

LAST MINUTE AGENDA INFORMATION

03/20/13 Regular Meeting

(Agenda Related Writings/Documents provided to a majority of the City Council after distribution of the Agenda Packet for the March 20, 2013 Regular meeting.)

ITEM NO. **DESCRIPTION**

3.2	ORDINANCE 2013-1136, AMENDING CHAPTER 10.28.020, SPECIAL SPEED ZONE DESIGNATED. (0750-95) a. Attachment 3 - Speed Survey Report dated March 2013
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CITY MANAGER &
CITY CLERK OFFICES

2013 City of Imperial Beach City-Wide Speed Surveys

March 2013

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Date: 3/20/13 Item No. 3.2
Last Minute Agenda Information

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I. Introduction

The City of Imperial Beach, in conformance with the California Vehicle Code, has requested the following speed survey for selected roadways within the City. Section 40802 of the California Vehicle Code requires that an Engineering and Traffic Survey be conducted every five (5) years on streets where the enforcement of speed limits involves the use of radar or other electronic devices that measure the speed of moving vehicles. The provisions of this section apply to all streets except local streets and roads either defined by the latest functional usage and federal-aid system maps, or which meet certain conditions pertaining to the number of travel lanes, streets width, adjacent land uses and distance between traffic control devices.

An Engineering and Traffic Survey is defined in Section 627 of the Vehicle Code as a survey which shall include consideration of the following traffic engineering measurements:

1. Actual prevailing speeds as determined by traffic engineering measurements
2. Accident records
3. Highway, traffic and roadside conditions not readily apparent to the driver

In order to obtain current information, the City Council contacted KOA Corporation to conduct a comprehensive Engineering and Traffic Survey of speed limits on selected arterial/collector and local streets in the city.

Figure I shows the study segment locations and the existing posted speed limits on each segment.

