

APPENDIX C – DATA COLLECTED DURING STUDY

1. Existing and projected population and employment data by Traffic Analysis Zone (TAZ) – Excel format
2. Location maps of TAZs
3. Crash data
4. ArcGIS
5. Roadways classifications for individual municipalities
6. Planned development projects in Port Freeport
7. Count data
8. Maps summarizing count data

1. EXISTING AND PROJECTED POPULATION AND EMPLOYMENT DATA BY TAZ

See digital attachments.

2. LOCATION MAPS OF TAZS

See attachments below.

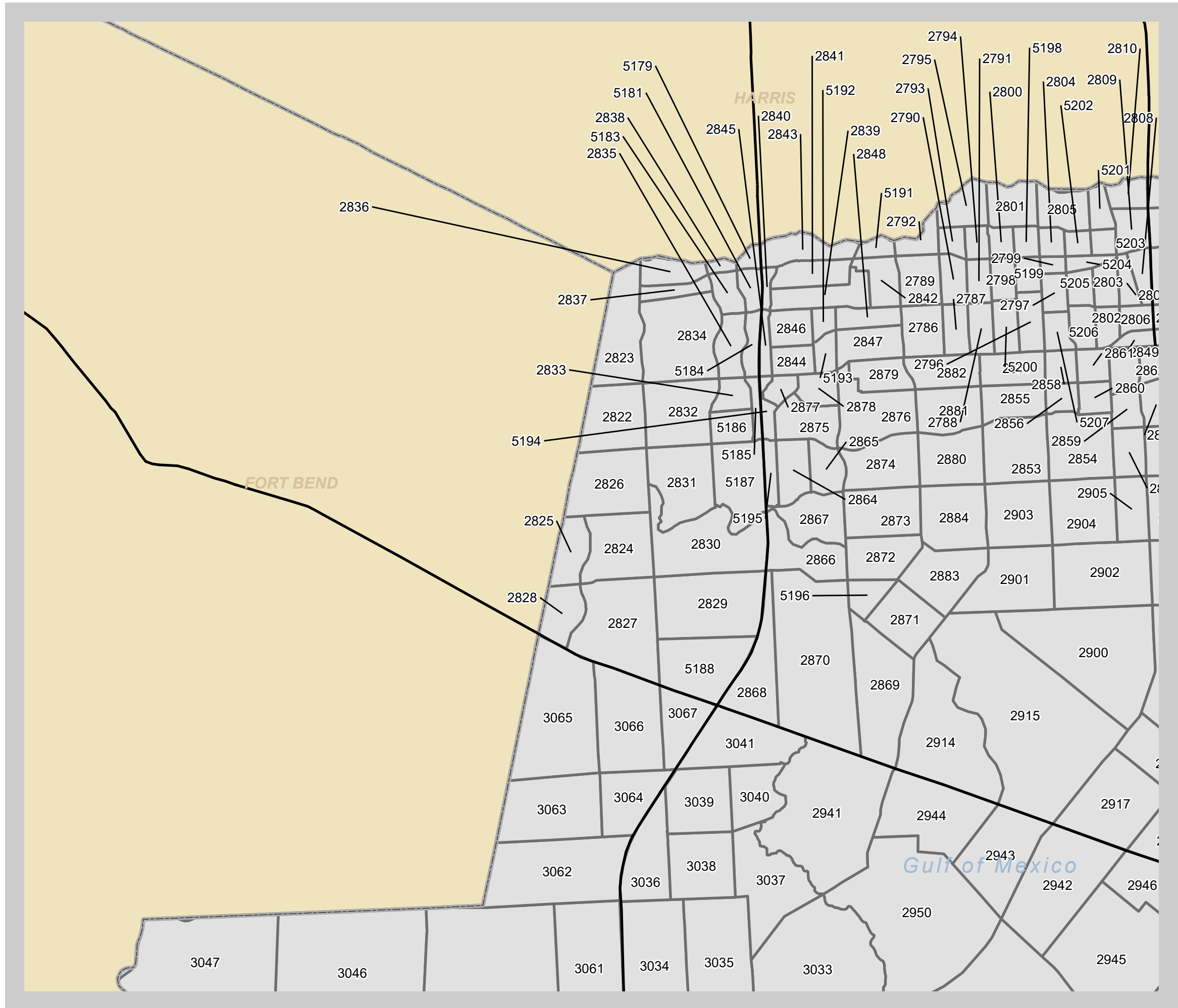
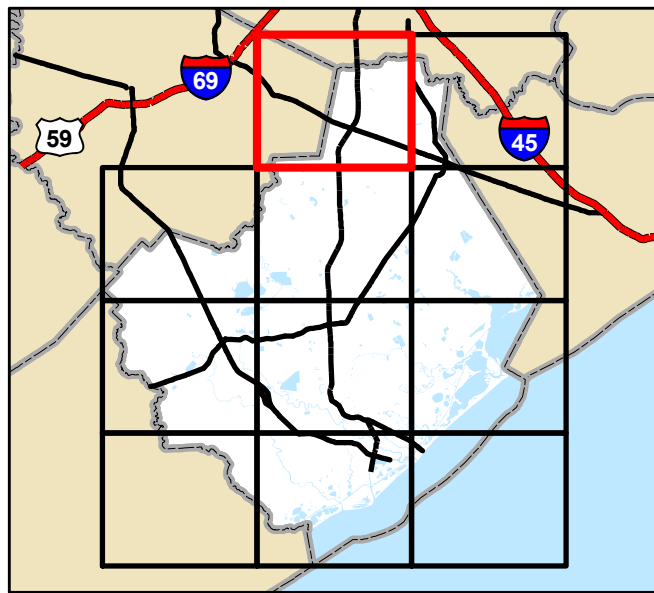


Brazoria County Thoroughfare Plan: Traffic Analysis Zone (TAZ)

Legend



0 0.5 1 2 Miles



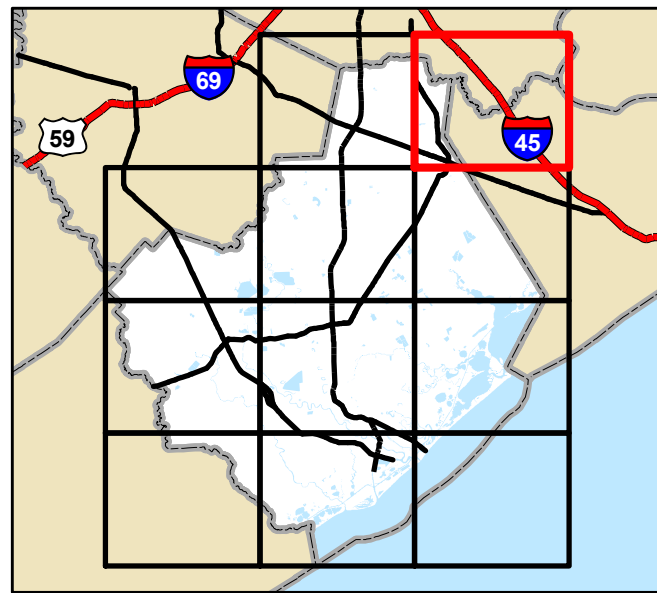


Brazoria County Thoroughfare Plan: Traffic Analysis Zone (TAZ)

