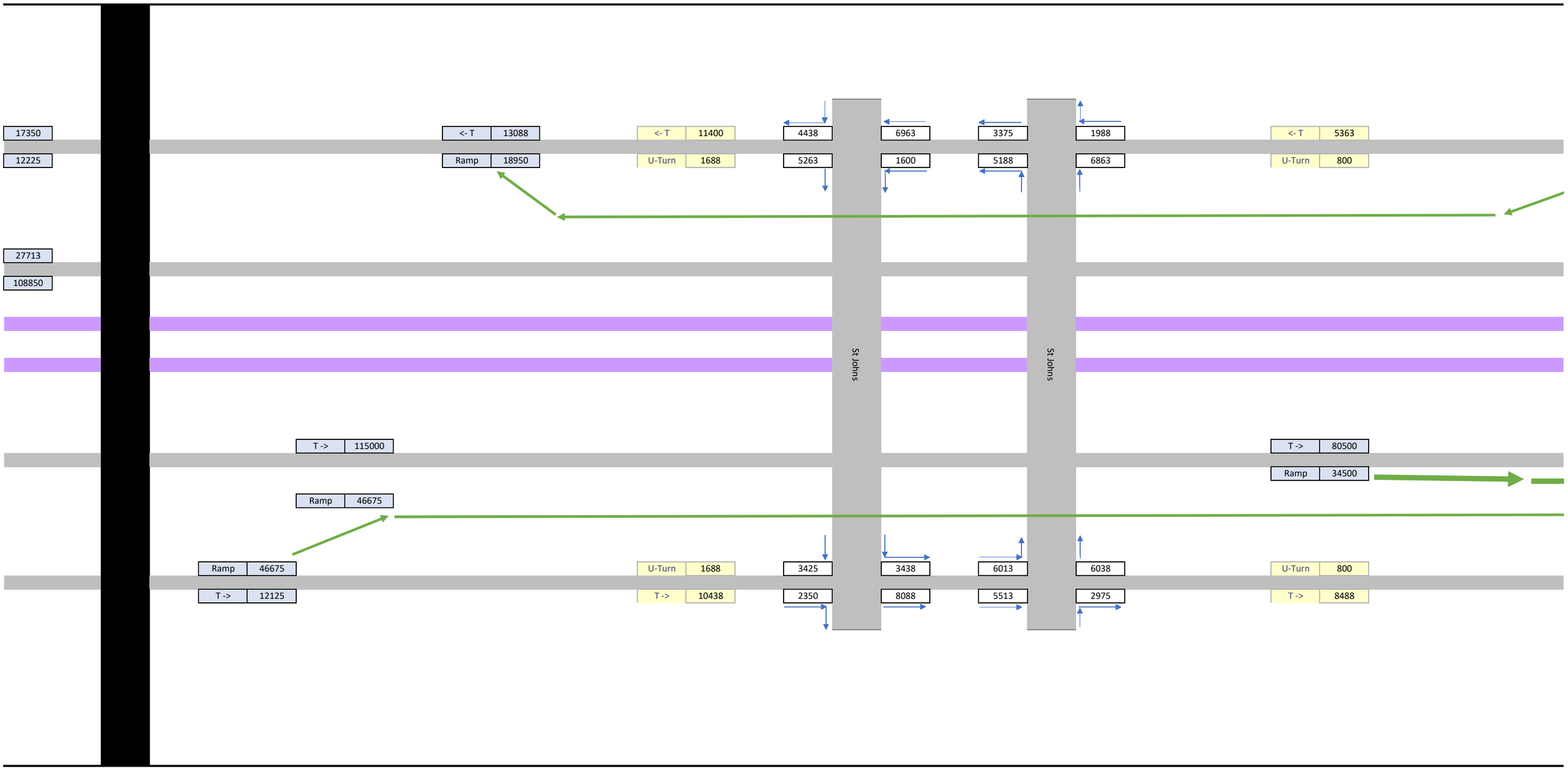
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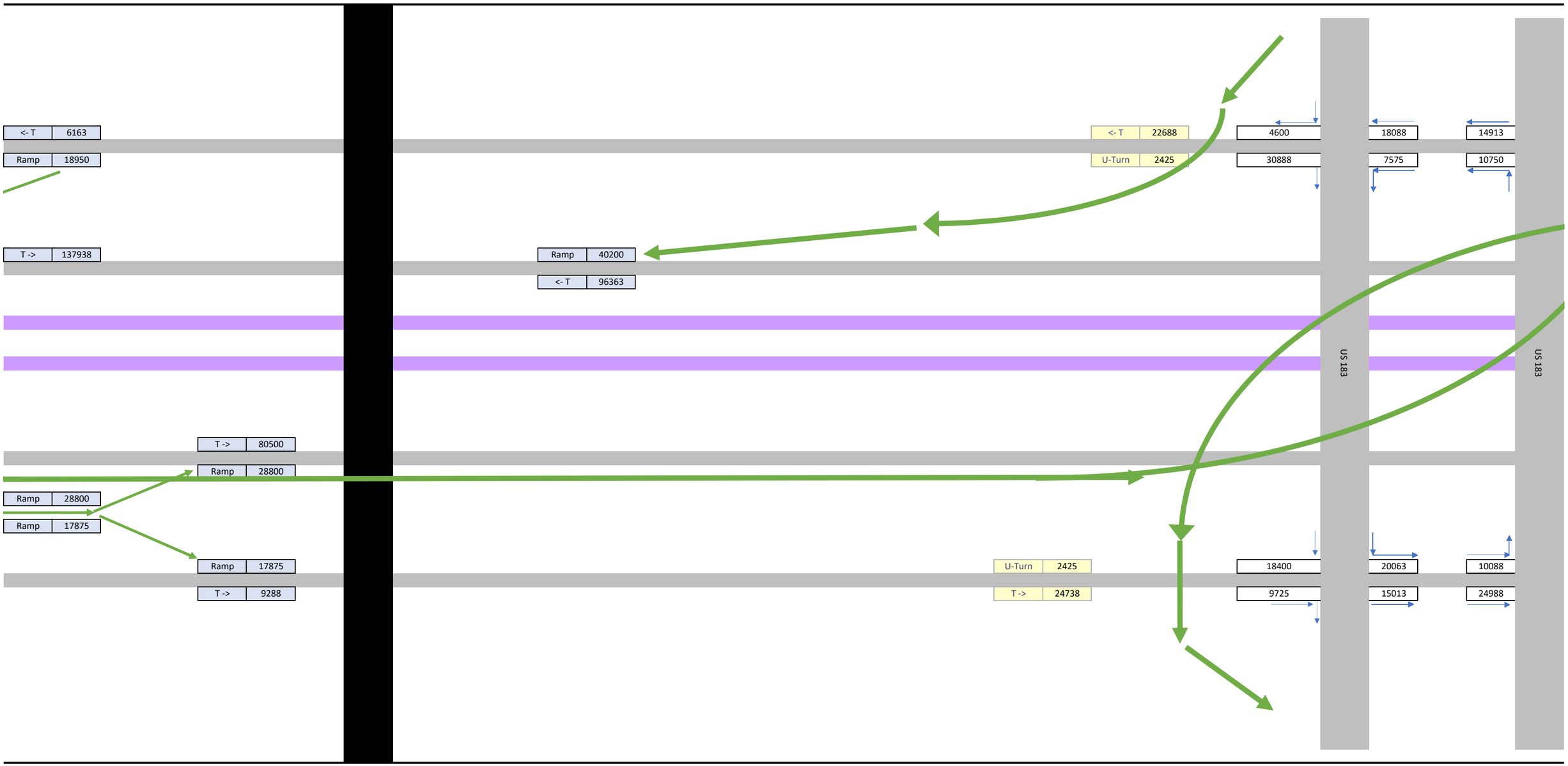
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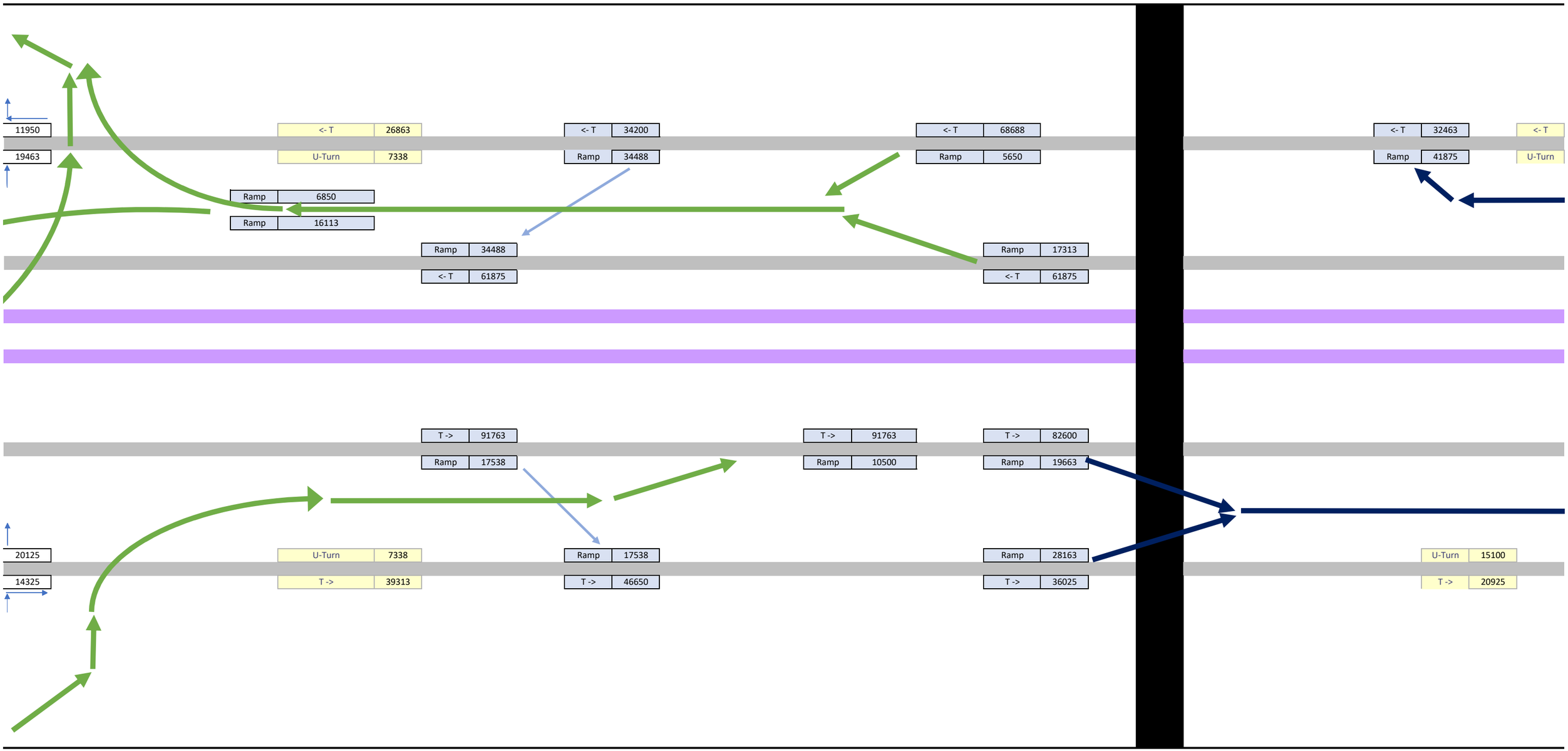
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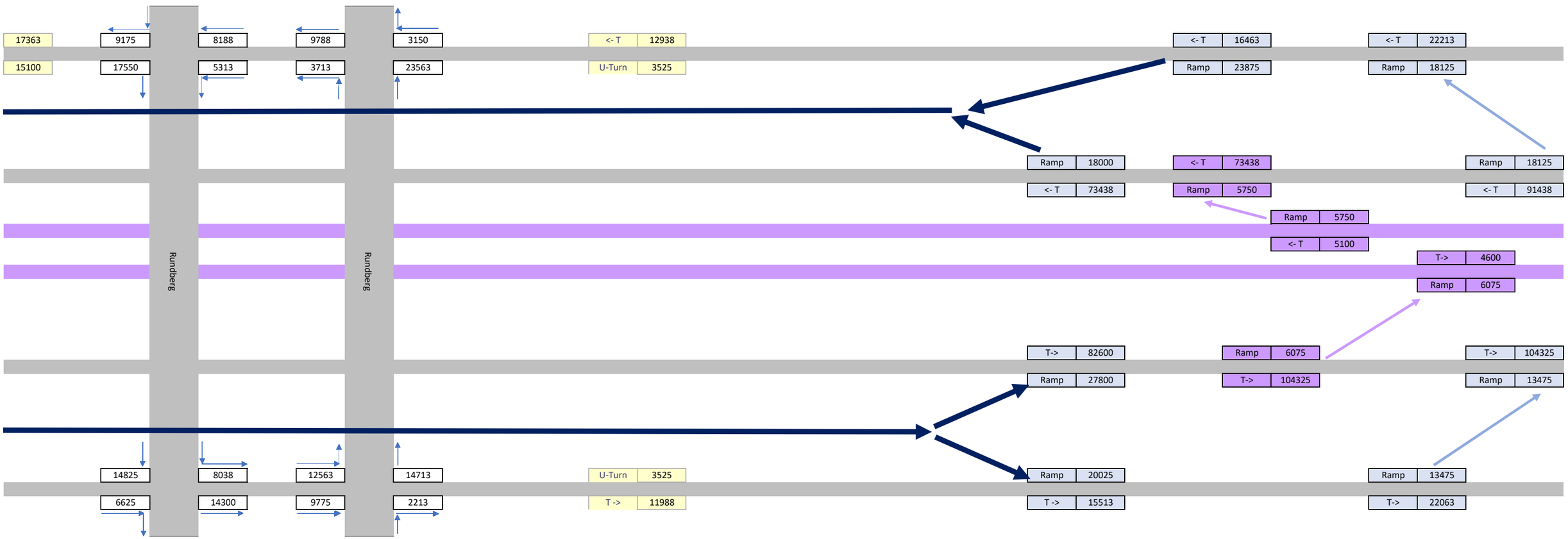
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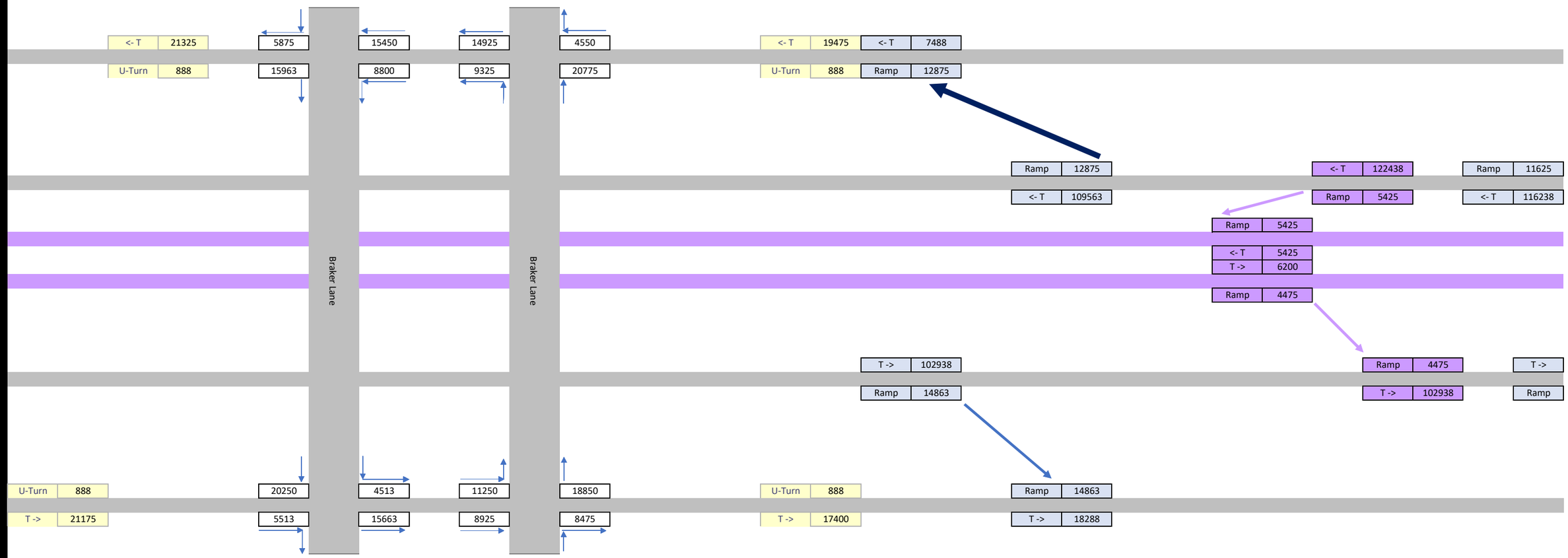
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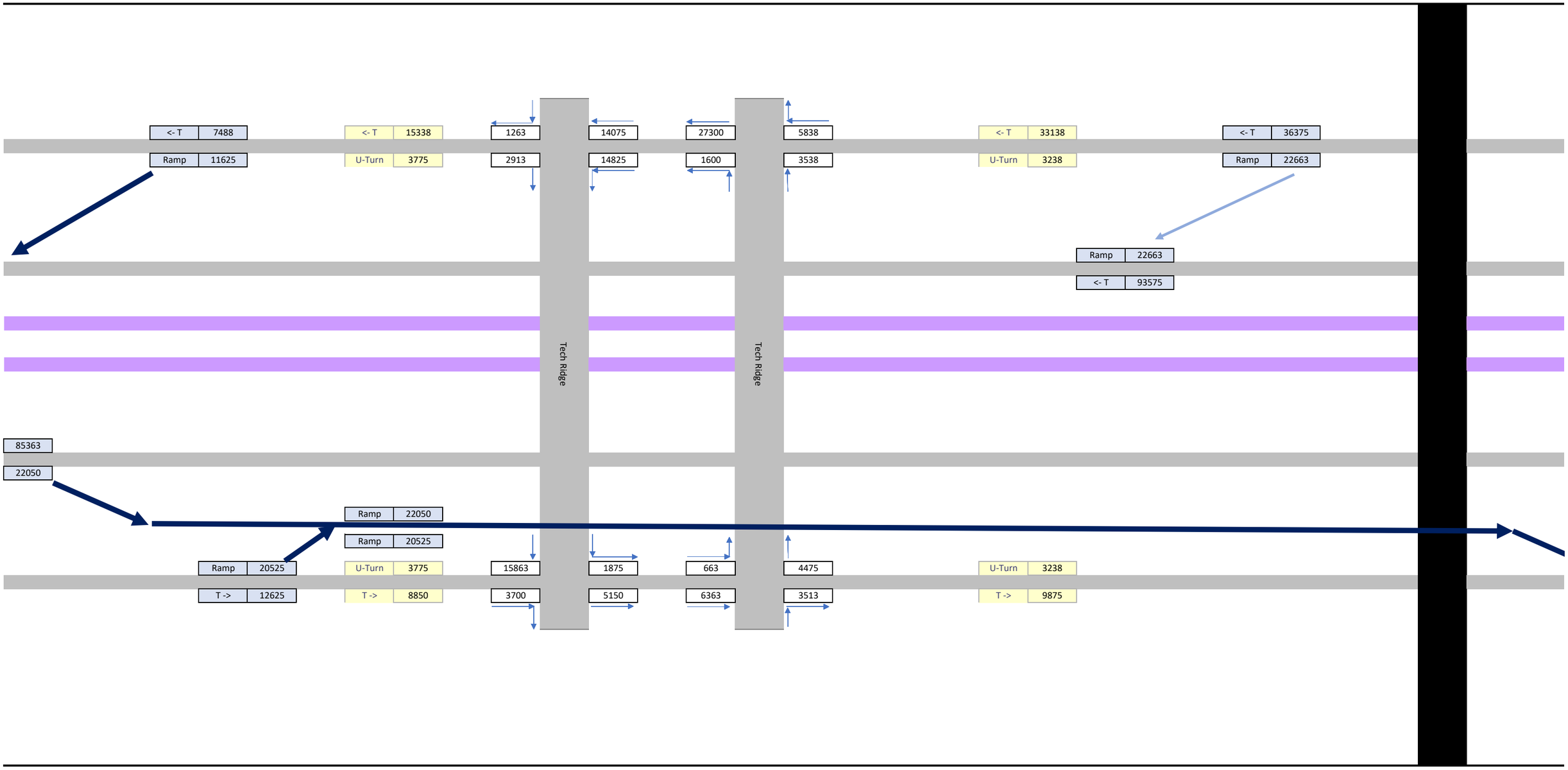
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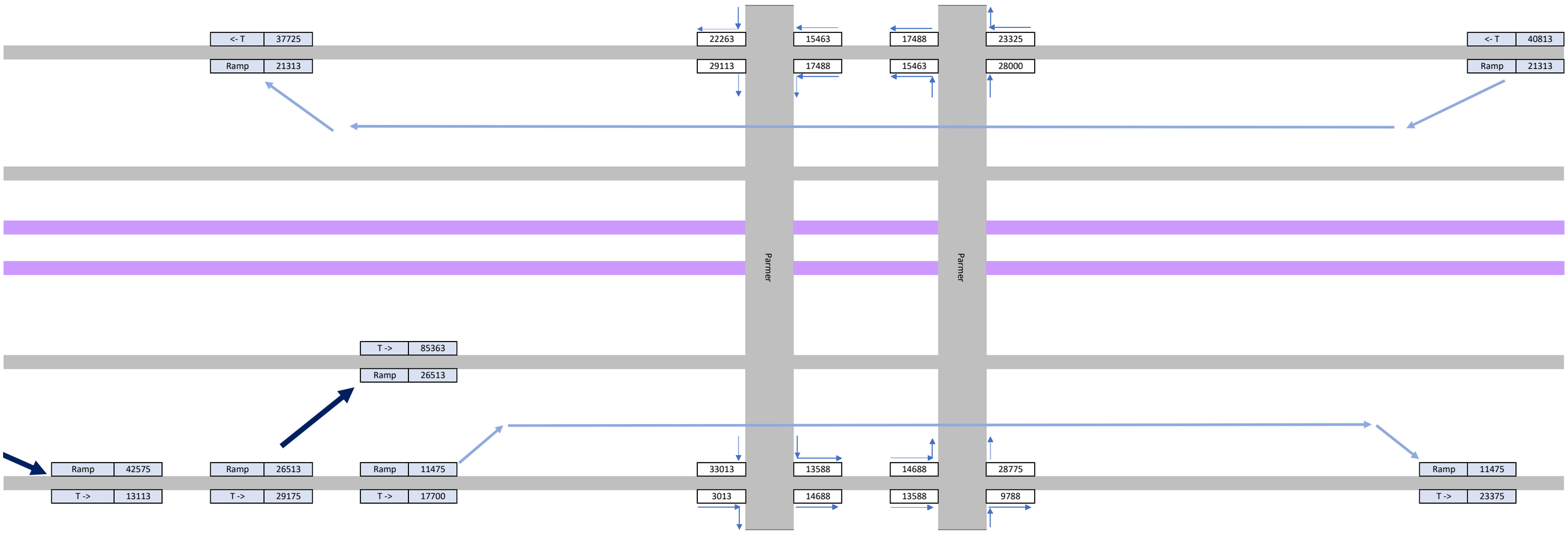
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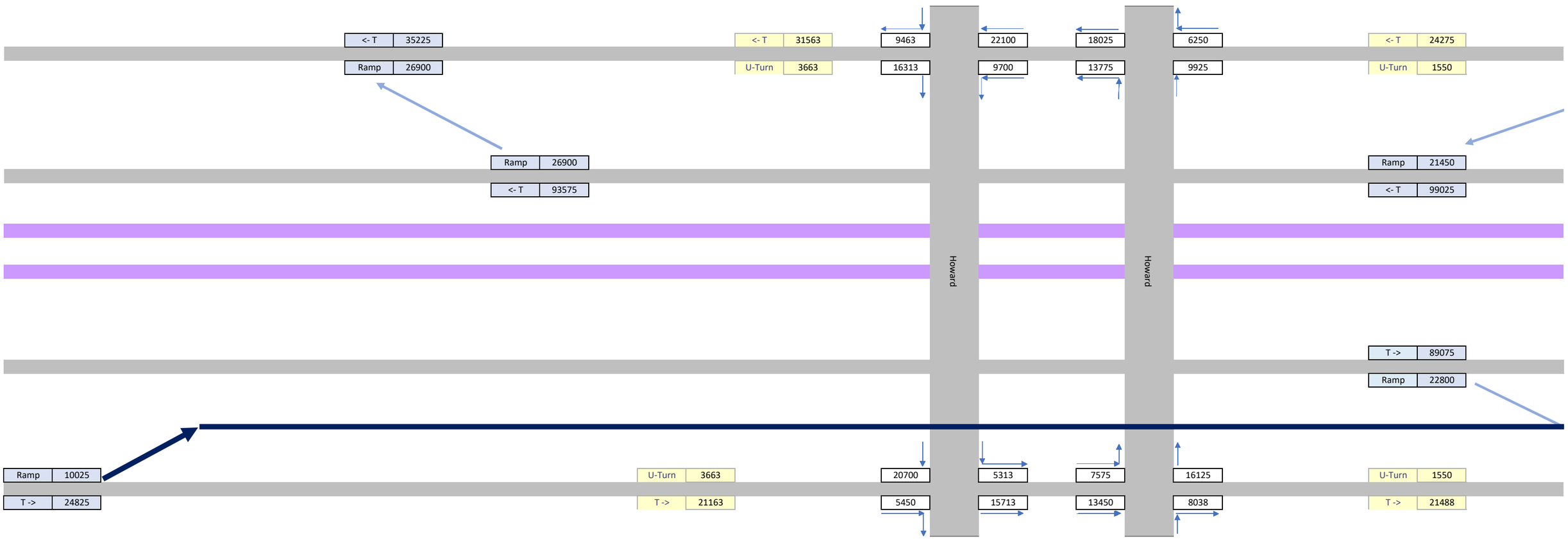
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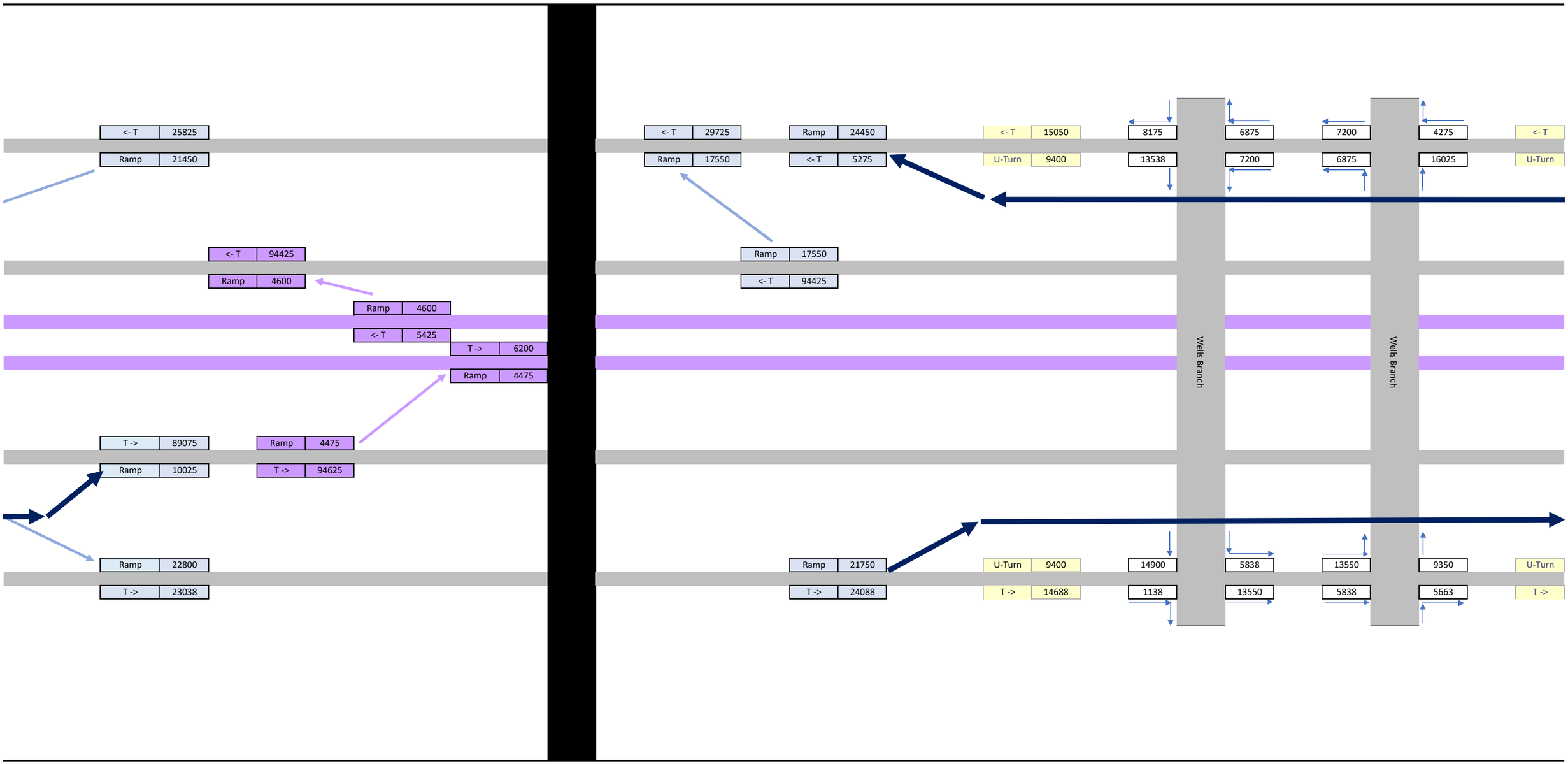
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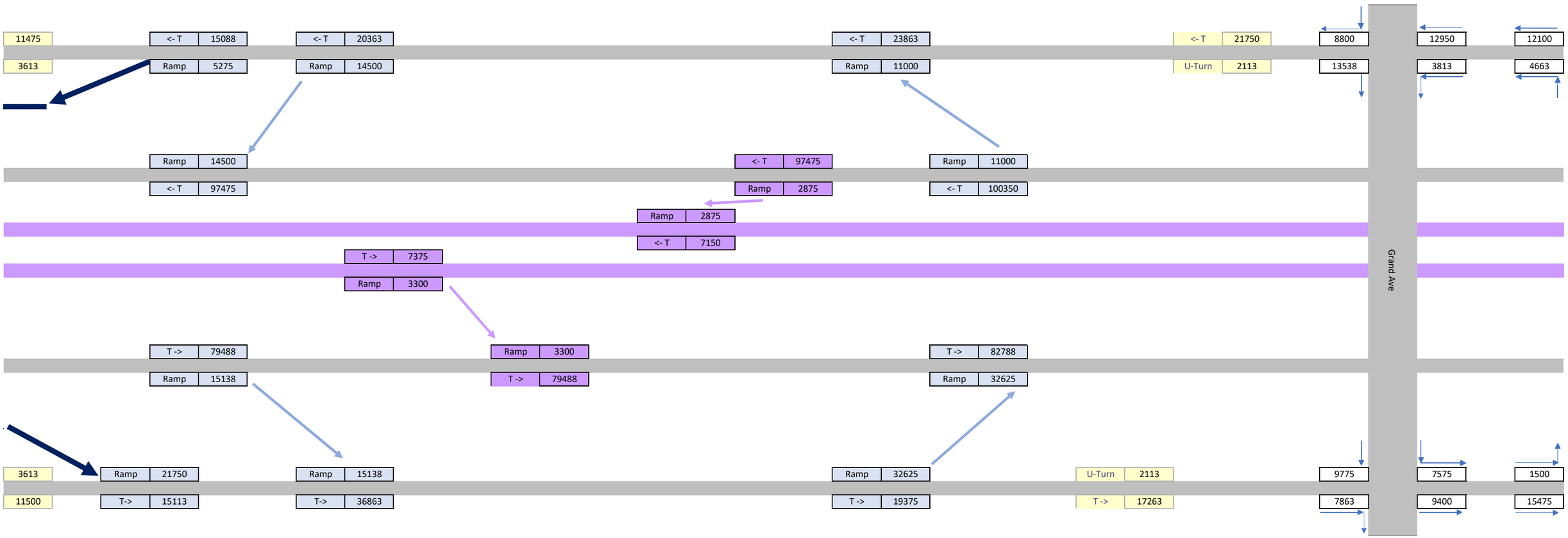
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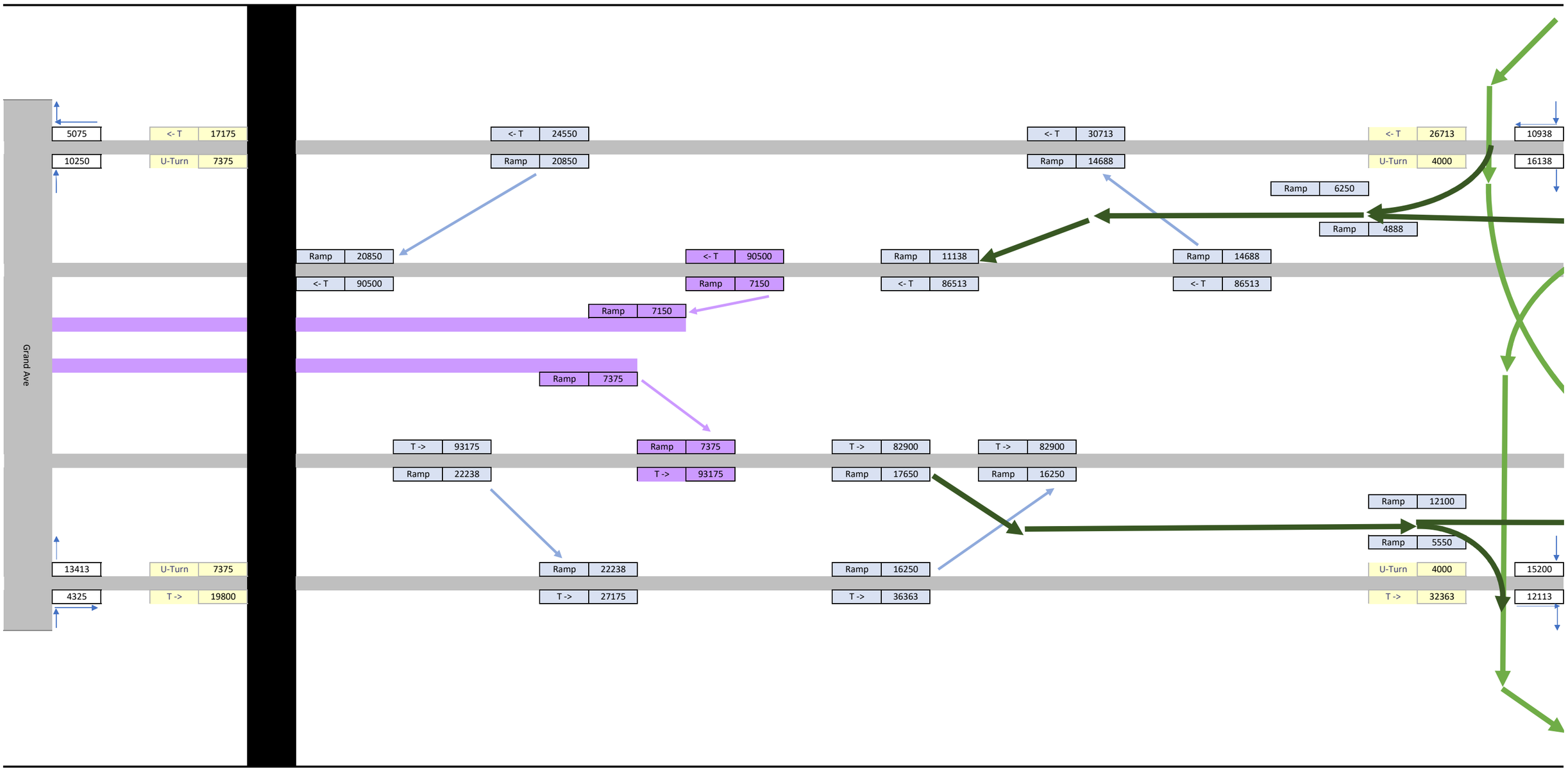
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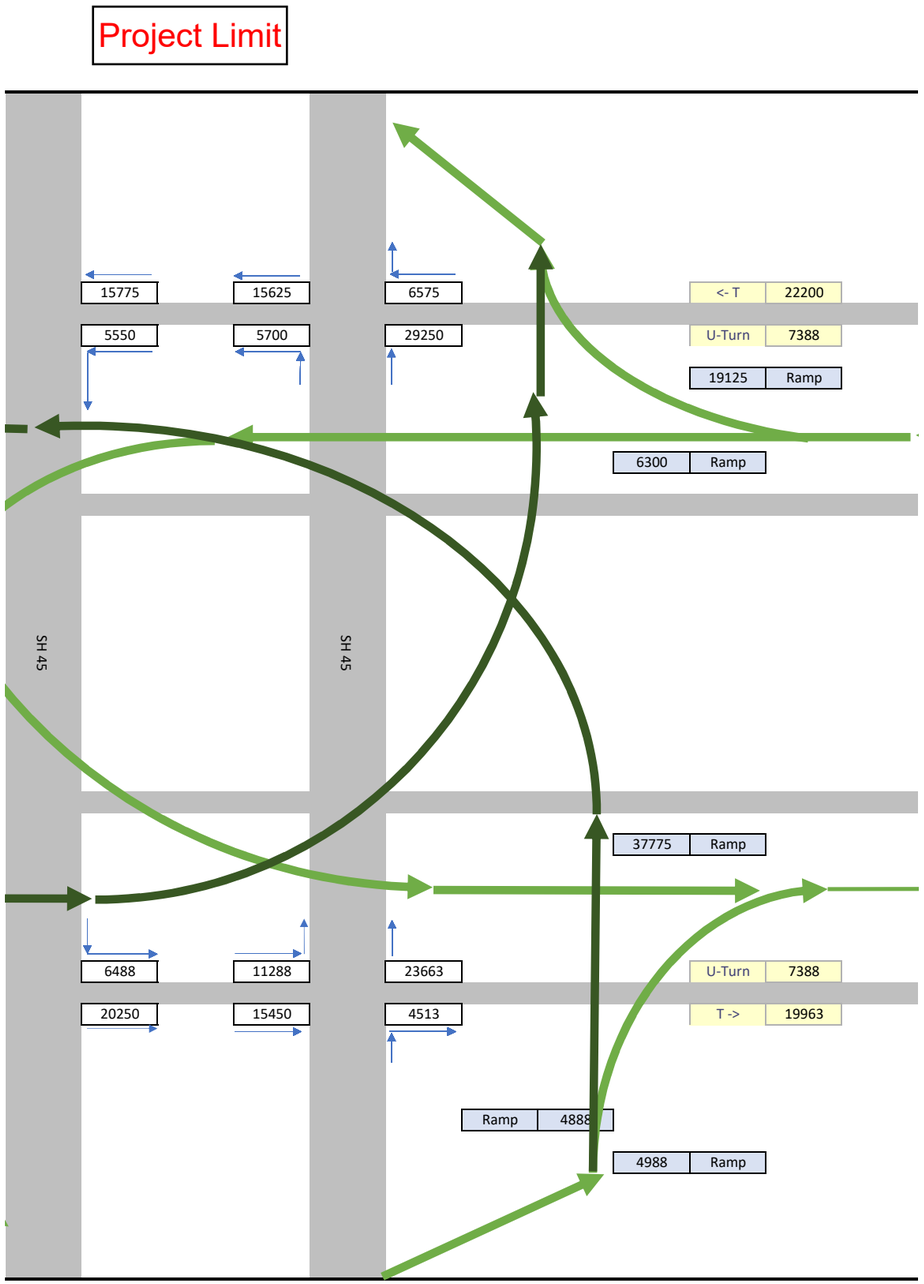
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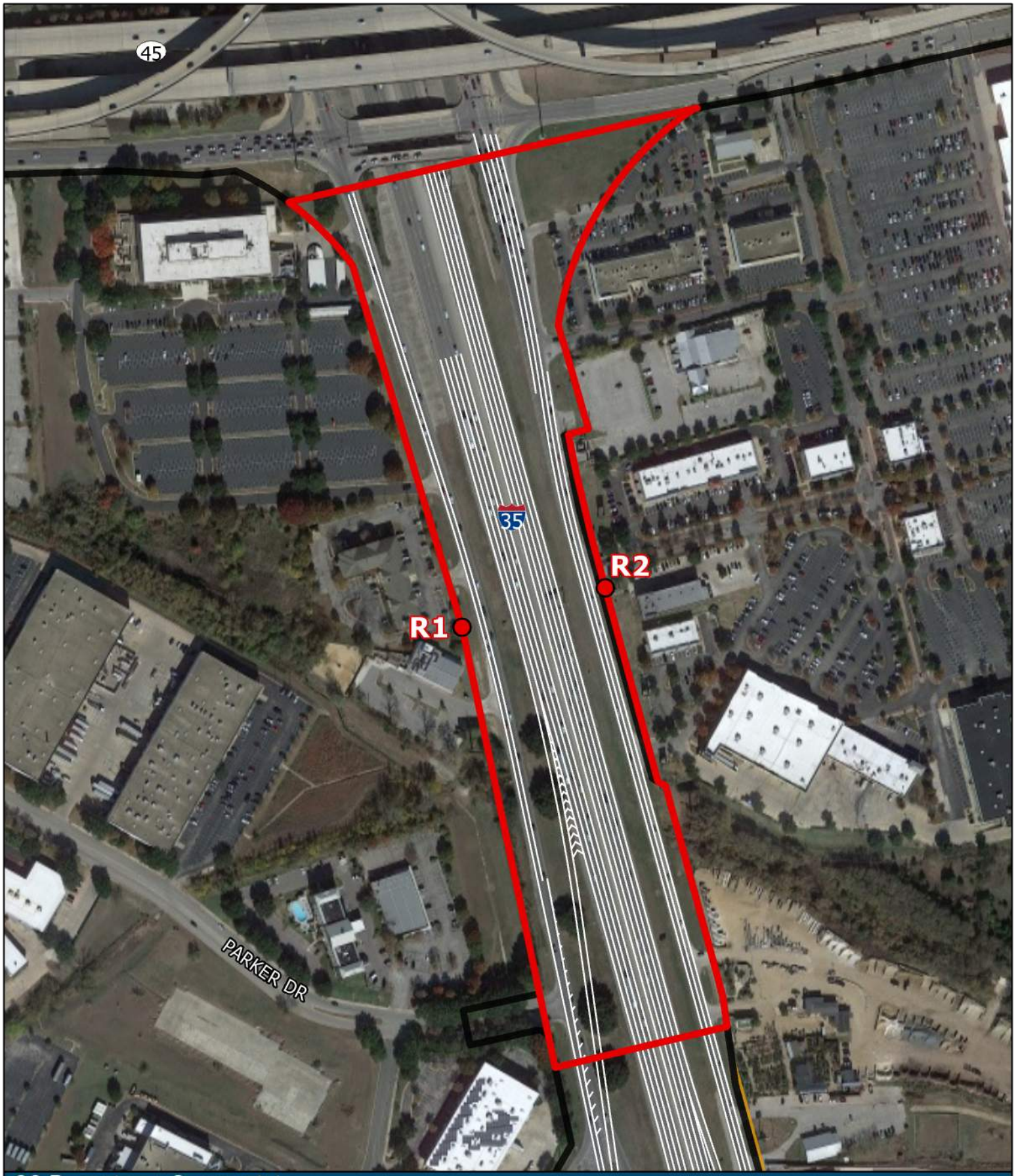
APPENDIX C

CO Receptor Locations



CO Receptors - Segment 1

I-35 Capital Express North

From SH 45N to US 290E
Travis & Williamson County, TX
CSJ: 0015-10-062 & 0015-13-389

CO Receptor
CO Modeling Area
Existing ROW
Proposed ROW
Pavement Marking

US Feet
0 230 460

Sources: Google Imagery 2019

CO Receptors - Segment 2

I-35 Capital Express North

From SH 45N to US 290E
Travis & Williamson County, TX
CSJ: 0015-10-062 & 0015-13-389

CO Receptor
CO Modeling Area
Existing ROW
Proposed ROW
Pavement Marking

US Feet
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Sources: Google Imagery 2019

CO Receptors - Segment 3

I-35 Capital Express North

From SH 45N to US 290E
Travis & Williamson County, TX
CSJ: 0015-10-062 & 0015-13-389

CO Receptor
CO Modeling Area
Existing ROW
Proposed ROW
Pavement Marking

US Feet
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Sources: Google Imagery 2019

CO Receptors - Segment 4

I-35 Capital Express North

From SH 45N to US 290E
Travis & Williamson County, TX
CSJ: 0015-10-062 & 0015-13-389

CO Receptor
CO Modeling Area
Existing ROW
Proposed ROW
Pavement Marking

US Feet
0 230 460

Sources: Google Imagery 2019

Quantitative Mobile Source Air Toxics Technical Report

I-35 Capital Express North Project

Travis and Williamson Counties, Texas
Austin District
CSJs: 0015-10-062 & 0015-13-389

January 2021

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 9, 2019, and executed by FHWA and TxDOT.