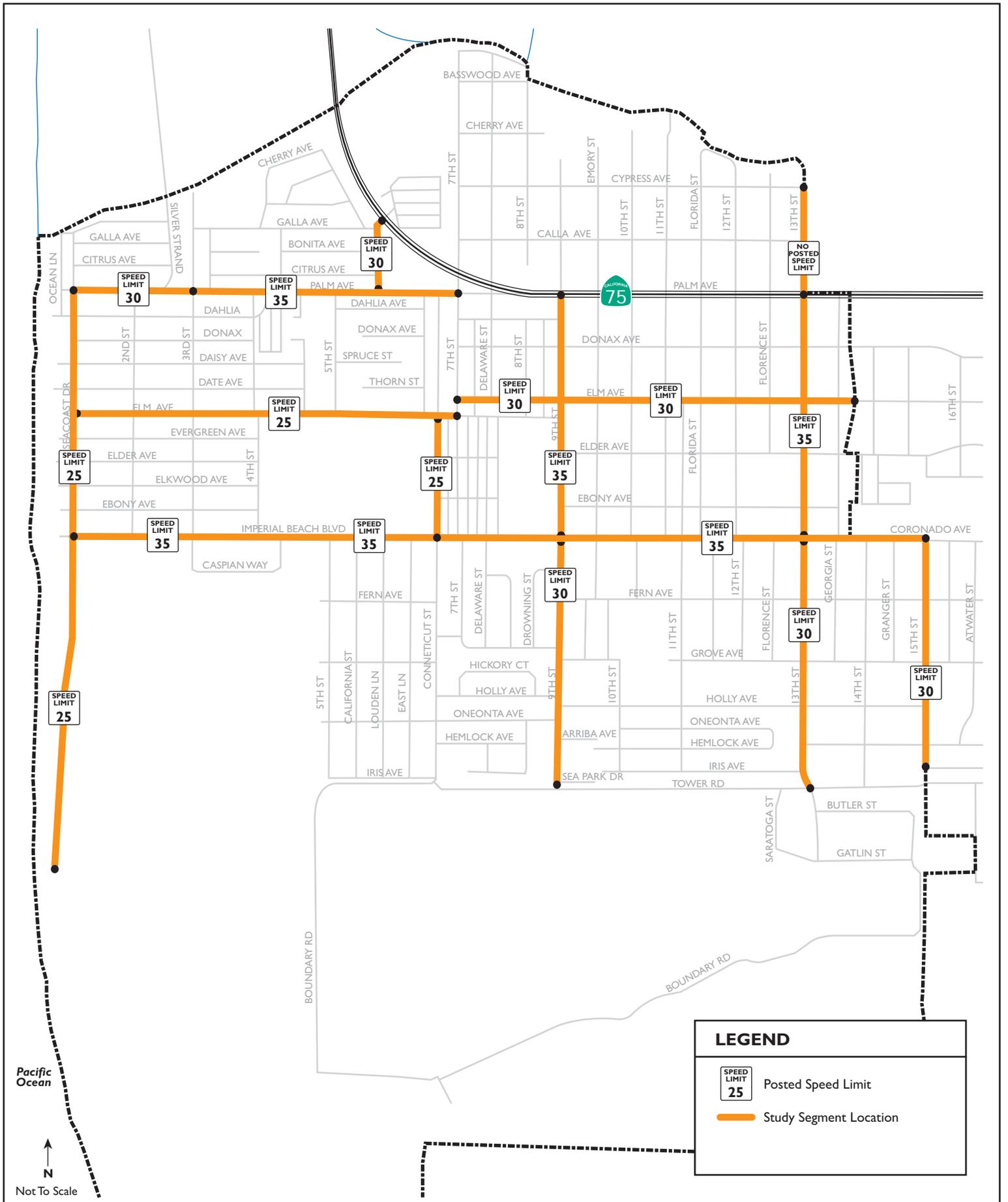


Figure 1
Study Segment Location and Posted Speed Limits

2. Survey Methodology

The procedure used for the Engineering and Traffic Survey is based on the provisions of Section 627 of the California Vehicle Code and on the general guidelines of the State of California Department of Transportation (Caltrans) *Traffic Manual*, Chapter 8. A brief description of the procedure is presented below:

1. Measurement of Actual Prevailing Speeds

The actual speed of 100 vehicles¹ on each street segment was measured using a calibrated radar meter. Both directions of travel were surveyed. From this data, the prevailing or 85th percentile speed (speed at or below which 85 percent of the vehicles sampled were traveling), ten miles per hour pace speed (increment of ten miles per hour containing the greatest number of measurements) and percent of the vehicles in the pace were determined.

2. Accident Records

KOA Corporation reviewed the accident reports provided by the City for the period from January 2009 through December 2011. The number of accidents for each segment was used to calculate the accident rate, which is defined as the number of accidents per million vehicle miles (acc/mvm) of travel on that segment. The total number of accidents per segment does not include intersection accidents, only midblock accidents, and accidents more than 50 feet from an intersection. The accident rate for each segment was then compared to the most recent (2009) average for similar type roads found in Caltrans District II, as taken from the publication “*Collision Data on California State Highways – 2009*” (road miles, travel accidents, accident rates), published by Caltrans. This information is shown on the survey summary sheets.

3. Traffic and Roadside Conditions

Each route was driven and notations made of its features, especially those readily apparent to reasonable drivers, as well as those that might be combined with other factors to justify downward or upward speed zoning. These features are listed in the speed summary sheets for each segment.

¹ Or a minimum of 60 observations if taken on a low volume segment

3. Summary and Recommendations

As a part of the City of Imperial Beach 5-year program, KOA Corporation has performed speed surveys at 16 segment locations. It is recommended that all posted speed limits remain as existing with the exception of the following changes:

- **Palm Avenue from Seacoast to 3rd Street:** Decrease the speed limit from 30 mph to 25 mph based on the surveyed 85th percentile speed.
- **Palm Avenue from 3rd Street to 7th Street:** Increase posted speed limit to 40 mph consistent with 85th percentile speed and new street cross-section. However, since this street is under construction for a completely new character it will be re-surveyed after construction is completed.
- **13th Street north of Palm Avenue/SR75:** Since it does not have a posted speed limit, 13th Street north of Palm Avenue is recommended for a 30 mph limit based on the survey.