Legend

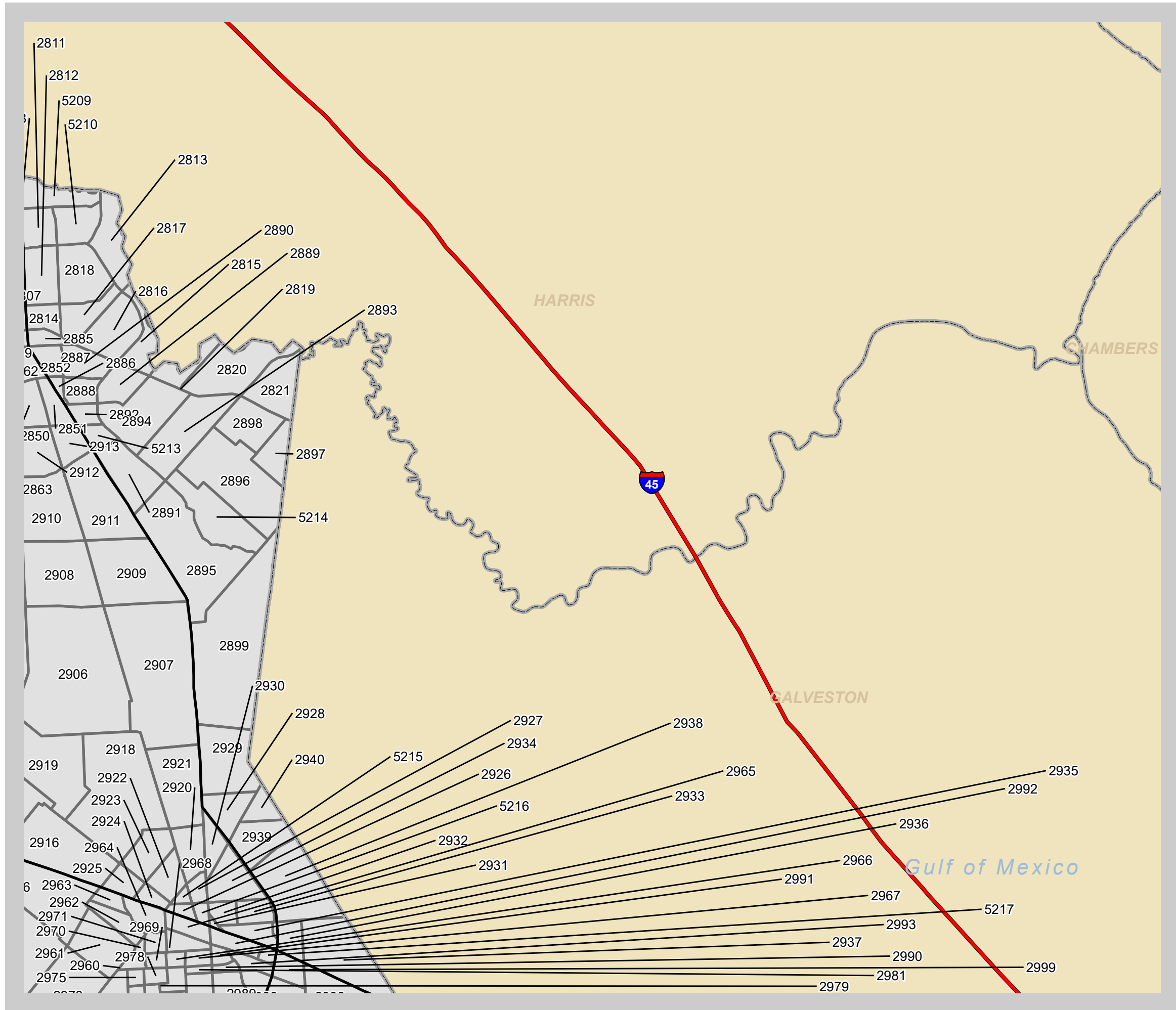


0 0.5 1 2 Miles



Kimley»Horn

Sources: BCAD, Brazoria County, HGAC, TxDOT
Data is current as of 2019; Prepared on 1/23/2020



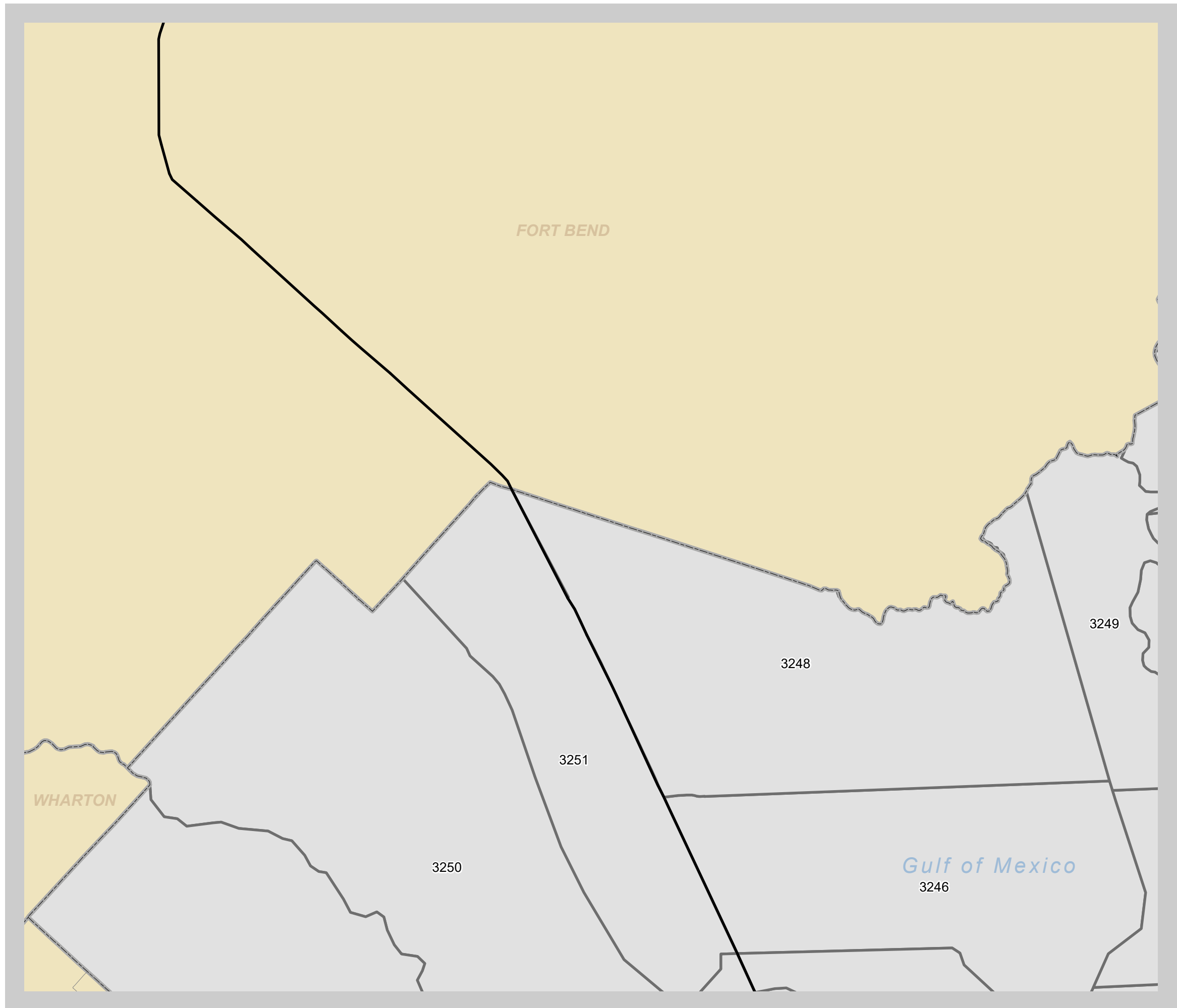
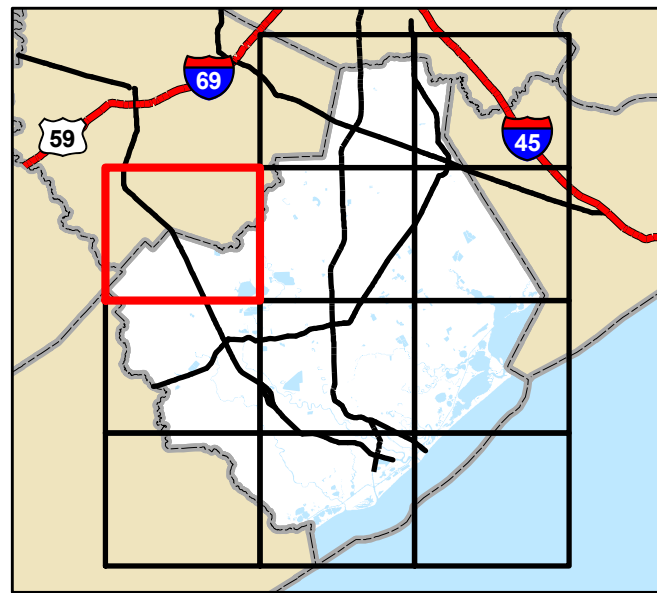


Brazoria County Thoroughfare Plan: Traffic Analysis Zone (TAZ)

Legend



0 0.5 1 2 Miles



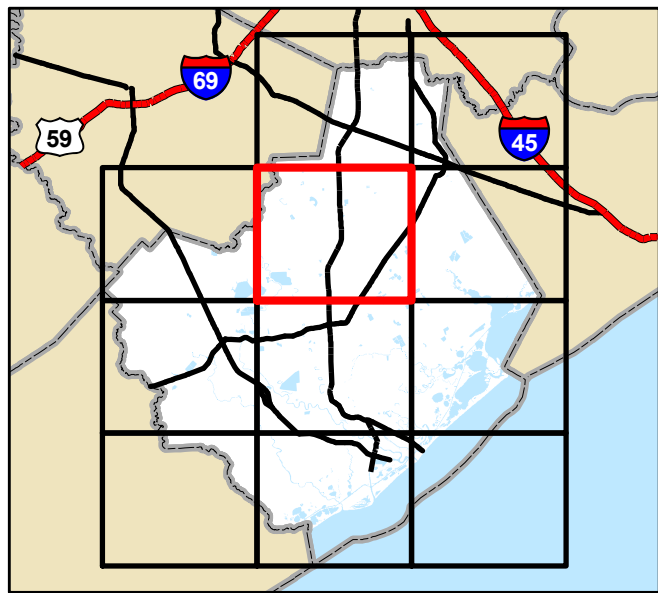


Brazoria County Thoroughfare Plan: Traffic Analysis Zone (TAZ)