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Appendices

Appendix A: Project Location Map

Appendix B: MSAT Conference Call Meeting Minutes

Appendix C: Traffic Data

Appendix D: Analysis Tables

1.0 Background Information

The Texas Department of Transportation (TxDOT) Austin District proposes improvements to Interstate 35 (I-35) from State Highway 45 North (SH 45N) in Williamson County to US Highway 290 East (US 290E) in Travis County. The proposed improvements would add one non-tolled managed lane in each direction, reconstruct intersections and bridges to increase bridge clearances and east/west mobility, and improve bicycle and pedestrian accommodations along I-35 frontage roads and at east/west crossings. The project length is approximately 11.5 miles (see **Appendix A** for a Project Location Map).

Projects Subject to a Quantitative MSAT Analysis

Projects may be subject to a quantitative mobile source air toxics (MSAT) analysis if the project is adding capacity, the design year annual average daily traffic (AADT) is over 140,000 vehicles per day (vpd), there is public concern over air quality, or the project will affect an intermodal facility. Since the project would add capacity and the design year traffic volume is above 140,000 vpd, a quantitative MSAT is required to assess the level at which MSAT would increase or decrease as a result of this project.

The MSAT analysis methodology, including determining and approving the analysis years, the networks links to be included, and the sources for the traffic data used in the analysis, was coordinated via a conference call on June 18, 2019. The call participants consisted of representatives from TxDOT Environmental Affairs Division (ENV), TxDOT Austin District, and the consultant team. See **Appendix B** for a record of the meeting.

2.0 Qualitative MSAT Analysis

Background

Controlling air toxic emissions became a national priority with the passage of the Clean Air Act Amendments (CAAA) of 1990, whereby Congress mandated that the Environmental Protection Agency (EPA) regulate 188 air toxics, also known as hazardous air pollutants. The EPA has assessed this expansive list in their latest rule on the Control of Hazardous Air Pollutants from Mobile Sources (Federal Register, Vol. 72, No. 37, page 8430, February 26, 2007), and identified a group of 93 compounds emitted from mobile sources that are listed in their Integrated Risk Information System

(IRIS)[1]. In addition, EPA identified nine compounds with significant contributions from mobile sources that are among the national and regional-scale cancer risk drivers from their 2011 National Air Toxics Assessment (NATA)[2]. These are 1,3-butadiene, acetaldehyde, acrolein, benzene, diesel particulate matter (DPM), ethylbenzene, formaldehyde, naphthalene, and polycyclic organic matter (POM). While the Federal Highway Administration (FHWA) considers these the priority MSAT, the list is subject to change and may be adjusted in consideration of future EPA rules.

Motor Vehicle Emissions Simulator (MOVES)

According to EPA, MOVES2014 is a major revision to MOVES2010 and improves upon it in many respects. MOVES2014 includes new data, new emissions standards, and new functional improvements and features. It incorporates substantial new data for emissions, fleet, and activity developed since the release of MOVES2010. These new emissions data are for light- and heavy-duty vehicles, exhaust and evaporative emissions, and fuel effects. MOVES2014 also adds updated vehicle sales, population, age distribution, and vehicle miles traveled (VMT) data. MOVES2014 incorporates the effects of three new Federal emissions standard rules not included in MOVES2010. These new standards are all expected to impact MSAT emissions and include Tier 3 emissions and fuel standards starting in 2017 (79 FR 60344), heavy-duty greenhouse gas regulations that phase in during model years 2014–2019 (79 FR 60344), and the second phase of light duty greenhouse gas regulations that phase in during model years 2017–2025 (79 FR 60344).

Since the release of MOVES2014, EPA has released MOVES2014a. In the November 2015 MOVES2014a Questions and Answers Guide[3], EPA states that for on-road emissions, MOVES2014a adds new options requested by users for the input of local VMT, includes minor updates to the default fuel tables, and corrects an error in MOVES2014 brake wear emissions. The change in brake wear emissions results in small decreases in PM emissions, while emissions for other criteria pollutants remain essentially the same as MOVES2014. Using EPA's MOVES2014a model, as shown in **Figure 1**, FHWA estimates that even if VMT increases by 45 percent from 2010 to 2050 as forecast, a combined reduction of 91 percent in the total annual emissions for the priority MSAT is projected for the same time period.

[1] The Environmental Protection Agency (EPA) has a program titled the Integrated Risk Information System (IRIS) that characterizes the health hazards of chemicals found in the environment, including MSAT. IRIS has a process (https://www.epa.gov/iris/basic-information-about-integrated-risk-information-system) for developing these assessments, which allows for the for the public and scientific community to submit relevant information for inclusion in them."

[2] See: https://www.epa.gov/national-air-toxics-assessment

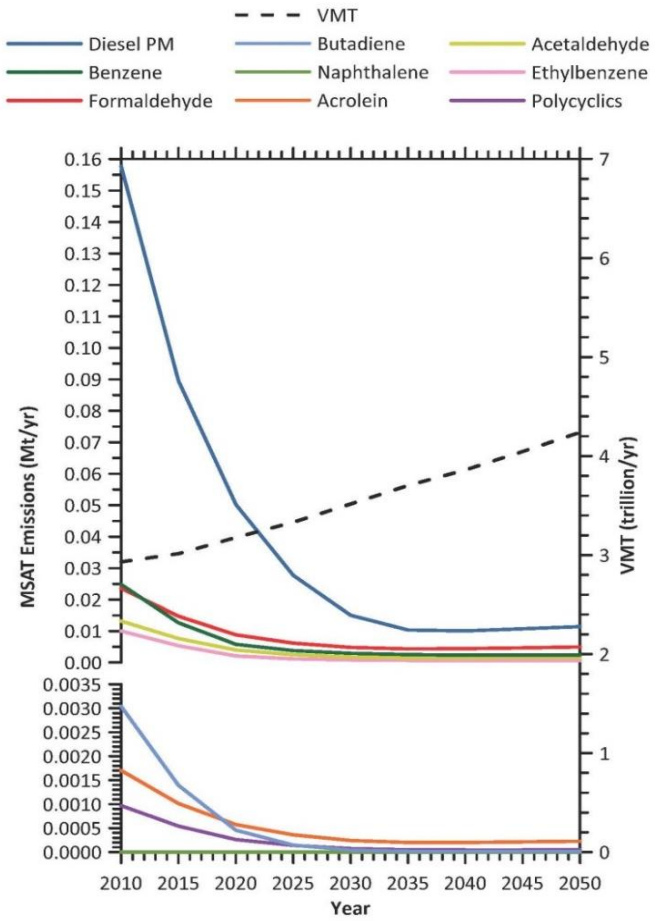
[3] See: MOVES2014a Questions and Answers Guide

DPM is the dominant component of MSAT emissions, making up 50 to 70 percent of all priority MSAT pollutants by mass, depending on calendar year. Users of MOVES2014a will notice some differences in emissions compared with MOVES2010b. MOVES2014a is based on updated data on some emissions and pollutant processes compared to MOVES2010b, and also reflects the latest Federal emissions standards in place at the time of its release. In addition, MOVES2014a emissions forecasts are based on lower VMT projections than MOVES2010b, consistent with recent trends suggesting reduced nationwide VMT growth compared to historical trends.

MSAT Research

Air toxics analysis is a continuing area of research. While much work has been done to assess the overall health risk of air toxics, many questions remain unanswered. In particular, the tools and techniques for assessing project-specific health outcomes as a result of lifetime MSAT exposure remain limited. These limitations impede the ability to evaluate how the potential health risks posed by MSAT exposure should be factored into project level decision-making within the context of the National Environmental Policy Act (NEPA). The FHWA, EPA, Health Effects Institute (HEI), and others have funded and conducted research studies to try to more clearly define potential risks from MSAT emissions associated with highway projects. The FHWA will continue to monitor the developing research in this emerging field.

Figure 1: Projected National MSAT Emissions Trends For Vehicles Operating on Roadways (2010 – 2050)



Source: EPA MOVES2014a model runs conducted by FHWA, September 2016.

Note: Trends for specific locations may be different, depending on locally derived information representing vehicle-miles traveled, vehicle speeds, vehicle mix, fuels, emission control programs, meteorological, and other factors.

Project-Specific MSAT Information

A qualitative analysis provides a basis for identifying and comparing the potential differences among MSAT emissions, if any, from the various alternatives. The qualitative assessment presented below is derived in part from a study conducted by the FHWA entitled A Methodology for Evaluating Mobile Source Air Toxic Emissions Among Transportation Project Alternatives, found at:

http://www.fhwa.dot.gov/environment/air_quality/air_toxics/research_and_analysis/mobile_source_air_toxics/msatemissions.pdf.

The VMT estimated for the Build Alternative is slightly higher than that for the No Build Alternative, because the additional capacity increases the efficiency of the roadway and attracts rerouted trips from elsewhere in the transportation network. The additional travel lanes contemplated as part of the Build Alternative will have the effect of moving some traffic closer to nearby homes, schools, and businesses; therefore, under each alternative there may be localized areas where ambient concentrations of MSAT could be higher under the Build Alternative than the No Build Alternative. The localized increases in MSAT concentrations would likely be most pronounced along the expanded roadway sections that would be built at the US 183 Interchange and Parmer Lane. However, the magnitude and the duration of these potential increases compared to the No Build Alternative cannot be reliably quantified due to incomplete or unavailable information in forecasting project-specific MSAT health impacts. Also, MSAT will be lower in other locations when traffic shifts away from them. However, on a regional basis, EPA's vehicle and fuel regulations, coupled with fleet turnover, will over time cause substantial reductions that, in almost all cases, will cause region-wide MSAT levels to be significantly lower than today.

Incomplete or Unavailable Information for Project-Specific MSAT Health Impacts Analysis

In FHWA's view, information is incomplete or unavailable to credibly predict the project-specific health impacts due to changes in MSAT emissions associated with a proposed set of highway alternatives[4]. The outcome of such an assessment, adverse or not, would be influenced more by the uncertainty introduced into the process through assumption and speculation rather than any genuine insight into the actual health impacts directly attributable to MSAT exposure associated with

[4] FHWA Updated Interim Guidance on Mobile Source Air Toxic Analysis in NEPA Documents, October 18, 2016.

a proposed action.[5] Consistent with 40 CFR 1502.22 (regarding incomplete and unavailable information) FHWA does not conduct MSAT health impacts for the reasons described below.

The EPA is responsible for protecting the public health and welfare from any known or anticipated effect of an air pollutant. The EPA is the lead authority for administering the Clean Air Act and its amendments and have specific statutory obligations with respect to hazardous air pollutants and MSAT. The EPA is in the continual process of assessing human health effects, exposures, and risks posed by air pollutants. They maintain IRIS, which is "a compilation of electronic reports on specific substances found in the environment and their potential to cause human health effects"[6]. Each report contains assessments of non-cancerous and cancerous effects for individual compounds and quantitative estimates of risk levels from lifetime oral and inhalation exposures with uncertainty spanning perhaps an order of magnitude.

Other organizations are also active in the research and analyses of the human health effects of MSAT, including HEI. Two HEI studies are summarized in Appendix D of FHWA's Interim Guidance Update on Mobile source Air Toxic Analysis in NEPA Documents. Among the adverse health effects linked to MSAT compounds at high exposures are: cancer in humans in occupational settings; cancer in animals; and irritation to the respiratory tract, including the exacerbation of asthma. Less obvious is the adverse human health effects of MSAT compounds at current environmental concentrations[7] in the future as vehicle emissions substantially decrease.

The methodologies for forecasting health impacts include emissions modeling; dispersion modeling; exposure modeling; and then final determination of health impacts – each step in the process building on the model predictions obtained in the previous step. All are encumbered by technical shortcomings or uncertain science that prevents a more complete differentiation of the MSAT health impacts among a set of project alternatives. These difficulties are magnified for lifetime (i.e., 70 year) assessments, particularly because unsupportable assumptions would have to be made regarding changes in travel patterns and vehicle technology (which affects emissions rates) over that time frame, since such information is unavailable.

[5] FHWA Updated Interim Guidance on Mobile Source Air Toxic Analysis in NEPA Documents, October 18, 2016.
[6] See: http://www.epa.gov/iris/
[7] See: HEI, https://www.healtheffects.org/publication/mobile-source-air-toxics-critical-review-literature-exposure-and-health-effects

It is particularly difficult to reliably forecast 70-year lifetime MSAT concentrations and exposure near roadways; to determine the portion of time that people are actually exposed at a specific location; and to establish the extent attributable to a proposed action, especially given that some of the information needed is unavailable.

There are considerable uncertainties associated with the existing estimates of toxicity of the various MSAT, because of factors such as low-dose extrapolation and translation of occupational exposure data to the general population, a concern expressed by HEI[8]. As a result, there is no national consensus on air dose-response values assumed to protect the public health and welfare for MSAT compounds, in particular for DPM. The EPA states that with respect to diesel engine exhaust, "[t]he absence of adequate data to develop a sufficiently confident dose-response relationship from the epidemiologic studies has prevented the estimation of inhalation carcinogenic risk (EPA IRIS database, Diesel Engine Exhaust, Section II.C[9]).

There is also the lack of a national consensus on an acceptable level of risk. The current context is the process used by the EPA as provided by the Clean Air Act to determine whether more stringent controls are required in order to provide an ample margin of safety to protect public health or to prevent an adverse environmental effect for industrial sources subject to the maximum achievable control technology standards, such as benzene emissions from refineries. The decision framework is a two-step process. The first step requires EPA to determine an "acceptable" level of risk due to emissions from a source, which is generally no greater than approximately 100 in a million. Additional factors are considered in the second step, the goal of which is to maximize the number of people with risks less than 1 in a million due to emissions from a source. The results of this statutory two-step process do not guarantee that cancer risks from exposure to air toxics are less than 1 in a million; in some cases, the residual risk determination could result in maximum individual cancer risks that are as high as approximately 100 in a million. In a June 2008 decision, the U.S. Court of Appeals for the District of Columbia Circuit upheld EPA's approach to addressing risk in its two-step decision framework. Information is incomplete or unavailable to establish that even the largest of highway projects would result in levels of risk greater than deemed acceptable[10].

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[8] See: https://www.healtheffects.org/publication/mobile-source-air-toxics-critical-review-literature-exposure-and-health-effects
[9] See: https://cfpub.epa.gov/ncea/iris/iris_documents/documents/subst/0642.htm#quainhal)
[10] See: https://www.cadc.uscourts.gov/internet/opinions.nsf/284E23FFE079CD59852578000050C9DA/$file/07-1053-1120274.pdf

3.0 Analysis Methodology

The approach used in the analysis of MSATs along the project area considers the on-road sources for the nine priority MSATs in three different scenarios: Base (2018), No Build (2045), and Build (2045). The analysis of an interim year was not required per coordination during the MSAT Conference Call.

A project links method was used for the analysis. The mainlanes, frontage roads, and ramps within the project were represented as links in the analysis, with a distinct traffic volume, length, and speed for each scenario. The VMT for each link was multiplied by an emission rate for each of the nine priority MSATs for a total in each scenario.

The analysis utilizes the TxDOT Emission Rates Lookup Table (ERLT) for MSAT (*TxDOT Air Quality Toolkit, January 2017*) for the Austin region, which are based on the MOVES2014 model for each of the priority MSATs for the corresponding analysis years and associated roadway link parameters. These parameters include posted speeds for all road types, an urban or rural designation, and roadway classification of restricted or unrestricted. Because the current ERLTs do not extend to the design year of 2045, the rates for the year 2040 were used as a surrogate. The use of these rates represents a worst-case analysis, since emission rates decline over time.

4.0 Analysis Results

The resulting emission inventory for the nine priority MSATs for the project link network is summarized in **Table 1** and **Figures 2** and **3**. The analysis indicates that a decrease in MSAT emissions can be expected for both the Build and No Build Alternatives in 2045, compared to the existing year of 2018. Under the Build Alternative, emissions of total MSAT are predicted to decrease by 73% from 2018 to 2045, even though VMT is expected to rise by 54%.

All nine MSAT compounds are expected to decrease from the base scenario in both the Build and No-Build scenarios. Of the nine priority MSAT compounds, DPM contributes the most to the emissions total for all scenarios, followed by formaldehyde. In future years, a large reduction in DPM emissions is predicted, with a calculated 81% decrease from 2018 to 2045 in both scenarios.

Table 1: MSAT Emission Inventory by Scenario (2018 – 2045)

Compound	Year/Scenario				
	2018 Base	2045 Design			
	Total (tons/year)	No Build Total (tons/year)	Percent Change from 2018	Build Total (tons/year)	Percent Change from 2018
Benzene	1.18	0.38	-68%	0.39	-67%
Naphthalene	0.16	0.06	-61%	0.06	-60%
Butadiene	0.12	0.00	-98%	0.00	-98%
Formaldehyde	1.47	0.75	-49%	0.77	-47%
Acrolein	0.09	0.03	-63%	0.04	-62%
DPM	7.53	1.40	-81%	1.43	-81%
POM	0.06	0.02	-71%	0.02	-71%
Acetaldehyde	0.69	0.25	-64%	0.26	-63%
Ethylbenzene	0.57	0.25	-56%	0.26	-55%
Total MSAT (Tons/Year)	11.89	3.15	-74%	3.23	-73%
Total VMT (Miles/Year)	851,606,903.45	1,281,384,926.56	50%	1,310,037,335.78	54%

Figure 2: Projected MSAT Emissions vs. VMT by Scenario

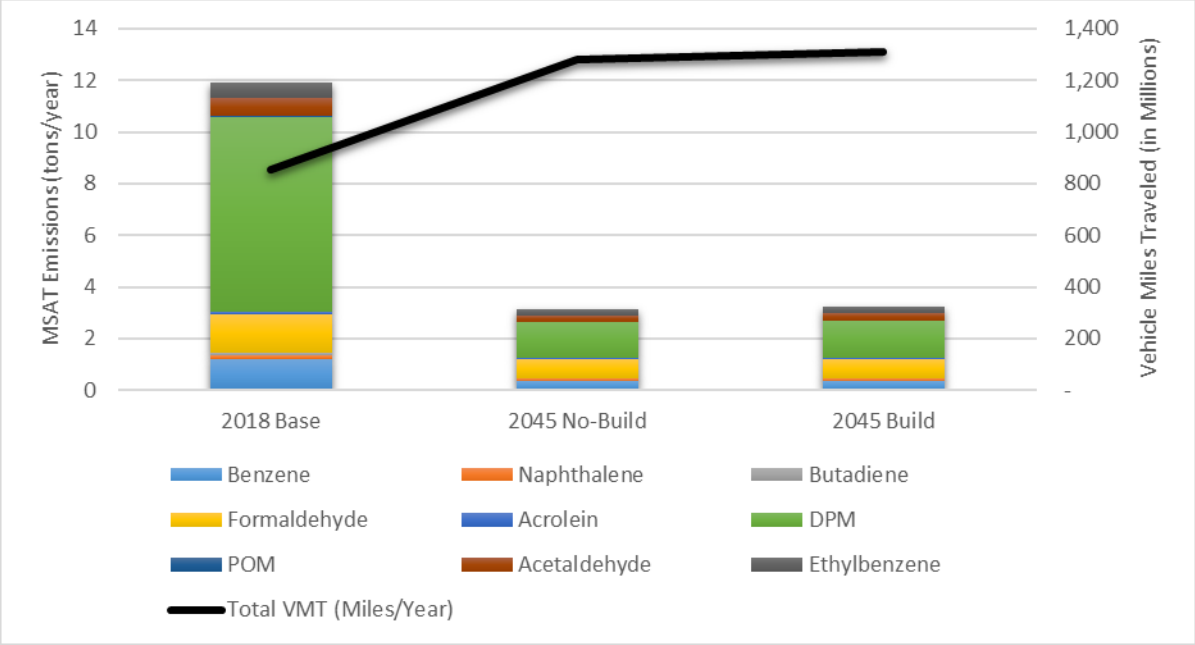
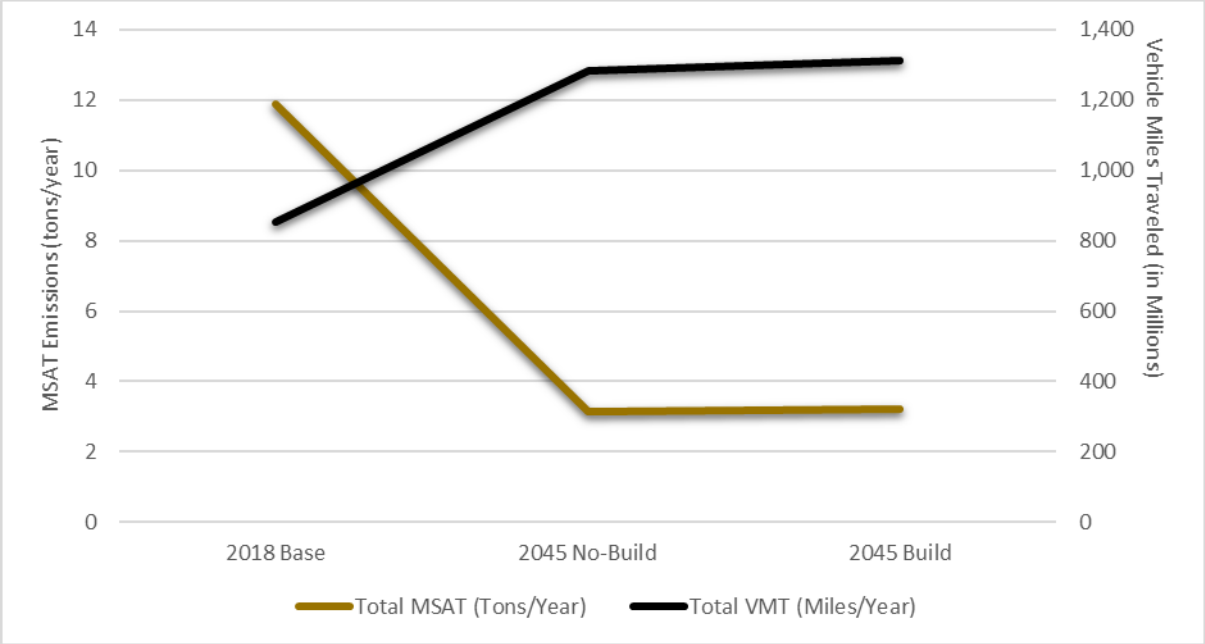


Figure 3: Comparison of Total MSAT Emissions vs. VMT by Scenario

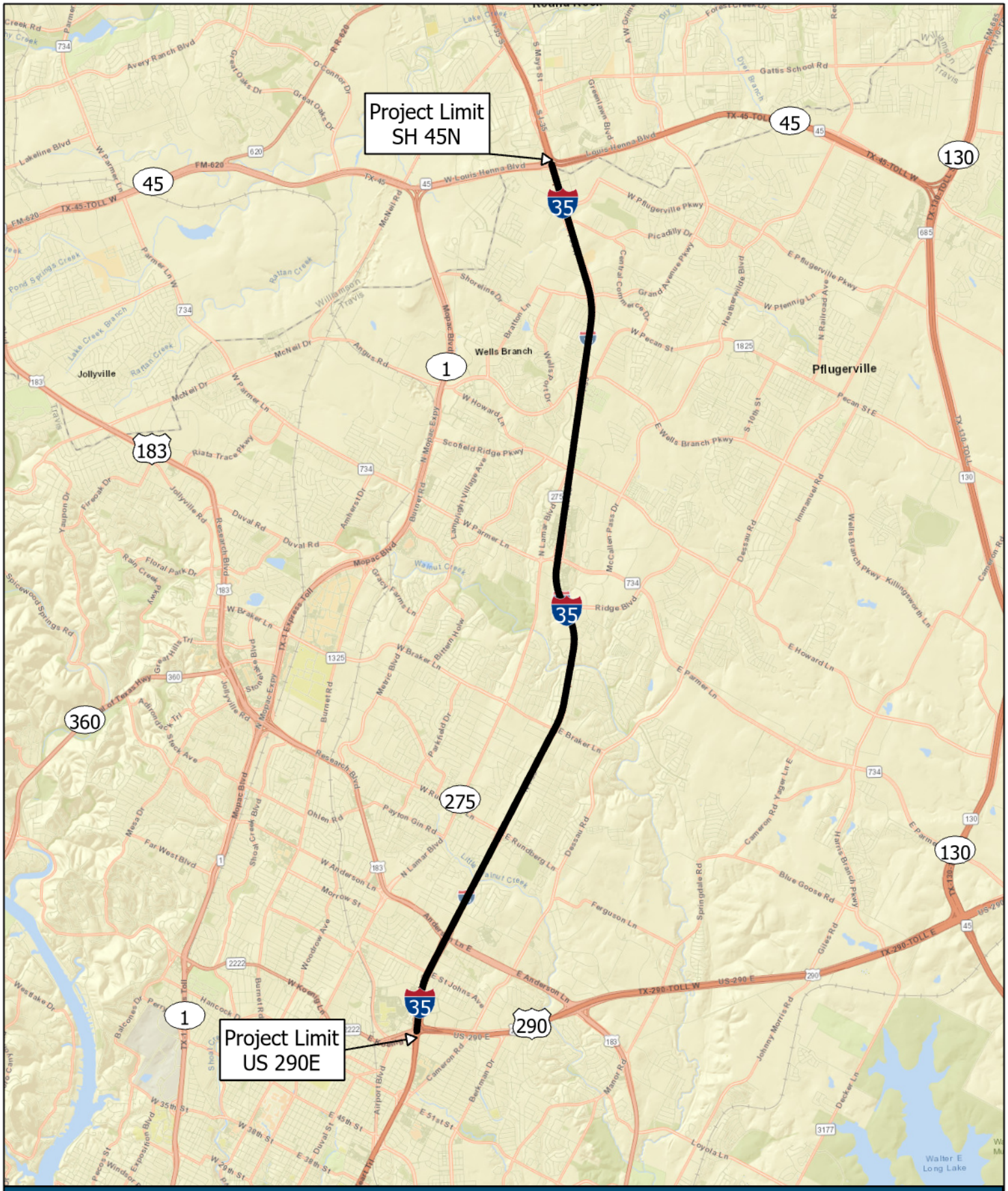


5.0 Conclusion

In sum, both the Build and No Build Alternative in the design year are expected to be associated with lower levels of MSAT emissions compared to the base year. There is a minor increase in MSAT emissions expected between the No Build and Build Alternatives for the design year. Under all alternatives, MSAT levels are likely to decrease over time due to nationally mandated cleaner vehicles and fuels.

APPENDIX A

Project Location Map



I-35 Capital Express North

From SH 45N to US 290E
Travis & Williamson County, TX
CSJ: 0015-10-062 & 0015-13-389

Project Limits

Miles
0 1 2

Sources: ESRI Basemap 2020

APPENDIX B

MSAT Conference Call Meeting Minutes

Meeting Minutes

Project Names	Capital Express North / South Projects	Job #/CSJ	0015-10-062, 0015-13-077
Meeting Location	Conference Call	Meeting Date	6/18/2019
Meeting Purpose	Air Quality Approach Discussion		

Attendees:

Tim Wood	TxDOT ENV
Bill Tillar	AECOM GEC
Ryan Ingram	AECOM GEC

The following represents the undersigned's understanding of the issues discussed and the resolutions agreed upon. Any objection to any item(s) in these minutes must be submitted in writing to the undersigned within ten (10) calendar days of the issue date of these minutes or these minutes shall become part of the permanent project record.

Discussion Topics:

1. Introductions
2. Overview
    a. Project Description
        i. Capital Express North (I-35 from SH 45N to US 290E)
            1. This project is being environmentally cleared as an Environmental Assessment (EA) and mainly consists of adding one managed lane (HOV 2+) in each direction within the limits.
        ii. Capital Express South (I-35 from US 290W /SH 71 to SH 45SE)
            1. This project is being environmentally cleared as an Environmental Assessment (EA) and mainly consists of adding two managed lanes (HOV 2+) in each direction within the limits.
    b. Reason for Call
        i. The call was held to discuss the years of analysis required for MSAT and CO TAQA. The project is added capacity and has AADT > 140,000.
    c. The project's anticipated environmental approval date: North: December 2020, South: December 2020.

i. The estimated time to completion (ETC) year: North: 2025, South: 2024 (ETC refers to the conclusion of construction and the opening year of the project.)

3. MSAT Analysis
    a. The appropriate base year and design year to analyze in the MSAT analysis (both projects).
        i. Base year: 2018
        ii. Design/horizon year: 2045
    b. An interim year would not be required for either project.
    c. Methodology for determining the affected network:
        i. If traffic data has been developed from a corridor travel demand model (TDM), then all links within the corridor analysis should be analyzed using the standard +/- 5 percent affected network method will be used for the project per TxDOT's air quality toolkit.
        ii. Otherwise, only the project links will be included in the MSAT analysis.
    d. MSAT emission rate tables are available and 2040 tables should be used since 2045 tables have not been developed.
4. CO TAQA
    a. Discuss ETC and design year for analysis
        i. ETC year would be 2025 (North) and 2024 (South)
        ii. The design/horizon year for both projects is 2045
    b. Use CAL3QHC model for analysis
5. GHG
    a. GHG analysis not required for either project since each document is an EA.

Action Items:

1. GEC will have a call with traffic consultant to determine when Build and No-Build traffic will be available for 2045. Bill/Ryan to follow-up with Tim after data is received. Analysis requirements for MSAT and CO TAQA may be revised based on comparison of 2045 No Build vs Build traffic volumes.

APPENDIX C

Traffic Data

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Mainlanes)												
Section 1												
Mainlanes Cutline Section 1	181,550	238,300	51 - 49	7.0	10.3	4.6	0	0	0	3	0	8"
Travis County												

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	89.7	95.4
Medium Duty	1.8	0.8
Heavy Duty	8.5	3.8

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Mainlanes)												
Section 1												
Mainlanes Cutline Section 1	181,550	262,450	51 - 49	7.0	10.3	4.6	0	0	0	3	0	8"
Travis County												

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Mainlanes) Section 2 Mainlanes Cutline Section 2 Travis County	245,200	305,900	51 - 49	5.9	8.9	4.0	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	91.1	96.0
Medium Duty	2.5	1.1
Heavy Duty	6.4	2.9

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Mainlanes) Section 2 Mainlanes Cutline Section 2 Travis County	245,200	336,300	51 - 49	5.9	8.9	4.0	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Mainlanes) Section 3 Mainlanes Cutline Section 3 Travis County	209,150	274,500	55 - 45	7.1	9.6	4.3	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	90.4	95.7
Medium Duty	2.2	1.0
Heavy Duty	7.4	3.3

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Mainlanes) Section 3 Mainlanes Cutline Section 3 Travis County	209,150	302,200	55 - 45	7.1	9.6	4.3	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 1 Frontage Road Cutline Section 1 Travis County	9,300	12,200	51 - 49	7.0	4.1	3.1	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	95.9	96.9
Medium Duty	3.6	2.7
Heavy Duty	0.5	0.4

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 1 Frontage Road Cutline Section 1 Travis County	9,300	13,400	51 - 49	7.0	4.1	3.1	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 2 Frontage Road Cutline Section 2 Travis County	48,800	63,950	51 - 49	7.0	3.2	2.4	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	96.8	97.6
Medium Duty	2.8	2.1
Heavy Duty	0.4	0.3

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 2 Frontage Road Cutline Section 2 Travis County	48,800	70,450	51 - 49	7.0	3.2	2.4	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 3 Frontage Road Cutline Section 3 Travis County	78,900	103,550	51 - 49	7.0	2.6	2.0	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	97.4	98.0
Medium Duty	2.3	1.7
Heavy Duty	0.3	0.3

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 3 Frontage Road Cutline Section 3 Travis County	78,900	113,900	51 - 49	7.0	2.6	2.0	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 4 Frontage Road Cutline Section 4 Travis County	71,050	89,450	51 - 49	7.0	2.7	2.0	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	97.3	98.0
Medium Duty	2.4	1.8
Heavy Duty	0.3	0.2

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 4 Frontage Road Cutline Section 4 Travis County	71,050	98,350	51 - 49	7.0	2.7	2.0	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 5 Frontage Road Cutline Section 5 Travis County	48,400	60,200	51 - 49	5.9	3.2	2.4	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	96.8	97.6
Medium Duty	2.8	2.1
Heavy Duty	0.4	0.3

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 5 Frontage Road Cutline Section 5 Travis County	48,400	66,250	51 - 49	5.9	3.2	2.4	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 6 Frontage Road Cutline Section 6 Travis County	84,400	104,500	51 - 49	5.9	2.6	2.0	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	97.4	98.0
Medium Duty	2.3	1.7
Heavy Duty	0.3	0.3

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 6 Frontage Road Cutline Section 6 Travis County	84,400	112,550	51 - 49	5.9	2.6	2.0	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 7 Frontage Road Cutline Section 7 Travis County	59,050	71,850	55 - 45	7.1	3.3	2.5	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	96.7	97.5
Medium Duty	2.2	1.7
Heavy Duty	1.1	0.8

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 7 Frontage Road Cutline Section 7 Travis County	59,050	79,400	55 - 45	7.1	3.3	2.5	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 8 Frontage Road Cutline Section 8 Travis County	80,850	91,450	55 - 45	7.1	2.9	2.2	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	97.1	97.8
Medium Duty	1.9	1.4
Heavy Duty	1.0	0.8

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 8 Frontage Road Cutline Section 8 Travis County	80,850	100,000	55 - 45	7.1	2.9	2.2	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 9 Frontage Road Cutline Section 9 Travis County	95,250	124,650	55 - 45	7.1	2.7	2.0	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	97.3	98.0
Medium Duty	1.8	1.4
Heavy Duty	0.9	0.6

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 9 Frontage Road Cutline Section 9 Travis County	95,250	137,150	55 - 45	7.1	2.7	2.0	0	0	0	3	0	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

Austin District

August 22, 2019

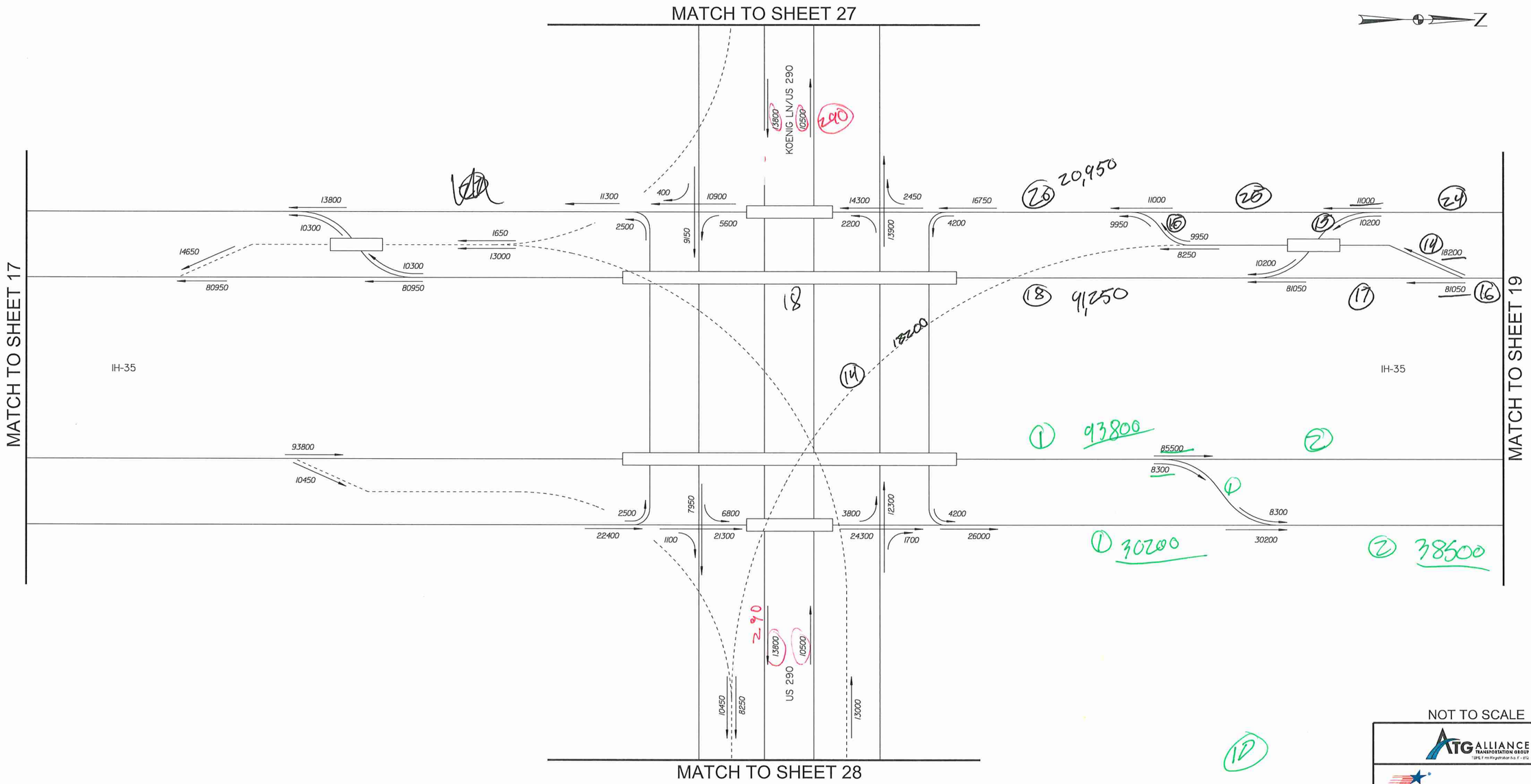
Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2050	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2030 to 2050) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 10 Frontage Road Cutline Section 10 Travis County	84,000	110,150	55 - 45	7.1	2.9	2.2	0	0	0	3	0	8"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year % of ADT	Base Year % of DHV
Light Duty	97.1	97.8
Medium Duty	1.9	1.4
Heavy Duty	1.0	0.8