Legend

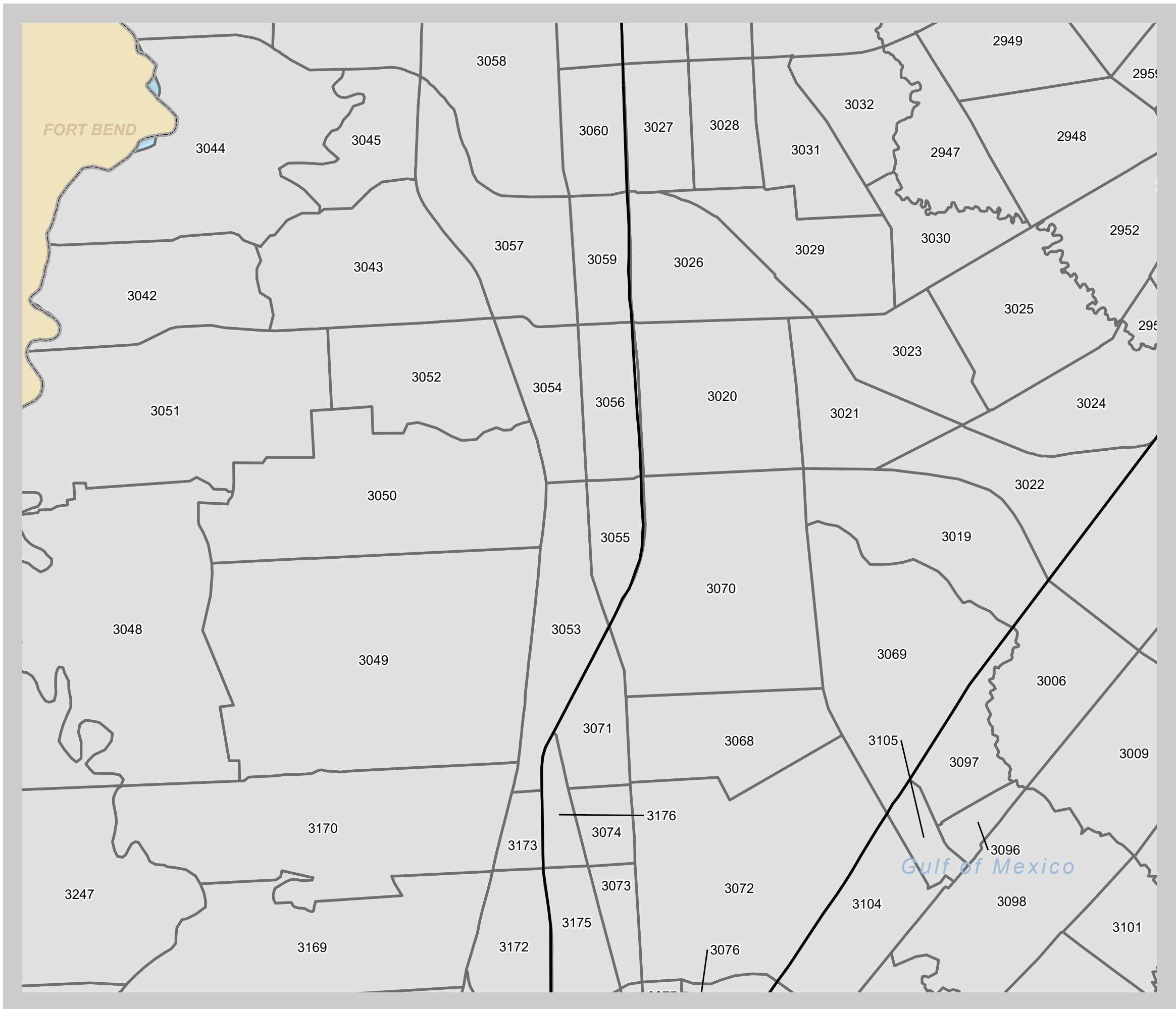


0 0.5 1 2 Miles



Kimley»Horn

Sources: BCAD, Brazoria County, HGAC, TxDOT
Data is current as of 2019; Prepared on 1/23/2020



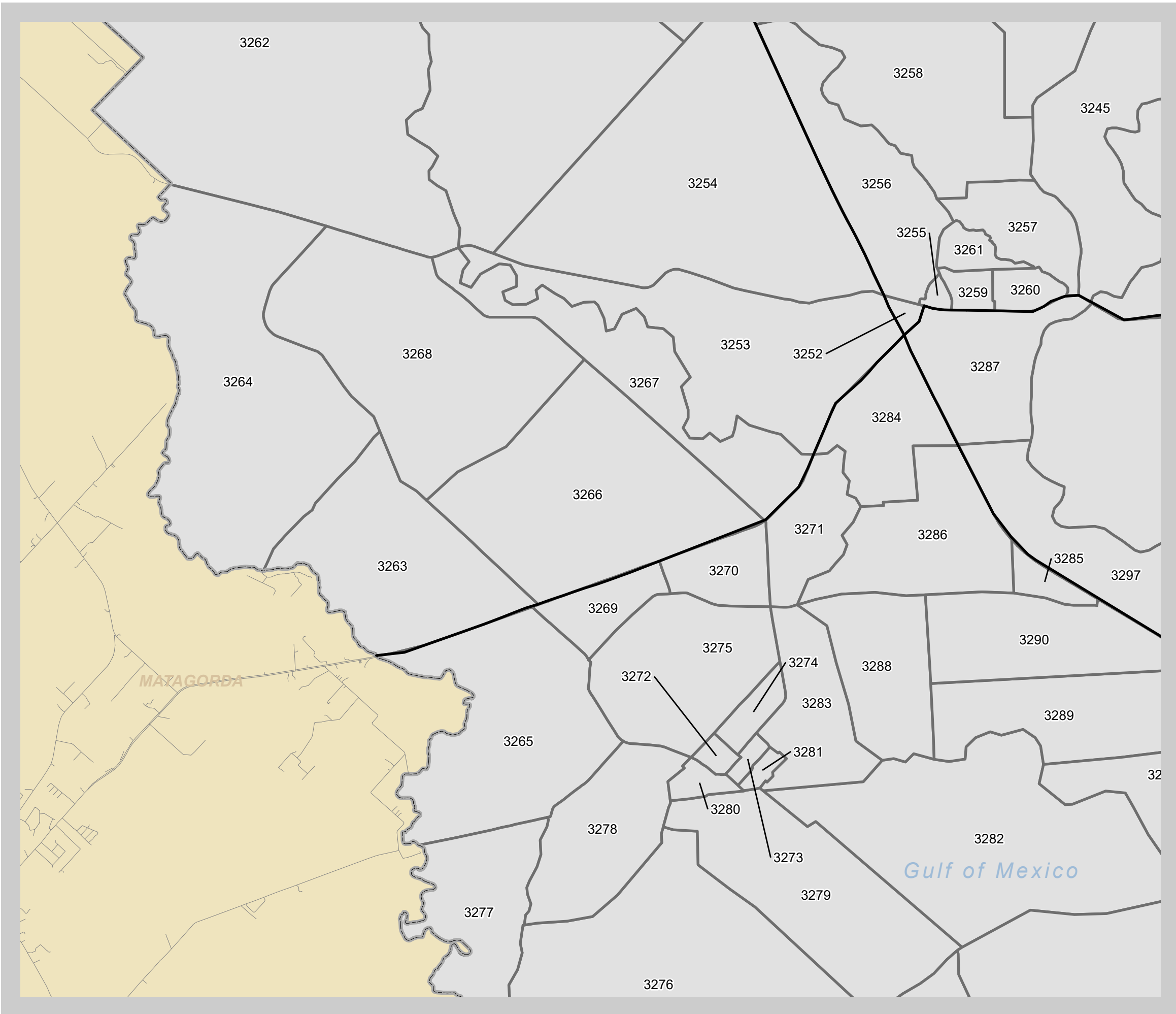
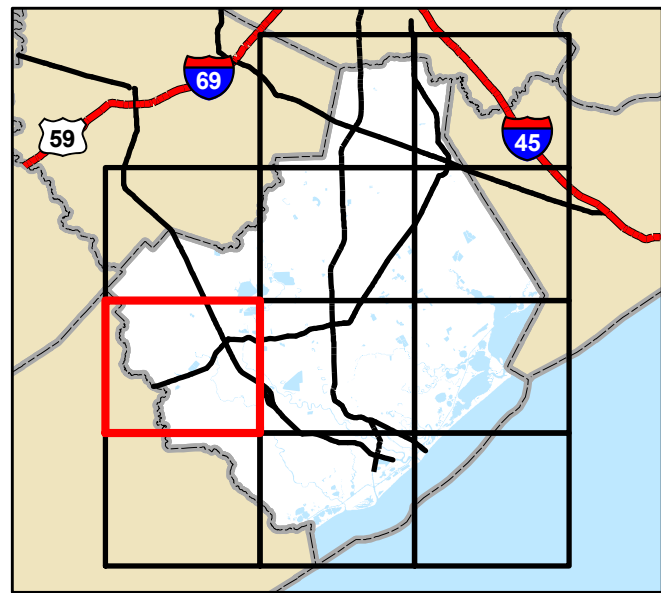


Brazoria County Thoroughfare Plan: Traffic Analysis Zone (TAZ)