Description of Location	Average Daily Traffic 2030	Average Daily Traffic 2060	Base Year Dir Dist %	Base Year K Factor	Base Year Percent Trucks ADT	Base Year Percent Trucks DHV	ATHWLD	Percent Tandem Axles in ATHWLD	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2030 to 2060) Flexible Pavement	S N	Rigid Pavement	SLAB
I-35 (Frontage Roads) Section 10 Frontage Road Cutline Section 10 Travis County	84,000	121,250	55 - 45	7.1	2.9	2.2	0	0	0	3	0	8"

2018 EXISTING CONFIGURATION



2018 FORECASTED AVERAGE DAILY TRAFFIC VOLUMES
AND TURNING MOVEMENTS AT SPECIFIED POINTS ALONG
IH-35 FROM MAIN ST TO HESTER'S CROSSING ROAD
AND US 290 FROM AIRPORT BLVD TO US 183

LEGEND

1000 - 2018 ADT
LD - LOWER DECK
UD - UPPER DECK
→ TRAVEL DIRECTION

NOT TO SCALE

ATG ALLIANCE TRANSPORTATION GROUP

Texas Department of Transportation

CAPITAL EXPRESS
2018 EXISTING CONFIGURATION
24 HOUR VOLUMES
(SHEET 18 OF 28)

SCALE : N.T.S.		PROJECT NO.		
DWN: TH	CKD: HH			
STATE	STATE DISTRICT	FED. RD. DIV. NO.	COUNTY	
TEXAS	14	6	TRAVIS	
CONTROL	SECTION	JOB	HWY. NO.	SHEET NO.
5000	00	106	IH-35	18

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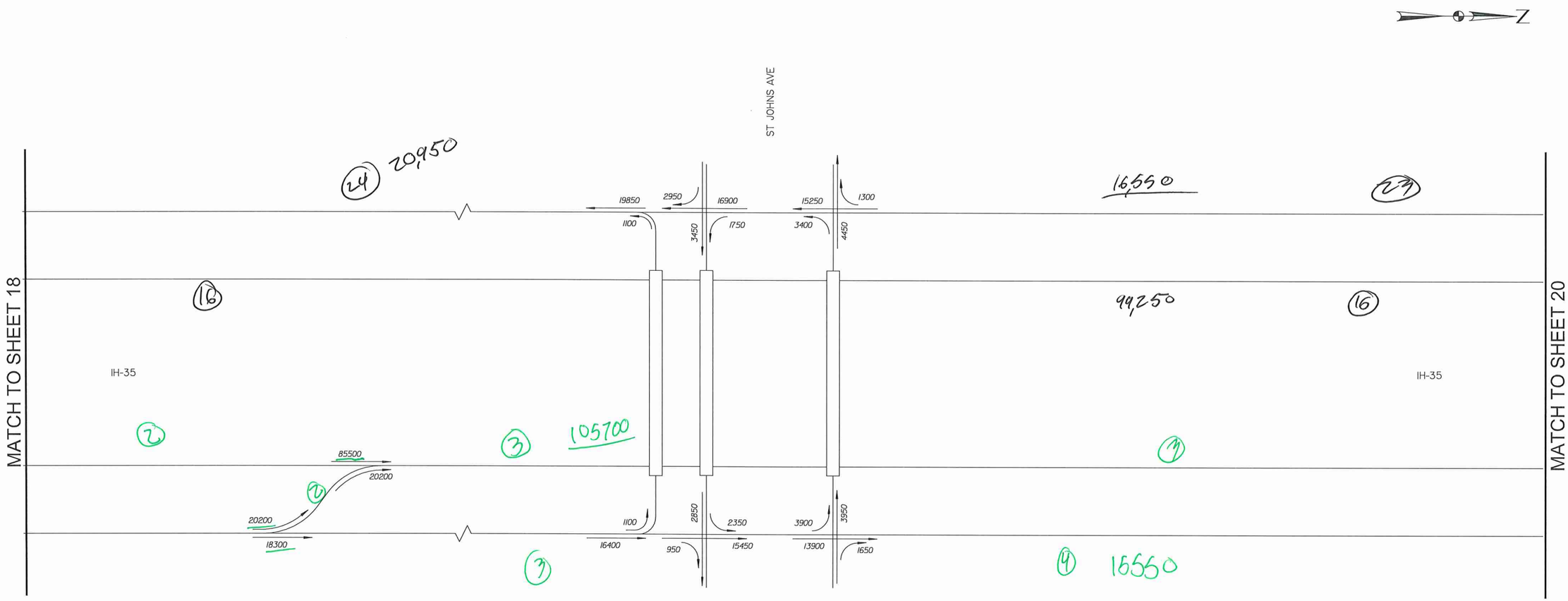
2018 EXISTING CONFIGURATION



2018 FORECASTED AVERAGE DAILY TRAFFIC VOLUMES
AND TURNING MOVEMENTS AT SPECIFIED POINTS ALONG
IH-35 FROM MAIN ST TO HESTER'S CROSSING ROAD
AND US 290 FROM AIRPORT BLVD TO US 183

LEGEND

1000 - 2018 ADT
LD - LOWER DECK
UD - UPPER DECK
→ TRAVEL DIRECTION

NOT TO SCALE

ATG ALLIANCE TRANSPORTATION GROUP
TBPELS Firm Registration No. F-812

Texas Department of Transportation

CAPITAL EXPRESS
2018 EXISTING CONFIGURATION
24 HOUR VOLUMES
(SHEET 19 OF 28)

SCALE : N.T.S.		PROJECT NO.		
DWN: TH	CKD: HH			
STATE	STATE DISTRICT	FED. RD. DIV. NO.	COUNTY	
TEXAS	14	6	TRAVIS	
CONTROL	SECTION	JOB	HWY. NO.	SHEET NO.
5000	00	106	IH-35	19

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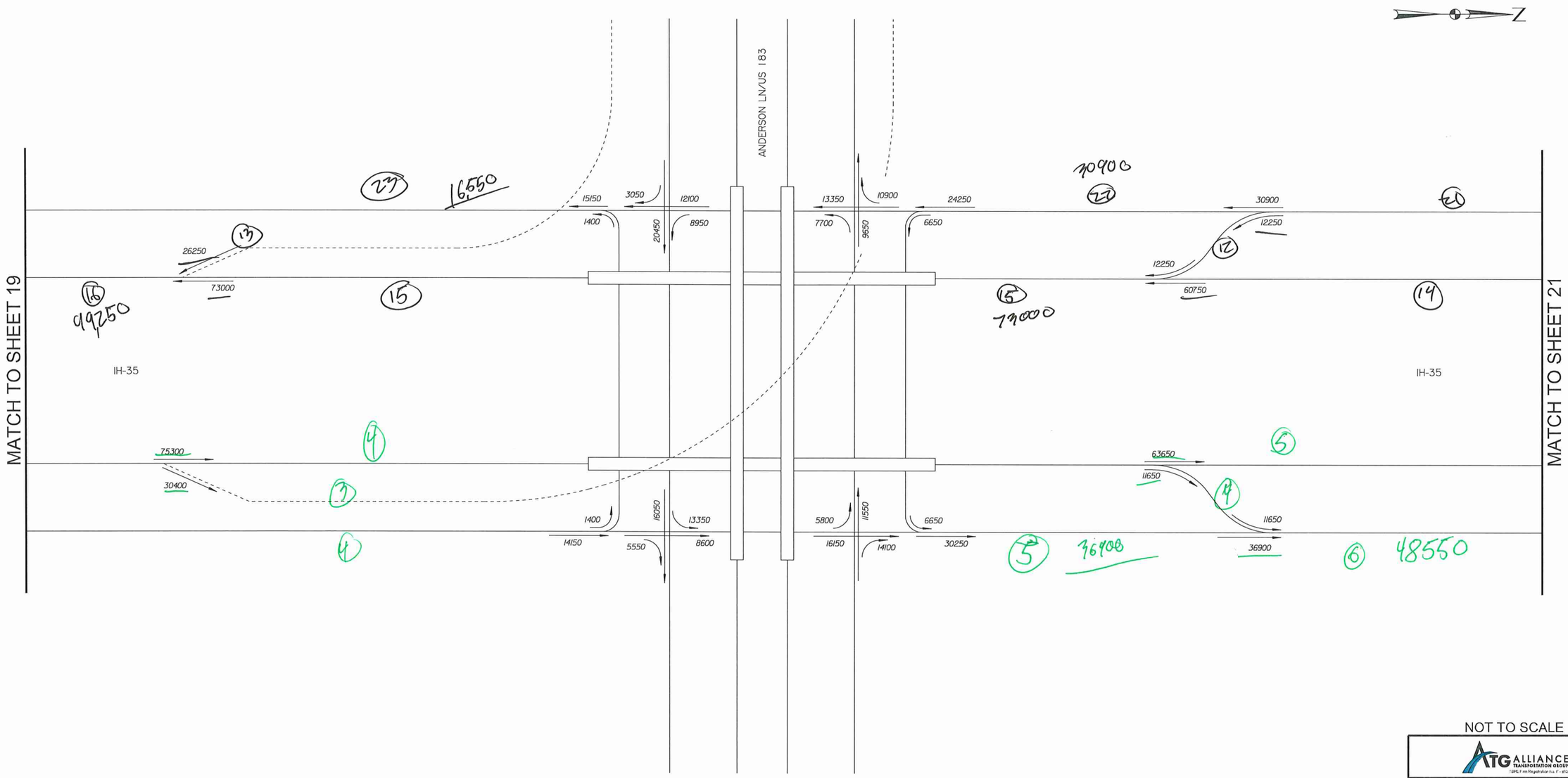
2018 EXISTING CONFIGURATION



2018 FORECASTED AVERAGE DAILY TRAFFIC VOLUMES
AND TURNING MOVEMENTS AT SPECIFIED POINTS ALONG
IH-35 FROM MAIN ST TO HESTER'S CROSSING ROAD
AND US 290 FROM AIRPORT BLVD TO US 183

LEGEND

1000 - 2018 ADT
LD - LOWER DECK
UD - UPPER DECK
→ TRAVEL DIRECTION

NOT TO SCALE

ATG ALLIANCE TRANSPORTATION GROUP
TBPE Firm Registration No. F-812

Texas Department of Transportation

CAPITAL EXPRESS
2018 EXISTING CONFIGURATION
24 HOUR VOLUMES
(SHEET 20 OF 28)

SCALE : N.T.S.			PROJECT NO.	
DWN: TH	CKD: HH			
STATE	STATE DISTRICT	FED. RD. DIV. NO.	COUNTY	
TEXAS	14	6	TRAVIS	
CONTROL	SECTION	JOB	HWY. NO.	SHEET NO.
5000	00	106	IH-35	20

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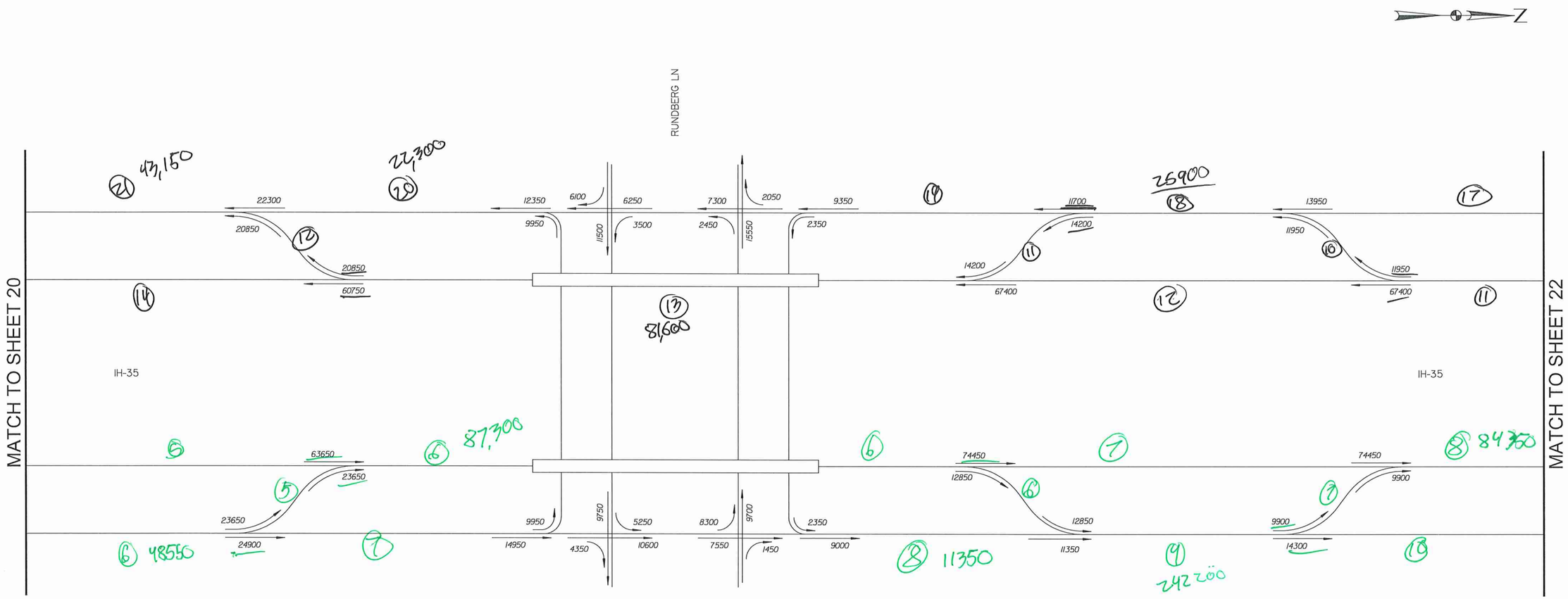
2018 EXISTING CONFIGURATION



2018 FORECASTED AVERAGE DAILY TRAFFIC VOLUMES
AND TURNING MOVEMENTS AT SPECIFIED POINTS ALONG
IH-35 FROM MAIN ST TO HESTER'S CROSSING ROAD
AND US 290 FROM AIRPORT BLVD TO US 183

LEGEND

1000 - 2018 ADT
LD - LOWER DECK
UD - UPPER DECK
→ TRAVEL DIRECTION

NOT TO SCALE

ATG ALLIANCE TRANSPORTATION GROUP
TBPE Firm Registration No. F-9112

Texas Department of Transportation

CAPITAL EXPRESS
2018 EXISTING CONFIGURATION
24 HOUR VOLUMES
(SHEET 21 OF 28)

SCALE : N.T.S.			PROJECT NO.	
DWN: TH	CKD: HH			
STATE	STATE DISTRICT	FED. RD. DIV. NO.	COUNTY	
TEXAS	14	6	TRAVIS	
CONTROL	SECTION	JOB	HWY. NO.	SHEET NO.
5000	00	106	IH-35	21

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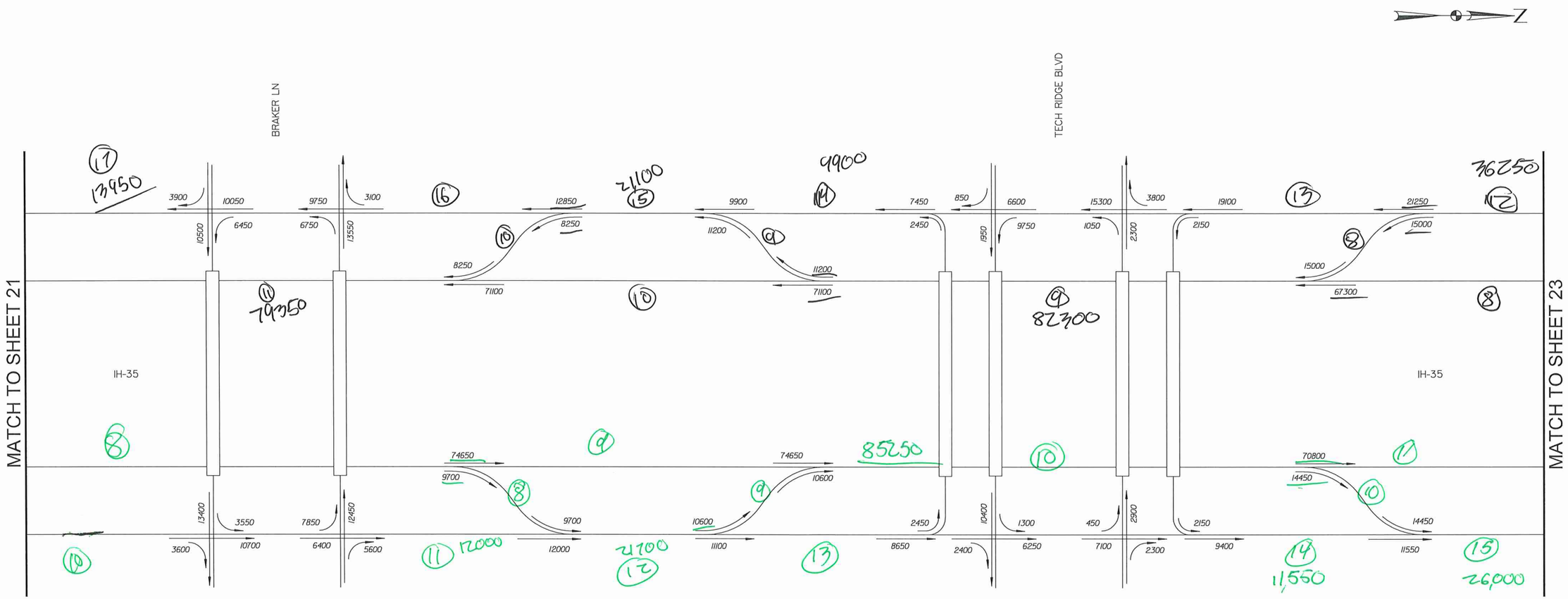
2018 EXISTING CONFIGURATION



2018 FORECASTED AVERAGE DAILY TRAFFIC VOLUMES
AND TURNING MOVEMENTS AT SPECIFIED POINTS ALONG
IH-35 FROM MAIN ST TO HESTER'S CROSSING ROAD
AND US 290 FROM AIRPORT BLVD TO US 183

LEGEND

1000 - 2018 ADT
LD - LOWER DECK
UD - UPPER DECK
→ TRAVEL DIRECTION

NOT TO SCALE

ATG ALLIANCE TRANSPORTATION GROUP

Texas Department of Transportation

CAPITAL EXPRESS
2018 EXISTING CONFIGURATION
24 HOUR VOLUMES
(SHEET 22 OF 28)

SCALE : N.T.S.			PROJECT NO.	
DWN: TH	CKD: HH			
STATE	STATE DISTRICT	FED. RD. DIV. NO.	COUNTY	
TEXAS	14	6	TRAVIS	
CONTROL	SECTION	JOB	HWY. NO.	SHEET NO.
5000	00	106	IH-35	22

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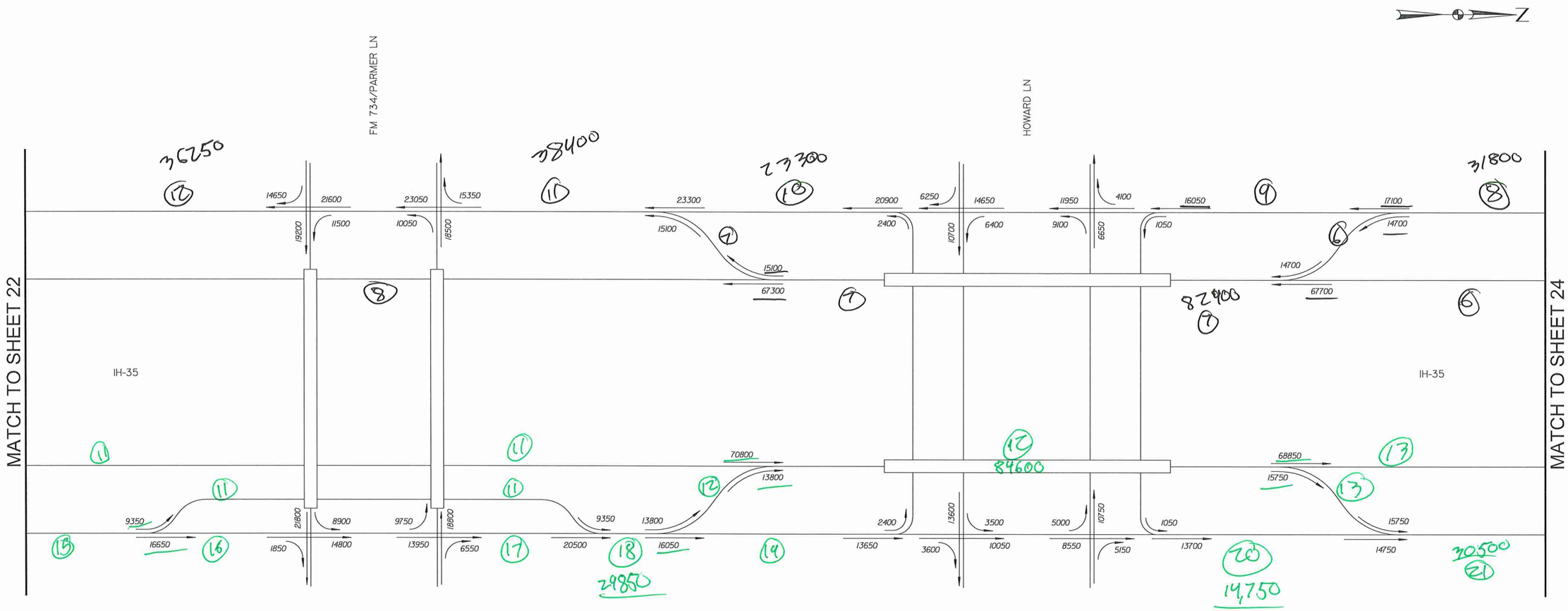
2018 EXISTING CONFIGURATION



2018 FORECASTED AVERAGE DAILY TRAFFIC VOLUMES
AND TURNING MOVEMENTS AT SPECIFIED POINTS ALONG
IH-35 FROM MAIN ST TO HESTER'S CROSSING ROAD
AND US 290 FROM AIRPORT BLVD TO US 183

LEGEND

1000 - 2018 ADT
LD - LOWER DECK
UD - UPPER DECK
→ TRAVEL DIRECTION

NOT TO SCALE

ATG ALLIANCE TRANSPORTATION GROUP
TBPE Firm Registration No. F-812

Texas Department of Transportation

CAPITAL EXPRESS
2018 EXISTING CONFIGURATION
24 HOUR VOLUMES
(SHEET 23 OF 28)

SCALE : N.T.S.			PROJECT NO.	
DWN: TH	CKD: HH			
STATE	STATE DISTRICT	FED. RD. DIV. NO.	COUNTY	
TEXAS	14	6	TRAVIS	
CONTROL	SECTION	JOB	HWY. NO.	SHEET NO.
5000	00	106	IH-35	23

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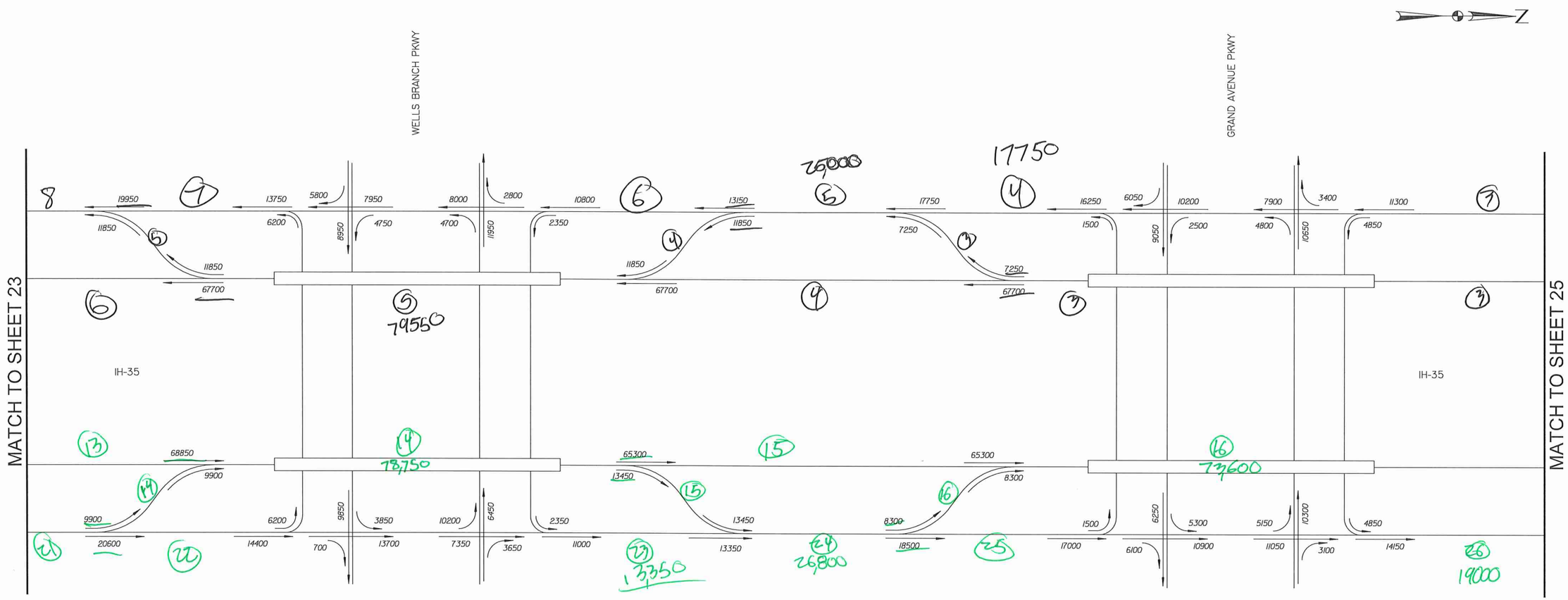
2018 EXISTING CONFIGURATION



2018 FORECASTED AVERAGE DAILY TRAFFIC VOLUMES
AND TURNING MOVEMENTS AT SPECIFIED POINTS ALONG
IH-35 FROM MAIN ST TO HESTER'S CROSSING ROAD
AND US 290 FROM AIRPORT BLVD TO US 183

LEGEND

1000 - 2018 ADT
LD - LOWER DECK
UD - UPPER DECK
→ TRAVEL DIRECTION

NOT TO SCALE

ATG ALLIANCE TRANSPORTATION GROUP
TBPE Firm Registration No. F-9112

Texas Department of Transportation

CAPITAL EXPRESS
2018 EXISTING CONFIGURATION
24 HOUR VOLUMES
(SHEET 24 OF 28)

SCALE : N.T.S.			PROJECT NO.	
DWN: TH	CKD: HH			
STATE	STATE DISTRICT	FED. RD. DIV. NO.	COUNTY	
TEXAS	14	6	TRAVIS	
CONTROL	SECTION	JOB	HWY. NO.	SHEET NO.
5000	00	106	IH-35	24

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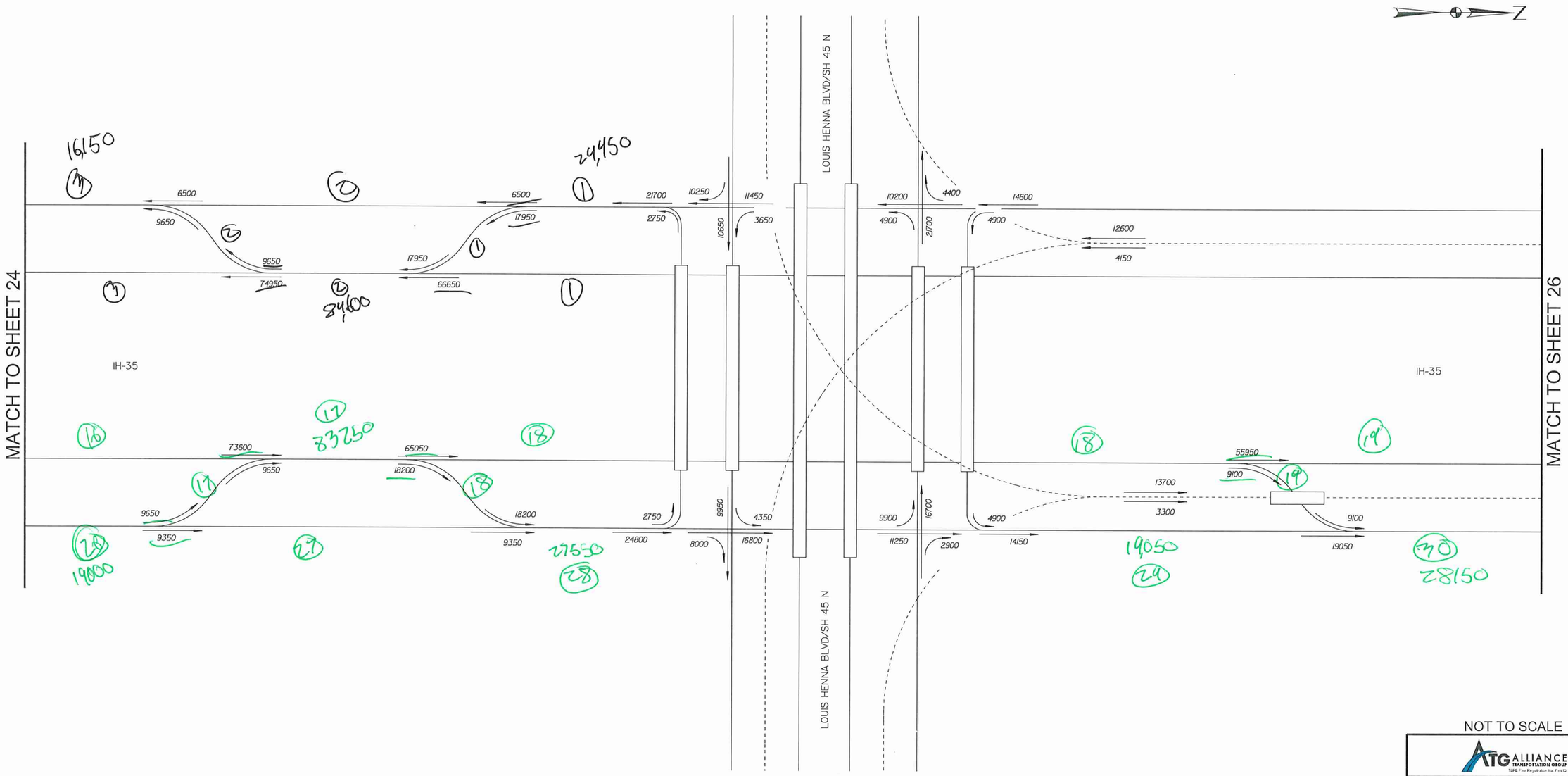
2018 EXISTING CONFIGURATION



2018 FORECASTED AVERAGE DAILY TRAFFIC VOLUMES
AND TURNING MOVEMENTS AT SPECIFIED POINTS ALONG
IH-35 FROM MAIN ST TO HESTER'S CROSSING ROAD
AND US 290 FROM AIRPORT BLVD TO US 183

LEGEND

1000 - 2018 ADT
LD - LOWER DECK
UD - UPPER DECK
→ TRAVEL DIRECTION

NOT TO SCALE

ATG ALLIANCE TRANSPORTATION GROUP
TBPE Firm Registration No. F-812

Texas Department of Transportation

CAPITAL EXPRESS
2018 EXISTING CONFIGURATION
24 HOUR VOLUMES
(SHEET 25 OF 28)

SCALE : N.T.S.			PROJECT NO.	
DWN: TH	CKD: HH			
STATE	STATE DISTRICT	FED. RD. DIV. NO.	COUNTY	
TEXAS	14	6	TRAVIS	
CONTROL	SECTION	JOB	HWY. NO.	SHEET NO.
5000	00	106	IH-35	25