Legend



0 0.5 1 2 Miles



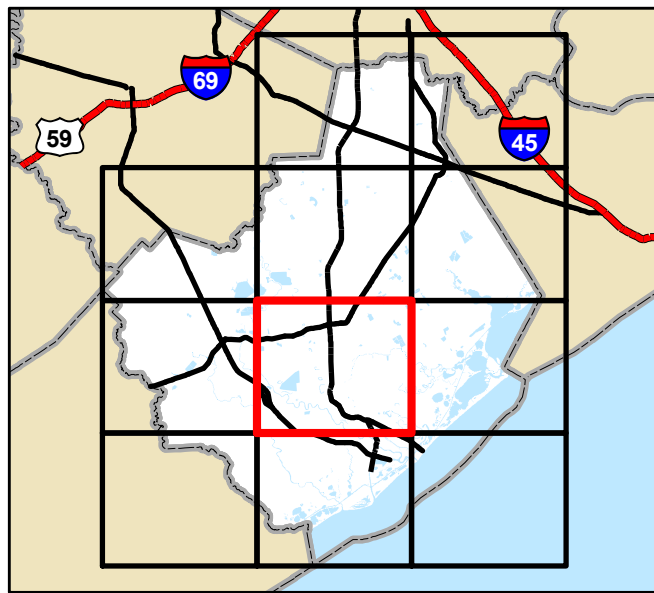


Brazoria County Thoroughfare Plan: Traffic Analysis Zone (TAZ)

Legend



0 0.5 1 2 Miles



Kimley»Horn

Sources: BCAD, Brazoria County, HGAC, TxDOT
Data is current as of 2019; Prepared on 1/23/2020



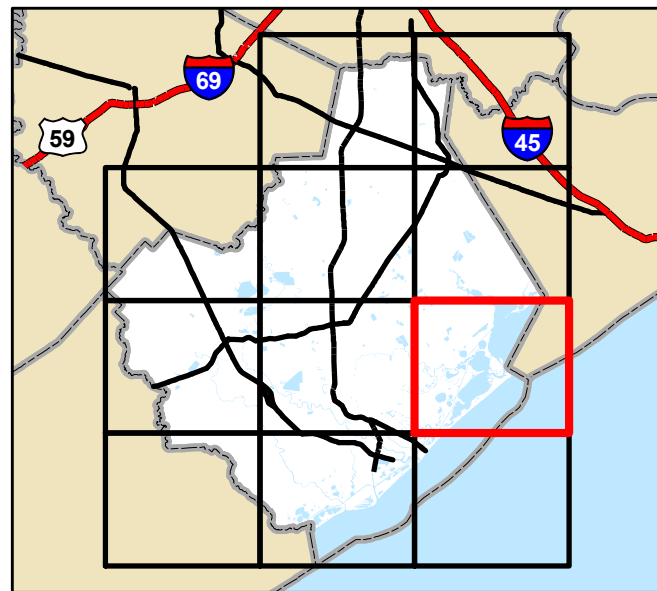


Brazoria County Thoroughfare Plan: Traffic Analysis Zone (TAZ)

Legend

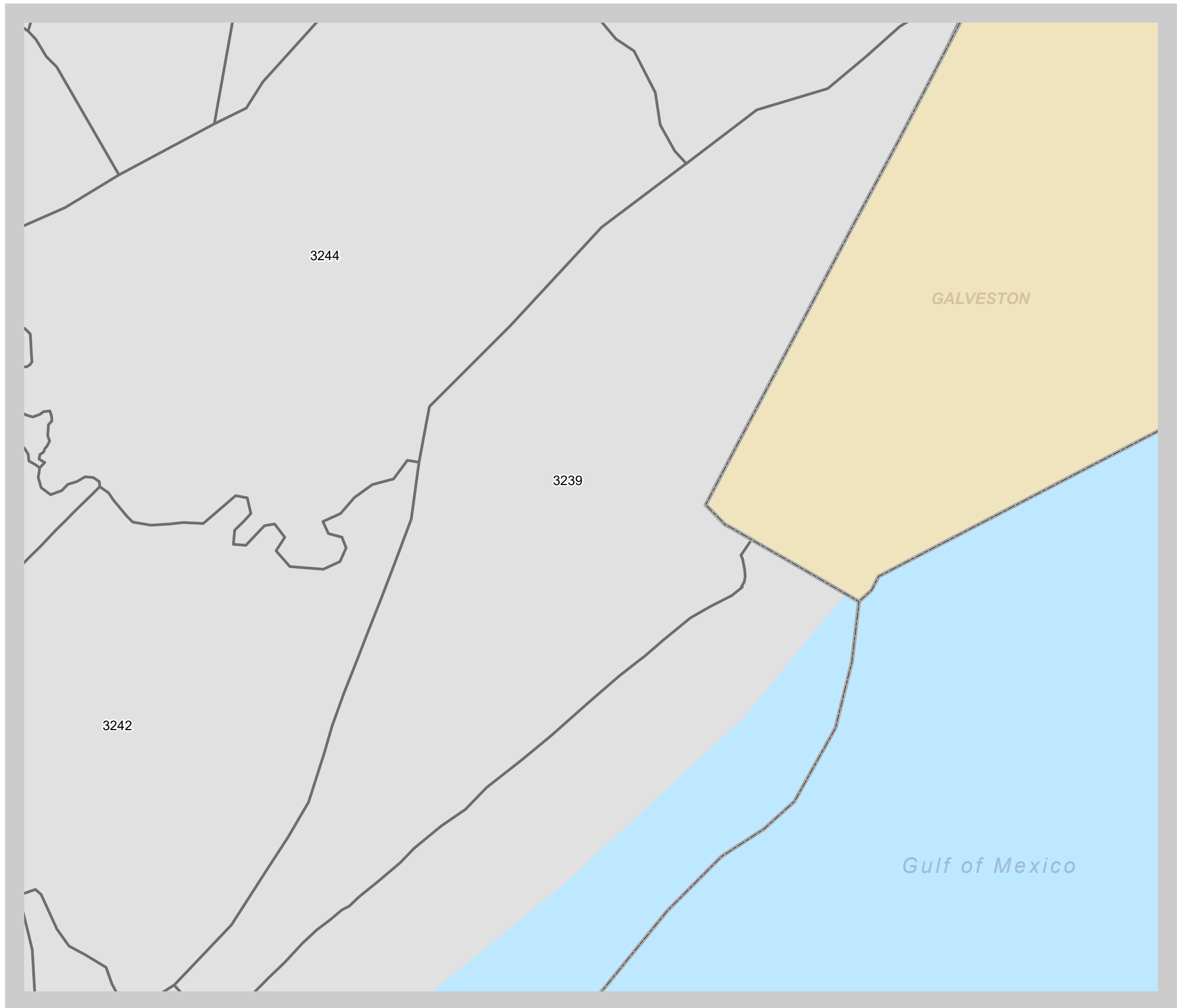


0 0.5 1 2 Miles



Kimley»Horn

Sources: BCAD, Brazoria County, HGAC, TxDOT
Data is current as of 2019; Prepared on 1/23/2020



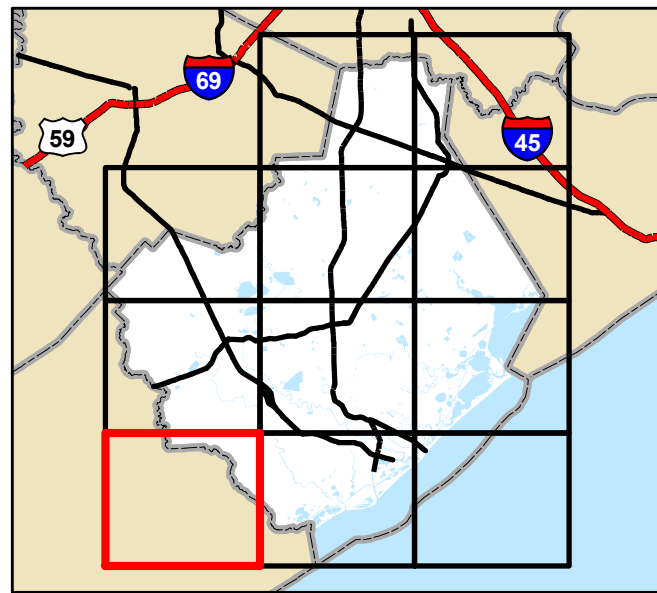


Brazoria County Thoroughfare Plan: Traffic Analysis Zone (TAZ)

Legend

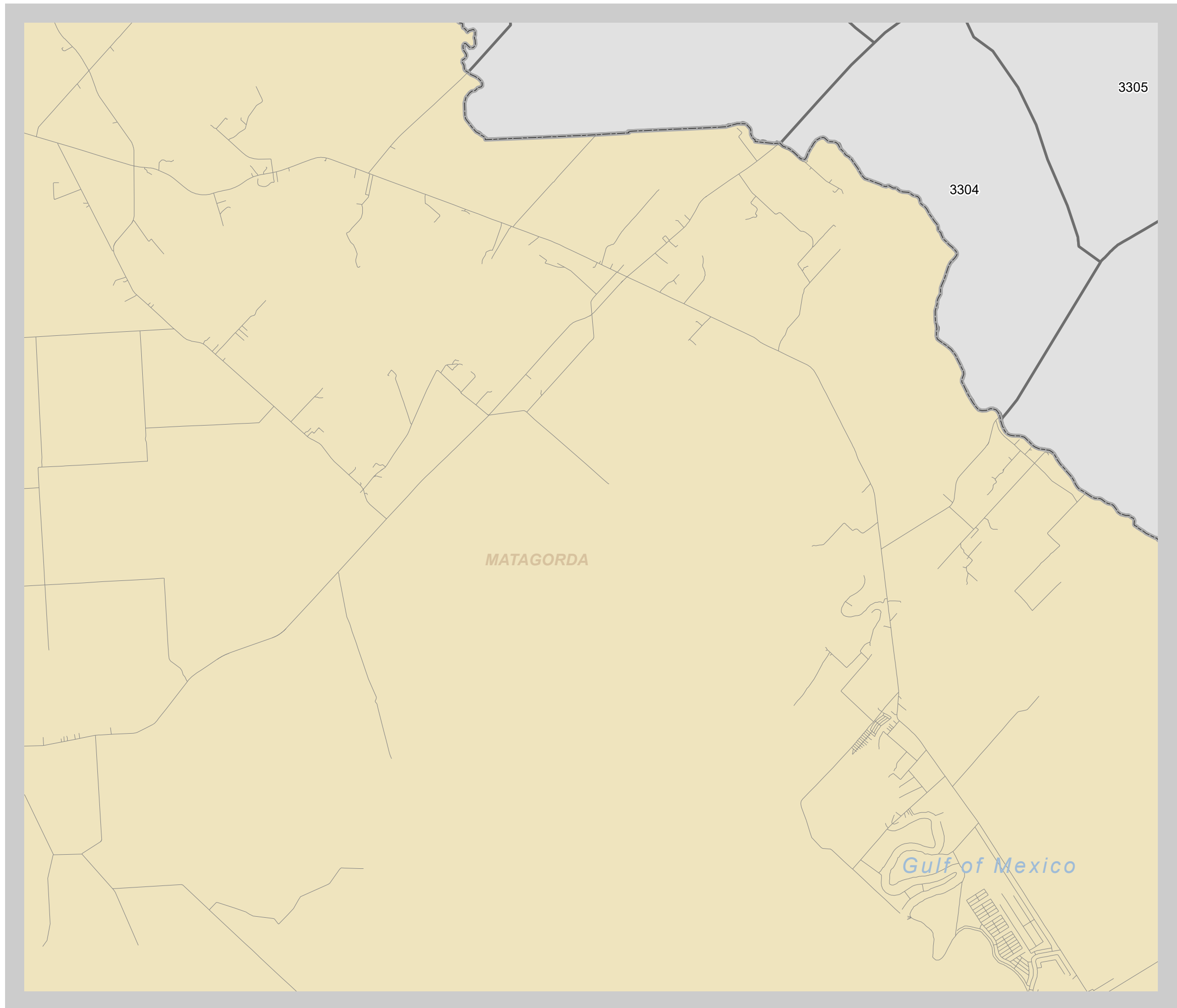


0 0.5 1 2 Miles



Kimley»Horn

Sources: BCAD, Brazoria County, HGAC, TxDOT
Data is current as of 2019; Prepared on 1/23/2020



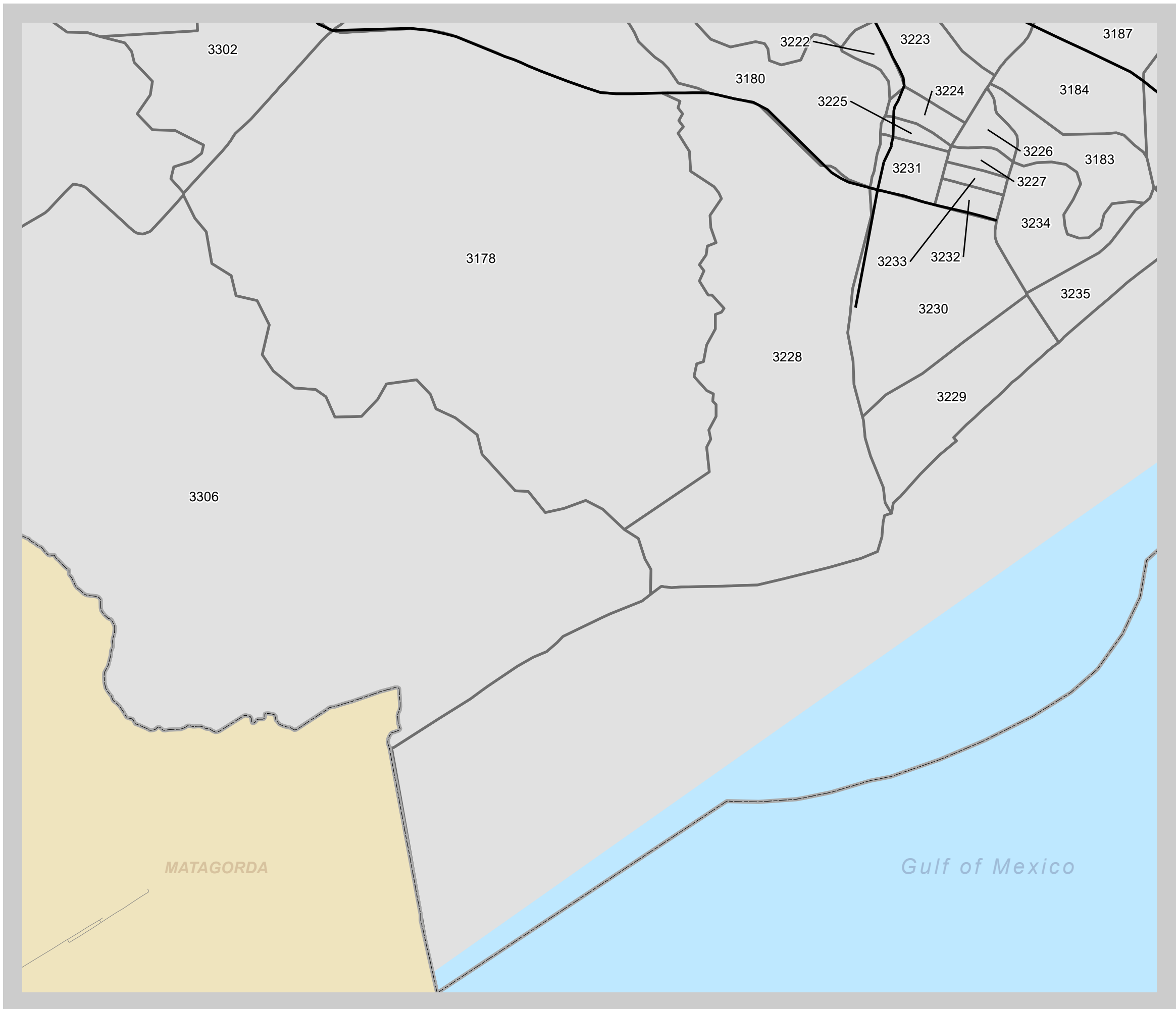
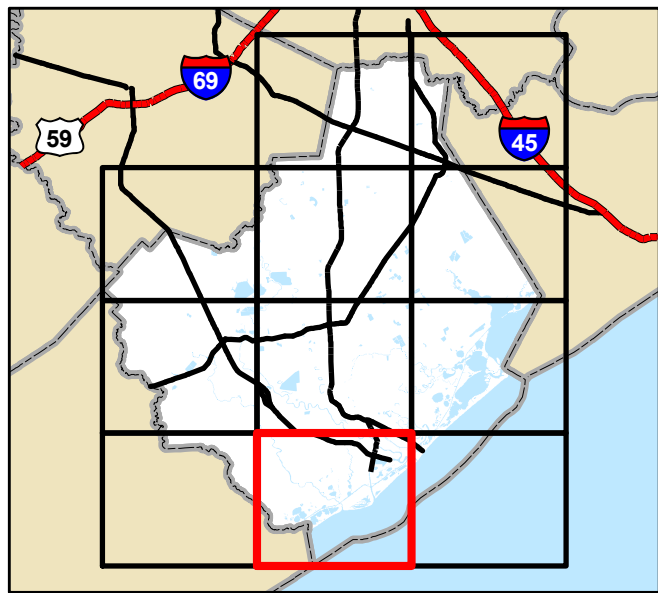


Brazoria County Thoroughfare Plan: Traffic Analysis Zone (TAZ)

Legend



0 0.5 1 2 Miles



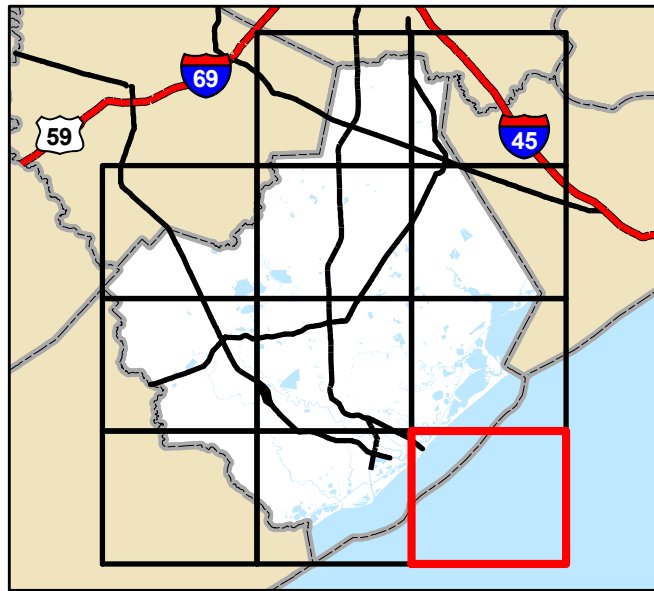


Brazoria County Thoroughfare Plan: Traffic Analysis Zone (TAZ)

Legend



0 0.5 1 2 Miles



Gulf of Mexico

3. CRASH DATA

See digital attachments.