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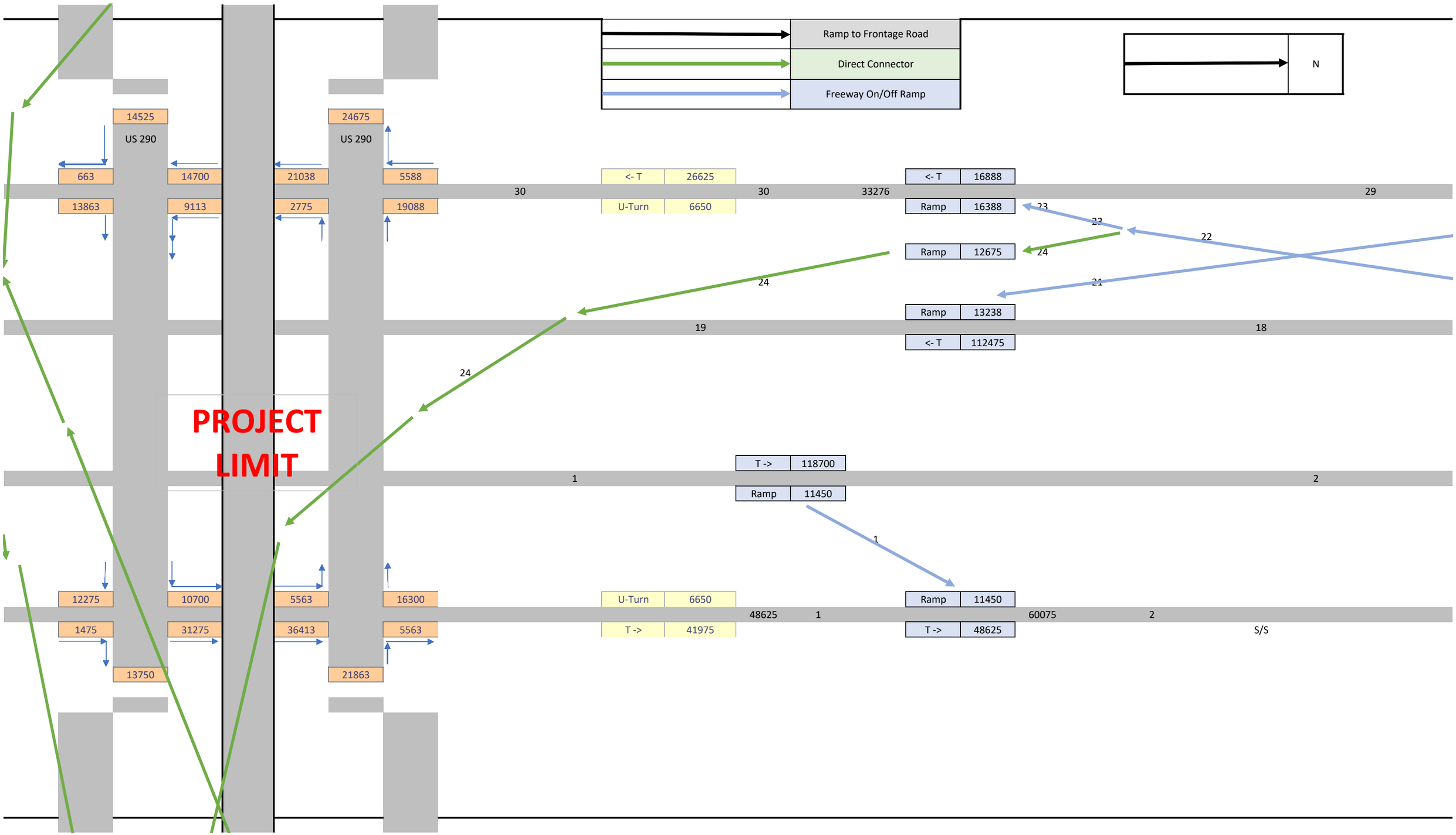
Ramp to Frontage Road
Direct Connector
Freeway On/Off Ramp
N
14525
US 290
24675
US 290
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14700
21038
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13863
9113
2775
19088
<- T
26625
U-Turn
6650
<- T
16888
Ramp
16388
Ramp
12675
Ramp
13238
<- T
112475
30
30
33276
29
23
23
22
24
24
21
19
18
24
PROJECT LIMIT
T ->
118700
Ramp
11450
1
2
1
12275
10700
5563
16300
1475
31275
36413
5563
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U-Turn
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T ->
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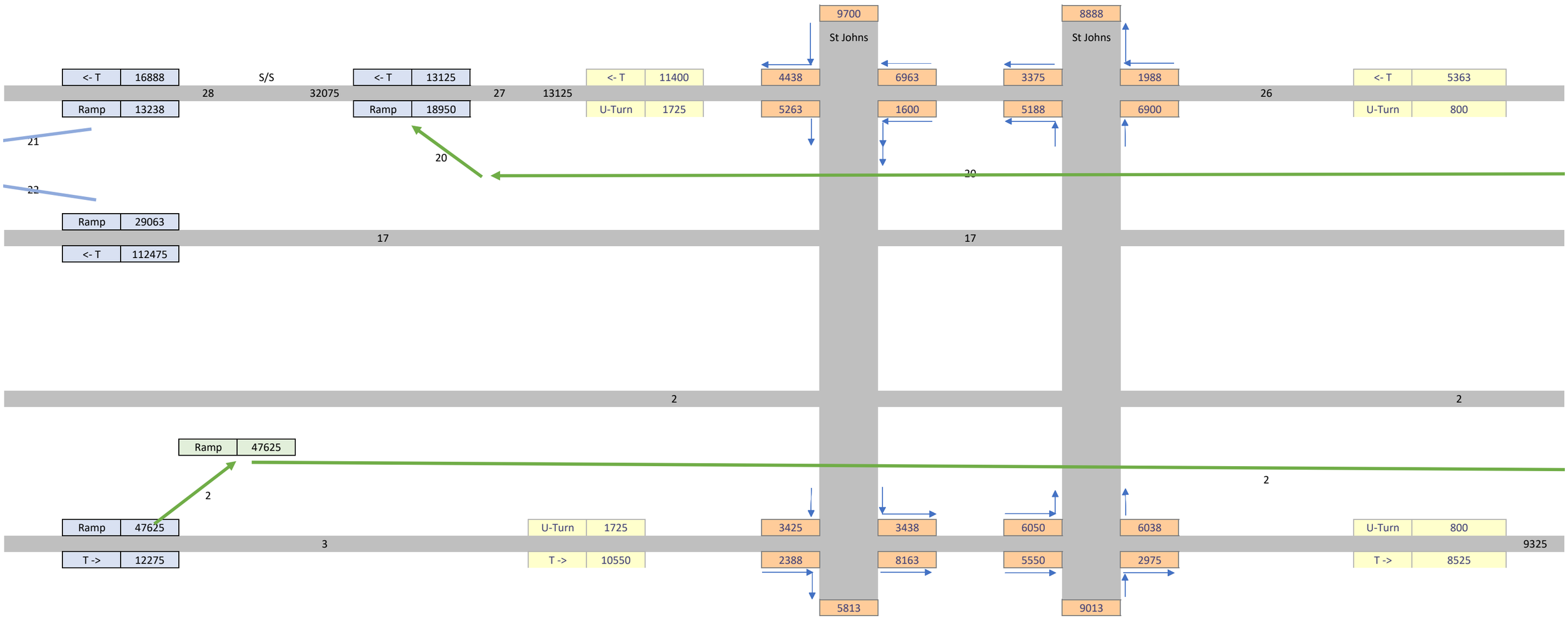
2
S/S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St Johns
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16888
S/S
<- T
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11400
4438
6963
3375
1988
<- T
5363
28
32075
27
13125
26
Ramp
13238
Ramp
18950
U-Turn
1725
5263
1600
5188
6900
U-Turn
800
21
20
22
Ramp
29063
17
17
<- T
112475
2
2
Ramp
47625
2
2
Ramp
47625
U-Turn
1725
3425
3438
6050
6038
U-Turn
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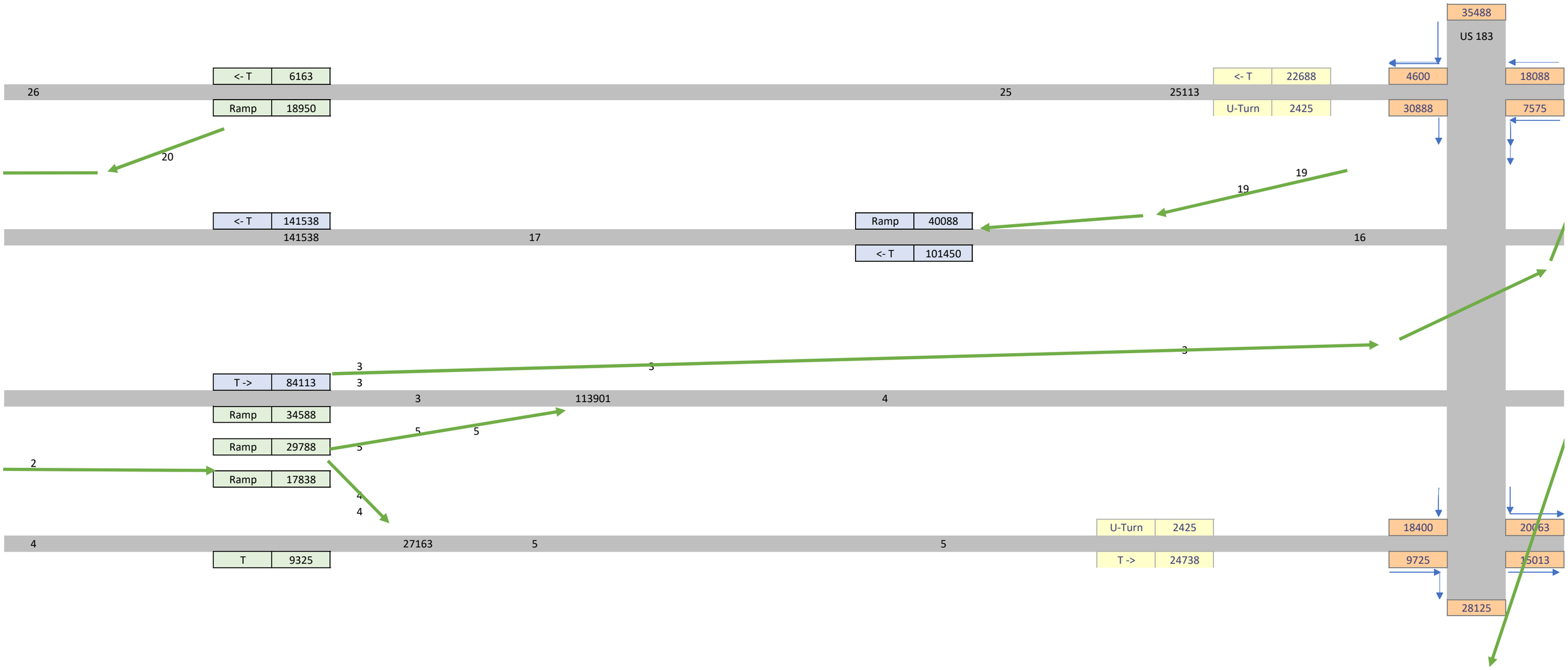
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<- T
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<- T
22688
4600
18088
26
25
25113
Ramp
18950
U-Turn
2425
30888
7575
20
19
19
<- T
141538
Ramp
40088
141538
17
16
<- T
101450
3
3
3
3
T ->
84113
3
3
113901
4
Ramp
34588
5
5
Ramp
29788
5
2
Ramp
17838
4
4
U-Turn
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27163
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T
9325
T ->
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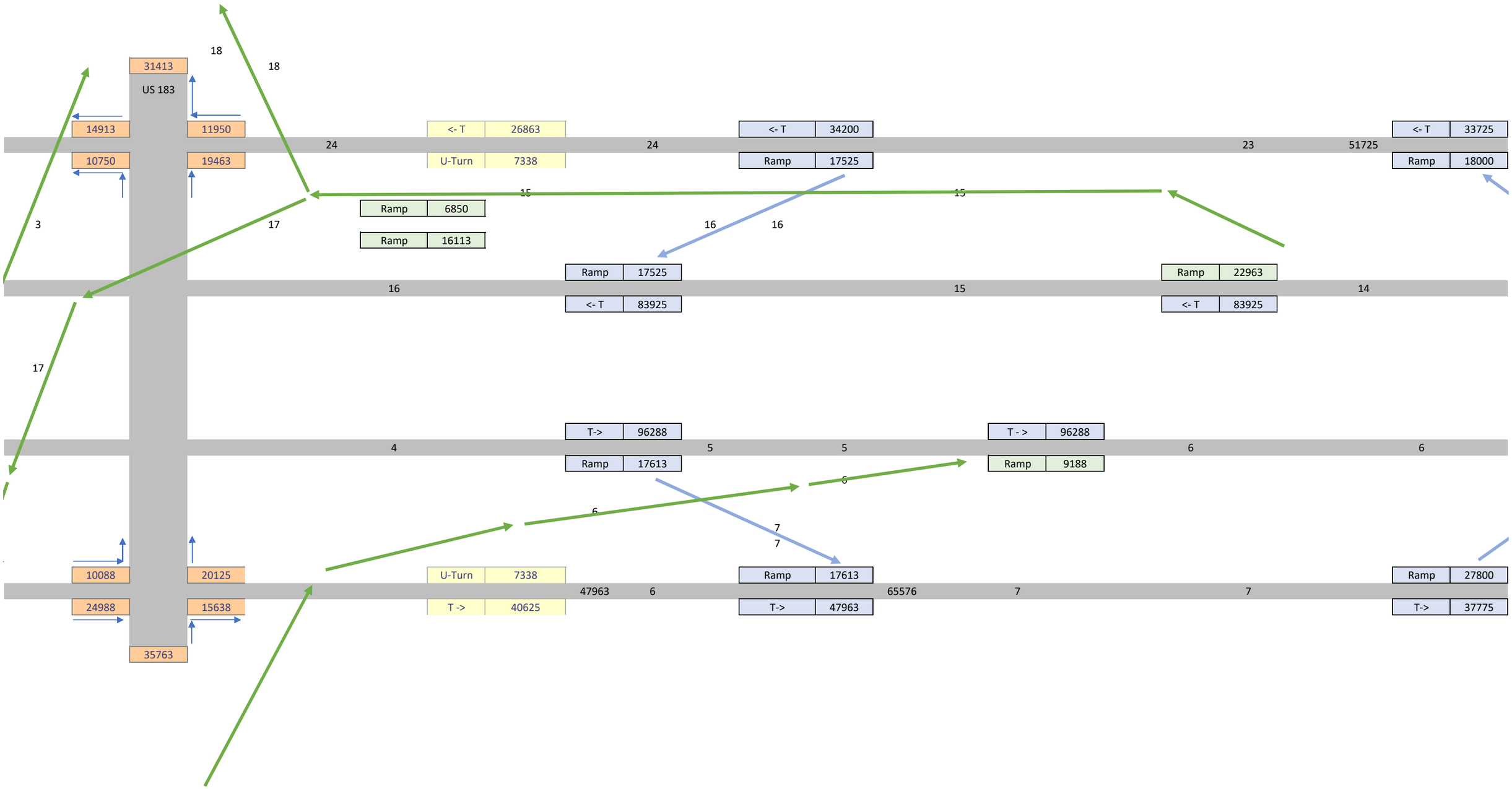
9725
15013
28125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US 183
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11950
19463
10088
24988
20125
15638
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17
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<- T
26863
U-Turn
7338
Ramp
6850
Ramp
16113
<- T
34200
Ramp
17525
<- T
33725
Ramp
18000
Ramp
17525
<- T
83925
Ramp
22963
<- T
83925
T->
96288
Ramp
17613
T - >
96288
Ramp
9188
U-Turn
7338
T ->
40625
Ramp
17613
T->
47963
Ramp
27800
T->
37775
24
24
23
51725
15
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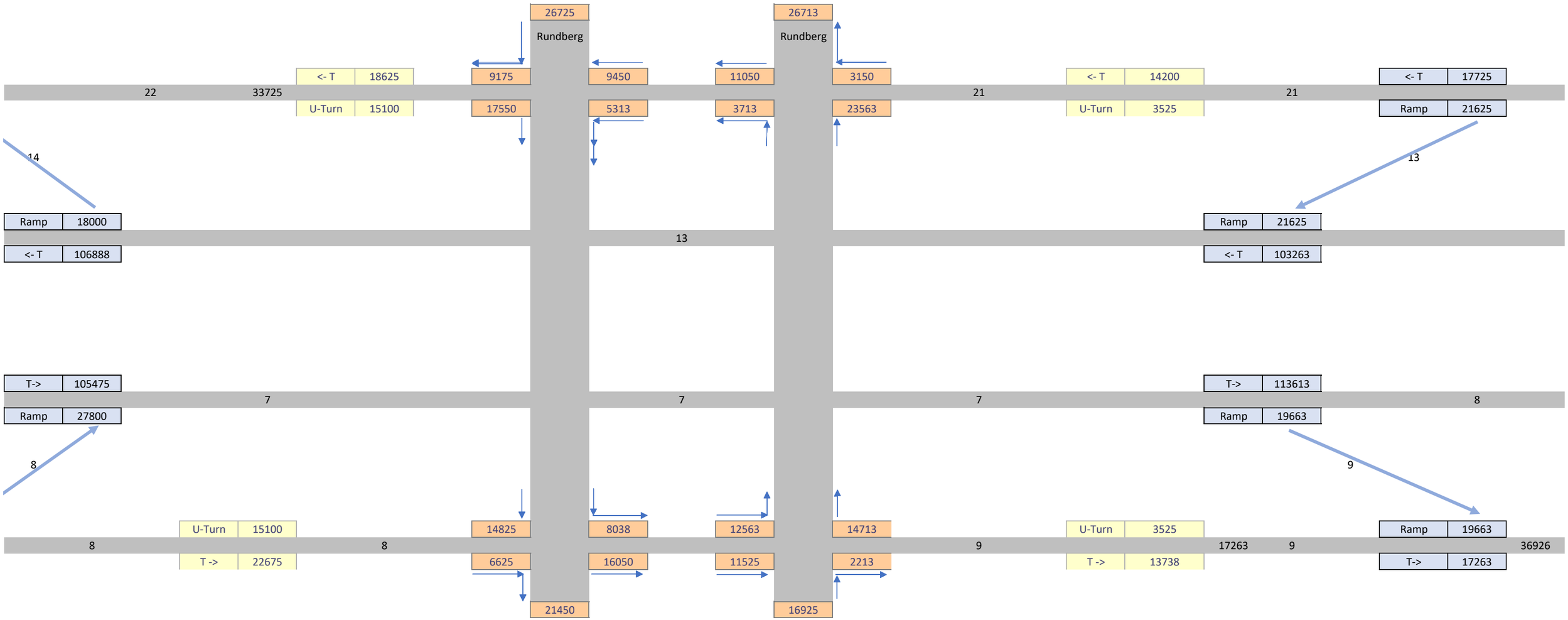
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26713
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U-Turn
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9175
17550
9450
5313
11050
3713
3150
23563
<- T
14200
U-Turn
3525
<- T
17725
Ramp
21625
22
33725
21
21
14
13
Ramp
18000
<- T
106888
13
Ramp
21625
<- T
103263
T->
105475
Ramp
27800
7
7
7
T->
113613
Ramp
19663
8
8
9
U-Turn
15100
T ->
22675
8
8
14825
6625
21450
8038
16050
12563
11525
14713
2213
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U-Turn
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T ->
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9
Ramp
19663
T->
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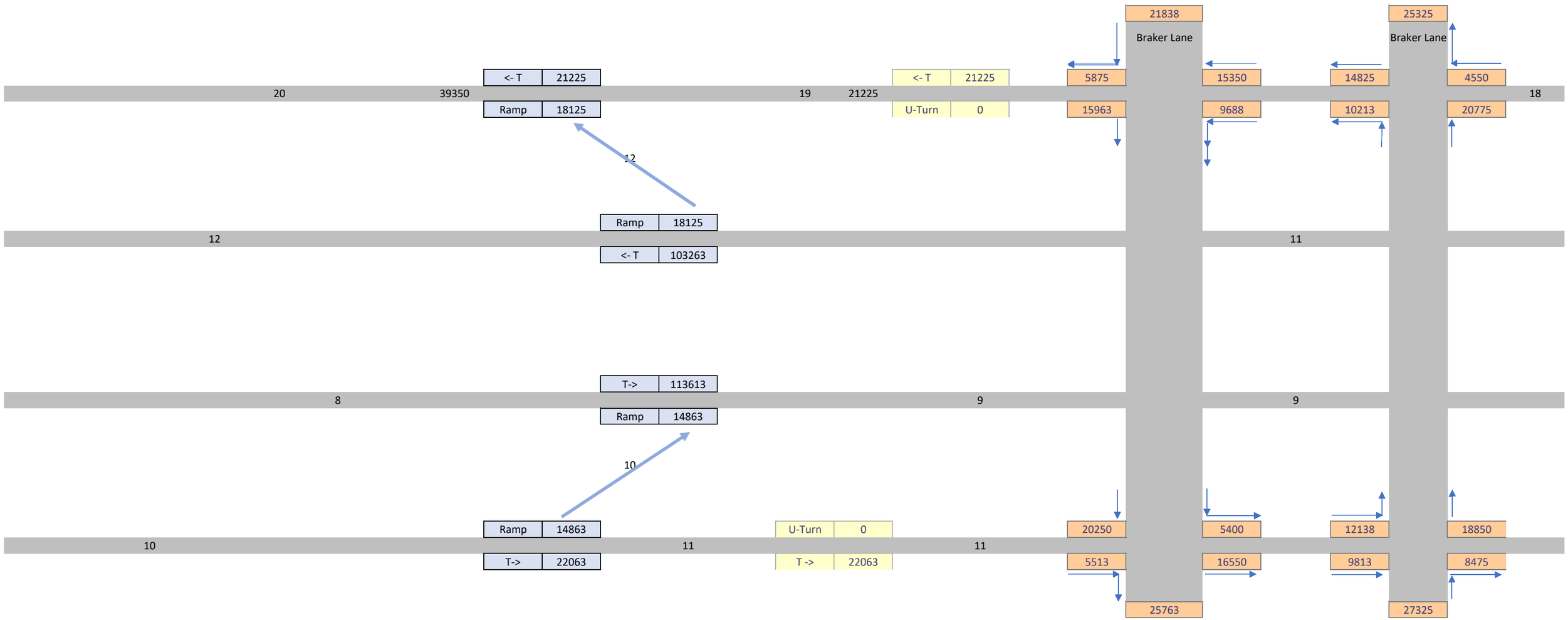
36926


21838
Braker Lane
25325
Braker Lane
<- T
21225
<- T
21225
5875
15350
14825
4550
20
39350
19
21225
18
Ramp
18125
U-Turn
0
15963
9688
10213
20775
12
Ramp
18125
12
11
<- T
103263
T->
113613
8
9
9
Ramp
14863
10
Ramp
14863
U-Turn
0
20250
5400
12138
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11
11
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22063
T ->
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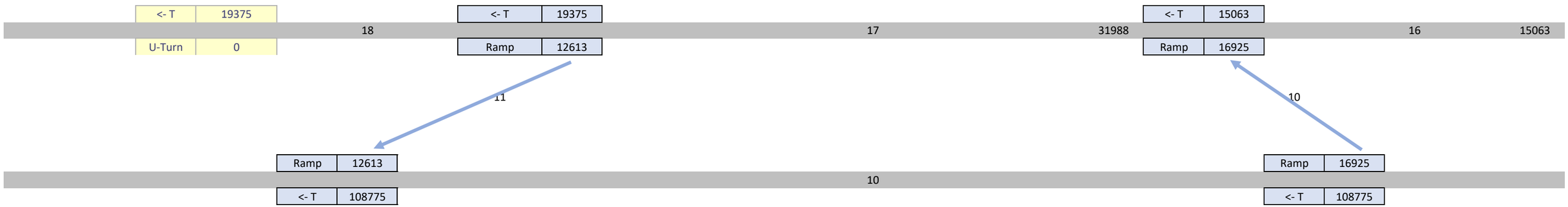
16550
9813
8475
25763
27325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U-Turn
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Ramp
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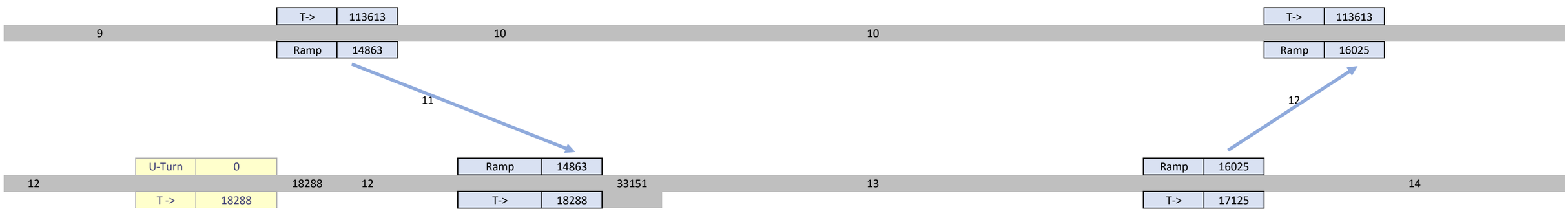
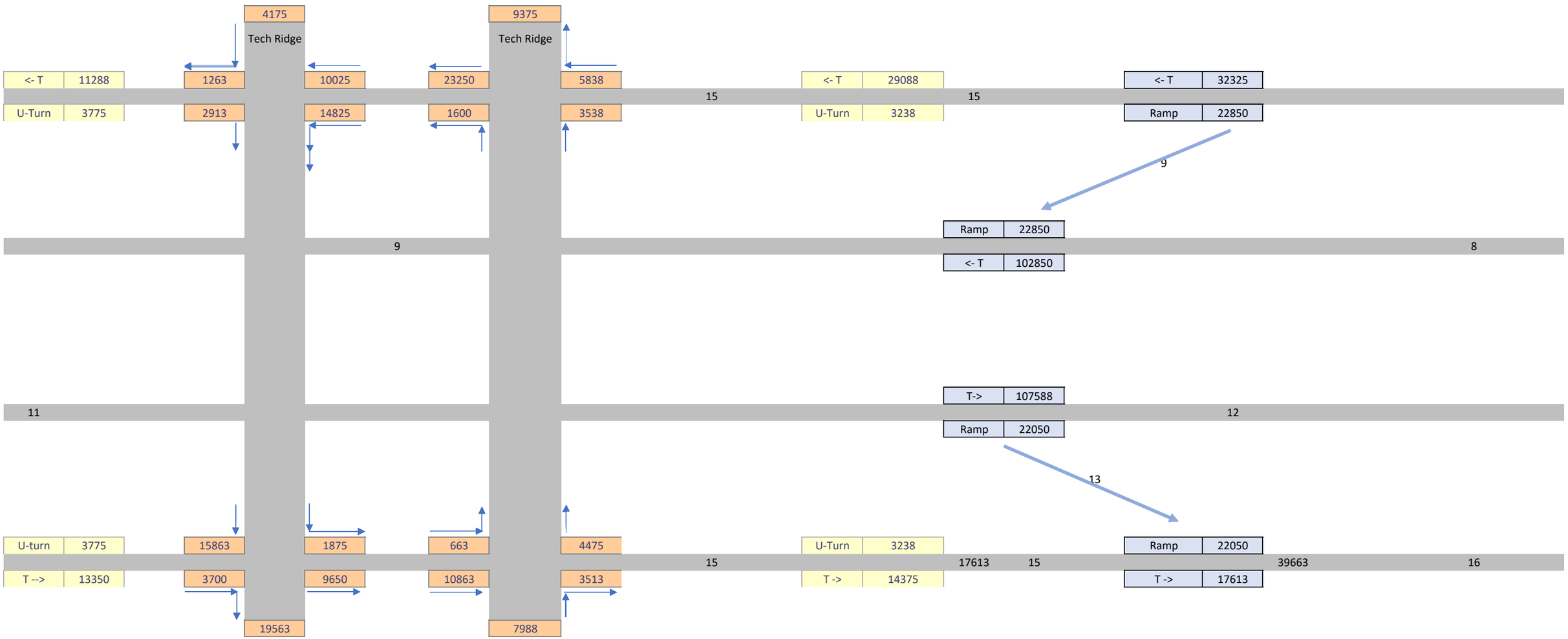
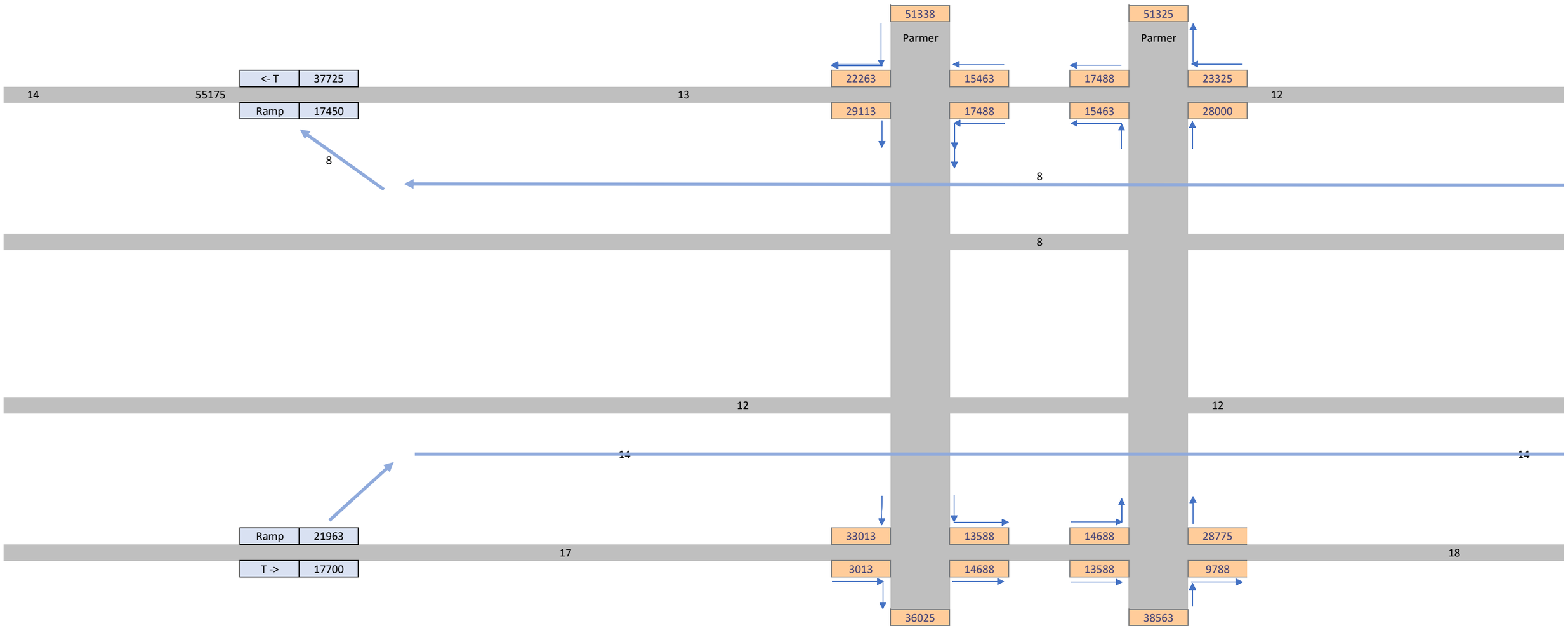
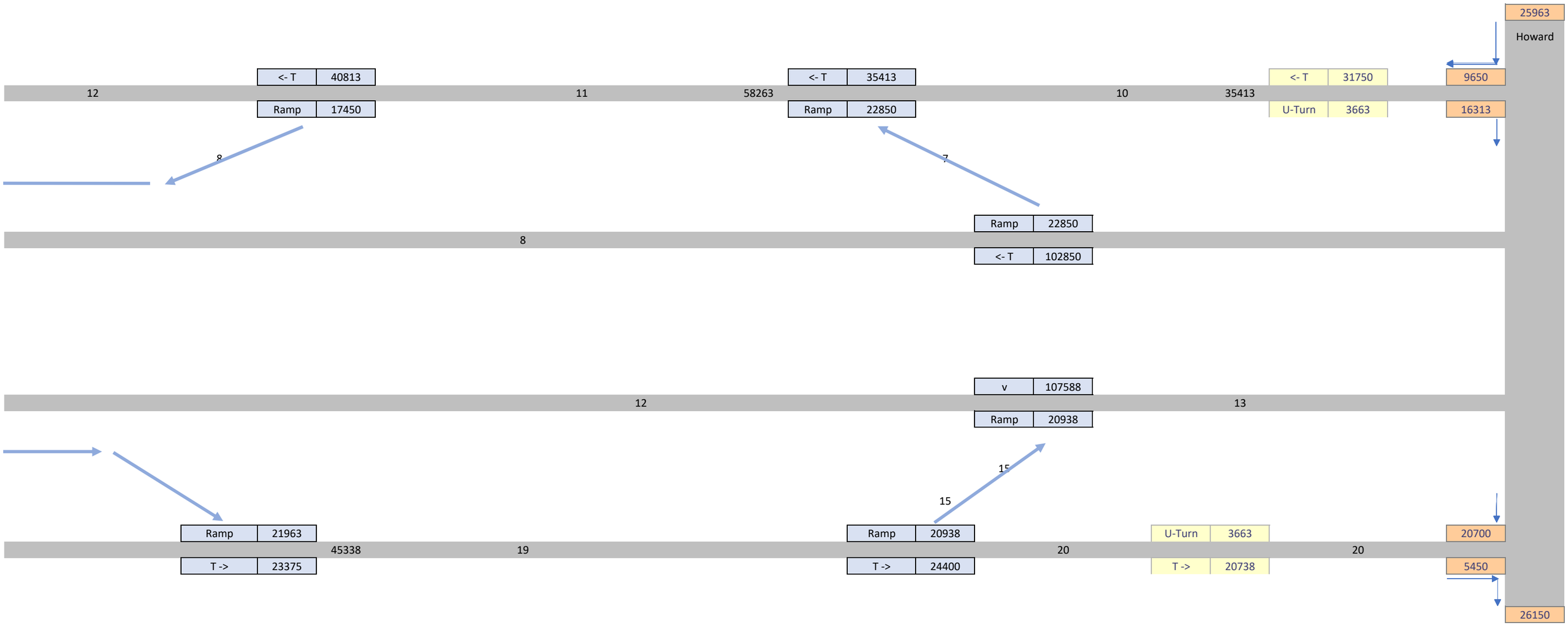
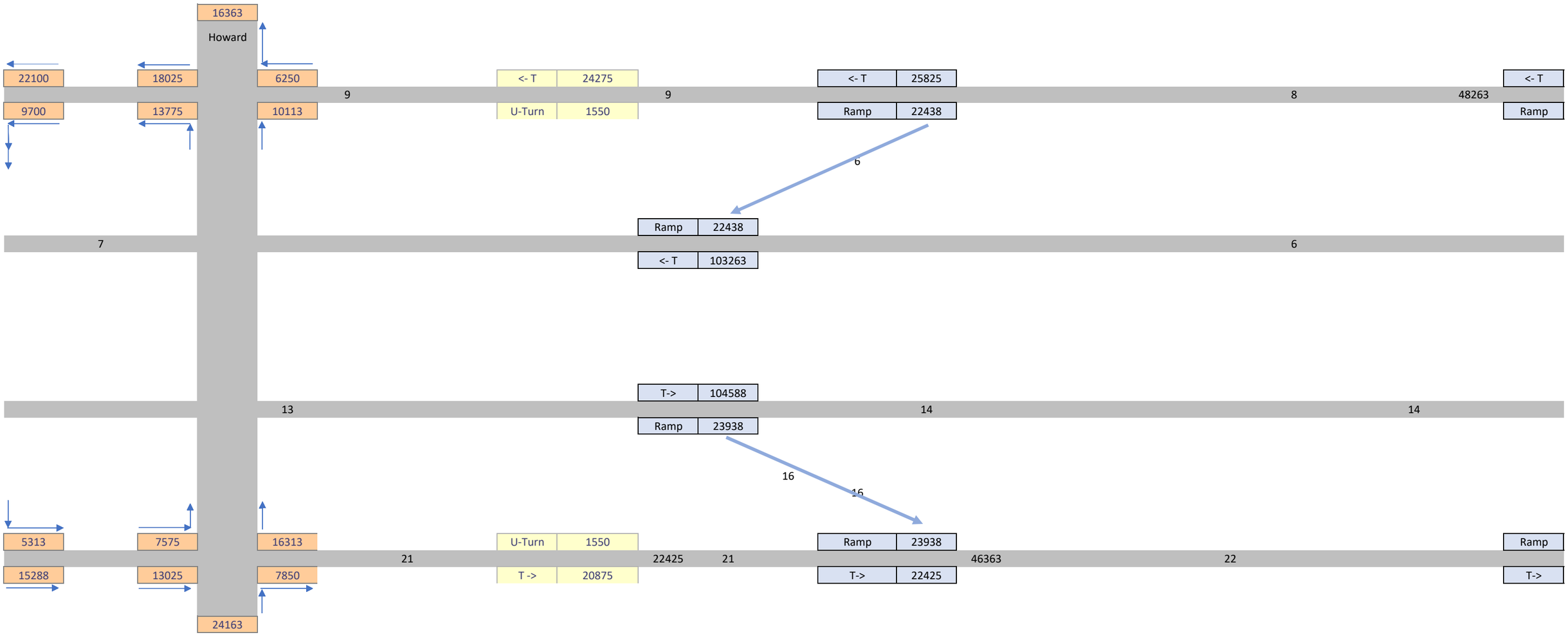
Ramp
16925
16
15063
11
10
Ramp
12613
<- T
108775
10
Ramp
16925
<- T
108775

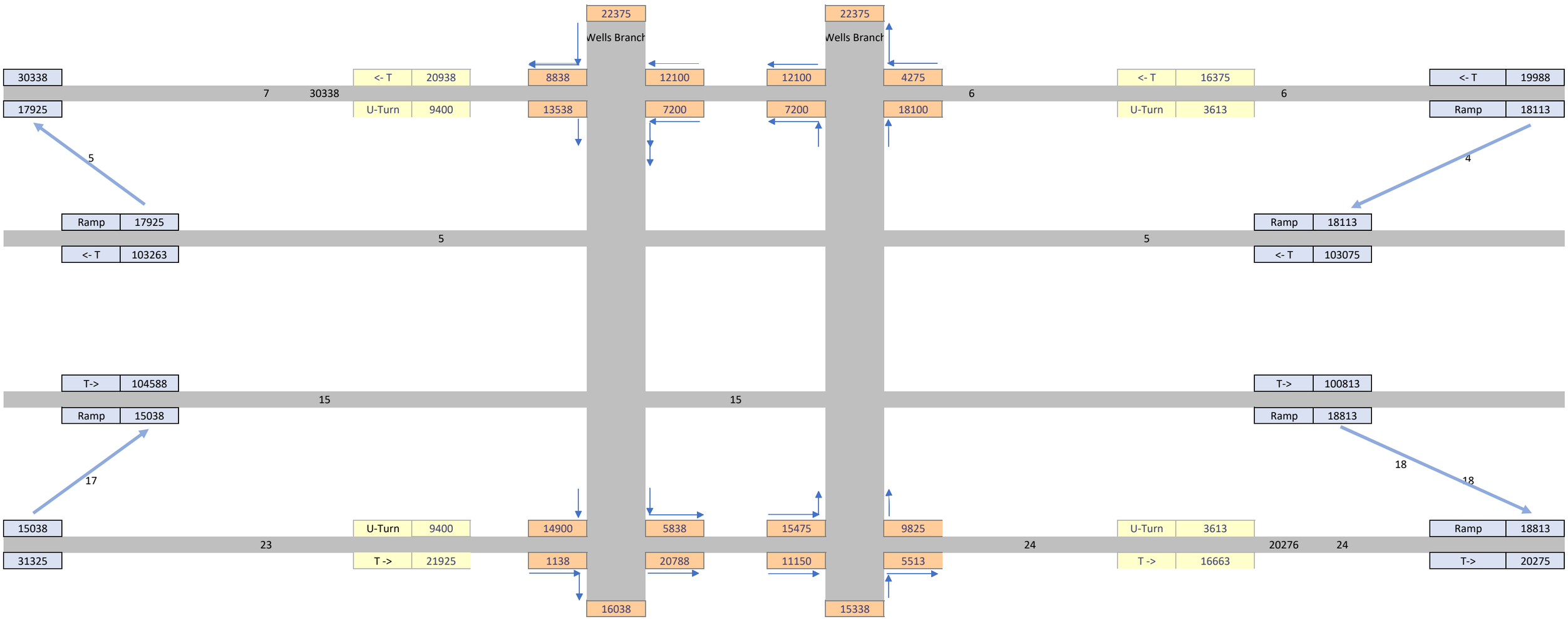

T->
113613
Ramp
14863
9
10
10
T->
113613
Ramp
16025
11
12
U-Turn
0
T ->
18288
12
18288
12
Ramp
14863
T->
18288
33151
13
Ramp
16025
T->
17125
14

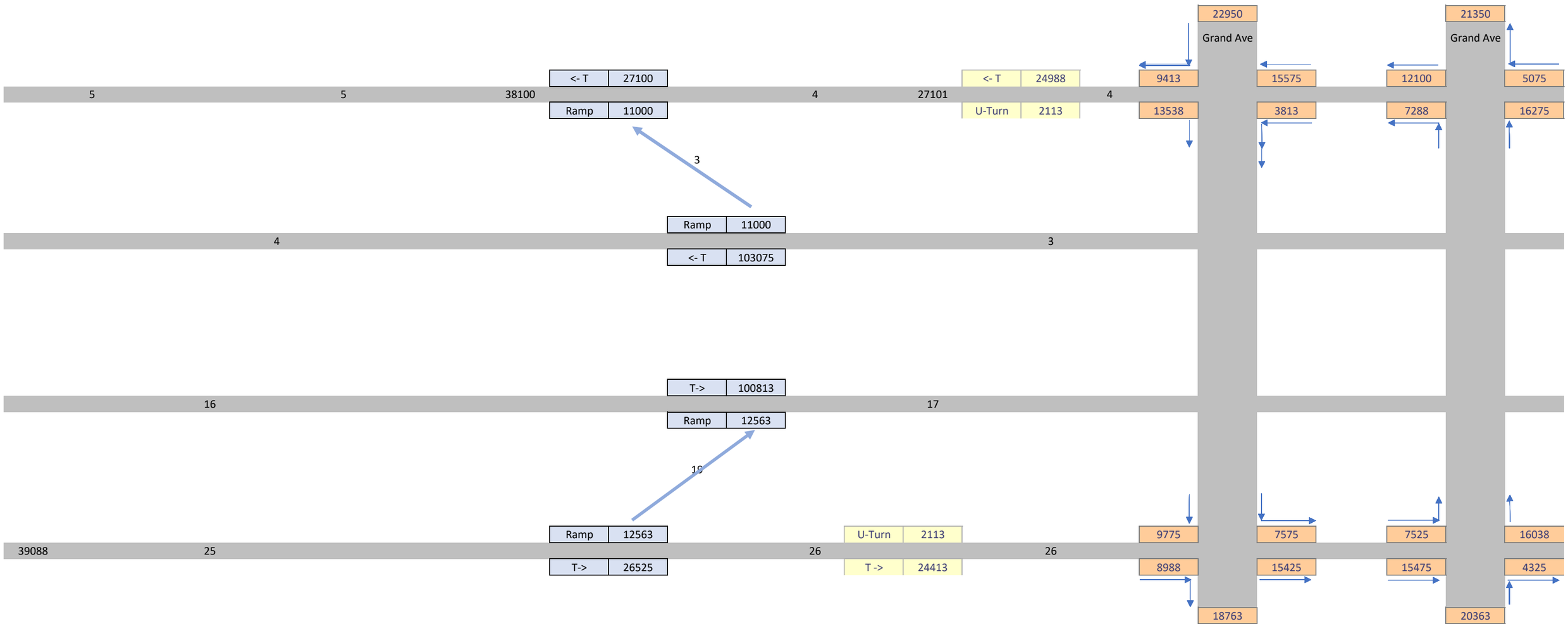

4175
Tech Ridge
9375
Tech Ridge
<- T
11288
1263
10025
23250
5838
<- T
29088
<- T
32325
15
15
U-Turn
3775
2913
14825
1600
3538
U-Turn
3238
Ramp
22850
9
Ramp
22850
9
8
<- T
102850
T->
107588
11
12
Ramp
22050
13
U-turn
3775
15863
1875
663
4475
U-Turn
3238
Ramp
22050
15
17613
15
39663
16
T -->
13350
3700
9650
10863
3513
T ->
14375
T ->
17613
19563
7988

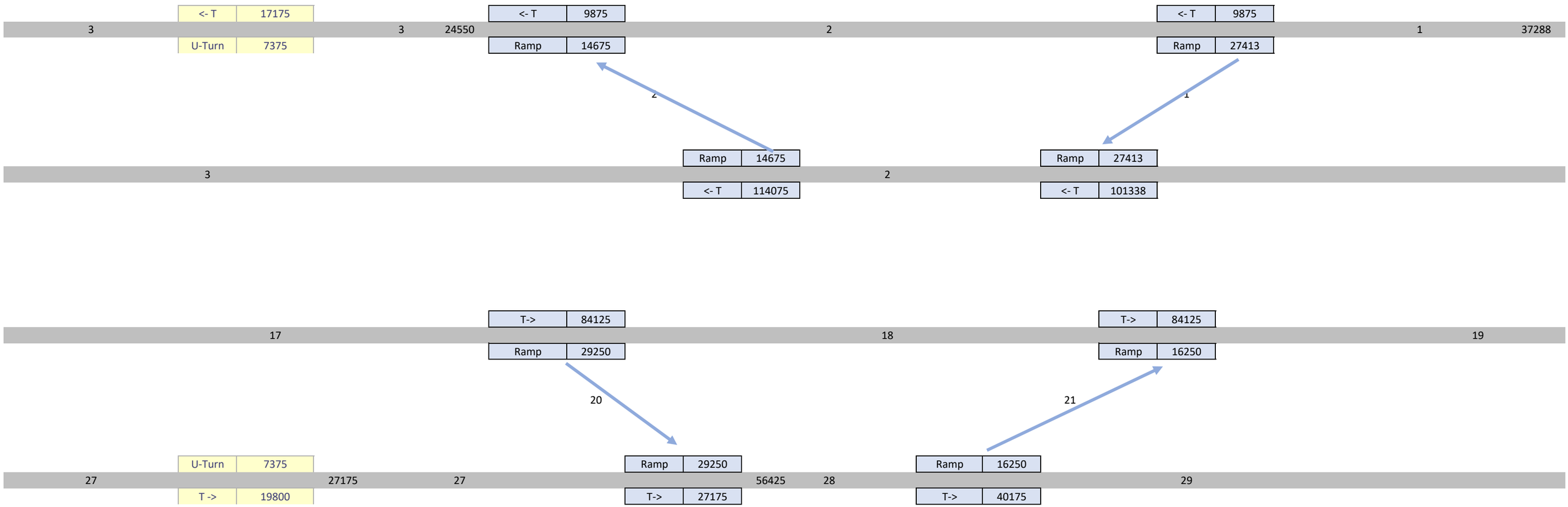

51338
Parmer
51325
Parmer
<- T
37725
Ramp
17450
14
55175
13
12
22263
15463
17488
23325
29113
17488
15463
28000
8
8
8
12
12
14
14
Ramp
21963
T ->
17700
17
18
33013
13588
14688
28775
3013
14688
13588
9788
36025
38563

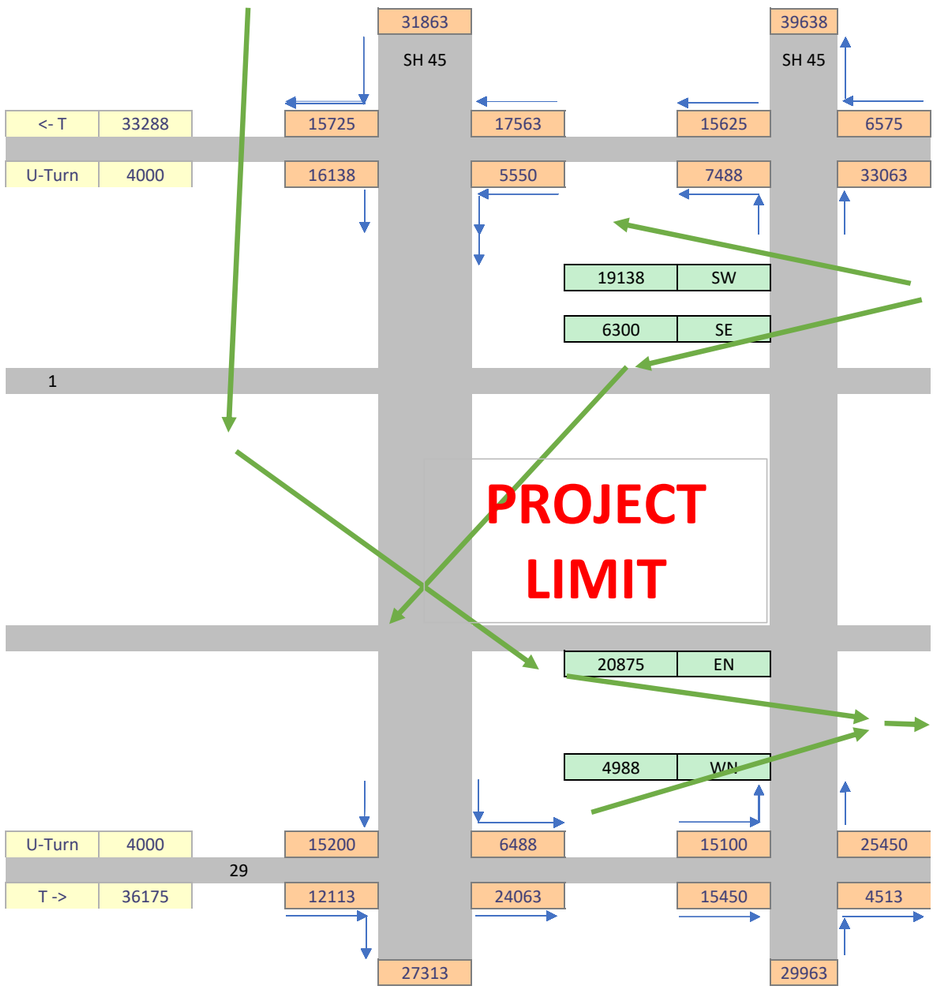

25963
Howard
<- T
40813
<- T
35413
<- T
31750
9650
12
11
58263
10
35413
Ramp
17450
Ramp
22850
U-Turn
3663
16313
8
7
Ramp
22850
8
<- T
102850
v
107588
12
13
Ramp
20938
15
15
Ramp
21963
Ramp
20938
U-Turn
3663
20700
45338
19
20
20
T ->
23375
T ->
24400
T ->
20738
5450
26150