4. ARCGIS

See digital attachments.

5. ROADWAY CLASSIFICATIONS FOR INDIVIDUAL MUNICIPALITIES

See attachments below.

Municipality Roadway Classifications

Index	Jurisdiction	Class	Classification	ROW Width	Travel Lanes	Cross Section	Median Width	Shoulder Width	Parkway Width
1	Brazoria County	1	Major Arterial	130	6	6D	Raised	10	
2	Brazoria County	2	Minor Arterial	100	4	4D	Raised	5	
3	Brazoria County	3	Major Collector	80	4 or 2	4U or 2D	Raised	2	
4	Pearland	1	Major Thoroughfare	120	6 or 4	6D or 4D	18 or 42		14
5	Pearland	2	Secondary Thoroughfare	100	4	4D	18		16
6	Pearland	3	Major Collector	80	4 or 2	4U or 2D	0		15.5
7	Pearland	4	Minor Collector	60	3	3U	0		11.5
8	Pearland	5	Local Street	50	2	2U	0		11
9	Manvel	1	Major Thoroughfare	120	6	6D	16		16
10	Manvel	2	Parkway 1	120	4	4D	14		29
11	Manvel	2	Parkway 2	120	4	4D	14		18 + 10 Buf. BL
12	Manvel	3	Arterial	100	4	4D	14		19
13	Manvel	3	Arterial 1	100	4	4U	0		26
14	Manvel	3	Arterial 2	100	4	4D	14		16 + 6 1DBL
15	Manvel	3	Arterial 3	100	3	3U	0		31
16	Manvel	3	Arterial 4	100	2	2U	0		38
17	Manvel	4	Collector	80	4	4U	0		16
18	Manvel	4	Collector 1	80	2	2U	0		28
19	Manvel	4	Collector 2	80	3	3U	0		15 + 6 BL
20	Manvel	4	Collector 3	80	2	2D	14		21
21	Manvel	5	Local	60	2	2U	0		17
22	Missouri City	1	6-Lane Major Thoroughfare	120	6	6D	24		12
23	Missouri City	1	4-Lane Major Thoroughfare	100	4	4D	18		12
24	Missouri City	2	Major Collector	70	2	2U	0		15
25	Missouri City	3	Minor Collector	60	2	2U	0		10-12
26	Missouri City	4	Local	50	2	2U	0		11.5
27	Iowa Colony	1	Major Arterial	120	6 or 4	6D or 4D	32		
28	Iowa Colony	2	Minor Arterial	120	4	4D	32		
29	Iowa Colony	3	Major Collector	80	4	4D	12		
30	Iowa Colony	4	Minor Collector	80	4	4U	0		
31	Iowa Colony	5	Local	60	2	2U	0		
32	Iowa Colony	6	Marginal Access	50	2	2U	0		
33	Alvin	1	Major Arterial	180	6	6D	28		31
34	Alvin	2	Minor Arterial	120	4	4D	20		20
35	Alvin	3	Major Collector	100	5	5U	0		20
36	Alvin	4	Minor Collector	80	3	3U	0		20
37	Alvin	5	Local Roadway	60	2	2U	0		16
38	Angleton	1	Major Arterial	120	4-6				
39	Angleton	2	Minor Arterial	100	3-4				
40	Angleton	3	Major Collector	80	2-3				

Municipality Roadway Classifications

Index	Jurisdiction	Class	Classification	ROW Width	Travel Lanes	Cross Section	Median Width	Shoulder Width	Parkway Width
41	Angleton	4	Minor Collector	70	2				
42	Angleton	5	Local Street	60	2				
43	Clute	1	Thoroughfare	100-120	4	4D	12-25		
44	Clute	2	Minor Thoroughfare	60-64	4	4U	0		
45	Clute	3	Secondary Street	60	2 or 4	2U or 4U	0		
46	Clute	4	Minimum Street	60					
47	Lake Jackson	1	Arterial Street	100	4				
48	Lake Jackson	2	Collector Street	70	3				
49	Lake Jackson	3	Minor Street	60	2				
51	League City	1	Major Arterial	120	2-6	2D-6D			
52	League City	2	Minor Arterial	120	2-4	2D-4D			
53	League City	3	Collector	100	2-4	2D-4D			
54	League City	4	Residential	70	2	2U			

6. PLANNED DEVELOPMENT PROJECTS IN PORT FREEPORT

Port Freeport has several projects under way that contribute to not only the current economic impact of port operations, but also to facilitate growth and economic activity for years to come. The following is a list of projects directly related to Port Freeport:

- **Multimodal Industrial Park Project**
 - Construction of the first phase of the Parcel 14 rail development project began in 2017
 - Award of a \$21 million contract to James Construction
 - 250-acre site is currently being developed as a multimodal industrial park designed for warehousing of plastic resins, cross-docking activities, and distribution
 - The new rail facility will enhance equal partnerships with area industry and will be the first step in future connections to the Texas International Trade Corridor

- **Freeport LNG Quintana/Oyster Creek—Natural Gas Liquefaction**
 - Working toward the finalization of three new LNG trains to serve the existing regasification facility and terminal on Quintana Island
 - Freeport LNG Quintana Train 1 is slated to open in the second half of 2019
 - Second and third trains following in early 2020
 - When fully operational, these trains will have a capacity to liquefy over 2 billion cu ft each day of natural gas
 - 4,000 workers will be employed across the various trains.

- **Terminal ME Global Oyster Creek**
 - Online in mid-2019
 - Will provide MEG to Dow Chemical based on a supply agreement,
 - Once completed, the new facility will bring an \$1 billion in capital investment to the Oyster Creek area 1,400 construction workers will be employed.
 - 35 direct company jobs and more than 172 direct and indirect new jobs

- **Praxair Freeport**
 - Will supply oxygen and nitrogen to MEGlobal's forthcoming ethylene glycol plant.
 - The air separation unit will be operational in 2019 viii Provided by Freeport LNG through TTI's administered survey.
 - Unit will contribute \$104 million in capital investment to the Freeport area
 - Estimated to employ 70 construction workers at the peak of construction and will contribute to about 15 new company hires plus 70 direct or indirect jobs

7. COUNT DATA

See digital attachments.

8. MAPS SUMMARIZING COUNT DATA

See attachments below.

AM Peak for Bidirectional Counts

CR 18 W of CR 25	
WB	EB
8:15-9:15	7:15-8:15
9	4
0.45	0.50

CR 25 N of CR 1301	
NB	SB
6:00-7:00	6:30-7:30
118	345
0.87	0.95

FM 521 N of CR 52	
NB	SB
6:00-7:00	7:00-8:00
218	288
0.87	0.78

Velasco St N of Lorraine St	
NB	SB
7:15-8:15	7:15-8:15
620	556
0.88	0.89

WB Hwy 6 E of Pearland Sites Rd	
WB	EB
6:45-7:45	7:00-8:00
1479	1156
0.93	0.83

Hwy 69 N of CR 15	
NB	SB
6:45-7:45	6:00-7:00
213	375
0.92	0.82

FM 1462 E of County Line	
WB	EB
7:00-8:00	7:00-8:00
134	201
0.86	0.85

Hwy 35 S of FM 2403	
NB	SB
6:45-7:45	5:00-6:00
603	815
0.95	0.82

FM 1301 W of FM 524	
WB	EB
6:45-7:45	4:45-5:45
54	59
0.75	0.78

FM 2004 NE of FM 2917	
NB	SB
7:00-8:00	5:00-5:45
230	847
0.87	0.73

W Brazos Ave E of Columbia Dr	
WB	EB
5:00-6:00	8:30-9:30
931	316
0.85	0.92

E San Bernard at W Hwy 332	
NB	SB
7:00-8:00	7:00-8:00
505	878
0.81	0.90

FM 2004 W of CR 288	
WB	EB
7:15-8:15	7:00-8:00
612	528
0.78	0.82

CR 208 S of FM 2004	
NB	SB
7:30-8:30	8:15-9:15
2	3
0.25	0.38

FM 523 S of FM 2004	
NB	SB
6:45-7:45	5:45-6:45
134	410
0.86	0.93

CR 321 E of CR 322	
NB	SB
7:45-8:45	7:15-8:15
12	20
0.75	0.71

Dixie Dr N of Hwy 332	
NB	SB
7:00-8:00	6:45-7:45
442	516
0.80	0.92

N Brazosport Blvd N of E Main St	
NB	SB
7:00-8:00	7:00-8:00
568	806
0.89	0.91

FM 521 S of FM 524	
NB	SB
5:45-6:45	5:45-6:45
144	178
0.80	0.86

FM 2918 SW of FM 2611	
NB	SB
6:00-7:00	8:15-9:15
41	25
0.85	0.57

Hwy 36 W of CR 400	
NB	SB
8:00-9:00	5:30-6:30
154	432
0.74	0.85

SH 332 W of FM 523	
WB	EB
6:30-7:30	5:30-6:30
192	495
0.79	0.85

CR 226 E of Brazosport Blvd	
NB	SB
6:00-7:00	7:00-8:00
142	95
0.77	0.79

Navigation Blvd S of Old Surfside Rd	
NB	SB
5:30-6:30	6:30-7:30
423	188
0.96	0.90

CR 242A S of Hwy 36	
NB	SB
7:00-8:00	5:45-6:45
8	75
0.50	0.78

Location Name	
Direction 1	Direction 2
AM Peak Hours	AM Peak Hours
Peak Volume	Peak Volume
PHF	PHF



Count Type

- Directional
- ◆ Turning Movement

Mid-Day Peak for Bidirectional Counts

CR 18 W of CR 25	
WB	EB
10:30-12:30	10:30-12:30
6	5
0.50	0.42

CR 25 N of CR 1301	
NB	SB
11:45-12:45	12:45-13:45
166	162
0.83	0.79

FM 521 N of CR 52	
NB	SB
11:00-12:00	12:00-13:00
170	149
0.85	0.96

Velasco St N of Lor-	
NB	SB
12:00-13:00	12:15-13:15
878	790
0.88	0.95

WB Hwy 6 E of Pearland Sites Rd	
WB	EB
11:45-12:45	11:45-12:45
850	775
0.94	0.94

Hwy 69 N of CR 15	
NB	SB
11:15-12:15	11:30-12:30
184	158
0.85	0.79

FM 1462 E of County	
WB	EB
11:45-12:45	10:45-11:45
125	103
0.85	0.86

Hwy 35 S of FM 2403	
NB	SB
11:45-12:45	12:00-13:00
496	466
0.96	0.81

FM 1301 W of FM 524	
WB	EB
11:30-12:30	11:45-12:45
38	42
0.79	0.81

FM 2004 NE of FM1917	
NB	SB
10:15-11:15	12:45-13:45
209	195
0.78	0.89

W Brazos Ave E of Columbia Dr	
WB	EB
12:45-13:45	10:45-11:45
395	369
0.91	0.87

E San Bernard at W	
NB	SB
N/A	N/A
N/A	N/A
N/A	N/A

FM 2004 W of CR 288	
WB	EB
12:00-13:00	12:00-13:00
460	436
0.93	0.90

CR 208 S of FM 2004	
NB	SB
12:30-13:30	11:15-12:15
2	1
0.50	0.25

FM 523 S of FM 2004	
NB	SB
12:15-13:15	11:15-12:15
126	111
0.93	0.90

CR 321 E of CR 322	
NB	SB
11:15-12:15	12:45-13:45
17	24
0.85	0.55

Dixie Dr N of Hwy 332	
NB	SB
11:00-12:00	11:45-12:45
582	552
0.87	0.85

N Brazosport Blvd N of E Main St	
NB	SB
11:45-12:45	12:00-13:00
451	488
0.90	0.92

FM 521 S of FM 524	
NB	SB
12:15-13:15	12:30-13:30
120	122
0.70	0.87

FM 2918 SW of FM 2611	
NB	SB
10:30-11:30	12:45-13:45
37	27
0.71	0.68

Hwy 36 W of CR 400	
NB	SB
12:45-13:45	11:30-12:30
130	127
0.93	0.88

CR 226 E of Brazosport Blvd	
NB	SB
11:45-12:45	11:00-12:00
109	104
0.80	0.79

SH 332 W of FM 523	
WB	EB
11:15-12:15	11:15-12:15
248	232
0.83	0.91

Navigation Blvd S of Old Surfside Rd	
NB	SB
11:45-12:45	11:15-12:15
214	209
0.91	0.95

CR 242A S of Hwy 36	
NB	SB
11:45-12:45	11:30-12:30
19	24
0.59	0.50

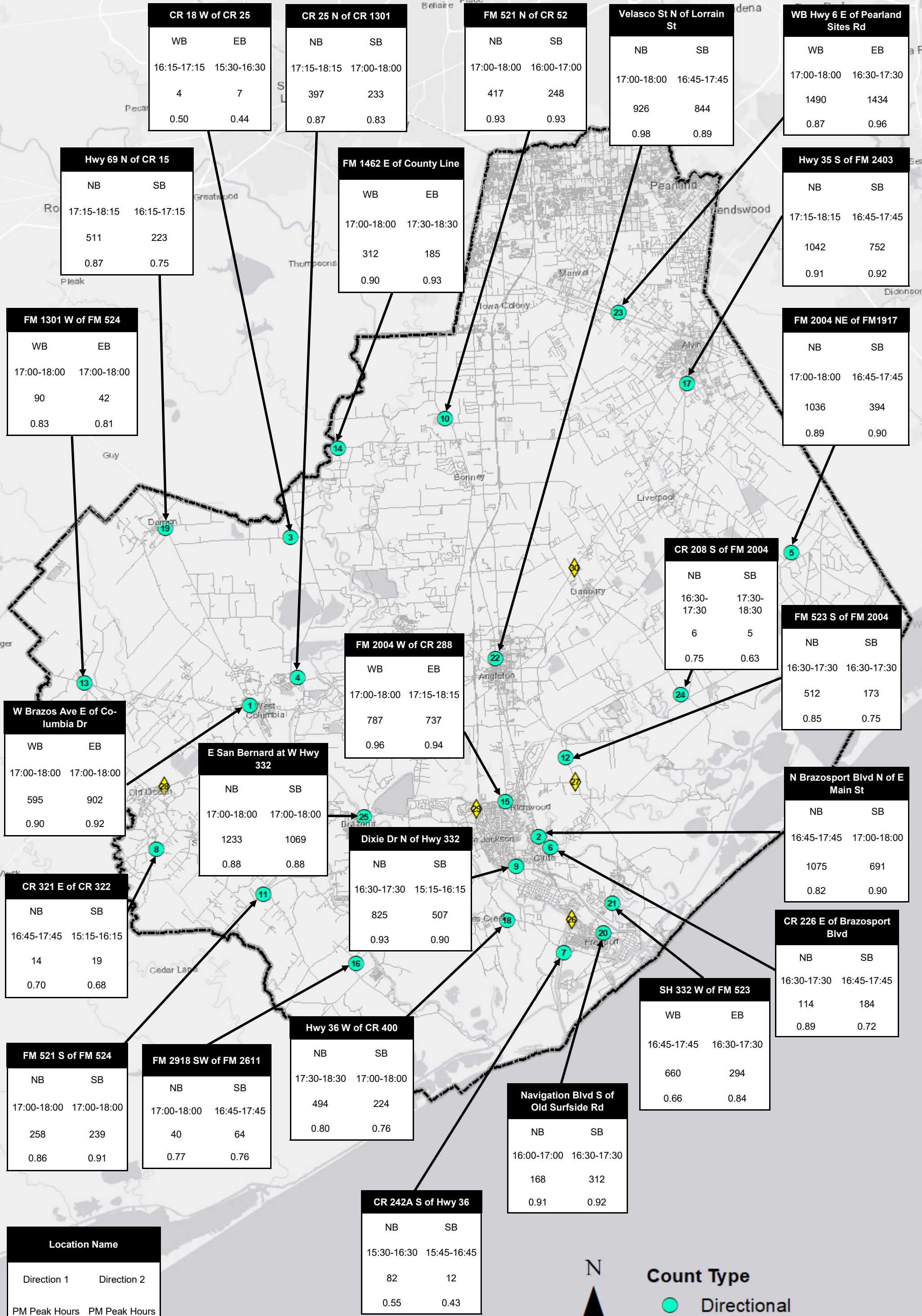
Location Name	
Direction 1	Direction 2
MD Peak Hours	MD Peak Hours
Peak Volume	Peak Volume
PHF	PHF