16363
Howard
22100
18025
6250
<- T
24275
<- T
25825
<- T
9
9
8
48263
9700
13775
10113
U-Turn
1550
Ramp
22438
Ramp
6
Ramp
22438
7
6
<- T
103263
T->
104588
13
14
14
Ramp
23938
16
16
5313
7575
16313
U-Turn
1550
Ramp
23938
Ramp
21
22425
21
46363
22
15288
13025
7850
T ->
20875
T->
22425
T->
24163


22375
Wells Branch
22375
Wells Branch
30338
<- T
20938
8838
12100
12100
4275
<- T
16375
<- T
19988
7
30338
6
6
17925
U-Turn
9400
13538
7200
7200
18100
U-Turn
3613
Ramp
18113
5
4
Ramp
17925
Ramp
18113
5
5
<- T
103263
<- T
103075
T->
104588
T->
100813
15
15
Ramp
15038
Ramp
18813
17
18
18
15038
U-Turn
9400
14900
5838
15475
9825
U-Turn
3613
Ramp
18813
23
24
20276
24
31325
T ->
21925
1138
20788
11150
5513
T ->
16663
T->
20275
16038
15338

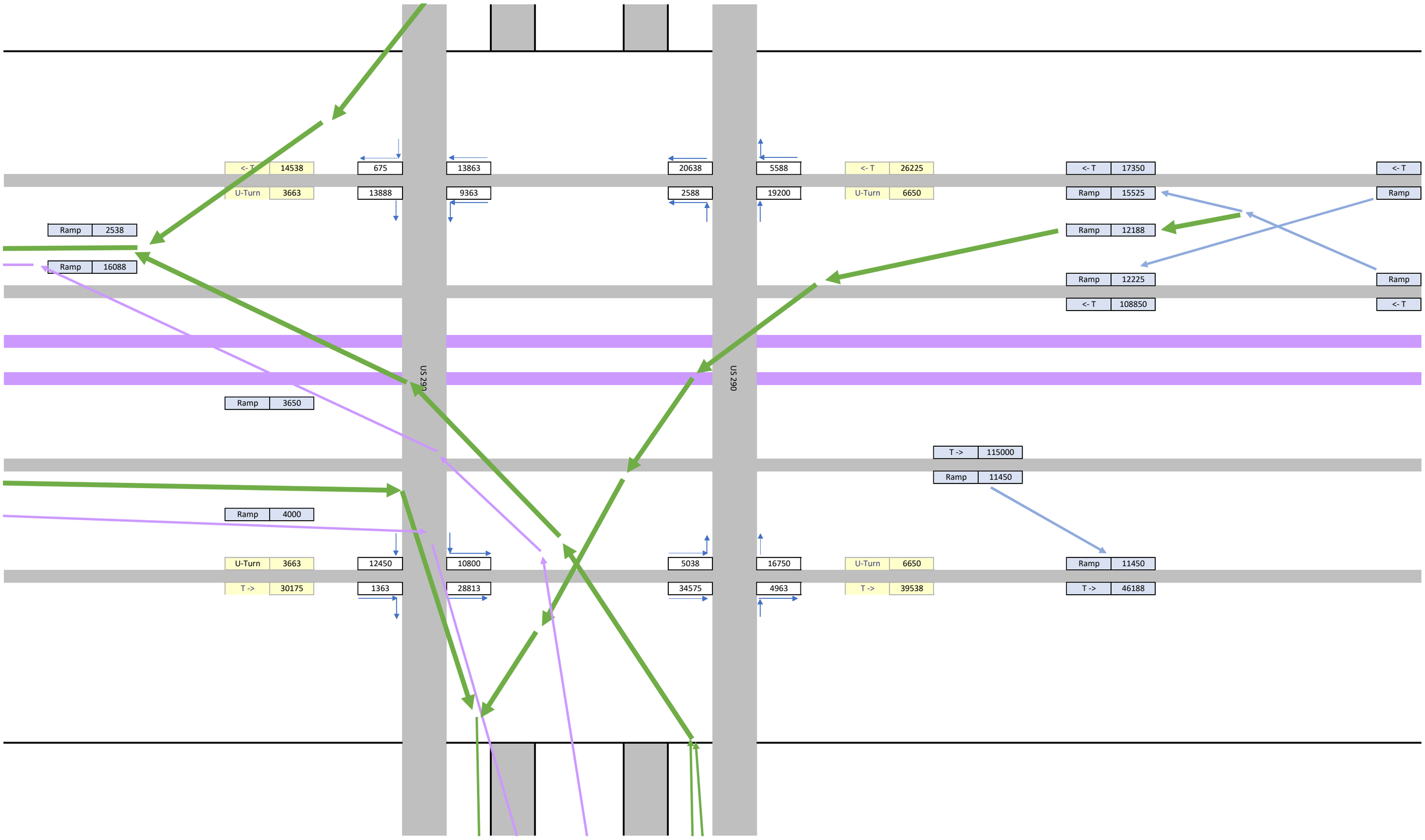

22950
Grand Ave
21350
Grand Ave
<- T
27100
<- T
24988
9413
15575
12100
5075
5
5
38100
4
27101
4
Ramp
11000
U-Turn
2113
13538
3813
7288
16275
3
Ramp
11000
4
3
<- T
103075
T->
100813
16
17
Ramp
12563
19
Ramp
12563
U-Turn
2113
9775
7575
7525
16038
39088
25
26
26
T->
26525
T ->
24413
8988
15425
15475
4325
18763
20363


3
<- T
17175
U-Turn
7375
3
24550
<- T
9875
Ramp
14675
2
<- T
9875
Ramp
27413
1
37288
2
1
3
Ramp
14675
<- T
114075
2
Ramp
27413
<- T
101338
17
T->
84125
Ramp
29250
18
T->
84125
Ramp
16250
19
20
21
27
U-Turn
7375
T ->
19800
27175
27
Ramp
29250
T->
27175
56425
28
Ramp
16250
T->
40175
29

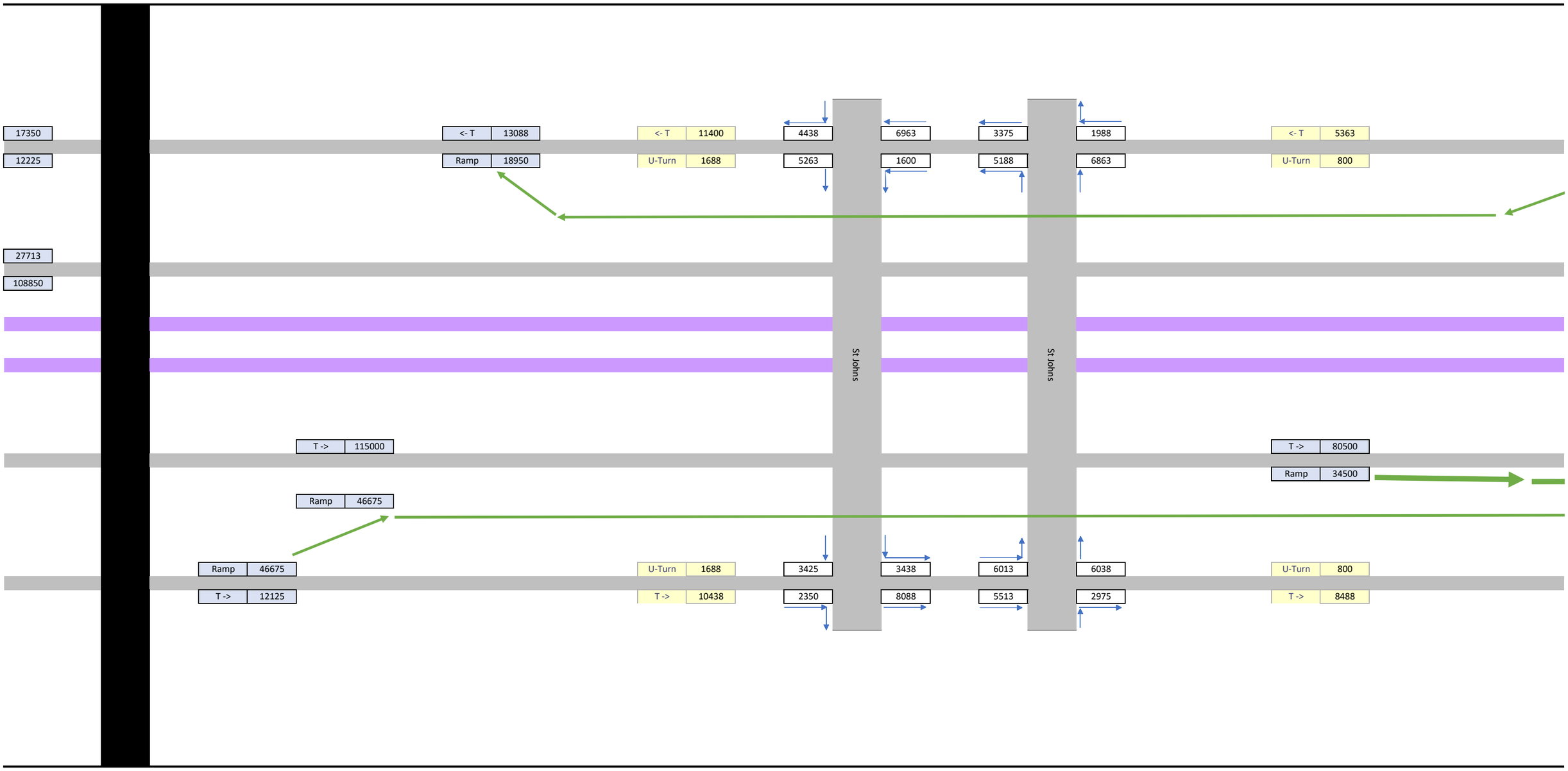

31863
SH 45
39638
SH 45
<- T
33288
15725
17563
15625
6575
U-Turn
4000
16138
5550
7488
33063
19138
SW
6300
SE
1
PROJECT LIMIT
20875
EN
4988
WN
U-Turn
4000
15200
6488
15100
25450
29
T ->
36175
12113
24063
15450
4513
27313
29963

Project Limit

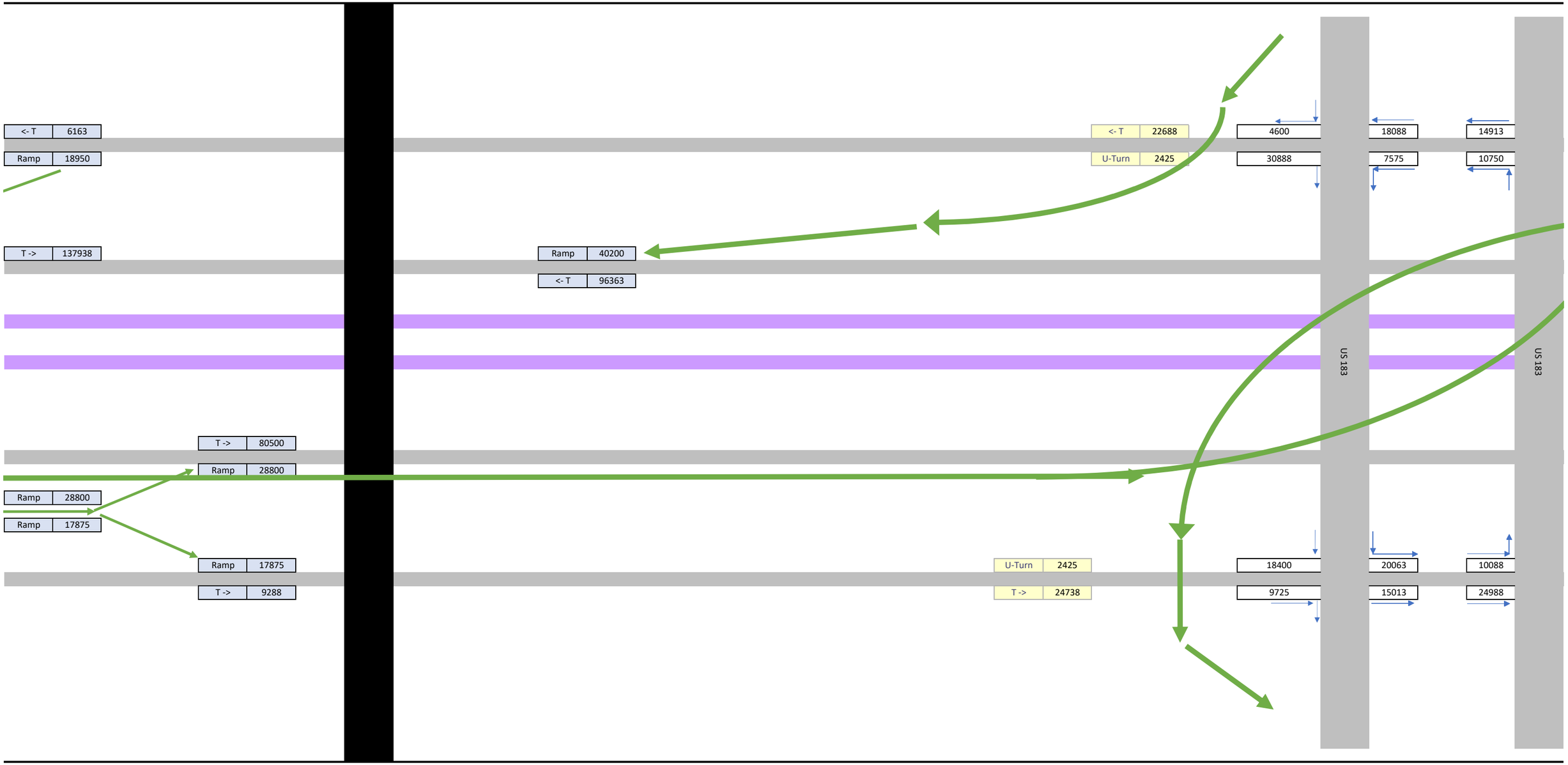
BUILD 2045



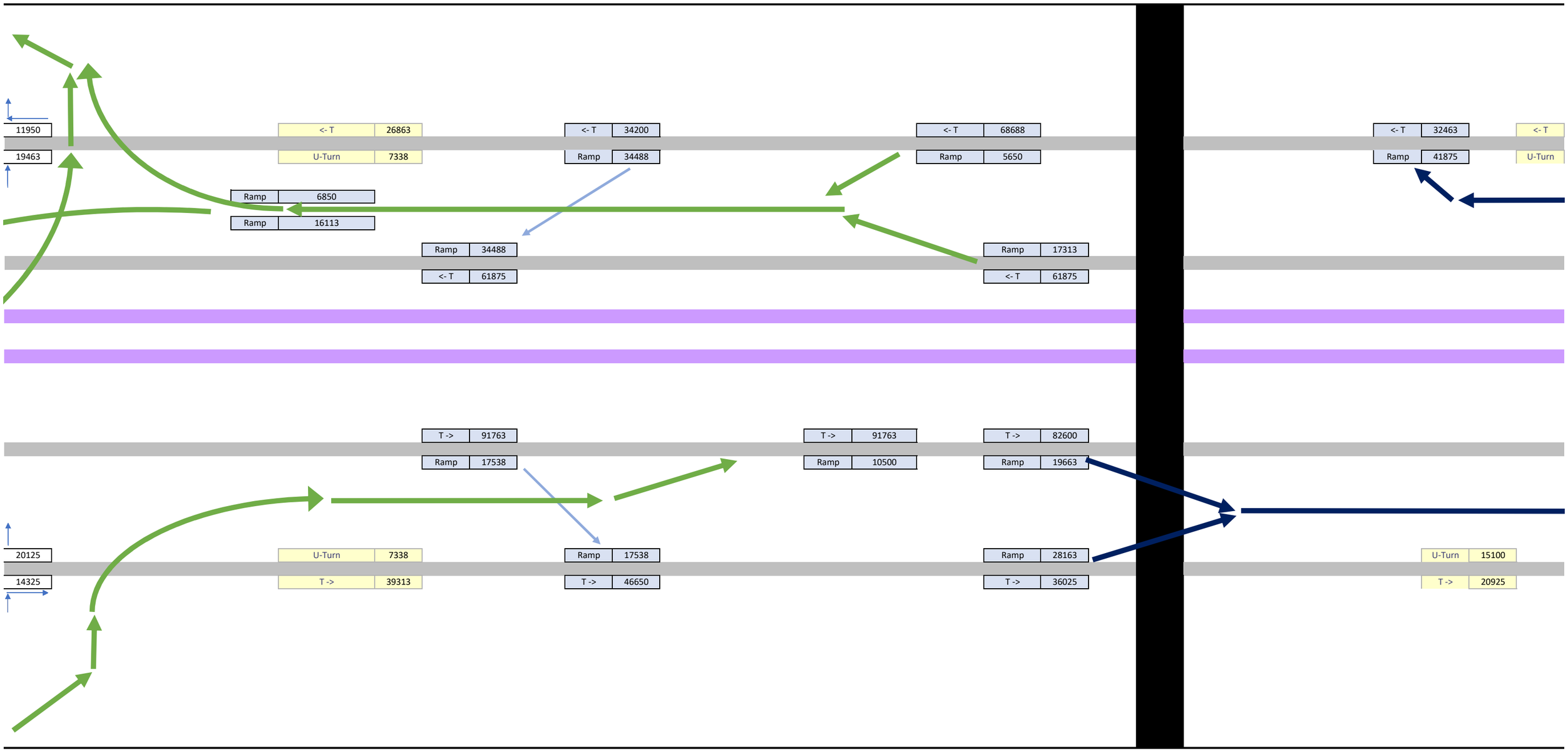
BUILD 2045


17350
12225
<- T
13088
Ramp
18950
<- T
11400
U-Turn
1688
4438
5263
6963
1600
3375
5188
1988
6863
<- T
5363
U-Turn
800
27713
108850
St Johns
St Johns
T ->
115000
Ramp
46675
T ->
80500
Ramp
34500
Ramp
46675
T ->
12125
U-Turn
1688
T ->
10438
3425
2350
3438
8088
6013
5513
6038
2975
U-Turn
800
T ->
8488

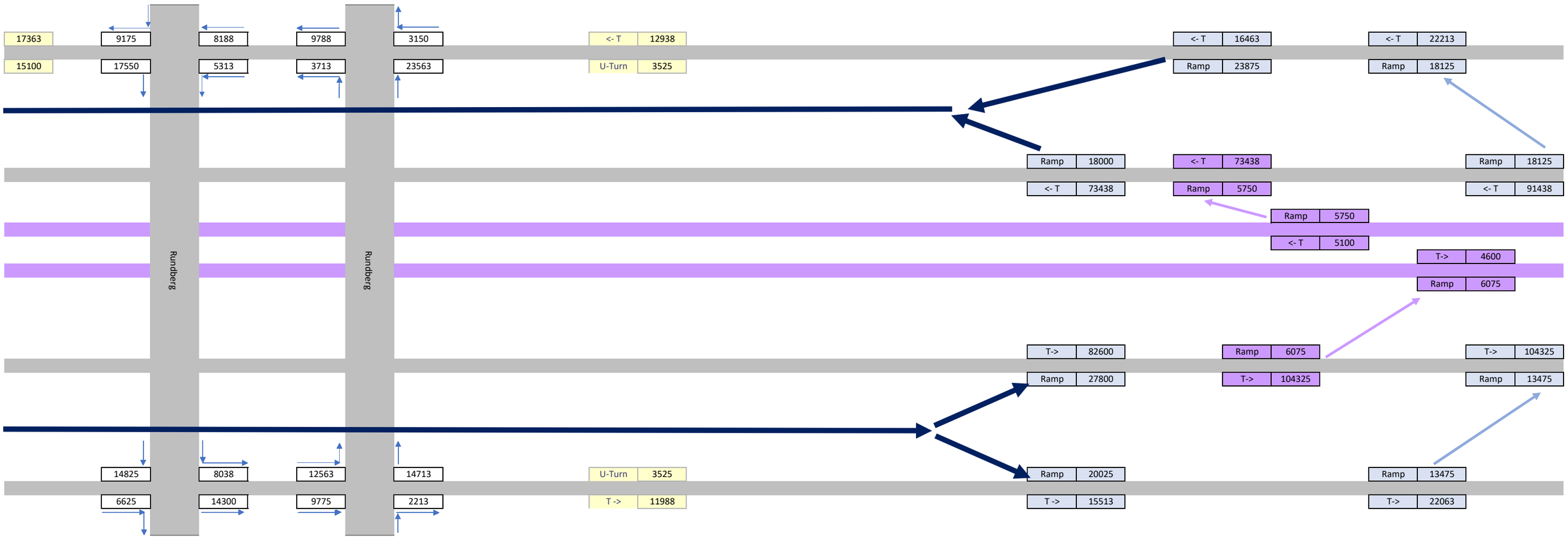
BUILD 2045


< - T
6163
Ramp
18950
T ->
137938
T ->
80500
Ramp
28800
Ramp
28800
Ramp
17875
Ramp
17875
T ->
9288
Ramp
40200
< - T
96363
< - T
22688
U-Turn
2425
U-Turn
2425
T ->
24738
4600
30888
18400
9725
18088
7575
20063
15013
14913
10750
10088
24988
US 183
US 183

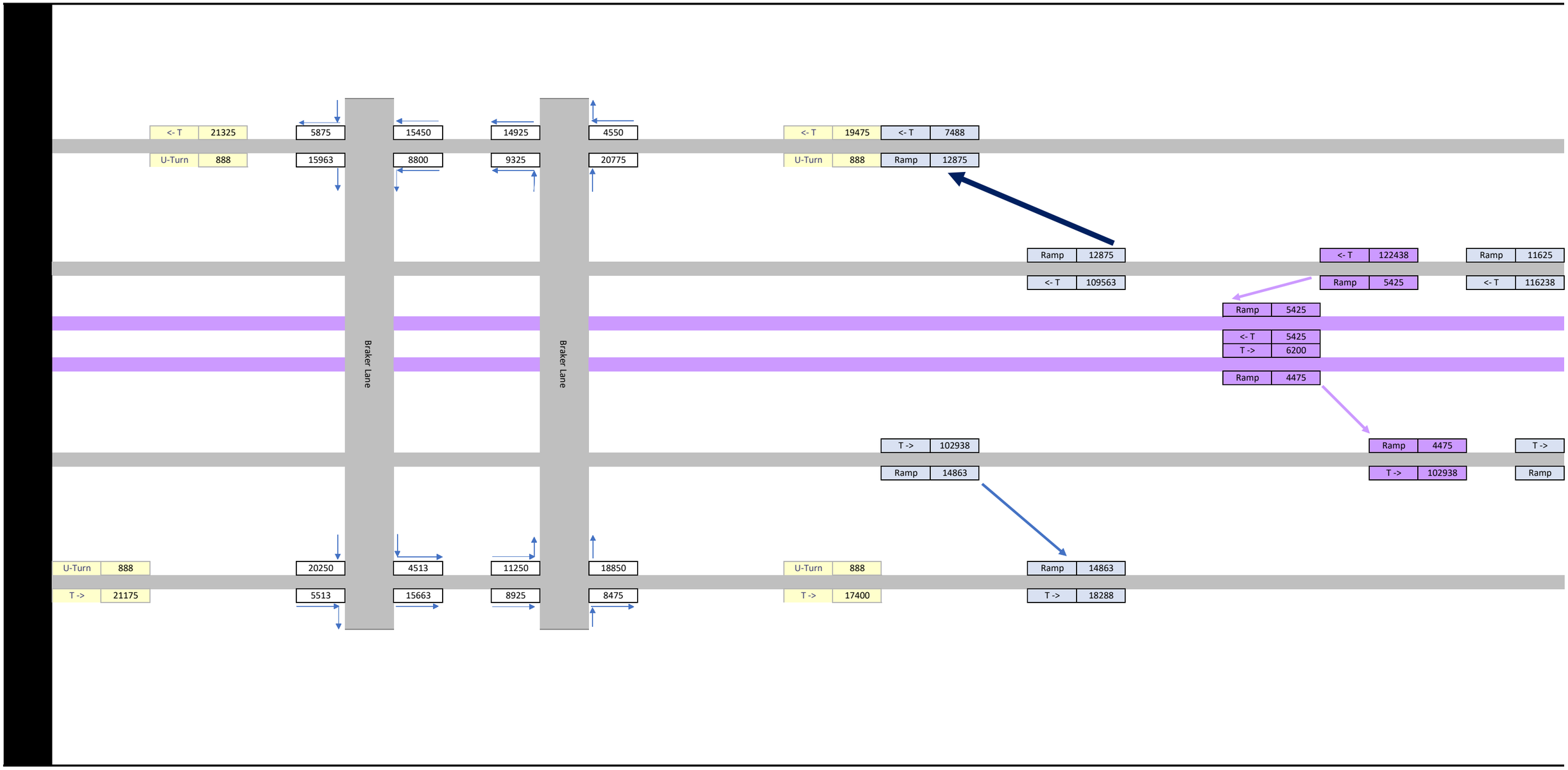
BUILD 2045


11950
19463
<- T
26863
U-Turn
7338
<- T
34200
Ramp
34488
<- T
68688
Ramp
5650
<- T
32463
Ramp
41875
<- T
U-Turn
Ramp
6850
Ramp
16113
Ramp
34488
<- T
61875
Ramp
17313
<- T
61875
T ->
91763
Ramp
17538
T ->
91763
Ramp
10500
T ->
82600
Ramp
19663
20125
14325
U-Turn
7338
T ->
39313
Ramp
17538
T ->
46650
Ramp
28163
T ->
36025
U-Turn
15100
T ->
20925

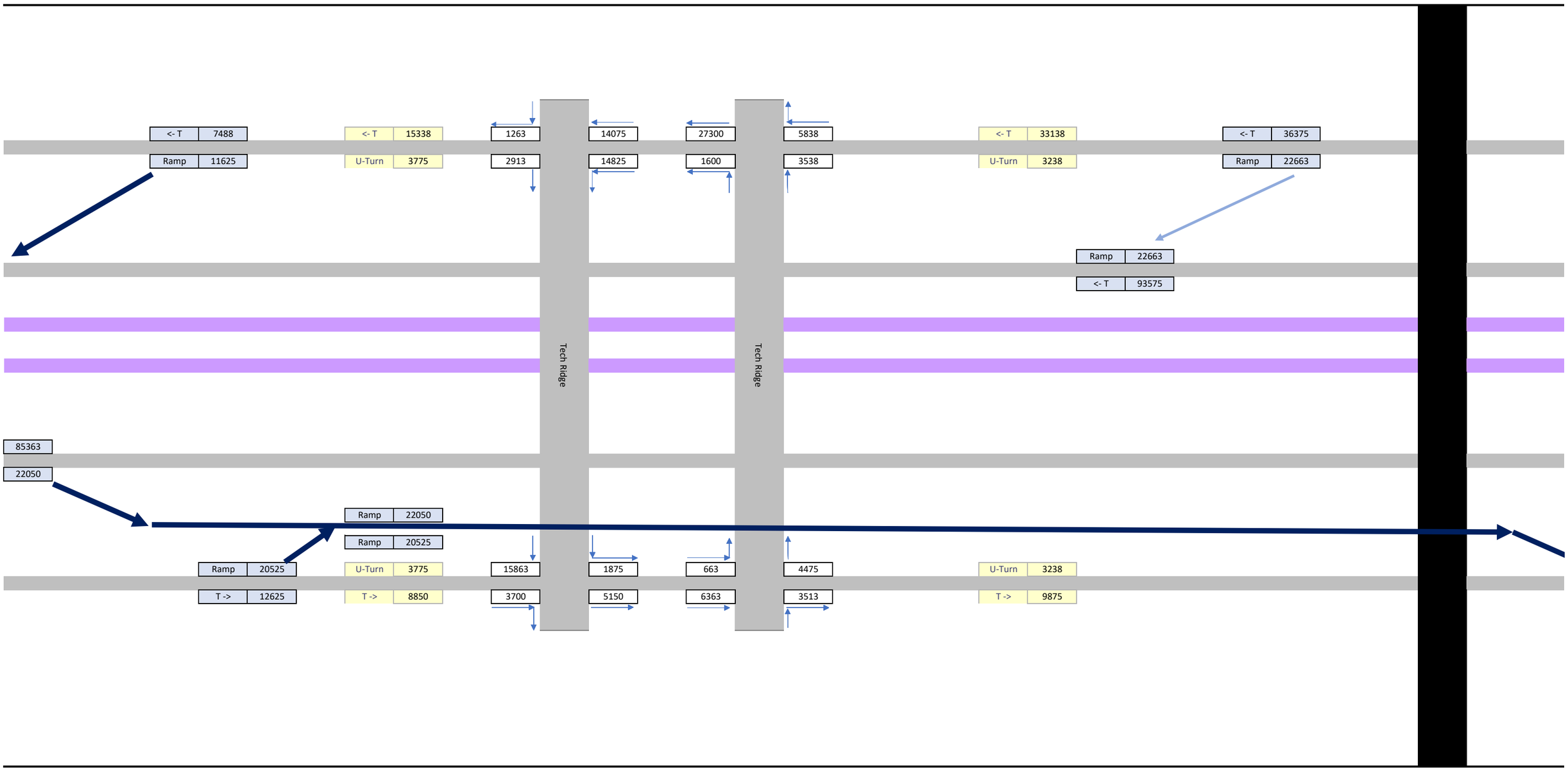
BUILD 2045


17363
9175
8188
9788
3150
<- T
12938
<- T
16463
<- T
22213
15100
17550
5313
3713
23563
U-Turn
3525
Ramp
23875
Ramp
18125
Rundberg
Rundberg
Ramp
18000
<- T
73438
Ramp
18125
<- T
73438
Ramp
5750
<- T
91438
Ramp
5750
<- T
5100
T->
4600
Ramp
6075
T->
82600
Ramp
6075
T->
104325
Ramp
27800
T->
104325
Ramp
13475
14825
8038
12563
14713
U-Turn
3525
Ramp
20025
Ramp
13475
6625
14300
9775
2213
T ->
11988
T ->
15513
T->
22063

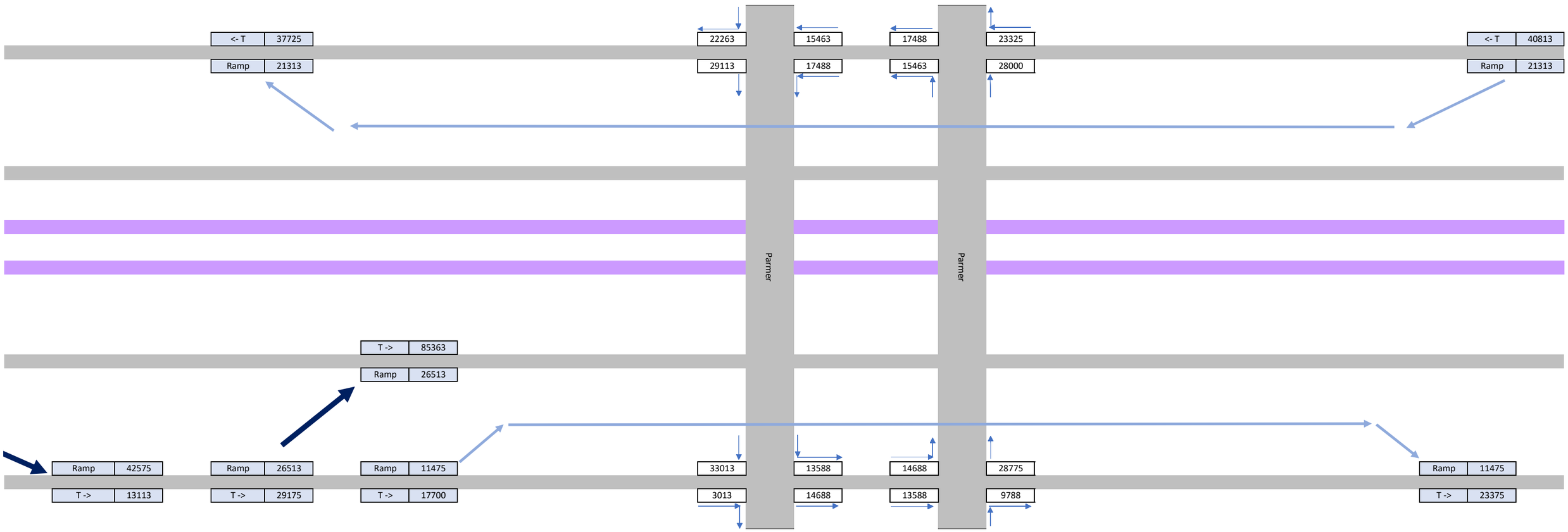
BUILD 2045


Braker Lane
Braker Lane
<- T 21325
U-Turn 888
5875
15963
15450
8800
14925
9325
4550
20775
<- T 19475
U-Turn 888
<- T 7488
Ramp 12875
Ramp 12875
<- T 109563
<- T 122438
Ramp 5425
Ramp 11625
<- T 116238
Ramp 5425
<- T 5425
T -> 6200
Ramp 4475
T -> 102938
Ramp 14863
Ramp 4475
T -> 102938
T ->
Ramp
U-Turn 888
T -> 21175
20250
5513
4513
15663
11250
8925
18850
8475
U-Turn 888
T -> 17400
Ramp 14863
T -> 18288

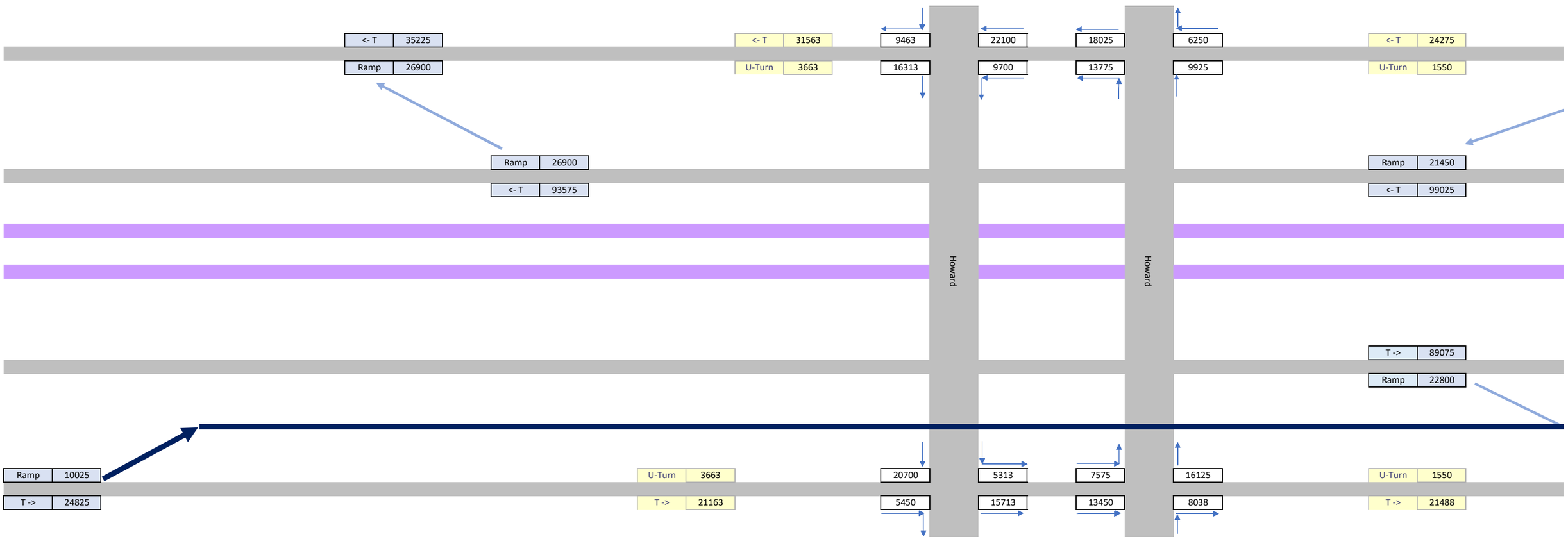
BUILD 2045


Tech Ridge
Tech Ridge
<- T 7488
Ramp 11625
<- T 15338
U-Turn 3775
1263
2913
14075
14825
27300
1600
5838
3538
<- T 33138
U-Turn 3238
<- T 36375
Ramp 22663
Ramp 22663
<- T 93575
85363
22050
Ramp 22050
Ramp 20525
Ramp 20525
T -> 12625
U-Turn 3775
T -> 8850
15863
3700
1875
5150
663
6363
4475
3513
U-Turn 3238
T -> 9875

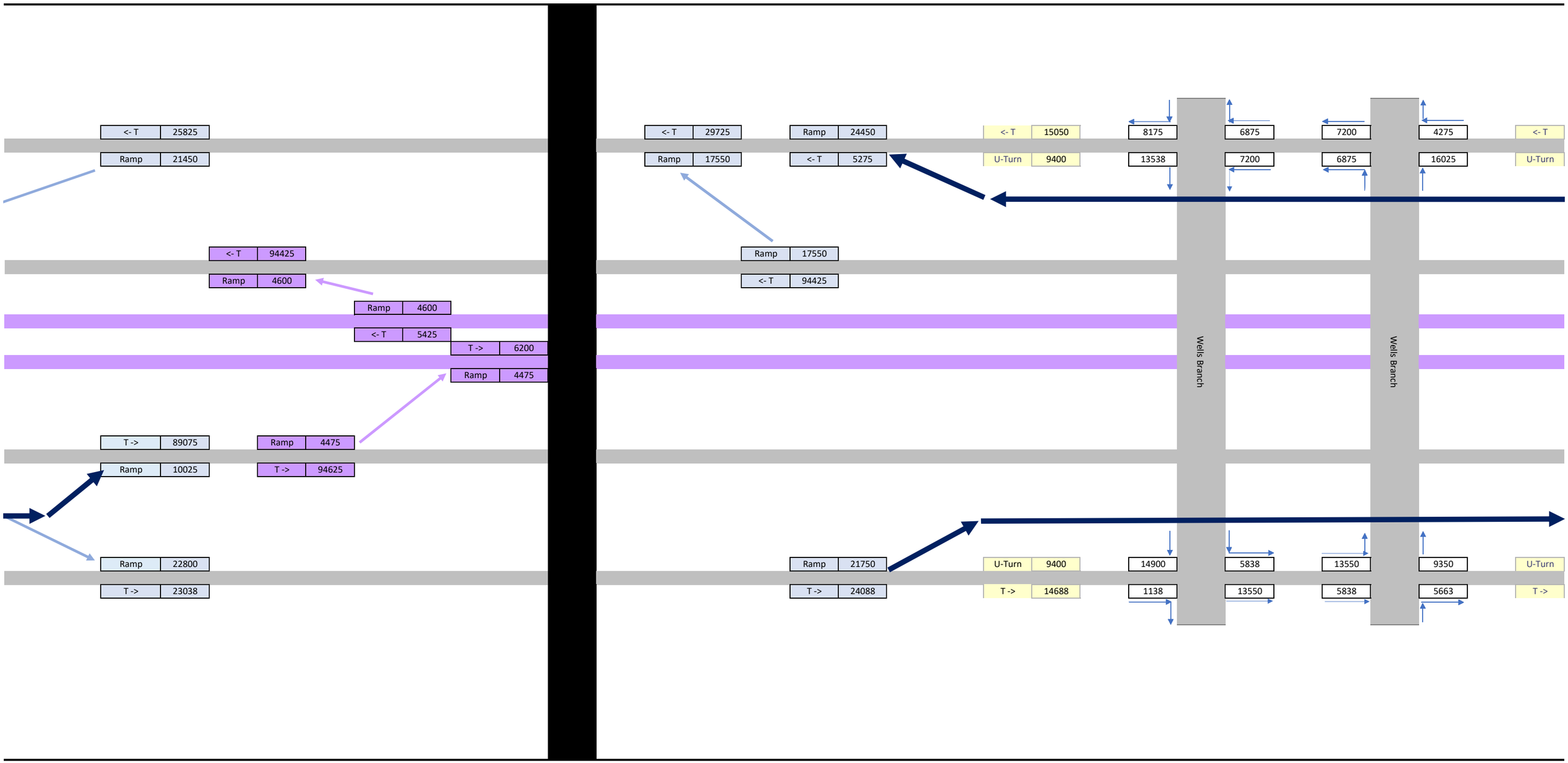
BUILD 2045


<- T
37725
Ramp
21313
22263
29113
15463
17488
17488
15463
23325
28000
<- T
40813
Ramp
21313
Parmer
Parmer
T ->
85363
Ramp
26513
Ramp
42575
T ->
13113
Ramp
26513
T ->
29175
Ramp
11475
T ->
17700
33013
3013
13588
14688
14688
13588
28775
9788
Ramp
11475
T ->
23375