Count Type

- Directional
- ◆ Turning Movement

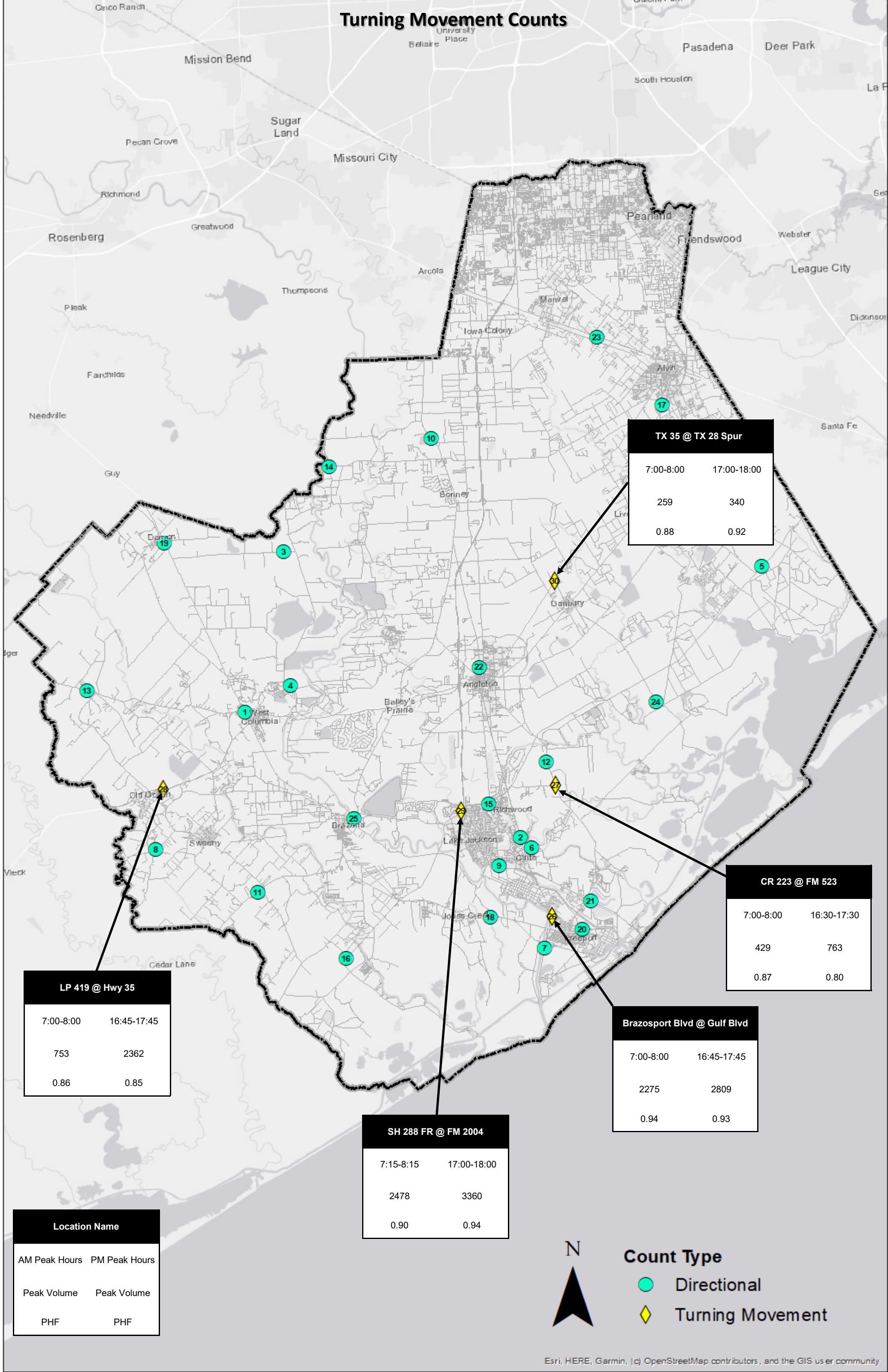
PM Peak for Bidirectional Counts



Count Type

- Directional
- Turning Movement

Turning Movement Counts



TX 35 @ TX 28 Spur

7:00-8:00	17:00-18:00
259	340
0.88	0.92

CR 223 @ FM 523

7:00-8:00	16:30-17:30
429	763
0.87	0.80

LP 419 @ Hwy 35

7:00-8:00	16:45-17:45
753	2362
0.86	0.85

SH 288 FR @ FM 2004

7:15-8:15	17:00-18:00
2478	3360
0.90	0.94

Brazosport Blvd @ Gulf Blvd

7:00-8:00	16:45-17:45
2275	2809
0.94	0.93

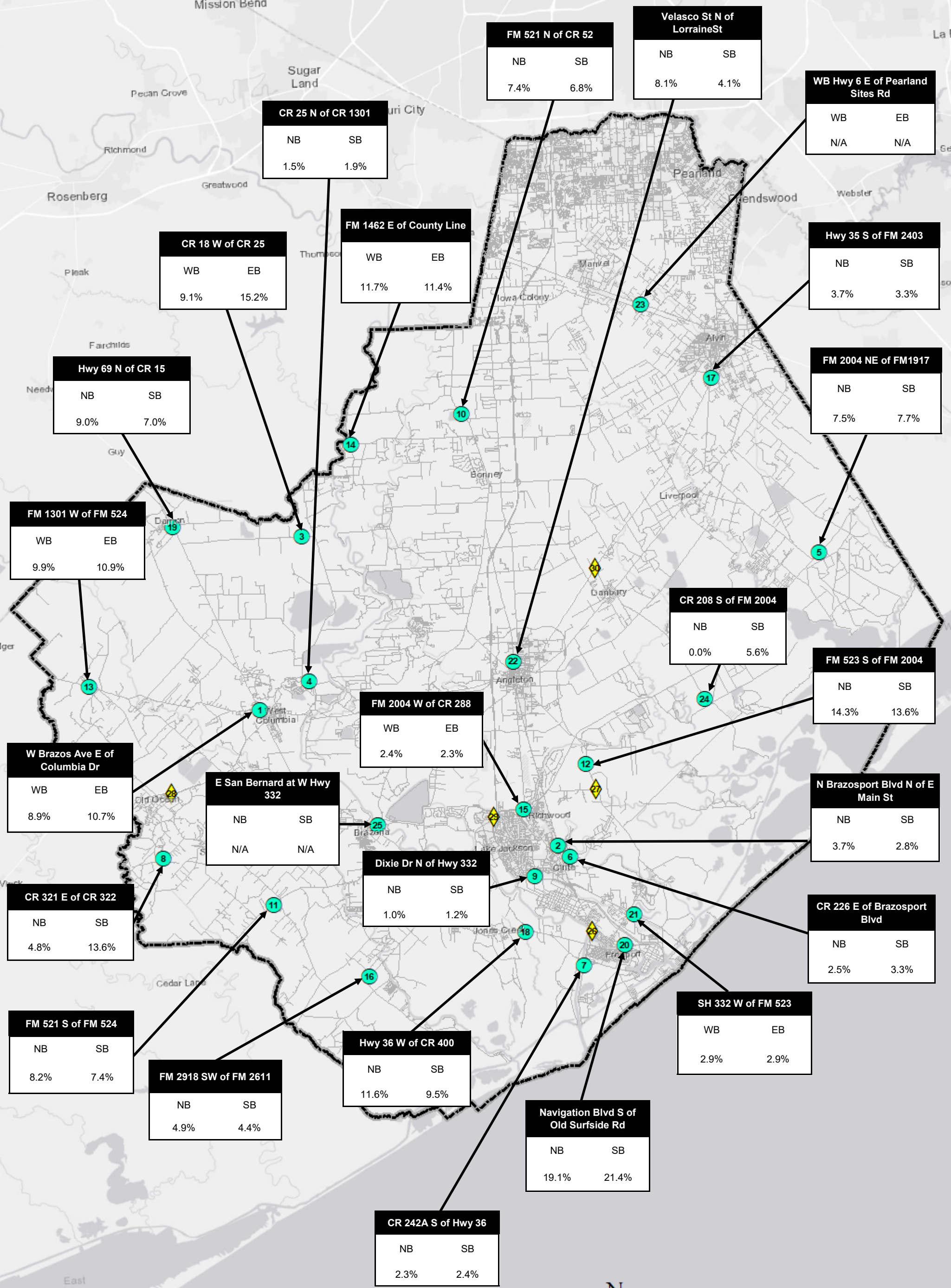
Location Name	
AM Peak Hours	PM Peak Hours
Peak Volume	Peak Volume
PHF	PHF



- Count Type**
- Directional
 - ◆ Turning Movement

Percent Daily Heavy Truck Traffic

*Heavy truck traffic defined as having 3 or more axles



CR 25 N of CR 1301	
NB	SB
1.5%	1.9%

FM 521 N of CR 52	
NB	SB
7.4%	6.8%

Velasco St N of Lorraine St	
NB	SB
8.1%	4.1%

WB Hwy 6 E of Pearland Sites Rd	
WB	EB
N/A	N/A

CR 18 W of CR 25	
WB	EB
9.1%	15.2%

FM 1462 E of County Line	
WB	EB
11.7%	11.4%

Hwy 35 S of FM 2403	
NB	SB
3.7%	3.3%

Hwy 69 N of CR 15	
NB	SB
9.0%	7.0%

FM 2004 NE of FM 1917	
NB	SB
7.5%	7.7%

FM 1301 W of FM 524	
WB	EB
9.9%	10.9%

CR 208 S of FM 2004	
NB	SB
0.0%	5.6%

FM 523 S of FM 2004	
NB	SB
14.3%	13.6%

W Brazos Ave E of Columbia Dr	
WB	EB
8.9%	10.7%

FM 2004 W of CR 288	
WB	EB
2.4%	2.3%

N Brazosport Blvd N of E Main St	
NB	SB
3.7%	2.8%

E San Bernard at W Hwy 332	
NB	SB
N/A	N/A

Dixie Dr N of Hwy 332	
NB	SB
1.0%	1.2%

CR 226 E of Brazosport Blvd	
NB	SB
2.5%	3.3%

CR 321 E of CR 322	
NB	SB
4.8%	13.6%

FM 521 S of FM 524	
NB	SB
8.2%	7.4%

FM 2918 SW of FM 2611	
NB	SB
4.9%	4.4%

Hwy 36 W of CR 400	
NB	SB
11.6%	9.5%

SH 332 W of FM 523	
WB	EB
2.9%	2.9%

Navigation Blvd S of Old Surfside Rd	
NB	SB
19.1%	21.4%

CR 242A S of Hwy 36	
NB	SB
2.3%	2.4%

Location Name	
Direction 1	Direction 2
% Truck Traffic	% Truck Traffic



Count Type
● Directional
◆ Turning Movement