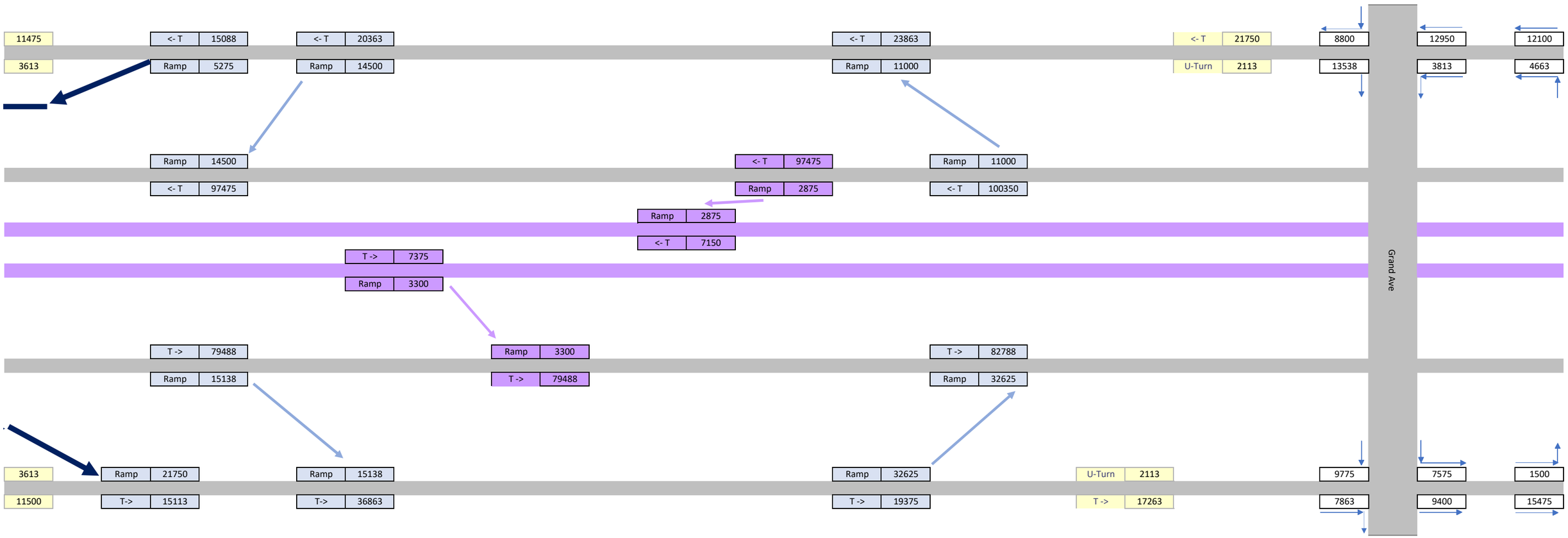
BUILD 2045


Howard
Howard
<- T 35225
Ramp 26900
<- T 31563
U-Turn 3663
9463
16313
22100
9700
18025
13775
6250
9925
<- T 24275
U-Turn 1550
Ramp 26900
<- T 93575
Ramp 21450
<- T 99025
T -> 89075
Ramp 22800
Ramp 10025
T -> 24825
U-Turn 3663
T -> 21163
20700
5450
5313
15713
7575
13450
16125
8038
U-Turn 1550
T -> 21488

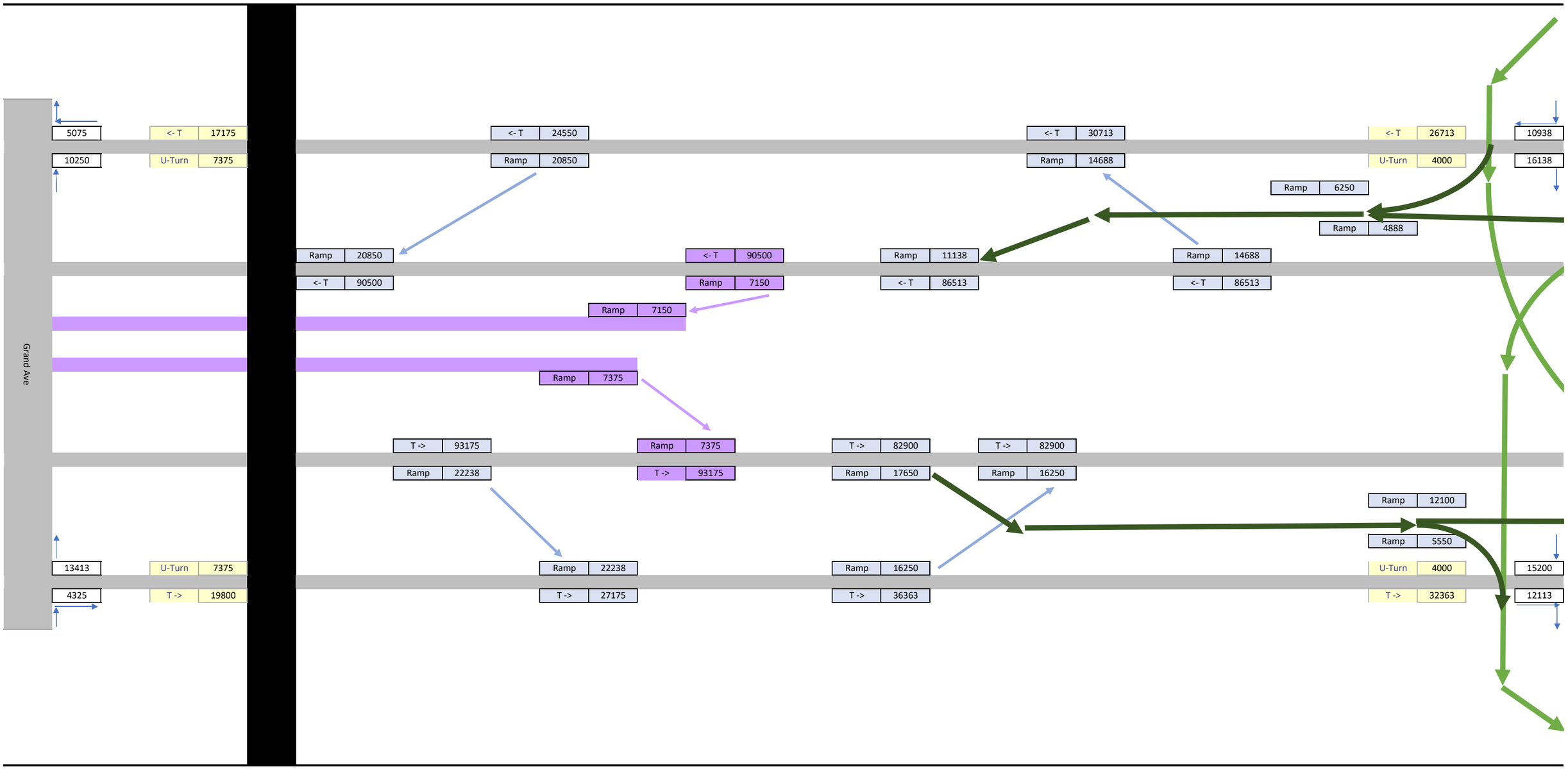
BUILD 2045


<- T 25825
Ramp 21450
<- T 94425
Ramp 4600
Ramp 4600
<- T 5425
T -> 6200
Ramp 4475
T -> 89075
Ramp 4475
Ramp 10025
T -> 94625
Ramp 22800
T -> 23038
<- T 29725
Ramp 24450
<- T 15050
8175
6875
7200
4275
<- T
Ramp 17550
<- T 5275
U-Turn 9400
13538
7200
6875
16025
U-Turn
Ramp 17550
<- T 94425
Wells Branch
Wells Branch
Ramp 21750
U-Turn 9400
14900
5838
13550
9350
U-Turn
T -> 24088
T -> 14688
1138
13550
5838
5663
T ->

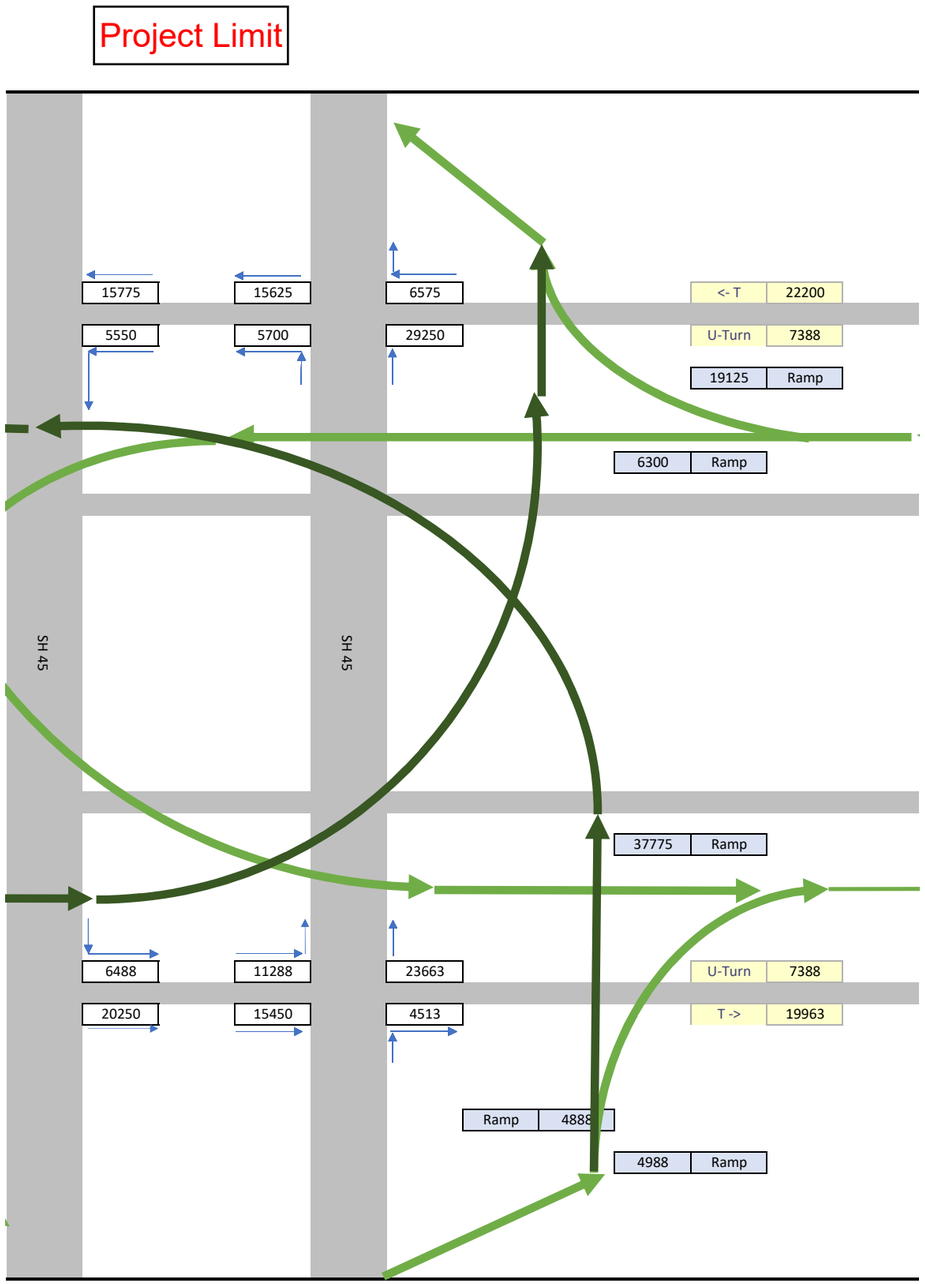
BUILD 2045


11475
<- T 15088
<- T 20363
<- T 23863
<- T 21750
8800
12950
12100
3613
Ramp 5275
Ramp 14500
Ramp 11000
U-Turn 2113
13538
3813
4663
Ramp 14500
<- T 97475
Ramp 11000
<- T 97475
Ramp 2875
<- T 100350
Ramp 2875
<- T 7150
T -> 7375
Ramp 3300
Grand Ave
T -> 79488
Ramp 3300
T -> 82788
Ramp 15138
T -> 79488
Ramp 32625
3613
Ramp 21750
Ramp 15138
Ramp 32625
U-Turn 2113
9775
7575
1500
11500
T-> 15113
T-> 36863
T -> 19375
T -> 17263
7863
9400
15475

BUILD 2045


Grand Ave
5075
<- T
17175
10250
U-Turn
7375
<- T
24550
Ramp
20850
<- T
30713
Ramp
14688
<- T
26713
U-Turn
4000
10938
16138
Ramp
6250
Ramp
4888
Ramp
20850
<- T
90500
Ramp
11138
Ramp
14688
<- T
90500
Ramp
7150
<- T
86513
<- T
86513
Ramp
7150
Ramp
7375
T ->
93175
Ramp
22238
Ramp
7375
T ->
93175
T ->
82900
Ramp
17650
T ->
82900
Ramp
16250
Ramp
12100
Ramp
5550
13413
U-Turn
7375
4325
T ->
19800
Ramp
22238
T ->
27175
Ramp
16250
T ->
36363
U-Turn
4000
T ->
32363
15200
12113

BUILD 2045


Project Limit
15775
15625
6575
5550
5700
29250
<- T
22200
U-Turn
7388
19125
Ramp
6300
Ramp
SH 45
SH 45
37775
Ramp
6488
11288
23663
20250
15450
4513
U-Turn
7388
T ->
19963
Ramp
4888
4988
Ramp

APPENDIX D
Analysis Tables

BASE 2018							RATES (Grams/Mile)									MSAT TOTALS (Grams/Day)								
Year	Link Name	Classification	Length	Speed	ADT	Daily VMT	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene
2018	I35_ML_NB_1	Urban Restricted Access	0.026179	60	93800	2455.5902	0.001125389	0.000191613	0.000132661	0.001772097	0.000115639	0.008994983	7.40553E-05	0.00082	0.00060229	2.763493159	0.47052222	0.325761709	4.351543031	0.283961959	22.08799268	0.181849532	2.013584002	1.478976841
2018	I35_ML_NB_2	Urban Restricted Access	0.545589	60	85500	46647.8595	0.001125389	0.000191613	0.000132661	0.001772097	0.000115639	0.008994983	7.40553E-05	0.00082	0.00060229	52.49696818	8.938321391	6.188364181	82.66451295	5.394311135	419.5967141	3.454522421	38.25124552	28.09552827
2018	I35_ML_NB_3	Urban Restricted Access	0.332752	70	105700	35171.8864	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	46.50962213	6.524577744	4.805631987	59.14767837	3.794338862	322.0691061	2.561457158	27.78579096	21.95234894
2018	I35_ML_NB_4	Urban Restricted Access	0.43546	70	75300	32790.138	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	43.36011184	6.082750359	4.480207124	55.14235188	3.537396132	300.2594263	2.388001961	25.90420968	20.46579314
2018	I35_ML_NB_5	Urban Restricted Access	1.215627	70	63650	77374.65855	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	102.3165517	14.35342334	10.57191331	130.1190208	8.34716883	708.5200614	5.634951472	61.12598181	48.29298846
2018	I35_ML_NB_6	Urban Restricted Access	0.430177	70	87300	37554.4521	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	49.66021318	6.966556743	5.131168519	63.15437929	4.051369762	343.8862698	2.734971877	29.66801791	23.43941486
2018	I35_ML_NB_7	Urban Restricted Access	0.962741	70	74450	71676.06745	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	94.78100705	13.29630345	9.793299072	120.5358432	7.73240551	656.3380396	5.219941119	56.62409472	44.73624262
2018	I35_ML_NB_8	Urban Restricted Access	0.427492	70	84350	36058.9502	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	47.68263292	6.689132942	4.926833964	60.63943129	3.890035197	330.1919529	2.626059207	28.48657138	22.50600517
2018	I35_ML_NB_9	Urban Restricted Access	1.286043	70	74650	96003.10995	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	126.9499258	17.8091032	13.11717008	161.4460199	10.35680392	879.1008662	6.991602623	75.84245879	59.91983897
2018	I35_ML_NB_10	Urban Restricted Access	0.210438	70	85250	17939.8395	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	23.72278662	3.327938576	2.451169822	30.16897771	1.935347721	164.2751829	1.306501727	14.17247356	11.197057
2018	I35_ML_NB_11	Urban Restricted Access	1.550053	70	70800	109743.7524	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	145.1198948	20.3580677	14.99459201	184.5533133	11.83914277	1004.923985	7.99229012	86.6975666	68.49598909
2018	I35_ML_NB_12	Urban Restricted Access	0.293135	70	84600	24799.221	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	32.79330499	4.600391448	3.388386063	41.70422737	2.67533697	227.086567	1.80604877	19.59138509	15.47830408
2018	I35_ML_NB_13	Urban Restricted Access	0.762493	70	68850	52497.64305	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	69.42037493	9.738600584	7.172897973	88.28396837	5.663439399	480.7211298	3.823237175	41.47313906	32.76612934
2018	I35_ML_NB_14	Urban Restricted Access	0.311748	70	78750	24550.155	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	32.46395201	4.55418834	3.354355488	41.28537933	2.64846776	224.8058687	1.787910081	19.39462294	15.32285084
2018	I35_ML_NB_15	Urban Restricted Access	0.806543	70	65300	52667.2579	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	69.64466551	9.770065069	7.196072919	88.5692054	5.681737429	482.2742937	3.835589687	41.6071348	32.87199356
2018	I35_ML_NB_16	Urban Restricted Access	0.783536	70	73600	57668.2496	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	76.25773799	10.69777645	7.879372228	96.9792476	6.22124381	528.0683949	4.199796084	45.55791834	35.99333638
2018	I35_ML_NB_17	Urban Restricted Access	0.221083	70	83250	18405.15975	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	24.33810389	3.414258033	2.514747813	30.95149509	1.985546413	168.5361223	1.340389528	14.54007657	11.4874842
2018	I35_ML_NB_18	Urban Restricted Access	0.920355	70	65050	59869.09275	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	79.16802782	11.10604492	8.180079507	100.6803503	6.458670503	548.2215245	4.360076524	47.29658447	37.36698112
2018	I35_Frntg_NB_1	Urban Unrestricted Access	0.190209	55	30200	5744.3118	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	6.41130374	0.679501923	0.684465583	5.96837668	0.364067358	20.60192142	0.292153006	2.987042144	3.271553259
2018	I35_Frntg_NB_2	Urban Unrestricted Access	0.094172	55	38500	3625.622	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	4.046605529	0.428879421	0.432012322	3.767044434	0.229787426	13.00325995	0.184397436	1.885323445	2.064897569
2018	I35_Frntg_NB_3	Urban Unrestricted Access	0.454194	55	18300	8311.7502	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	9.276856306	0.983207465	0.990389649	8.635961589	0.526788419	29.81001562	0.422731719	4.322110116	4.733784376
2018	I35_Frntg_NB_4	Urban Unrestricted Access	0.500596	55	15550	7784.2678	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	8.688126098	0.920810903	0.92753729	8.087904004	0.493357239	27.91820485	0.395904212	4.047819267	4.433367751
2018	I35_Frntg_NB_5	Urban Unrestricted Access	0.281192	55	36900	10375.9848	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	11.58077634	1.227388391	1.236354281	10.78071453	0.657617048	37.21337403	0.527717723	5.395512111	5.90942624
2018	I35_Frntg_NB_6	Urban Unrestricted Access	0.659759	55	48550	32031.29945	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	35.75056458	3.789023005	3.816701255	33.28072488	2.030104033	114.8799608	1.629096876	16.65627576	18.2427601
2018	I35_Frntg_NB_7	Urban Unrestricted Access	0.553828	55	24900	13790.3172	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	15.3915587	1.631274098	1.643190313	14.32822772	0.874013201	49.45884577	0.701369069	7.170964964	7.853988214
2018	I35_Frntg_NB_8	Urban Unrestricted Access	0.487156	55	11350	5529.2206	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	6.171237556	0.654058512	0.658836312	5.744895548	0.350435144	19.83049881	0.281213568	2.87519472	3.149052541
2018	I35_Frntg_NB_9	Urban Unrestricted Access	0.523351	55	24200	12665.0942	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	14.13568216	1.498170043	1.509113953	13.15911383	0.802697963	45.42324383	0.644140755	6.585849002	7.213140868
2018	I35_Frntg_NB_10	Urban Unrestricted Access	0.486577	55	14300	6958.0511	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	7.765974515	0.823076682	0.829089135	7.229459571	0.440992649	24.95498626	0.353883218	3.618186582	3.962813222
2018	I35_Frntg_NB_11	Urban Unrestricted Access	0.383853	55	12000	4606.236	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	5.141082017	0.544877494	0.548857743	4.785908649	0.291937525	16.52022304	0.234271004	2.395242727	2.623385868
2018	I35_Frntg_NB_12	Urban Unrestricted Access	0.925629	55	21700	20086.1493	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	22.41842167	2.376016056	2.3933725	20.86963752	1.273035232	72.03878967	1.021572139	10.44479766	11.43964838
2018	I35_Frntg_NB_13	Urban Unrestricted Access	0.277776	55	11100	3083.3136	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	3.441327822	0.364729073	0.367393365	3.20358254	0.195416592	11.05827586	0.156815884	1.603323076	1.756037104
2018	I35_Frntg_NB_14	Urban Unrestricted Access	0.27906	55	11550	3223.143	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	3.597393298	0.38126967	0.384054788	3.34886618	0.204278806	11.55977272	0.163927542	1.676034365	1.835674029
2018	I35_Frntg_NB_15	Urban Unrestricted Access	0.160373	55	26000	4169.698	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	4.653856078	0.493238861	0.496841897	4.332342876	0.264270288	14.95458352	0.212068886	2.168242966	2.374764733
2018	I35_Frntg_NB_16	Urban Unrestricted Access	0.177397	55	16650	2953.66005	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	3.296619749	0.34939219	0.351944448	3.068871673	0.187199311	10.5932746	0.150221766	1.53590323	1.682195622
2018	I35_Frntg_NB_17	Urban Unrestricted Access	0.448438	55	25350	11367.9033	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	12.68786993	1.344723688	1.354546695	11.8113242	0.720483613	40.7708806	0.578166233	5.911309732	6.474352782
2018	I35_Frntg_NB_18	Urban Unrestricted Access	0.409189	55	29850	12214.29165	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	13.63253536	1.444844038	1.455398409	12.6907271	0.774126656	43.80644463	0.621213148	6.351431675	6.956395656
2018	I35_Frntg_NB_19	Urban Unrestricted Access	0.291599	55	16050	4680.16395	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	5.223593998	0.553622525	0.557666655	4.862720261	0.296622987	16.78536495	0.238030945	2.433685261	2.665489993
2018	I35_Frntg_NB_20	Urban Unrestricted Access	0.294913	55	14750	4349.96675	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	4.855056457	0.51456308	0.518321886	4.51964326	0.275695498	15.60111573	0.22123727	2.261982716	2.477433049
2018	I35_Frntg_NB_21	Urban Unrestricted Access	0.456512	55	30500	13923.616	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	15.54033528	1.647042182	1.65907358	14.46672603	0.882461514	49.93692069	0.708148583	7.24028034	7.929905772
2018	I35_Frntg_NB_22	Urban Unrestricted Access	0.402331	55	20600	8288.0186	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	9.250369148	0.980400223	0.987561901	8.611304305	0.52528434	29.72490246	0.421524741	4.309769684	4.720268537
2018	I35_Frntg_NB_23	Urban Unrestricted Access	0.266939	55	13350	3563.63565	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	3.977421729	0.421546977	0.424626315	3.70264022	0.225858808	12.78094647	0.181244839	1.853090543	2.029594533
2018	I35_Frntg_NB_24	Urban Unrestricted Access	0.344528	55	26800	9233.3504	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	10.3054667	1.09222472	1.100203259	9.593510088	0.585198297	33.11532626	0.469603873	4.801342221	5.258662594
2018	I35_Frntg_NB_25	Urban Unrestricted Access	0.456765	55	18500	8450.1525	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	9.431328977	0.999579248	1.006881026	8.779762464	0.535560185	30.3063942	0.429770795	4.394079312	4.812608526
2018	I35_Frntg_NB_26	Urban Unrestricted Access	0.483077	55	19000	9178.463	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	10.24420613	1.08573202	1.093663131	9.536481729	0.581719602	32.91847311	0.466812326	4.772800773	5.227402617
2018	I35_Frntg_NB_27	Urban Unrestricted Access	0.572905	55	9350	5356.66175	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	5.9786423	0.633646307	0.638274999	5.5656058	0.339498578	19.21161808	0.272437306	2.785464118	3.050775239
2018	I35_Frntg_NB_28	Urban Unrestricted Access	0.680876	55	27550	18758.1338	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	20.93620569	2.218923419	2.235132325	19.48982093	1.188867256	67.2758743	0.954029893	9.754229603	10.68330479
2018	I35_Rmp_NB_1	Urban Restricted Access	0.174453	55	8300	1447.9599	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	1.675230733	0.293268796	0.200950869	2.722752849	0.177762218	14.28800381	0.11361772	1.245245472	0.916524213
2018	I35_Rmp_NB_2	Urban Restricted Access	0.281402	55	20200	5684.3204	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	6.57652759	1.151298318	0.788881739	10.68883162	0.697849023	56.09105025	0.446034122	4.888515379	3.598039754
2018	I35_RmpDC_NB_3	Urban Restricted Access	0.689045	55	30400	20946.968	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	24.23479032	4.242584397	2.907063534	39.38880959	2.571604012	206.6979607	1.643655146	18.01439187	13.25893304
2018	I35_Rmp_NB_4	Urban Restricted Access	0.190212	55	11650	2215.9698	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	2.563786962	0.448820989	0.307536871	4.166923467	0.272048768	21.86647913	0.173881498	1.905733964	1.402656232
2018	I35_Rmp_NB_5	Urban Restricted Access	0.366345	55	23650	8664.05925	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	10.02396429	1.754812562	1.202416059	16.29195118	1.063663702	85.49415736	0.679846628	7.451090704	5.484143647
2018	I35_Rmp_NB_6	Urban Restricted Access	0.243016	55	12850	3122.7556	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	3.612901264	0.632480757	0.43338248	5.872049154	0.383372469	30.81435052	0.245034666	2.685569725	1.976630098
2018	I35_Rmp_NB_7	Urban Restricted Access	0.197769	55	9900	1957.9131	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	2.265225852	0.396554364	0.271723229	3.681672035	0.240367827	19.3200584	0.153632447	1.683805209	1.239312472
2018	I35_Rmp_NB_8	Urban Restricted Access	0.240797	55	9700	2335.7309	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	2.702345685	0.473077319	0.324157564	4.392122988	0.286751522	23.04824325	0.183278846	2.008728506	1.478462163
2018	I35_Rmp_NB_9	Urban Restricted Access	0.129415	55	10600	1371.799	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	1.587115669	0.27784322	0.190381102	2.579539416	0.168412145	13.53647248	0.107641568	1.1797471	0.868316173
2018	I35_Rmp_NB_10	Urban Restricted Access	0.217471	55	14450	3142.45595	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	3.635693768	0.636470852	0.436116535	5.909093816	0.385791029	31.00874726	0.246580502	2.702512026	1.989099952
2018	I35_Rmp_NB_11	Urban Restricted Access	0.62071	55	9350	5803.6385	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	6.714573781	1.175464924	0.805440952	10.91319812	0.712497391	57.26844299	0.455396709	4.991128942	3.673565276
2018	I35_Rmp_NB_12	Urban Restricted Access	0.137804	55	13800	1901.6952	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	2.200184027	0.385168029	0.263921192	3.575959544	0.233466104	18.76531819	0.149221171	1.635457817	1.203727877
2018	I35_Rmp_NB_13	Urban Restricted Access	0.156977	55	15750	2472.38775	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	2.860452105	0.500755703	0.343123084	4.649093383	0.303528523	24.39672921	0.19400196	2.126253393	1.564962702
2018	I35_Rmp_NB_14	Urban Restricted Access	0.150277	55	9900	1487.7423	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	1.721257353	0.301326295	0.206471953	2.797559923	0.182646198	14.68056377	0.116739343	1.279458335	0.941705527
2018	I35_Rmp_NB_15	Urban Restricted Access	0.207396	55	13450	2789.4762	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	3.227310549	0.564978578	0.387129275	5.245348487	0.342456636	27.52565631	0.218883082	2.398949451	1.765672157
2018	I35_Rmp_NB_16	Urban Restricted Access	0.257743	55	8300	2139.2669	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	2.475044825	0.433285637	0.296891884	4.022690854	0.262632155	21.10959952	0.167862817	1.839769472	1.354105119
2018	I35_Rmp_NB_17	Urban Restricted Access	0.118938	55	9650	1147.7517	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	1.327902052	0.232464835	0.159287354	2.158239473	0.140906449	11.32564559	0.090061148	0.987066429	0.726499556
2018	I35_Rmp_NB_18	Urban Restricted Access	0.234816	55	18200	4273.6512	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	4.944440681	0.865582355	0.593106151	8.036200436	0.524664886	42.17101911	0.335342508	3.675339908	2.705119668
2018	I35_ML_SB_1	Urban Restricted Access	0.723894	70	66650	48247.5351	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	63.80023524	8.95018226	6.592193985	81.13666853	5.204938266	441.8028741	3.513715265	38.1155537	30.11344669
2018	I35_ML_SB_2	Urban Restricted Access	0.452029	70	84600	38241.6534	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	50.56893534	7.094036351	5.225062731	64.31002847	4.125504955	350.1789749	2.785018572	30.21090695	23.86832796
2018	I35_ML_SB_3	Urban Restricted Access	0.690569	70	74950	51758.14655	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	68.44250009	9.60141993	7.071858524	87.04037567	5.583662606	473.9495573	3.769381985	40.88893681	32.30457647
2018	I35_ML_SB_4	Urban Restricted Access	0.653877	70	67700	44267.4729	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	58.53719115	8.211858903	6.048387093	74.44349784	4.775569636	405.3574284	3.223859933	34.97130448	27.62931169
2018	I35_ML_SB_5	Urban Restricted Access	0.445161	70	79550	35412.55755	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	46.82787416	6.569223562	4.838515551	59.552409	3.820302436	324.2729327	2.578984477	27.97592117	22.10256258
2018	I35_ML_SB_6	Urban Restricted Access	0.684822	70	67700	46362.4494	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	61.30748798	8.600488528	6.334629519	77.96656723	5.001575448	424.5411367	3.376430441	36.62633596	28.93688031
2018	I35_ML_SB_7	Urban Restricted Access	0.444122	70	82400	36595.6528	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	48.39234279	6.788694216	5.000165123	61.54199058	3.947934609	335.1065407	2.665145559	28.91056645	22.8409853

BASE 2018							RATES (Grams/Mile)									MSAT TOTALS (Grams/Day)								
Year	Link Name	Classification	Length	Speed	ADT	Daily VMT	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene
2018	I35_ML_SB_8	Urban Restricted Access	1.448118	70	67300	97458.3414	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	128.8742543	18.07905661	13.31600237	163.893246	10.51379411	892.4264265	7.097582523	76.99209166	60.82811407
2018	I35_ML_SB_9	Urban Restricted Access	0.237195	70	82300	19521.1485	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	25.81383409	3.621280064	2.667228439	32.82822536	2.105939145	178.7552358	1.421663456	15.42170771	12.18402274
2018	I35_ML_SB_10	Urban Restricted Access	1.182842	70	71100	84100.0662	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	111.2099094	15.60102333	11.49082434	141.42897	9.072704996	770.1046464	6.124741623	66.43905399	52.49061647
2018	I35_ML_SB_11	Urban Restricted Access	0.778154	70	79350	61746.5199	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	81.65064778	11.45431794	8.436597564	103.8375724	6.661207118	565.4131325	4.496803601	48.77975196	38.53876745
2018	I35_ML_SB_12	Urban Restricted Access	0.780084	70	67400	52577.6616	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	69.52618764	9.753444464	7.183831129	88.41853355	5.67207179	481.45386	3.829064673	41.53635372	32.8160725
2018	I35_ML_SB_13	Urban Restricted Access	0.704131	70	81600	57457.0896	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	75.9785101	10.65860511	7.850520854	96.62414512	6.198463894	526.1348019	4.184417969	45.39110194	35.86154197
2018	I35_ML_SB_14	Urban Restricted Access	0.862608	70	60750	52403.436	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	69.29580003	9.72112466	7.160026204	88.12554274	5.653276354	479.8584754	3.816376374	41.39871549	32.7073305
2018	I35_ML_SB_15	Urban Restricted Access	0.44756	70	73000	32671.88	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	43.20373311	6.060812851	4.464049207	54.94348037	3.524638473	299.1765373	2.379389606	25.81078586	20.39198302
2018	I35_ML_SB_16	Urban Restricted Access	0.400978	70	99250	39797.0665	0.001322352	0.000185505	0.000136633	0.001681675	0.00010788	0.009157004	7.28268E-05	0.00079	0.000624145	52.62573931	7.382574008	5.437583119	66.92572763	4.293302733	364.4218989	2.898294385	31.43968333	24.83913091
2018	I35_ML_SB_17	Urban Restricted Access	0.346447	60	81050	28079.52935	0.001125389	0.000191613	0.000132661	0.001772097	0.000115639	0.008994983	7.40553E-05	0.00082	0.00060229	31.60038155	5.380393882	3.725065963	49.75963833	3.247088279	252.5748957	2.079438687	23.02521451	16.91201309
2018	I35_ML_SB_18	Urban Restricted Access	0.248428	60	91250	22669.055	0.001125389	0.000191613	0.000132661	0.001772097	0.000115639	0.008994983	7.40553E-05	0.00082	0.00060229	25.51149553	4.34367839	3.007305576	40.17175516	2.621426516	203.9077697	1.678764247	18.58862546	13.65333978
2018	I35_Frntg_SB_1	Urban Unrestricted Access	0.467351	55	24450	11426.73195	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	12.75352938	1.351682603	1.361556444	11.87244754	0.724212099	40.98186901	0.581158231	5.94190063	6.507857416
2018	I35_Frntg_SB_2	Urban Unrestricted Access	0.847757	55	6500	5510.4205	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	6.150254511	0.651834624	0.656596179	5.725362124	0.349243617	19.76307243	0.280257404	2.865418668	3.138345336
2018	I35_Frntg_SB_3	Urban Unrestricted Access	0.423975	55	16150	6847.19625	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	7.642247924	0.809963522	0.815880185	7.114280673	0.433966806	24.55740636	0.348245192	3.56054206	3.899678148
2018	I35_Frntg_SB_4	Urban Unrestricted Access	0.303461	55	17750	5386.43275	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	6.011870114	0.637167956	0.641822373	5.596538059	0.341385427	19.3183915	0.273951445	2.800945038	3.067730692
2018	I35_Frntg_SB_5	Urban Unrestricted Access	0.321003	55	25000	8025.075	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	8.956894256	0.949296292	0.95623076	8.338104224	0.508619301	28.78185766	0.408151553	4.173039011	4.570514481
2018	I35_Frntg_SB_6	Urban Unrestricted Access	0.47531	55	13150	6250.3265	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	6.97607356	0.739359043	0.744759951	6.494129188	0.396137942	22.41673849	0.317888676	3.250169789	3.559743402
2018	I35_Frntg_SB_7	Urban Unrestricted Access	0.348818	55	19950	6958.9191	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	7.766943301	0.823179359	0.829192562	7.230361429	0.441047662	24.95809933	0.353927364	3.618637942	3.963307573
2018	I35_Frntg_SB_8	Urban Unrestricted Access	0.232475	55	31800	7392.705	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	8.251097585	0.874492443	0.88088048	7.681067752	0.468540474	26.51386847	0.375989511	3.84420661	4.210361306
2018	I35_Frntg_SB_9	Urban Unrestricted Access	0.518056	55	17100	8858.7576	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	9.88737863	1.047913663	1.055568517	9.204305775	0.56145707	31.77185263	0.450552259	4.606553965	5.045321059
2018	I35_Frntg_SB_10	Urban Unrestricted Access	0.378013	55	23300	8807.7029	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	9.830395792	1.041874338	1.049485075	9.151259615	0.558221286	31.58874542	0.447955641	4.58000552	5.016243917
2018	I35_Frntg_SB_11	Urban Unrestricted Access	0.776015	55	38400	29798.976	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	33.25903832	3.524958635	3.550707934	30.96132655	1.888622142	106.8737533	1.515561952	15.49546756	16.97138673
2018	I35_Frntg_SB_12	Urban Unrestricted Access	0.230858	55	36250	8368.6025	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	9.340309924	0.989932595	0.997163906	8.695031493	0.530391648	30.01391587	0.425623201	4.351673312	4.766163421
2018	I35_Frntg_SB_13	Urban Unrestricted Access	0.384547	55	21250	8171.62375	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	9.120459289	0.966631729	0.97369283	8.490369312	0.517907379	29.3074534	0.415604954	4.249244362	4.653978273
2018	I35_Frntg_SB_14	Urban Unrestricted Access	0.269933	55	9900	2672.3367	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	2.982630971	0.316114095	0.318423261	2.776574914	0.169369386	9.584310989	0.135913792	1.389615088	1.521973762
2018	I35_Frntg_SB_15	Urban Unrestricted Access	0.818137	55	21100	17262.6907	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	19.26712151	2.04202556	2.056942253	17.93604599	1.094087927	61.91248138	0.877972358	8.976599188	9.831606288
2018	I35_Frntg_SB_16	Urban Unrestricted Access	0.500047	55	12850	6425.60395	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	7.171703082	0.760092834	0.7656452	6.676243579	0.407246809	23.04536945	0.326803205	3.341314063	3.659569026
2018	I35_Frntg_SB_17	Urban Unrestricted Access	0.667897	55	13950	9317.16315	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	10.39901124	1.102139037	1.110189998	9.680592071	0.590510245	33.41591992	0.473866551	4.844924851	5.306396402
2018	I35_Frntg_SB_18	Urban Unrestricted Access	0.408956	55	25900	10591.9604	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	11.82182961	1.252936419	1.262088933	11.00511456	0.671305314	37.98796853	0.538702141	5.507819423	6.032430649
2018	I35_Frntg_SB_19	Urban Unrestricted Access	0.399416	55	11700	4673.1672	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	5.215784831	0.55279487	0.556832955	4.855450593	0.296179541	16.76027117	0.237675093	2.430046951	2.66150514
2018	I35_Frntg_SB_20	Urban Unrestricted Access	0.739309	55	22300	16486.5907	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	18.40090585	1.950219707	1.964465772	17.12967313	1.044899672	59.12900587	0.838500275	8.573027187	9.389594682
2018	I35_Frntg_SB_21	Urban Unrestricted Access	0.303933	55	43150	13114.70895	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	14.63750323	1.551355542	1.562687964	13.62626643	0.831193988	47.03578299	0.66700795	6.819648673	7.469209593
2018	I35_Frntg_SB_22	Urban Unrestricted Access	0.448644	55	30900	13863.0996	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	15.47279211	1.63988362	1.651862726	14.4038491	0.878626059	49.71987917	0.705070748	7.208811812	7.895439915
2018	I35_Frntg_SB_23	Urban Unrestricted Access	0.509336	55	16550	8429.5108	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	9.408290497	0.997137515	1.004421457	8.758315606	0.53425194	30.23236293	0.428720968	4.383345628	4.800852476
2018	I35_Frntg_SB_24	Urban Unrestricted Access	0.312862	55	20950	6554.4589	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	7.315519826	0.77533525	0.780998958	6.810124696	0.415413476	23.50750654	0.333356707	3.408318637	3.732955682
2018	I35_Frntg_SB_25	Urban Unrestricted Access	0.345653	55	11000	3802.183	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	4.243667638	0.449765046	0.453050512	3.950492442	0.240977643	13.63649435	0.193377245	1.977135165	2.165454212
2018	I35_Frntg_SB_26	Urban Unrestricted Access	0.125117	55	20950	2621.20115	0.001116113	0.000118291	0.000119155	0.001039006	6.33788E-05	0.003586491	5.08595E-05	0.00052	0.000569529	2.925557895	0.310065206	0.312330186	2.723444751	0.166128478	9.400913809	0.133313062	1.363024602	1.492850573
2018	I35_Rmp_SB_1	Urban Restricted Access	0.266045	55	17950	4775.50775	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	5.525068305	0.967228033	0.662754841	8.979894631	0.586276491	47.12317856	0.374721911	4.106936527	3.02278294
2018	I35_Rmp_SB_2	Urban Restricted Access	0.132241	55	9650	1276.12565	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	1.476425492	0.258465606	0.177103357	2.399634651	0.15666658	12.59239855	0.100134325	1.097468022	0.807757216
2018	I35_Rmp_SB_3	Urban Restricted Access	0.211717	55	7250	1534.94825	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	1.775872717	0.310887356	0.213023292	2.886326286	0.188441548	15.14637694	0.120443474	1.32005545	0.971585772
2018	I35_Rmp_SB_4	Urban Restricted Access	0.157887	55	11850	1870.96095	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	2.16462575	0.378943135	0.25965583	3.518166668	0.229692941	18.46204247	0.146809533	1.609026363	1.184273827
2018	I35_Rmp_SB_5	Urban Restricted Access	0.208591	55	11850	2471.80335	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	2.859775978	0.500637339	0.34304198	4.647994474	0.303456778	24.39096254	0.193956104	2.125750809	1.564592791
2018	I35_Rmp_SB_6	Urban Restricted Access	0.234417	55	14700	3445.9299	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	3.98680079	0.697936256	0.478233277	6.479748129	0.423047725	34.00333084	0.270393329	2.963499614	2.181191752
2018	I35_Rmp_SB_7	Urban Restricted Access	0.218817	55	15100	3304.1367	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	3.822751823	0.66921756	0.458554924	6.213119309	0.405640148	32.60416103	0.259267178	2.841557466	2.091440025
2018	I35_Rmp_SB_8	Urban Restricted Access	0.233403	55	15000	3501.045	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	4.05056672	0.70909923	0.485882265	6.583386907	0.42981406	34.54718897	0.27471807	3.010898598	2.2160783
2018	I35_Rmp_SB_9	Urban Restricted Access	0.182693	55	11200	2046.1616	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	2.367325779	0.414428154	0.283970538	3.847615066	0.251201863	20.19086629	0.160557081	1.759698917	1.295171676
2018	I35_Rmp_SB_10	Urban Restricted Access	0.17554	55	8250	1448.205	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	1.675514304	0.293318438	0.200984885	2.723213736	0.177792308	14.29042237	0.113636952	1.245456258	0.916679356
2018	I35_Rmp_SB_11	Urban Restricted Access	0.221455	55	11950	2646.38725	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	3.061762452	0.535997441	0.367271095	4.976283131	0.324889983	26.11370046	0.207655257	2.275892958	1.675100251
2018	I35_Rmp_SB_12	Urban Restricted Access	0.151205	55	14200	2147.111	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	2.48412013	0.434874375	0.297980504	4.037440949	0.263595154	21.18700258	0.168478323	1.846515398	1.359070248
2018	I35_Rmp_SB_13	Urban Restricted Access	0.283444	55	20850	5909.8074	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	6.837406881	1.196968299	0.820175292	11.11283878	0.725531467	58.31608363	0.463727511	5.082434193	3.740767667
2018	I35_Rmp_SB_14	Urban Restricted Access	0.276615	60	12250	3388.53375	0.001125389	0.000191613	0.000132661	0.001772097	0.000115639	0.008994983	7.40553E-05	0.00082	0.00060229	3.813417172	0.649286034	0.449527183	6.004809118	0.391846604	30.47980427	0.25093897	2.778597728	2.040879191
2018	I35_RmpDC_SB_15	Urban Restricted Access	0.507646	55	26250	13325.7075	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	15.41730178	2.698979571	1.849369242	25.0577437	1.635961962	131.4938069	1.045634275	11.46010806	8.434856229
2018	I35_Rmp_SB_16	Urban Restricted Access	0.189138	55	18200	3442.3116	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	3.982614564	0.697203408	0.477731122	6.472944255	0.422603516	33.96762662	0.27010941	2.960387876	2.178901454
2018	I35_Rmp_SB_17	Urban Restricted Access	0.209573	55	10200	2137.6446	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	2.47316789	0.432957057	0.296666738	4.019640271	0.262432989	21.09359118	0.167735519	1.838374294	1.353078241
2018	I35_Rmp_SB_18	Urban Restricted Access	0.298458	55	9950	2969.6571	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	3.435772525	0.601472293	0.412135153	5.584161778	0.36457697	29.30362363	0.233021417	2.55390502	1.879722385
2018	I35_RmpDC_SB_19	Urban Restricted Access	0.419528	55	8250	3461.106	0.001156959	0.000202539	0.000138782	0.001880406	0.000122767	0.009867679	7.84674E-05	0.00086	0.000632976	4.004358921	0.701010013	0.480339448	6.508285362	0.424910855	34.15308373	0.271584159	2.97655106	2.190797862
Daily Total						**2,333,169.60**										**2941.21906**	**402.6752988**	**310.0692363**	**3643.579273**	**232.6162453**	**18703.53715**	**159.9973574**	**1722.90607**	**1428.301643**
Tons/Day																**0.003242139**	**0.000443874**	**0.000341793**	**0.004016359**	**0.000256416**	**0.020617121**	**0.000176367**	**0.001899179**	**0.001574433**
Yearly Total						**851,606,903.45**										**1.183380749**	**0.162013841**	**0.124754382**	**1.465970905**	**0.093591664**	**7.525249004**	**0.064373917**	**0.69320028**	**0.574668066**

NO BUILD 2045							RATES (Grams/Mile)									MSAT TOTALS (Grams/Day)								
Year	Link Name	Classification	Length	Speed	ADT	Daily VMT	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene
2040	I35_ML_NB_1	Urban Restricted Access	0.026179	70	130150	3407.19685	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	0.9911592	0.162619875	0.006113583	1.94680156	0.090255293	3.843894292	0.047274872	0.647367422	0.607153384
2040	I35_ML_NB_2	Urban Restricted Access	0.878341	70	118700	104259.0767	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	30.32913788	4.976113448	0.187073575	59.57147241	2.761781581	117.6218714	1.446595177	19.80922521	18.57868916
2040	I35_ML_NB_3	Urban Restricted Access	0.158191	70	84113	13305.91958	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	3.870714017	0.635069554	0.023875005	7.60272627	0.352468531	15.01132767	0.184619696	2.528124802	2.371079351
2040	I35_ML_NB_4	Urban Restricted Access	0.277269	70	113901	31581.21637	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	9.187028083	1.507319271	0.056666635	18.04485153	0.836573893	35.62895327	0.438189525	6.000431303	5.627688455
2040	I35_ML_NB_5	Urban Restricted Access	0.446491	70	96288	42991.72541	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	12.50636404	2.051924012	0.077140677	24.56457955	1.138833751	48.50193728	0.596510391	8.16842809	7.661010707
2040	I35_ML_NB_6	Urban Restricted Access	0.769136	70	105476	81125.38874	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	23.59950978	3.871980749	0.145564463	46.35336327	2.148979364	91.52315891	1.125615148	15.41382436	14.45632772
2040	I35_ML_NB_7	Urban Restricted Access	0.430177	70	133275	57331.83968	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	16.677927	2.73635397	0.102871352	32.7582232	1.518697689	64.68001146	0.795479544	10.89304989	10.21638079
2040	I35_ML_NB_8	Urban Restricted Access	0.962741	70	113613	109379.8932	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	31.81879188	5.220521559	0.196261931	62.49740069	2.897429979	123.3990185	1.51764653	20.78218038	19.491205
2040	I35_ML_NB_9	Urban Restricted Access	0.427492	70	128476	54922.46219	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	15.9770351	2.621358364	0.098548171	31.38155492	1.454874235	61.96182617	0.76204942	10.43526815	9.787036154
2040	I35_ML_NB_10	Urban Restricted Access	1.286043	70	113613	146111.2034	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	42.50399075	6.973646295	0.262169454	83.48490889	3.870427813	164.8381486	2.02729363	27.76112953	26.03662641
2040	I35_ML_NB_11	Urban Restricted Access	0.210438	70	129638	27280.76144	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	7.936018632	1.302065664	0.048950266	15.58766085	0.722656548	30.77731279	0.378520693	5.183344841	4.861358867
2040	I35_ML_NB_12	Urban Restricted Access	1.412301	70	107588	151946.64	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	44.20152892	7.252162043	0.272640062	86.81915626	4.025006214	171.421508	2.10826034	28.86986253	27.07648564
2040	I35_ML_NB_13	Urban Restricted Access	0.43089	70	128526	55380.56814	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	16.11029888	2.643223004	0.099370157	31.64330715	1.46700928	62.47864716	0.768405642	10.52230829	9.868669411
2040	I35_ML_NB_14	Urban Restricted Access	0.762493	70	104588	79747.61788	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	23.19871396	3.806222023	0.143092309	45.5661336	2.112482761	89.96880037	1.106498571	15.15204789	14.21081263
2040	I35_ML_NB_15	Urban Restricted Access	0.311748	70	119626	37293.16625	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	10.84864375	1.7799412	0.06691567	21.30854113	0.987881179	42.07299877	0.517442856	7.085701815	6.645542676
2040	I35_ML_NB_16	Urban Restricted Access	0.806543	70	100813	81310.01946	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	23.65321916	3.880792868	0.145895748	46.45885743	2.153870159	91.73145359	1.1281769	15.44890419	14.48922842
2040	I35_ML_NB_17	Urban Restricted Access	0.783536	70	113376	88834.17754	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	25.84200919	4.2399085	0.159396455	50.75800519	2.353182121	100.2199764	1.232574629	16.87849427	15.83001331
2040	I35_ML_NB_18	Urban Restricted Access	0.221083	60	84125	18598.60738	0.00022605	5.04959E-05	2.0951E-06	0.000627538	2.90095E-05	0.001103702	1.21168E-05	0.00021	0.000173389	4.204209411	0.939153802	0.038965915	11.67132987	0.539536201	20.52732277	0.225356013	3.905707518	3.224790746
2040	I35_ML_NB_19	Urban Restricted Access	0.920355	60	100375	92380.63313	0.00022605	5.04959E-05	2.0951E-06	0.000627538	2.90095E-05	0.001103702	1.21168E-05	0.00021	0.000173389	20.88261338	4.664845121	0.193546531	57.97234282	2.67991548	101.9607025	1.119359675	19.3999328	16.01776976
2040	I35_Frntg_NB_1	Urban Unrestricted Access	0.190209	55	48625	9248.912625	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.028673118	0.263539598	0.009247478	3.075495849	0.142858379	4.108706465	0.098758315	1.017380397	1.633530211
2040	I35_Frntg_NB_2	Urban Unrestricted Access	0.094172	55	60075	5657.3829	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.240900533	0.16120213	0.005656505	1.881221969	0.087383737	2.513217136	0.060408572	0.622312124	0.999199177
2040	I35_Frntg_NB_3	Urban Unrestricted Access	0.454194	55	12275	5575.23135	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.222881264	0.158861294	0.005574367	1.853904515	0.086114827	2.476722402	0.059531372	0.613275453	0.984689683
2040	I35_Frntg_NB_4	Urban Unrestricted Access	0.292397	55	9325	2726.602025	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.598057789	0.077692117	0.002726179	0.906663686	0.042114999	1.211256698	0.029114192	0.299926225	0.481568695
2040	I35_Frntg_NB_5	Urban Unrestricted Access	0.208199	55	27163	5655.309437	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.240445736	0.161143048	0.005654432	1.880532491	0.087351711	2.512296027	0.060386432	0.622084043	0.998832965
2040	I35_Frntg_NB_6	Urban Unrestricted Access	0.281192	55	47963	13486.8119	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.95822156	0.384294795	0.01348472	4.484703843	0.208316822	5.991336871	0.144009882	1.48354932	2.382022144
2040	I35_Frntg_NB_7	Urban Unrestricted Access	0.659759	55	65576	43264.35618	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	9.489681642	1.232779623	0.043257646	14.38648555	0.668259724	19.21961502	0.461969433	4.759079217	7.641291008
2040	I35_Frntg_NB_8	Urban Unrestricted Access	0.553828	55	37775	20920.8527	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	4.588817431	0.596121223	0.020917608	6.956709209	0.323142755	9.29381066	0.223389305	2.301293815	3.695012193
2040	I35_Frntg_NB_9	Urban Unrestricted Access	0.487156	55	17263	8409.774028	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.84461495	0.239629084	0.00840847	2.79646118	0.129897074	3.7359303	0.089798136	0.92507515	1.485322707
2040	I35_Frntg_NB_10	Urban Unrestricted Access	0.523351	55	36926	19325.25903	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	4.238837047	0.55065619	0.019322262	6.426134219	0.298497271	8.584989384	0.206351827	2.125778509	3.413200635
2040	I35_Frntg_NB_11	Urban Unrestricted Access	0.486577	55	22063	10735.34835	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.354710601	0.305894271	0.010733683	3.569773078	0.165817813	4.769035773	0.114630223	1.180888328	1.896062442
2040	I35_Frntg_NB_12	Urban Unrestricted Access	0.383853	55	18288	7019.903664	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.539758286	0.200025956	0.007018815	2.33429436	0.108429185	3.11849887	0.074957337	0.772189409	1.239845718
2040	I35_Frntg_NB_13	Urban Unrestricted Access	0.925629	55	33151	30685.52698	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	6.730618637	0.874356993	0.030680768	10.20370877	0.47396757	13.63163738	0.327654835	3.375407994	5.419635517
2040	I35_Frntg_NB_14	Urban Unrestricted Access	0.277776	55	17125	4756.914	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.043390066	0.135544064	0.004756176	1.581793434	0.073475126	2.113195799	0.050793518	0.523260544	0.8401596
2040	I35_Frntg_NB_15	Urban Unrestricted Access	0.27906	55	17613	4915.08378	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.07808331	0.140050972	0.004914321	1.63438886	0.075918211	2.183460621	0.052482428	0.54065922	0.868095328
2040	I35_Frntg_NB_16	Urban Unrestricted Access	0.160373	55	39663	6360.874299	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.395205601	0.181247496	0.006359888	2.115150536	0.098249841	2.825733837	0.067920333	0.699696178	1.123448859
2040	I35_Frntg_NB_17	Urban Unrestricted Access	0.177397	55	17700	3139.9269	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.688717209	0.089469444	0.00313944	1.044104592	0.0484992	1.394870779	0.033527605	0.345391962	0.554569565
2040	I35_Frntg_NB_18	Urban Unrestricted Access	0.448438	55	23375	10482.23825	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.299192977	0.298682122	0.010480613	3.485607609	0.161908283	4.656594976	0.111927556	1.153046217	1.851358484
2040	I35_Frntg_NB_19	Urban Unrestricted Access	0.535835	55	45338	24293.68723	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	5.328621019	0.692227164	0.024289919	8.07826144	0.375239438	10.79214756	0.259403858	2.672305616	4.290717583
2040	I35_Frntg_NB_20	Urban Unrestricted Access	0.164953	55	24400	4024.8532	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.882818535	0.114684638	0.004024229	1.338364823	0.062167741	1.787987522	0.042976698	0.442733855	0.710864029
2040	I35_Frntg_NB_21	Urban Unrestricted Access	0.294913	55	22425	6613.424025	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.450600312	0.188443677	0.006612398	2.199129666	0.102150715	2.937925695	0.070617016	0.727476648	1.168053844
2040	I35_Frntg_NB_22	Urban Unrestricted Access	0.456512	55	46363	21165.26586	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	4.642427452	0.60308556	0.021161983	7.037982724	0.326917952	9.402387954	0.225999107	2.328179262	3.738180108
2040	I35_Frntg_NB_23	Urban Unrestricted Access	0.402331	55	31325	12603.01858	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.764368745	0.359111885	0.012601064	4.190820357	0.194665782	5.598723439	0.134572888	1.386332054	2.225927785
2040	I35_Frntg_NB_24	Urban Unrestricted Access	0.266939	55	20276	5412.455164	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.187177643	0.15422313	0.005411616	1.799777343	0.083600592	2.404411245	0.057793275	0.595370073	0.955940377
2040	I35_Frntg_NB_25	Urban Unrestricted Access	0.344528	55	39088	13466.91046	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.953856345	0.383727721	0.013464822	4.478086117	0.208009425	5.982495925	0.143797378	1.481360163	2.37850718
2040	I35_Frntg_NB_26	Urban Unrestricted Access	0.456765	55	26525	12115.69163	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.657477576	0.345225934	0.012113813	4.028771901	0.187138547	5.382234921	0.129369293	1.332726089	2.13985677
2040	I35_Frntg_NB_27	Urban Unrestricted Access	0.483077	55	27175	13127.61748	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.879435211	0.374059867	0.013125581	4.365262673	0.202768718	5.831769525	0.140174465	1.444037934	2.31858172
2040	I35_Frntg_NB_28	Urban Unrestricted Access	0.572905	55	56425	32326.16463	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	7.090479047	0.921105514	0.032321151	10.74926201	0.499308802	14.36046884	0.345173285	3.555878137	5.709402678
2040	I35_Frntg_NB_29	Urban Unrestricted Access	0.680876	55	40175	27354.1933	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	5.999917921	0.779433582	0.027349951	9.095956611	0.422511907	12.15173669	0.292083421	3.008961287	4.83125995
2040	135N_Rmp_NB_1	Urban Restricted Access	0.419528	55	11450	4803.5956	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.105011075	0.260233661	0.010943436	3.251289025	0.150239489	5.672969053	0.059774212	1.05679104	0.883932106
2040	135N_Rmp_NB_2	Urban Restricted Access	0.298458	55	47625	14214.06225	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	3.269779038	0.770043477	0.032382136	9.620715074	0.444565618	16.78657863	0.176874668	3.127093719	2.615596112
2040	135N_Rmp_NB_3	Urban Restricted Access	0.209573	55	34855	7304.666915	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.680353325	0.395728611	0.016641317	4.944126307	0.228464158	8.626694002	0.090896642	1.607026734	1.344165943
2040	135N_Rmp_NB_4	Urban Restricted Access	0.189138	55	17838	3373.843644	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.776113333	0.182777185	0.00768621	2.283568753	0.105521902	3.984455016	0.041982894	0.742245607	0.620836758
2040	135N_Rmp_NB_5	Urban Restricted Access	0.507646	55	29788	15121.75905	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	3.478584087	0.819217737	0.034450029	10.23508499	0.472955165	17.85855393	0.18816972	3.326787017	2.782625648
2040	135N_Rmp_NB_6	Urban Restricted Access	0.276615	55	9188	2541.53862	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.584651281	0.137687257	0.005790072	1.720227369	0.079490343	3.001516185	0.031625991	0.559138501	0.467680415
2040	135N_Rmp_NB_7	Urban Restricted Access	0.283444	55	17613	7879.7432	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.812642909	0.426883233	0.017951442	5.333363739	0.246450511	9.305849834	0.098052685	1.733543518	1.449988421
2040	135N_Rmp_NB_8	Urban Restricted Access	0.151205	55	27800	2973.143915	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.683937039	0.161069372	0.006773345	2.012357198	0.092989431	3.511235088	0.036996731	0.654091666	0.547102125
2040	135N_Rmp_NB_9	Urban Restricted Access	0.221455	55	19663	4354.469665	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.001694898	0.235902369	0.009920249	2.947300442	0.136192417	5.142558556	0.054185451	0.957983334	0.801286341
2040	135N_Rmp_NB_10	Urban Restricted Access	0.17554	55	14863	2609.05102	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.60018172	0.141344725	0.005943878	1.765922791	0.081601892	3.081247242	0.032466091	0.573991229	0.480103688
2040	135N_Rmp_NB_11	Urban Restricted Access	0.182693	55	14863	2715.366059	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.624638254	0.147104317	0.006186082	1.837881579	0.084927051	3.206803591	0.033789037	0.597380538	0.499667216
2040	135N_Rmp_NB_12	Urban Restricted Access	0.233403	55	16025	3740.283075	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.860408445	0.202628955	0.008521023	2.531591401	0.116982832	4.417214083	0.046542735	0.822862283	0.688266992
2040	135N_Rmp_NB_13	Urban Restricted Access	0.218817	55	22050	4824.91485	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.109915319	0.261388626	0.010992005	3.26571885	0.15090628	5.698146744	0.060039501	1.061481275	0.887855161
2040	135N_Rmp_NB_14	Urban Restricted Access	0.234417	55	21963	5148.500571	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.184352436	0.278918807	0.011729191	3.484736185	0.161026897	6.08029627	0.064066086	1.132670134	0.947399684
2040	135N_Rmp_NB_15	Urban Restricted Access	0.208591	55	20938	4367.478358	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.004687396	0.236607112	0.009949885	2.956105309	0.136599283	5.157921613	0.054347327	0.960845246	0.803680131
2040	135N_Rmp_NB_16	Urban Restricted Access	0.157887	55	23938	3779.499006	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.869429612	0.204753469	0.008610364	2.558134502	0.118209368	4.463527466	0.047030724	0.831489788	0.695483299
2040	135N_Rmp_NB_17	Urban Restricted Access	0.211717	55	15038	3183.800246	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.732396068	0.172481629	0.007253257	2.154938854	0.099578016	3.760016823	0.039618063	0.70043606	0.585865982
2040	135N_Rmp_NB_18	Urban Restricted Access	0.132241	55	18813	2487.849933	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.572300826	0.134778685	0.00566776	1.683888457	0.077811151	2.93811071	0.030957908	0.54732699	0.457800909
2040	135N_Rmp_NB_19	Urban Restricted Access	0.266045	55	12563	3342.323335	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.768862454	0.18106958	0.007614401	2.262234393	0.104536058	3.947230038	0.041590667	0.735311139	0.615036558
2040	135N_Rmp_NB_20	Urban Restricted Access	0.118938	55	29250	3478.9365	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.800288717	0.188470566	0.00792563	2.354700313	0.108808835	4.108567986	0.043290632	0.765366036	0.640175386
2040	135N_Rmp_NB_21	Urban Restricted Access	0.234816	55	16250	3815.76	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.87777103	0.2067179	0.008692973	2.58267757	0.119343483	4.506351116	0.047481942	0.839467207	0.702155854
2040	I35_ML_SB_1	Urban Restricted Access	0.723894	60	101338	73357.97017	0.00022605	5.04959E-05	2.0951E-06	0.000627538	2.90095E-05	0.001103702	1.21168E-05	0.00021	0.000173389	16.58254633	3.704278242	0.153692177	46.03490203	2.128077642	80.96534869	0.888865457	15.40517361	12.71945251
2040	I35_ML_SB_2	Urban Restricted Access	0.452029	60	128751	58199.18578	0.00022605	5.04959E-05	2.0951E-06	0.000627538	2.90095E-05	0.001103702	1.21168E-05	0.00021	0.000173389	13.15590784	2.938821468	0.12193303	36.52219124	1.688328967	64.23456591	0.705189167	12.22182892	10.09108865

NO BUILD 2045							RATES (Grams/Mile)									MSAT TOTALS (Grams/Day)									
Year	Link Name	Classification	Length	Speed	ADT	Daily VMT	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene
2040	I35_ML_SB_3	Urban Restricted Access	0.690569	70	114075	78776.65868	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	22.91626032	3.759879744	0.141350102	45.01134767	2.086762437	88.87339417	1.093026508	14.96756563	14.03779029
2040	I35_ML_SB_4	Urban Restricted Access	0.653877	70	103075	67398.37178	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	19.60629784	3.216812912	0.120933877	38.5100307	1.78535613	76.03676218	0.935152724	12.80569105	12.01020994
2040	I35_ML_SB_5	Urban Restricted Access	0.445161	70	121188	53948.17127	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	15.69361226	2.574857068	0.096799987	30.82486531	1.429065655	60.86266123	0.748531129	10.25015287	9.613420112
2040	I35_ML_SB_6	Urban Restricted Access	0.684822	70	103263	70716.77419	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	20.57162659	3.375194776	0.126888135	40.40609696	1.873259294	79.78048133	0.981195573	13.43618753	12.60154039
2040	I35_ML_SB_7	Urban Restricted Access	0.444122	70	125701	55826.57952	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	16.24004433	2.66451039	0.100170442	31.89814879	1.478823944	62.98182343	0.774594052	10.60705045	9.948147449
2040	I35_ML_SB_8	Urban Restricted Access	1.448118	70	102850	148938.9363	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	43.32658294	7.108609316	0.267243296	85.1006168	3.945333337	168.0283096	2.066528438	28.29839881	26.54052088
2040	I35_ML_SB_9	Urban Restricted Access	0.237195	70	125700	29815.4115	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	8.673352526	1.423040322	0.053498226	17.03590728	0.789798422	33.63682673	0.413688974	5.664928367	5.313026741
2040	I35_ML_SB_10	Urban Restricted Access	1.182842	70	108775	128663.6386	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	37.42846529	6.140902858	0.230863035	73.5157325	3.408248743	145.1543446	1.785208587	24.44609211	22.92751694
2040	I35_ML_SB_11	Urban Restricted Access	0.778154	70	121388	94458.55775	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	27.4781507	4.508350874	0.169488362	53.9716593	2.502169722	106.5652285	1.310612931	17.94712655	16.83226285
2040	I35_ML_SB_12	Urban Restricted Access	0.780084	70	103263	80553.81409	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	23.43323777	3.844700436	0.144538878	46.02677738	2.133838579	90.87832604	1.117684547	15.30522517	14.35447464
2040	I35_ML_SB_13	Urban Restricted Access	0.704131	70	124888	87937.51233	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	25.5811678	4.197112151	0.157787555	50.2456693	2.329429816	99.20838642	1.220133395	16.70812788	15.67022996
2040	I35_ML_SB_14	Urban Restricted Access	0.545935	70	106888	58353.90028	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	16.97524612	2.785135234	0.104705251	33.34220742	1.545771669	65.83306868	0.809660639	11.08724141	10.39850926
2040	I35_ML_SB_15	Urban Restricted Access	0.41692	70	83925	34990.011	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	10.17865208	1.670015406	0.062783085	19.99256603	0.92687151	39.47465013	0.485486566	6.648102304	6.235126559
2040	I35_ML_SB_16	Urban Restricted Access	0.347311	70	101450	35234.70095	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	10.24983279	1.681694053	0.063222135	20.13237679	0.93335325	39.75070178	0.48888164	6.694593396	6.278729655
2040	I35_ML_SB_17	Urban Restricted Access	0.420711	70	141538	59546.59352	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	17.32220256	2.842060511	0.106845317	34.02368758	1.577365639	67.17862836	0.826209264	11.31385313	10.61104401
2040	I35_ML_SB_18	Urban Restricted Access	0.324041	70	112475	36446.51148	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	10.60235048	1.739531767	0.065396505	20.82478017	0.96545363	41.117829	0.505695517	6.924837403	6.494671056
2040	I35_ML_SB_19	Urban Restricted Access	0.248428	70	125713	31230.62916	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	9.085041686	1.490586323	0.056037571	17.84453328	0.827286977	35.23343161	0.433325126	5.933819732	5.565214751
2040	I35_Frntg_SB_1	Urban Unrestricted Access	0.467351	55	37288	17426.58409	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	3.822378274	0.496555124	0.017423881	5.794777093	0.269170405	7.741528287	0.186078099	1.916924265	3.077859283
2040	I35_Frntg_SB_2	Urban Unrestricted Access	0.847757	55	9875	8371.600375	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.836241872	0.23854136	0.008370302	2.783767481	0.129307445	3.718972162	0.089390524	0.920876048	1.478580529
2040	I35_Frntg_SB_3	Urban Unrestricted Access	0.423975	55	24550	10408.58625	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.283038015	0.296583474	0.010406972	3.461116468	0.160770657	4.623876055	0.111141113	1.144944496	1.838350169
2040	I35_Frntg_SB_4	Urban Unrestricted Access	0.303461	55	27101	8224.096561	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.80388812	0.234338369	0.008222821	2.734718756	0.127029106	3.653445554	0.087815504	0.904650629	1.452528609
2040	I35_Frntg_SB_5	Urban Unrestricted Access	0.321003	55	38100	12230.2143	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.682597185	0.348489156	0.012228317	4.066853568	0.18890746	5.433110096	0.130592147	1.345323584	2.160083607
2040	I35_Frntg_SB_6	Urban Unrestricted Access	0.47531	55	19988	9500.49628	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.083855929	0.270708252	0.009499023	3.159153736	0.146744331	4.220469159	0.101444683	1.045054599	1.677964569
2040	I35_Frntg_SB_7	Urban Unrestricted Access	0.348818	55	30338	10582.44048	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.321171515	0.301537296	0.010580799	3.51892737	0.163456003	4.701108487	0.112997499	1.164068462	1.869056065
2040	I35_Frntg_SB_8	Urban Unrestricted Access	0.232475	55	48263	11219.94093	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.461002008	0.319702309	0.011218201	3.730912285	0.173302813	4.984309582	0.11980462	1.234193511	1.981650515
2040	I35_Frntg_SB_9	Urban Unrestricted Access	0.518056	55	25825	13378.7962	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.934529204	0.381216983	0.013376721	4.44878591	0.206648415	5.943352335	0.142856509	1.471667593	2.36294456
2040	I35_Frntg_SB_10	Urban Unrestricted Access	0.378013	55	35413	13386.57437	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.936235281	0.381438615	0.013384498	4.451372347	0.206768557	5.946807683	0.142939563	1.472523192	2.36431833
2040	I35_Frntg_SB_11	Urban Unrestricted Access	0.559059	55	58263	32572.45452	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	7.144500715	0.928123327	0.032567403	10.83115959	0.503112987	14.46987985	0.347803126	3.582970025	5.75290206
2040	I35_Frntg_SB_12	Urban Unrestricted Access	0.216956	55	40813	8854.625228	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.942189411	0.252304727	0.008853252	2.944385382	0.13676823	3.933549531	0.094548181	0.974008783	1.563891714
2040	I35_Frntg_SB_13	Urban Unrestricted Access	0.178191	55	37725	6722.255475	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.474471597	0.191544733	0.006721213	2.235318858	0.103831722	2.986272619	0.0717791	0.739448108	1.187275504
2040	I35_Frntg_SB_14	Urban Unrestricted Access	0.052667	55	55175	2905.901725	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.637385707	0.082801104	0.002905451	0.966285341	0.044884456	1.290908206	0.031028724	0.319649192	0.513236361
2040	I35_Frntg_SB_15	Urban Unrestricted Access	0.384547	55	32325	12430.48178	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.726524213	0.354195601	0.012428554	4.133447535	0.192000784	5.52207626	0.132730569	1.367353006	2.195454573
2040	I35_Frntg_SB_16	Urban Unrestricted Access	0.269933	55	15063	4066.000779	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.891843918	0.115857102	0.00406537	1.352047427	0.062803305	1.806266787	0.043416064	0.447260089	0.718131458
2040	I35_Frntg_SB_17	Urban Unrestricted Access	0.818137	55	31988	26170.56636	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	5.74029906	0.745707178	0.026166507	8.702370911	0.404229647	11.62592615	0.279444854	2.878762322	4.622209389
2040	I35_Frntg_SB_18	Urban Unrestricted Access	0.500047	55	19375	9688.410625	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.125073399	0.276062705	0.009686908	3.221639977	0.14964685	4.303947608	0.1034512	1.065725177	1.711153742
2040	I35_Frntg_SB_19	Urban Unrestricted Access	0.667897	55	21225	14176.11383	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	3.109414284	0.403935845	0.014173915	4.713914055	0.218963755	6.297550089	0.151370131	1.559372533	2.503765701
2040	I35_Frntg_SB_20	Urban Unrestricted Access	0.408956	55	39350	16092.4186	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	3.529740018	0.458539257	0.016089923	5.351133545	0.248562932	7.148843007	0.171832107	1.77016606	2.842220812
2040	I35_Frntg_SB_21	Urban Unrestricted Access	0.399416	55	17725	7079.6486	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.552862848	0.201728335	0.007078551	2.354161052	0.109352003	3.145039763	0.075595283	0.778761352	1.250397786
2040	I35_Frntg_SB_22	Urban Unrestricted Access	0.739309	55	33725	24933.19603	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	5.468892027	0.710449403	0.024929329	8.290914184	0.385117269	11.07624084	0.266232424	2.742651584	4.403666745
2040	I35_Frntg_SB_23	Urban Unrestricted Access	0.522031	55	51725	27002.05348	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	5.922678939	0.769399669	0.026997866	8.978861271	0.417072768	11.99530325	0.288323332	2.970225905	4.769065499
2040	I35_Frntg_SB_24	Urban Unrestricted Access	0.230482	55	34200	7882.4844	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.728958295	0.224604432	0.007881262	2.621124129	0.121752577	3.501688893	0.084167827	0.867073291	1.392193539
2040	I35_Frntg_SB_25	Urban Unrestricted Access	0.204542	55	25113	5136.663246	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.126684948	0.146364683	0.005135867	1.7080696	0.07934072	2.281894353	0.054848416	0.565032961	0.907230389
2040	I35_Frntg_SB_26	Urban Unrestricted Access	0.304794	55	6163	1878.445422	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.412021595	0.053524643	0.001878154	0.624630303	0.029014402	0.834474404	0.020057721	0.206628998	0.331768444
2040	I35_Frntg_SB_27	Urban Unrestricted Access	0.243992	55	13125	3202.395	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.702419075	0.091249418	0.003201898	1.064876805	0.049464081	1.422621401	0.034194629	0.352263453	0.565602595
2040	I35_Frntg_SB_28	Urban Unrestricted Access	0.088502	55	32075	2838.70165	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.622645922	0.080886297	0.002838261	0.943939628	0.043846486	1.261055466	0.030311173	0.312257184	0.501367576
2040	I35_Frntg_SB_29	Urban Unrestricted Access	0.326022	55	16888	5505.859536	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.207665126	0.156884605	0.005505006	1.830836643	0.085043313	2.445904896	0.058790631	0.605644554	0.972437329
2040	I35_Frntg_SB_30	Urban Unrestricted Access	0.125117	55	33276	4163.393292	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.913206167	0.118632215	0.004162748	1.384432885	0.064307626	1.849532116	0.044456005	0.457973266	0.73533279
2040	I35_Rmp_SB_1	Urban Restricted Access	0.266045	55	27413	7293.091585	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.677690555	0.39510152	0.016614947	4.936291605	0.228102122	8.613023724	0.090752603	1.604480161	1.342035912
2040	I35_Rmp_SB_2	Urban Restricted Access	0.132241	55	14675	1940.636675	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.446420806	0.105133535	0.004421112	1.313509972	0.060696255	2.291860664	0.024148583	0.426940072	0.357105636
2040	I35_Rmp_SB_3	Urban Restricted Access	0.211717	55	11000	2328.887	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.535733259	0.126166905	0.005305615	1.576295212	0.072839352	2.750378046	0.02897983	0.512355144	0.428549395
2040	I35_Rmp_SB_4	Urban Restricted Access	0.157887	55	18113	2859.807231	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.657865259	0.154929384	0.006515144	1.935645845	0.08944466	3.377386289	0.035586411	0.629157596	0.526246512
2040	I35_Rmp_SB_5	Urban Restricted Access	0.208591	55	17925	3738.993675	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.860111833	0.202559102	0.008518086	2.530718677	0.116942504	4.415691322	0.04652669	0.822578615	0.688029724
2040	I35_Rmp_SB_6	Urban Restricted Access	0.234417	55	22438	5259.848646	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.20996676	0.284951062	0.011982861	3.560101558	0.164509471	6.211796553	0.065451661	1.157166711	0.967889364
2040	I35_Rmp_SB_7	Urban Restricted Access	0.218817	55	22850	4999.96845	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.150184356	0.270872114	0.011390808	3.384202981	0.156381337	5.904882227	0.062217805	1.099993068	0.920067593
2040	I35_Rmp_SB_8	Urban Restricted Access	0.391546	55	17450	6832.4777	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.57173171	0.370147871	0.015565587	4.624527461	0.213695748	8.069046142	0.08502089	1.503145106	1.257276196
2040	I35_Rmp_SB_9	Urban Restricted Access	0.233403	55	22850	5333.25855	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.226853851	0.288928027	0.012150102	3.609788674	0.166805473	6.298492468	0.066365147	1.17331689	0.981397864
2040	I35_Rmp_SB_10	Urban Restricted Access	0.182693	55	16925	3092.079025	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.711296672	0.167512653	0.0070443	2.092857817	0.096709301	3.651695538	0.038476717	0.680257391	0.568987931
2040	I35_Rmp_SB_11	Urban Restricted Access	0.17554	55	12613	2214.08602	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.509324634	0.119947589	0.005044078	1.498592758	0.069248784	2.614799937	0.027551288	0.487098928	0.40742433
2040	I35_Rmp_SB_12	Urban Restricted Access	0.221455	55	18125	4013.871875	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.923344353	0.217450564	0.009144307	2.716768576	0.125539723	4.74031805	0.049947175	0.883051819	0.738611347
2040	I35_Rmp_SB_13	Urban Restricted Access	0.151205	55	21625	3269.808125	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.752181176	0.177141086	0.007449199	2.213152846	0.102268039	3.861590743	0.040688314	0.719357793	0.601692695
2040	I35_Rmp_SB_14	Urban Restricted Access	0.283444	55	18000	5101.992	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.173653682	0.276399216	0.011623236	3.453257097	0.159572273	6.025370396	0.06348735	1.122438249	0.938841424
2040	I35_Rmp_SB_15	Urban Restricted Access	0.338672	55	22963	7776.925136	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.788990814	0.421313089	0.017717205	5.26377186	0.243234725	9.184423356	0.096773254	1.710923543	1.431068388
2040	I35_Rmp_SB_16	Urban Restricted Access	0.158545	55	17525	2778.501125	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.639161738	0.150524644	0.006329915	1.880614225	0.086901693	3.281365087	0.034574667	0.611270252	0.511284995
2040	I35_Rmp_SB_17	Urban Restricted Access	0.507646	55	16113	8179.699998	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.881644467	0.443133322	0.018634797	5.536387958	0.255832099	9.660093983	0.101785239	1.799534014	1.505184875
2040	I35_Rmp_SB_18	Urban Restricted Access	0.203947	55	6850	1397.03695	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.321372037	0.075684148	0.003182696	0.945577289	0.043694377	1.649878142	0.017384224	0.307348131	0.257075307
2040	I35_Rmp_SB_19	Urban Restricted Access	0.334087	55	40088	13392.87966	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	3.080875572	0.725556103	0.030511338	9.064901851	0.418881929	15.81677521	0.166656168	2.946433547	2.46448646
2040	I35_Rmp_SB_20	Urban Restricted Access	0.547285	55	18950	10371.05075	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	2.385739119	0.561849233	0.023627079	7.019592467	0.324369804	12.24804393	0.129053618	2.281631183	1.908425582
2040	I35_Rmp_SB_21	Urban Restricted Access	0.166434	55	13238	2203.253292	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.506832692	0.119360729	0.005019399	1.491260682	0.068909974	2.60200666	0.02741649	0.484715728	0.405430949
2040	I35_Rmp_SB_22	Urban Restricted Access	0.190049	55	29063	5523.394087	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.270592311	0.299228575	0.012583264	3.738480937	0.172752241	6.523039475	0.068731125	1.215146709	1.016385594
2040	I35_Rmp_SB_23	Urban Restricted Access	0.297837	55	16388	4880.952756	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.122806185	0.264424467	0.01111967	3.303647819	0.152658947	5.764326608	0.060736817	1.073809615	0.898166958
2040	I35_Rmp_SB_24	Urban Restricted Access	0.419528	55	12675	5317.5174	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.223232783	0.288075254	0.012114241	3.599134358	0.166313146	6.279902423	0.06616927	1.169853837	0.978501261

NO BUILD 2045							RATES (Grams/Mile)									MSAT TOTALS (Grams/Day)								
Year	Link Name	Classification	Length	Speed	ADT	Daily VMT	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene
Daily Total						3,510,643.63										940.0274994	155.7819379	5.90725747	1870.7137	86.70586485	3472.194823	45.64881427	620.8257722	624.5954934
Tons/Day																0.001036203	0.00017172	6.51164E-06	0.002062109	9.55769E-05	0.00382744	5.03192E-05	0.000684343	0.000688499
Yearly Total						1,281,384,926.56										0.378214075	0.06267787	0.002376747	0.752669738	0.034885552	1.397015464	0.01836651	0.249785294	0.251302017

BUILD 2045							RATES (Grams/Mile)									MSAT TOTALS (Grams/Day)								
Year	Link Name	Classification	Length	Speed	ADT	Daily VMT	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene
2040	I35_ML_NB_1	Urban Restricted Access	0.026179	70	126450	3310.33455	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	0.962981797	0.157996798	0.005939781	1.891456452	0.087689449	3.734617236	0.045930907	0.628963585	0.58989278
2040	I35_ML_NB_2	Urban Restricted Access	0.878294	70	115000	101003.81	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	29.38217541	4.820744948	0.181232603	57.71148058	2.675550857	113.94938	1.401428336	19.19072452	17.99860933
2040	I35_ML_NB_3	Urban Restricted Access	0.158191	70	805000	127343.755	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	37.04450898	6.077906997	0.228494749	72.76157844	3.373285551	143.6652928	1.766895196	24.19531423	22.69231721
2040	I35_ML_NB_4	Urban Restricted Access	0.277262	70	109300	30304.7366	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	8.815698007	1.446395001	0.054376229	17.31549748	0.80276045	34.1888682	0.420478362	5.757900139	5.400223168
2040	I35_ML_NB_5	Urban Restricted Access	0.44649	70	91763	40971.26187	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	11.91860785	1.955490626	0.07351533	23.41012863	1.085312473	46.22251269	0.56847645	7.784540006	7.300969498
2040	I35_ML_NB_6	Urban Restricted Access	0.27186	70	102263	27801.21918	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	8.087420648	1.326906251	0.049884131	15.88503959	0.736443267	31.36447714	0.385742046	5.282231814	4.954103046
2040	I35_ML_NB_7	Urban Restricted Access	1.158295	70	82600	95675.167	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	27.83206435	4.566417623	0.171671341	54.66680457	2.534397218	107.9377695	1.32749339	18.17828231	17.04905937
2040	I35_ML_NB_8	Urban Restricted Access	0.257437	70	110400	28421.0448	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	8.267728946	1.356489504	0.050996293	16.23919509	0.752862202	32.06374527	0.39434213	5.399998686	5.064554317
2040	I35_ML_NB_9	Urban Restricted Access	0.514881	70	104325	53714.96033	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	15.62577081	2.563726295	0.096381533	30.69161341	1.42288799	60.59955984	0.745295326	10.20584279	9.571862545
2040	I35_ML_NB_10	Urban Restricted Access	0.38699	70	117800	45587.422	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	13.26145647	2.175812321	0.081798173	26.04770671	1.207592724	51.43032203	0.632525693	8.661610459	8.123556911
2040	I35_ML_NB_11	Urban Restricted Access	0.684932	70	102938	70505.53022	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	20.51017537	3.36511245	0.126509097	40.28539654	1.867663525	79.5421624	0.978264561	13.39605117	12.56389728
2040	I35_ML_NB_12	Urban Restricted Access	0.051279	70	107413	5508.031227	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	1.602295395	0.262889229	0.00988314	3.147174717	0.145905562	6.213990775	0.076423959	1.046525967	0.981516462
2040	I35_ML_NB_13	Urban Restricted Access	1.065304	70	85363	90937.54535	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	26.45388237	4.34029877	0.163170558	51.9598259	2.4088995	102.5929311	1.261758867	17.27813417	16.20482784
2040	I35_ML_NB_14	Urban Restricted Access	1.537971	70	111876	172062.0436	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	50.05313311	8.212237017	0.308733423	98.31268036	4.557855276	194.1150853	2.38736166	32.69178934	30.66099687
2040	I35_ML_NB_15	Urban Restricted Access	0.508793	70	89075	45320.73648	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	13.18387721	2.163083862	0.081319655	25.89532814	1.20052833	51.12945566	0.628825431	8.610940207	8.076034262
2040	I35_ML_NB_16	Urban Restricted Access	0.2537	70	99100	25141.67	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	7.313753392	1.199970364	0.045112064	14.36542839	0.665992864	28.36405587	0.348840789	4.776917454	4.480178482
2040	I35_ML_NB_17	Urban Restricted Access	0.538328	70	94625	50939.287	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	14.81832285	2.431247994	0.091401102	29.10565129	1.349361504	57.46813089	0.706782845	9.678464841	9.077244968
2040	I35_ML_NB_18	Urban Restricted Access	0.132459	70	79488	10528.90099	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	3.062874715	0.502527046	0.01889216	6.015995487	0.27890641	11.87838103	0.146088551	2.000491253	1.876222051
2040	I35_ML_NB_19	Urban Restricted Access	0.537564	70	82788	44503.84843	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	12.94624313	2.124095145	0.079853901	25.42857526	1.17888929	50.20786779	0.617491105	8.455731474	7.930466993
2040	I35_ML_NB_20	Urban Restricted Access	0.335156	70	115418	38683.03521	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	11.25295893	1.846277349	0.069409532	22.10268341	1.024698257	43.64100602	0.536727294	7.349776926	6.893213615
2040	I35_ML_NB_21	Urban Restricted Access	0.384791	70	93175	35852.90143	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	10.42966833	1.71119974	0.064331382	20.48560371	0.949729135	40.44813646	0.497459175	6.81205149	6.388891329
2040	I35_ML_NB_22	Urban Restricted Access	0.640779	60	82900	53120.5791	0.00022605	5.04959E-05	2.0951E-06	0.000627538	2.90095E-05	0.001103702	1.21168E-05	0.00021	0.000173389	12.00789038	2.682372548	0.111292849	33.33517338	1.541001154	58.62929685	0.643652594	11.15532152	9.210514983
2040	I35_ML_NB_23	Urban Restricted Access	0.474094	60	99150	47006.4201	0.00022605	5.04959E-05	2.0951E-06	0.000627538	2.90095E-05	0.001103702	1.21168E-05	0.00021	0.000173389	10.62578664	2.37363246	0.098483083	29.49830726	1.363632491	51.88108647	0.569568419	9.871348143	8.150388117
2040	I35_Frntg_NB_1	Urban Unrestricted Access	0.189428	55	46188	8749.300464	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.919087288	0.24930359	0.008747944	2.909362251	0.135141387	3.886760405	0.093423541	0.962423059	1.545289399
2040	I35_Frntg_NB_2	Urban Unrestricted Access	0.094916	55	57638	5470.768408	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.199968175	0.155884715	0.00546992	1.819167962	0.084501296	2.430316129	0.058415934	0.60178453	0.966239582
2040	I35_Frntg_NB_3	Urban Unrestricted Access	0.746531	55	12125	9051.688375	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.985413596	0.257919867	0.009050285	3.00991383	0.13981206	4.021092214	0.096652388	0.995685729	1.598696735
2040	I35_Frntg_NB_4	Urban Unrestricted Access	0.208169	55	9288	1933.473672	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.42409159	0.055092625	0.001933174	0.642928579	0.029864366	0.858919972	0.020645303	0.212682106	0.341487457
2040	I35_Frntg_NB_5	Urban Unrestricted Access	0.281164	55	27163	7637.257732	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.675169837	0.217616915	0.007636073	2.5395801	0.117964814	3.392750207	0.081549338	0.840098357	1.348881943
2040	I35_Frntg_NB_6	Urban Unrestricted Access	0.552958	55	46650	25795.4907	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	5.658029291	0.735019728	0.02579149	8.57764883	0.398436242	11.45930378	0.27543986	2.837503999	4.555964043
2040	I35_Frntg_NB_7	Urban Unrestricted Access	0.660245	55	64188	42386.22486	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	9.297070739	1.207758047	0.042379651	14.09448482	0.654696138	18.82951685	0.452592896	4.662484771	7.486196663
2040	I35_Frntg_NB_8	Urban Unrestricted Access	0.371172	55	36025	13371.4713	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.932922547	0.381008267	0.013369397	4.446350197	0.206535275	5.940098345	0.142778295	1.470861854	2.361650847
2040	I35_Frntg_NB_9	Urban Unrestricted Access	0.737228	55	15513	11436.61796	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.508528339	0.325876329	0.011434844	3.802962845	0.176649599	5.080565475	0.12211826	1.258027986	2.019919715
2040	I35_Frntg_NB_10	Urban Unrestricted Access	0.388328	55	35538	13800.40046	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	3.027004641	0.393230224	0.01379826	4.588979922	0.2131605	6.130644423	0.147358328	1.518044063	2.437407725
2040	I35_Frntg_NB_11	Urban Unrestricted Access	0.383825	55	22063	8468.330975	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.857458936	0.241297613	0.008467018	2.815932836	0.130801542	3.761943445	0.090423397	0.931516415	1.495664955
2040	I35_Frntg_NB_12	Urban Unrestricted Access	0.642023	55	18288	11741.31662	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.57536149	0.334558449	0.011739496	3.904282806	0.181355964	5.215923804	0.125371781	1.291544839	2.073735173
2040	I35_Frntg_NB_13	Urban Unrestricted Access	0.285812	55	33151	9474.953612	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.078253354	0.269980436	0.009473484	3.150660157	0.1463498	4.209122168	0.101171942	1.042244905	1.673453259
2040	I35_Frntg_NB_14	Urban Unrestricted Access	0.278512	55	12625	3516.214	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.771252698	0.100191413	0.003515669	1.169229508	0.054311318	1.56203132	0.037545535	0.386783543	0.621028874
2040	I35_Frntg_NB_15	Urban Unrestricted Access	0.22861	55	13113	2997.76293	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.657534709	0.085418607	0.002997298	0.9968315	0.046303341	1.331716325	0.032009602	0.329753925	0.52946076
2040	I35_Frntg_NB_16	Urban Unrestricted Access	0.205734	55	29175	6002.28945	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.316552956	0.171029937	0.006001359	1.995912064	0.092711152	2.666437285	0.064091425	0.660251845	1.060116097
2040	I35_Frntg_NB_17	Urban Unrestricted Access	0.176237	55	17700	3119.3949	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.684213684	0.088884403	0.003118911	1.037277186	0.048182064	1.385749711	0.033308368	0.343133442	0.550943231
2040	I35_Frntg_NB_18	Urban Unrestricted Access	0.243496	55	23375	5691.719	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.248431875	0.162180507	0.005690836	1.892639585	0.087914091	2.528470492	0.060775207	0.626089095	1.005263571
2040	I35_Frntg_NB_19	Urban Unrestricted Access	0.547777	55	34850	19090.02845	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	4.18724115	0.543953503	0.019087068	6.347914142	0.294863908	8.480491328	0.203840075	2.099903146	3.371654535
2040	I35_Frntg_NB_20	Urban Unrestricted Access	0.3633	55	24825	9018.9225	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.97822667	0.256986232	0.009017524	2.999018353	0.13930596	4.00653641	0.09630252	0.992081483	1.592909672
2040	I35_Frntg_NB_21	Urban Unrestricted Access	0.330038	55	23038	7603.415444	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.667746809	0.216652609	0.007602236	2.528326689	0.117442087	3.37771622	0.081187976	0.836375705	1.342904765
2040	I35_Frntg_NB_22	Urban Unrestricted Access	0.590145	55	45838	27051.06651	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	5.933429546	0.770796252	0.027046871	8.995159336	0.417829822	12.01707664	0.288846685	2.975617339	4.777722114
2040	I35_Frntg_NB_23	Urban Unrestricted Access	0.23724	55	24088	5714.63712	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.253458777	0.162833538	0.005713751	1.900260436	0.088268084	2.538651562	0.061019923	0.628610088	1.009311338
2040	I35_Frntg_NB_24	Urban Unrestricted Access	0.204875	55	15113	3096.275875	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.679142715	0.088225647	0.003095796	1.02958953	0.047824968	1.375479391	0.033061507	0.340590349	0.546859981
2040	I35_Frntg_NB_25	Urban Unrestricted Access	0.273268	55	52001	14210.20927	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	3.11689284	0.404907364	0.014208005	4.725251647	0.219490392	6.312696536	0.151734196	1.563123032	2.509787591
2040	I35_Frntg_NB_26	Urban Unrestricted Access	0.133374	55	19375	2584.12125	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.566805799	0.073632253	0.00258372	0.859285248	0.039914246	1.147961508	0.027592807	0.28425334	0.456403936
2040	I35_Frntg_NB_27	Urban Unrestricted Access	0.456587	55	27175	12407.75173	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.721538563	0.353547928	0.012405827	4.125889223	0.191649697	5.511978737	0.132487861	1.3648527	2.191440022
2040	I35_Frntg_NB_28	Urban Unrestricted Access	0.599976	55	49413	29646.61409	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	6.502741616	0.844754088	0.029642016	9.858244125	0.457920558	13.17011414	0.3165615	3.261127575	5.236144153
2040	I35_Frntg_NB_29	Urban Unrestricted Access	0.455977	55	36363	16580.69165	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	3.636838706	0.472452166	0.01657812	5.513496603	0.25610478	7.365751818	0.177045804	1.823876096	2.928458925
2040	I35_Frntg_NB_30	Urban Unrestricted Access	0.680846	55	27350	18621.1381	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	4.084393898	0.530592886	0.01861825	6.191996318	0.287621444	8.272193024	0.198833344	2.048325207	3.288839767
2040	135_Rmp_NB_1	Urban Restricted Access	0.174421	55	11450	1997.12045	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.459414238	0.10819353	0.004549792	1.351740726	0.062462868	2.358567092	0.024851447	0.439366502	0.36749948
2040	135_Rmp_NB_2	Urban Restricted Access	0.117153	55	28800	3374.0064	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.776150773	0.182786003	0.007686581	2.283678913	0.105526992	3.984647228	0.04198492	0.742281414	0.620866707
2040	135_Rmp_NB_3	Urban Restricted Access	0.096639	55	17875	1727.422125	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.397373288	0.093582687	0.003935372	1.169196799	0.054027657	2.040057713	0.021495418	0.38003287	0.317871029
2040	135_Rmp_NB_4	Urban Restricted Access	0.190186	55	17538	3335.482068	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.7672887	0.180698956	0.007598815	2.257603917	0.104322088	3.939150612	0.041505537	0.733806061	0.613777664
2040	135_Rmp_NB_5	Urban Restricted Access	0.159553	55	19663	3137.290639	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.721697076	0.169961982	0.0071473	2.123459066	0.09812336	3.705089726	0.039039314	0.690203946	0.577307532
2040	135_Rmp_NB_6	Urban Restricted Access	0.134527	55	28163	3788.683901	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.87154249	0.205251059	0.008631289	2.564351251	0.118496639	4.474374679	0.047145017	0.833510465	0.697173455
2040	135_Rmp_NB_7	Urban Restricted Access	0.258013	55	27800	7172.7614	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.650010001	0.388582661	0.016340813	4.854846736	0.22433862	8.470915713	0.089255258	1.57800752	1.319893392
2040	135_Rmp_NB_8	Urban Restricted Access	0.112669	55	20025	2256.196725	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.51901171	0.122228927	0.005140013	1.527095172	0.070565858	2.664532001	0.028075299	0.496363283	0.415173318
2040	135_Rmp_NB_9	Urban Restricted Access	0.14104	55	13475	1900.514	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.437191053	0.102959899	0.004329705	1.286353146	0.059441359	2.244476431	0.023649311	0.418113083	0.349722475
2040	135_Rmp_NB_10	Urban Restricted Access	0.242849	55	14863	3609.464687	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.830315202	0.1955419	0.008222996	2.443047646	0.112891295	4.262719673	0.044914878	0.794082237	0.664194488
2040	135_Rmp_NB_11	Urban Restricted Access	0.2714736	55	22050	5985.993762	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.377007964	0.324289803	0.013637148	4.051589152	0.187220723	7.069362242	0.074487549	1.316918638	1.101510725
2040	135_Rmp_NB_12	Urban Restricted Access	0.127823	55	20525	2623.567075	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.603520969	0.142131129	0.005976948	1.775747908	0.082055903	3.098390469	0.032646723	0.577184761	0.482774855
2040	135_Rmp_NB_13	Urban Restricted Access	0.258522	55	26513	6854.193786	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.576727242	0.371324335	0.01561506	4.639225882	0.214374951	8.09469249	0.085291117	1.507922645	1.261272274
2040	135_Rmp_NB_14	Urban Restricted Access	0.1216543	55	16062	1954.011367	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.449497497	0.105858106	0.004451582	1.322562564	0.061114568	2.307655959	0.024315013	0.429882504	0.359566776
2040	135_Rmp_NB_15	Urban Restricted Access	0.192369	55	22800	4386.0132	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.00895112	0.237611233	0.00999211	2.968650521	0.137178988	5.179810963	0.054577968	0.964922912	0.807090814
2040	135_Rmp_NB_16	Urban Restricted Access	0.191697	55	15138	2901.909186	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.667550322	0.157210247	0.00661106	1.964142337	0.090761461	3.42710802	0.036110312	0.638420026	0.533993889
2040	135_Rmp_NB_17	Urban Restricted Access	0.350825	55	32625	11445.66563	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	2.632941722	0.620066241	0.026075241	7.746940029	0.357979958	13.5171468	0.142425738	2.518046457	2.106170494
2040	135_Rmp_NB_18	Urban Restricted Access	0.358208	55	22238	7965.829504	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.832446058	0.431546938	0.018147562	5.391630812	0.249142986	9.407516373	0.099123911	1.752482505	1.465829565

BUILD 2045							RATES (Grams/Mile)									MSAT TOTALS (Grams/Day)								
Year	Link Name	Classification	Length	Speed	ADT	Daily VMT	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene
2040	135_Rmp_NB_19	Urban Restricted Access	0.213158	55	16250	3463.8175	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.796810768	0.187651498	0.007891186	2.344467095	0.108335966	4.090712691	0.043102497	0.762039856	0.637393268
2040	135_CD_NB_1	Urban Restricted Access	0.653384	55	46675	30496.6982	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	7.0154093	1.652151447	0.069476848	20.64153364	0.953828909	36.0161095	0.379489921	6.709273656	5.611840151
2040	135_CD_NB_2	Urban Restricted Access	0.783504	55	47826	37471.8623	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	8.619964351	2.03002932	0.085367499	25.36263766	1.171987383	44.25366598	0.46628635	8.243809771	6.89537274
2040	135_CD_NB_3	Urban Restricted Access	0.540694	55	42575	23020.04705	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	5.295493011	1.247105631	0.05244372	15.58100069	0.719985692	27.18630488	0.286453169	5.064410391	4.236026585
2040	135_CD_NB_4	Urban Restricted Access	0.421276	55	11475	4834.1421	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.11203794	0.26188851	0.011013027	3.271964267	0.151194875	5.709043977	0.060154322	1.06351127	0.88955311
2040	135_CD_NB_5	Urban Restricted Access	1.347679	55	10025	13510.48198	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	3.107928612	0.731927181	0.030779257	9.144500377	0.422560114	15.95566166	0.168119569	2.972306058	2.486127013
2040	135_CD_NB_6	Urban Restricted Access	0.437085	55	21750	9506.59875	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	2.186882031	0.51501775	0.021657706	6.434492567	0.297332801	11.22714004	0.118296689	2.091451741	1.749353724
2040	135_HOV_NB_1	Urban Restricted Access	1.255786	70	7375	9261.42175	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	2.694162907	0.442032356	0.016617904	5.291784156	0.245331388	10.44845008	0.12850227	1.759670189	1.650360634
2040	135_HOV_NB_2	Urban Restricted Access	0.923482	70	10675	9858.17035	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	2.867758062	0.470514181	0.017688658	5.63275392	0.261139022	11.12168343	0.13678216	1.873052427	1.756699641
2040	135_HOV_NB_3	Urban Restricted Access	3.170223	70	6200	19655.3826	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	5.717783312	0.938118932	0.035267938	11.23067765	0.520663288	22.17459581	0.272718525	3.734522814	3.502536712
2040	135_HOV_NB_4	Urban Restricted Access	1.581108	70	10675	16878.3279	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	4.909933506	0.8055747	0.030285029	9.643926233	0.44710021	19.04160844	0.234186879	3.206882404	3.007672977
2040	135_HOV_NB_5	Urban Restricted Access	3.477169	70	4600	15994.9774	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	4.652965385	0.76341384	0.02870002	9.139198092	0.423700606	18.04503967	0.221930386	3.039045804	2.850262276
2040	135_DC_NB_1	Urban Restricted Access	0.623018	55	10500	6541.689	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.504839165	0.354394462	0.014903119	4.427708622	0.204600906	7.72562937	0.08140242	1.439171591	1.203766806
2040	135_DC_NB_2	Urban Restricted Access	0.688942	55	34500	23768.499	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	5.467665642	1.287652839	0.054148825	16.08758655	0.743394623	28.07021458	0.295766635	5.229069821	4.37375273
2040	I35_ML_SB_1	Urban Restricted Access	0.312219	60	101201	31596.87502	0.00022605	5.04959E-05	2.0951E-06	0.000627538	2.90095E-05	0.001103702	1.21168E-05	0.00021	0.000173389	7.142463768	1.595513294	0.066198567	19.82823465	0.916609376	34.87353858	0.382853706	6.635343701	5.478545146
2040	I35_ML_SB_2	Urban Restricted Access	0.453486	60	86513	39232.43432	0.00022605	5.04959E-05	2.0951E-06	0.000627538	2.90095E-05	0.001103702	1.21168E-05	0.00021	0.000173389	8.868479572	1.981077891	0.082195816	24.61983703	1.138113093	43.30092172	0.475372418	8.238811141	6.802465829
2040	I35_ML_SB_3	Urban Restricted Access	0.738454	70	79363	58605.9248	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	17.04856047	2.797163948	0.105157462	33.486209	1.552447698	66.11739496	0.813157481	11.13512607	10.44341936
2040	I35_ML_SB_4	Urban Restricted Access	0.326035	70	111350	36303.99725	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	10.56089285	1.732729798	0.065140789	20.7433505	0.961678485	40.95704885	0.503718132	6.897759699	6.469275401
2040	I35_ML_SB_5	Urban Restricted Access	0.398489	70	100350	39988.37115	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	11.63268332	1.908578876	0.071751715	22.84852527	1.059276088	45.11364573	0.554838837	7.597790763	7.125820995
2040	I35_ML_SB_6	Urban Restricted Access	0.291606	70	97475	28424.29485	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	8.268674391	1.356644624	0.051002125	16.2410521	0.752948294	32.06741188	0.394387224	5.400616195	5.065133467
2040	I35_ML_SB_7	Urban Restricted Access	0.455737	70	111975	51031.15058	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	14.84504612	2.435632491	0.091565934	29.15814023	1.351794934	57.57176854	0.708057453	9.695918921	9.093614811
2040	I35_ML_SB_8	Urban Restricted Access	0.489568	70	94425	46227.4584	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	13.44764412	2.206360201	0.0829466	26.41341022	1.224547034	52.15239134	0.641406201	8.783217379	8.237609689
2040	I35_ML_SB_9	Urban Restricted Access	0.184675	70	99025	18287.44188	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	5.319847093	0.872829382	0.032813422	10.44906471	0.48442708	20.63132732	0.253738342	3.474614068	3.258773326
2040	I35_ML_SB_10	Urban Restricted Access	0.444119	70	120475	53505.23653	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	15.56476181	2.553716525	0.096005223	30.57178159	1.417332489	60.36295593	0.742385407	10.16599527	9.534490323
2040	I35_ML_SB_11	Urban Restricted Access	1.489126	70	93575	139344.9655	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	40.53568095	6.650704941	0.250028695	79.61882099	3.691192855	157.2046879	1.933412047	26.47554429	24.83090088
2040	I35_ML_SB_12	Urban Restricted Access	0.710131	70	116238	82544.20718	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	24.01224641	3.939698609	0.148110269	47.16404668	2.186563302	93.12382607	1.145301261	15.68339987	14.70915738
2040	I35_ML_SB_13	Urban Restricted Access	0.303333	70	127863	37139.48585	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	10.80393787	1.772606289	0.066639919	21.22073134	0.983810247	41.8996213	0.51531054	7.056502539	6.61815724
2040	I35_ML_SB_14	Urban Restricted Access	0.280294	70	122438	30709.85152	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	8.933546608	1.465730467	0.055103132	17.54697174	0.813491784	34.64590635	0.426099333	5.834871977	5.472413565
2040	I35_ML_SB_15	Urban Restricted Access	0.775458	70	109563	70906.3286	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	20.62676828	3.384241895	0.127228255	40.51440442	1.878280515	79.99433077	0.983825641	13.47220287	12.63531848
2040	I35_ML_SB_16	Urban Restricted Access	0.626592	70	91438	46015.6633	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	13.38603257	2.196251571	0.082566573	26.2923949	1.218936666	51.91345064	0.638467543	8.742976308	8.199868366
2040	I35_ML_SB_17	Urban Restricted Access	0.226257	70	73438	17916.83932	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	5.212038195	0.855141134	0.032148445	10.2373101	0.474609966	20.21322495	0.248596229	3.40419958	3.192732939
2040	I35_ML_SB_18	Urban Restricted Access	0.719144	70	79188	44497.035	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	12.94426109	2.123769951	0.079841676	25.42468221	1.178708805	50.20018109	0.617396569	8.454436922	7.929252858
2040	I35_ML_SB_19	Urban Restricted Access	0.999681	70	61875	61855.26188	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	17.993798	2.952249437	0.110987794	35.34281276	1.638521348	69.78319673	0.858242048	11.75250013	11.02244255
2040	I35_ML_SB_20	Urban Restricted Access	0.313348	70	96363	30195.15332	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	8.783820051	1.441164772	0.054179602	17.25288387	0.799857633	34.06523973	0.418957894	5.737079316	5.38069572
2040	I35_ML_SB_21	Urban Restricted Access	0.420711	70	136563	57453.55629	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	16.71333457	2.742163303	0.10308975	32.82776955	1.521921914	64.81732839	0.797168362	10.91617605	10.23807037
2040	I35_ML_SB_22	Urban Restricted Access	0.324026	70	108850	35270.2301	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	10.26016828	1.6833898	0.063285886	20.1526774	0.934294403	39.79078467	0.489374608	6.701343935	6.285060854
2040	I35_ML_SB_23	Urban Restricted Access	0.248426	70	121075	30078.17795	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	8.749791721	1.435581731	0.053969711	17.18604657	0.796759001	33.93327173	0.41733486	5.714853994	5.359851021
2040	I35_Frntg_SB_1	Urban Unrestricted Access	0.55144	55	41851	23078.31544	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	5.062039186	0.657596218	0.023074736	7.674119781	0.356466848	10.2522348	0.246426325	2.538614718	4.076060291
2040	I35_Frntg_SB_2	Urban Unrestricted Access	0.772013	55	56539	43648.84301	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	9.574015673	1.243735236	0.043642073	14.51433708	0.674198494	19.39041817	0.466074918	4.801372768	7.709198541
2040	I35_Frntg_SB_3	Urban Unrestricted Access	0.415581	55	24550	10202.51355	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.237837659	0.290711614	0.010200931	3.392592118	0.157587665	4.532330997	0.108940703	1.122276499	1.801953893
2040	I35_Frntg_SB_4	Urban Unrestricted Access	0.303459	55	23863	7241.442117	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.588350929	0.206338498	0.007240319	2.407961462	0.11185106	3.216914382	0.077322887	0.796558639	1.278973534
2040	I35_Frntg_SB_5	Urban Unrestricted Access	0.321003	55	34863	11191.12759	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.454682039	0.318881298	0.011189392	3.721331127	0.172857763	4.97150964	0.119496956	1.231024044	1.976561543
2040	I35_Frntg_SB_6	Urban Unrestricted Access	0.475304	55	20363	9678.615352	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.122924886	0.275783597	0.009677114	3.218382803	0.149495552	4.299596188	0.103346608	1.064647697	1.709423715
2040	I35_Frntg_SB_7	Urban Unrestricted Access	0.348817	55	15088	5262.950896	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.154385108	0.149963138	0.005262135	1.750063417	0.081291354	2.337995962	0.056196894	0.578924603	0.929535139
2040	I35_Frntg_SB_8	Urban Unrestricted Access	0.288366	55	24450	7050.5487	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.546480023	0.200899159	0.007049455	2.344484604	0.108902527	3.13211252	0.075284559	0.775560363	1.245258202
2040	I35_Frntg_SB_9	Urban Unrestricted Access	0.462164	55	29725	13737.8249	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	3.013279204	0.391447189	0.013735694	4.568171975	0.21219396	6.102846061	0.146690156	1.511160751	2.426355715
2040	I35_Frntg_SB_10	Urban Unrestricted Access	0.377996	55	25825	9761.7467	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.141159065	0.278152352	0.009760233	3.246026065	0.150779596	4.336526185	0.10423427	1.073792145	1.724106259
2040	I35_Frntg_SB_11	Urban Unrestricted Access	0.496212	55	35225	17479.0677	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	3.833890124	0.498050599	0.017476357	5.812229213	0.269981065	7.764843433	0.18663851	1.922697462	3.087128866
2040	I35_Frntg_SB_12	Urban Unrestricted Access	0.28012	55	62125	17402.455	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	3.817085756	0.495867587	0.017399756	5.786753565	0.268797708	7.73080926	0.185820453	1.914270065	3.073597636
2040	I35_Frntg_SB_13	Urban Unrestricted Access	0.178194	55	40813	7272.631722	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.595192113	0.207227219	0.007271504	2.41833279	0.112332814	3.230769949	0.077655924	0.799989496	1.284482199
2040	I35_Frntg_SB_14	Urban Unrestricted Access	0.248346	55	37725	9368.85285	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.054981022	0.266957188	0.0093674	3.115378987	0.144710972	4.161988315	0.100039016	1.030573822	1.654713888
2040	I35_Frntg_SB_15	Urban Unrestricted Access	0.188642	55	59038	11137.0464	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.442819773	0.317340302	0.011135319	3.703347771	0.172022427	4.947484789	0.118919486	1.225075113	1.967009797
2040	I35_Frntg_SB_16	Urban Unrestricted Access	0.461437	55	36375	16784.77088	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	3.68160181	0.478267224	0.016782168	5.581358073	0.259256981	7.4564113	0.179224927	1.846324811	2.964503117
2040	I35_Frntg_SB_17	Urban Unrestricted Access	0.625867	55	19113	11962.19597	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.623809563	0.340852211	0.011960341	3.977730739	0.184767658	5.314046517	0.127730293	1.315841567	2.112746579
2040	I35_Frntg_SB_18	Urban Unrestricted Access	0.207865	55	7488	1556.49312	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.341403998	0.044350897	0.001556252	0.517573073	0.024041538	0.691451374	0.016619969	0.171214245	0.274905671
2040	I35_Frntg_SB_19	Urban Unrestricted Access	0.292182	55	20363	5949.702066	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.305018344	0.169531506	0.005948779	1.978425437	0.091898889	2.643076039	0.063529906	0.654467232	1.050828185
2040	I35_Frntg_SB_20	Urban Unrestricted Access	0.556576	55	22213	12363.22269	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.711771484	0.352279113	0.012361305	4.111082199	0.190961903	5.492197304	0.132012388	1.359954506	2.183575365
2040	I35_Frntg_SB_21	Urban Unrestricted Access	0.532626	55	40338	21485.06759	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	4.712573339	0.612198028	0.021481735	7.144324836	0.331857598	9.544455622	0.229413895	2.363357453	3.794663049
2040	I35_Frntg_SB_22	Urban Unrestricted Access	0.38698	55	16463	6370.85174	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.397394071	0.181531794	0.006369864	2.118468286	0.098403952	2.830166182	0.068026871	0.700793697	1.125211061
2040	I35_Frntg_SB_23	Urban Unrestricted Access	0.600231	55	32463	19485.29895	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	4.273940492	0.555216387	0.019482277	6.479351516	0.300969242	8.656084994	0.208060706	2.143382902	3.441466667
2040	I35_Frntg_SB_24	Urban Unrestricted Access	0.139238	55	74338	10350.67444	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.270335535	0.294933328	0.010349069	3.441859338	0.159876153	4.598149505	0.110052274	1.138574198	1.828121866
2040	I35_Frntg_SB_25	Urban Unrestricted Access	0.528458	55	68688	36298.7231	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	7.961827163	1.03430006	0.036293093	12.07023752	0.5606688	16.12522513	0.387591588	3.992859573	6.411030486
2040	I35_Frntg_SB_26	Urban Unrestricted Access	0.223982	55	34200	7660.1844	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.680198614	0.21827019	0.007658996	2.547203793	0.118318939	3.402935074	0.081794145	0.842620291	1.35293122
2040	I35_Frntg_SB_27	Urban Unrestricted Access	0.204516	55	25113	5136.010308	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	1.126541732	0.146346078	0.005135214	1.707852482	0.079330635	2.281604294	0.054841444	0.564961138	0.907115068
2040	I35_Frntg_SB_28	Urban Unrestricted Access	0.548747	55	6163	3381.927761	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.741798113	0.096365045	0.003381403	1.124575959	0.052237137	1.502376444	0.036111649	0.372012057	0.597311424
2040	I35_Frntg_SB_29	Urban Unrestricted Access	0.088502	55	13088	1158.314176	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.254066713	0.03300514	0.001158135	0.385168569	0.01789128	0.514565672	0.012368282	0.12741456	0.204579855
2040	I35_Frntg_SB_30	Urban Unrestricted Access	0.326004	55	32038	10444.51615	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	2.290918944	0.297607264	0.010442896	3.473064064	0.161325629	4.639837436	0.111524766	1.148896786	1.844696059
2040	I35_Frntg_SB_31	Urban Unrestricted Access	0.125116	55	17350	2170.7626	0.000219342	2.84941E-05	9.99845E-07	0.000332525	1.5446E-05	0.000444237	1.06778E-05	0.00011	0.000176619	0.47613897	0.061853963	0.002170426	0.72183311	0.033529523	0.964332424	0.023179034	0.238783888	0.383397101
2040	I35_Rmp_SB_1	Urban Restricted Access	0.235542	55	14688	3459.640896	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.795849989	0.187425231	0.007881671	2.341640182	0.108205337	4.085780189	0.043050524	0.761121003	0.636624711
2040	I35_Rmp_SB_2	Urban Restricted Access	0.189711	55	31988	6068.475468	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.395981918	0.32875823	0.013825056	4.107416472	0.18980046	7.166771809	0.075513922	1.335064613	1.11668857
2040	I35_Rmp_SB_3	Urban Restricted Access	0.211139	55	11000	2322.529	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.534270675	0.125822462	0.00529113	1.571991832	0.072640497	2.74286935	0.028900714	0.510956384	0.42737943

BUILD 2045							RATES (Grams/Mile)									MSAT TOTALS (Grams/Day)								
Year	Link Name	Classification	Length	Speed	ADT	Daily VMT	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene	Benzene	Naphthalene	Butadiene	Formaldehyde	Acrolein	DPM	POM	Acetaldehyde	Ethylbenzene
2040	I35_Rmp_SB_4	Urban Restricted Access	0.15778	55	14500	2287.81	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.526283975	0.123941568	0.005212034	1.548492455	0.071554609	2.70186677	0.028468683	0.503318204	0.420990624
2040	I35_Rmp_SB_5	Urban Restricted Access	0.208577	55	17550	3660.52635	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.842061342	0.198308153	0.008339323	2.477608471	0.114488324	4.323022675	0.045550271	0.805315803	0.673590584
2040	I35_Rmp_SB_6	Urban Restricted Access	0.178684	55	21450	3832.7718	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.881684396	0.20763951	0.008731729	2.59419192	0.119875552	4.526441778	0.047693631	0.843209803	0.705286275
2040	I35_Rmp_SB_7	Urban Restricted Access	0.218844	55	26900	5886.9036	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.35421343	0.318921617	0.013411403	3.984520485	0.184121533	6.952338357	0.073254507	1.295118802	1.08327668
2040	I35_Rmp_SB_8	Urban Restricted Access	0.08169	55	22663	1851.34047	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.425879256	0.100295934	0.00421768	1.253070294	0.057903385	2.186403284	0.023037414	0.407294907	0.340673824
2040	I35_Rmp_SB_9	Urban Restricted Access	0.133759	55	11625	1554.948375	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.357697716	0.084238962	0.003542446	1.052458826	0.048633288	1.836368992	0.019349217	0.342088645	0.286133327
2040	I35_Rmp_SB_10	Urban Restricted Access	0.120047	55	12875	1545.605125	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.35554841	0.083732794	0.003521161	1.046134895	0.048341064	1.825334764	0.019232953	0.34003313	0.284414032
2040	I35_Rmp_SB_11	Urban Restricted Access	0.198114	55	18125	3590.81625	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.826025347	0.194531625	0.008180512	2.430425547	0.112308038	4.240696169	0.044682823	0.789979581	0.660762902
2040	I35_Rmp_SB_12	Urban Restricted Access	0.214076	55	18000	3853.368	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.886422311	0.208755304	0.008778651	2.608132352	0.120519729	4.550765558	0.047949923	0.847740967	0.709076278
2040	I35_Rmp_SB_13	Urban Restricted Access	0.110431	55	23875	2636.540125	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.606505268	0.142833941	0.006006503	1.78452865	0.082461654	3.113711432	0.032808155	0.580038832	0.485162087
2040	I35_Rmp_SB_14	Urban Restricted Access	0.253871	55	17313	4395.268623	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.011080222	0.238112643	0.010013196	2.974915007	0.137468464	5.190741468	0.054693139	0.966959105	0.808793948
2040	I35_Rmp_SB_15	Urban Restricted Access	0.110123	55	5650	622.19495	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.143128683	0.033707265	0.00141747	0.421129458	0.019460058	0.734802217	0.00774237	0.13688289	0.114493004
2040	I35_Rmp_SB_16	Urban Restricted Access	0.187178	55	34488	6455.394864	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.484988207	0.349719497	0.014706526	4.369300879	0.20190193	7.623717385	0.080328607	1.420186881	1.187887418
2040	I35_Rmp_SB_17	Urban Restricted Access	0.166418	55	27713	4611.942034	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.06092341	0.249850874	0.010506816	3.121569293	0.144245243	5.446629278	0.057389345	1.014627255	0.848665036
2040	I35_Rmp_SB_18	Urban Restricted Access	0.189905	55	12225	2321.588625	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.534054353	0.125771517	0.005288988	1.571355344	0.072611085	2.741758782	0.028889012	0.510749501	0.427206387
2040	I35_Rmp_SB_19	Urban Restricted Access	0.297846	55	15525	4624.05915	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.063710811	0.250507316	0.010534421	3.129770701	0.144624223	5.460939396	0.057540126	1.017293021	0.850894763
2040	I35_CD_SB_1	Urban Restricted Access	0.435987	55	5275	2299.831425	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.529049363	0.124592826	0.005239421	1.556629095	0.071930597	2.716063879	0.028618273	0.505962917	0.423202743
2040	I35_CD_SB_2	Urban Restricted Access	0.45446	55	21313	9685.90598	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	2.228129565	0.524731677	0.022066199	6.555855746	0.302940898	11.43889899	0.120527923	2.130899332	1.782348887
2040	I35_CD_SB_3	Urban Restricted Access	0.582261	55	41875	24382.17938	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	5.608835646	1.320898829	0.055546897	16.50295296	0.762588376	28.79496122	0.303403053	5.364079504	4.486678928
2040	I35_CD_SB_4	Urban Restricted Access	0.61191	55	22963	14051.28933	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	3.232335029	0.761225292	0.032011311	9.510543059	0.439474657	16.59434644	0.17484918	3.091283677	2.585643505
2040	I35_CD_SB_5	Urban Restricted Access	0.547285	55	18950	10371.05075	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	2.385739119	0.561849233	0.023627079	7.019592467	0.324369804	12.24804393	0.129053618	2.281631183	1.908425582
2040	I35_HOV_SB_1	Urban Restricted Access	1.467329	70	7150	10491.40235	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	3.051966299	0.500737298	0.018824876	5.994569541	0.277913086	11.83607622	0.145568257	1.993366511	1.869539893
2040	I35_HOV_SB_2	Urban Restricted Access	1.236412	70	10025	12395.0303	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	3.605734818	0.591594314	0.022240583	7.08226304	0.328339435	13.9836905	0.171981103	2.355055833	2.208761313
2040	I35_HOV_SB_3	Urban Restricted Access	3.129189	70	5425	16975.85033	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	4.938302941	0.810229284	0.030460015	9.699648522	0.449683541	19.15163022	0.235540003	3.225411666	3.025051213
2040	I35_HOV_SB_4	Urban Restricted Access	1.912031	70	10850	20745.53635	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	6.034910842	0.990150169	0.037224017	11.85356887	0.549541028	23.40447361	0.287844414	3.941652033	3.6967992
2040	I35_HOV_SB_5	Urban Restricted Access	3.015909	70	5100	15381.1359	0.000290902	4.77283E-05	1.79431E-06	0.000571379	2.64896E-05	0.001128169	1.3875E-05	0.00019	0.000178197	4.474397877	0.7341162	0.027598595	8.7884618	0.407440188	17.35252265	0.213413333	2.922415915	2.740877359
2040	I35_DC_SB_1	Urban Restricted Access	0.507642	55	6850	3477.3477	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	0.799923232	0.188384493	0.00792201	2.353624942	0.108759143	4.106691639	0.043270862	0.7650165	0.639883023
2040	I35_DC_SB_2	Urban Restricted Access	0.331378	55	16113	5339.493714	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.228288178	0.289265815	0.012164307	3.614008913	0.167000487	6.305856096	0.066442735	1.174688626	0.982545226
2040	I35_DC_SB_3	Urban Restricted Access	0.210432	55	40200	8459.3664	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.945978457	0.458284184	0.019271926	5.725678727	0.264579076	9.9903755	0.105265307	1.861060623	1.556647599
2040	I35_DC_SB_4	Urban Restricted Access	0.419394	55	12188	5111.574072	0.000230038	5.41748E-05	2.27818E-06	0.000676845	3.12765E-05	0.001180984	1.24436E-05	0.00022	0.000184015	1.175857926	0.276918322	0.011645066	3.459742673	0.159871967	6.036686669	0.063606586	1.124546305	0.940604666
Daily Total						**3,589,143.39**										**957.6010479**	**160.1263675**	**6.092447274**	**1925.283569**	**89.22647986**	**3564.058244**	**46.61662759**	**638.1026967**	**639.7953071**
Tons/Day																**0.001055574**	**0.000176509**	**6.71577E-06**	**0.002122262**	**9.83554E-05**	**0.003928702**	**5.1386E-05**	**0.000703388**	**0.000705254**
Yearly Total						**1,310,037,335.78**										**0.38528468**	**0.064425824**	**0.002451257**	**0.774625577**	**0.035899706**	**1.433976126**	**0.018755903**	**0.256736554**	**0.257417565**