Table 1 and Figure 2 show the recommended speed limits on all study segments. Table 2 contains details of accidents, surveyed speeds and the recommended speed limits for each segment. Appendix A contains the summary sheets, photos and speed survey data collected for each segment. Appendix B contains a summary sheet for approximate radar survey locations.

Table I – Recommended Speed Limits

Street	From	To	Direction	Multilane	Survey Count	85th Percentile	Posted Speed	Recommendation	Rationale/Note
13 th St	Cypress Ave	SR75	SB	Yes	100	35	None	Introduce 30 mph	High Crash Frequency
13 th St	Cypress Ave	SR75	NB	Yes	60	34.2	None	Introduce 30 mph	High Crash Frequency
13 th St	SR75	Imp Bch Blvd	NB	Yes	100	36	35	Stay with 35 mph	Use 85th Percentile Speed
13 th St	SR75	Imp Bch Blvd	SB	Yes	100	36	35	Stay with 35 mph	Use 85th Percentile Speed
13 th St	Imp Bch Blvd	Tower Rd	SB	Yes	100	32.2	30	Stay with 30 mph	Use 85th Percentile Speed
13 th St	Imp Bch Blvd	Tower Rd	NB	Yes	100	31	30	Stay with 30 mph	Use 85th Percentile Speed
15 th St	Imp Bch Blvd	Iris Ave	NB/SB	No	63	33.7	30	Stay with 30 mph	Vertical curve geometry
9 th St	SR75	Imp Bch Blvd	NB	Yes	100	41	35	Stay with 35 mph	Vertical curve geometry
9 th St	SR75	Imp Bch Blvd	SB	Yes	100	39	35	Stay with 35 mph	
9 th St	Imp Bch Blvd	South limit	NB	Yes	63	38.7	30	Stay with 30 mph	Maintain posted speed limit due to residential district, school area, pedestrians, end of street
9 th St	Imp Bch Blvd	South limit	SB	Yes	100	39	30	Stay with 30 mph	
Connecticut St	Elm Ave	Imp Bch Blvd	NB/SB	No	100	30	25	Stay with 25 mph	"Prima Facie" 25 mph, but 2 lanes, residential and 40 ft or less in width define it as local residential
Elm Ave	Seacoast Dr	7 th St	EB/WB	No	70	32	25	Stay with 25 mph	"Prima Facie" 25 mph, but 2 lanes, residential and 40 ft or less in width define it as local residential
Elm Ave	7 th St	East city limits	EB/WB	No	71	31	30	Stay with 30 mph	Use 85th Percentile Speed
Imp Bch Blvd	Seacoast Dr	Connecticut St	EB	Yes	70	35	35	Stay with 35 mph	Use 85th Percentile Speed
Imp Bch Blvd	Seacoast Dr	Connecticut St	WB	Yes	70	35.7	35	Stay with 35 mph	Use 85th Percentile Speed
Imp Bch Blvd	Connecticut St	East city limits	EB	Yes	100	38	35	Stay with 35 mph	Consistency with portion west of 9 th St and with City of San Diego posting of 35 mph to the east
Imp Bch Blvd	Connecticut St	East city limits	WB	Yes	100	38.2	35	Stay with 35 mph	

Table I – Recommended Speed Limits (Continued)

Street	From	To	Direction	Multilane	Survey Count	85th Percentile	Posted Speed	Recommendation	Rationale/Note
Palm Ave	Seacoast Dr	3 rd St	EB/WB	No	100	27	30	Lower to 25 mph	Use 85th Percentile Speed
Palm Ave	3 rd St	7 th St	EB/WB	Yes	100	38	35	Recommend 40 mph	Under Construction and new posted speed limit pending completion
Rainbow Dr	SR75	Palm Ave	NB/SB	No	100	34	30	Stay with 30 mph	Not enforceable by radar
Seacoast Dr	Palm Ave	Imp Bch Blvd	NB/SB	No	100	25	25	Stay with 25 mph	Use 85th Percentile Speed
Seacoast Dr	Imp Bch Blvd	Southern terminus	NB/SB	No	70	29	25	Stay with 25 mph	"Prima Facie" 25 mph, but 2 lanes, residential and 40 ft or less in width define it as local residential

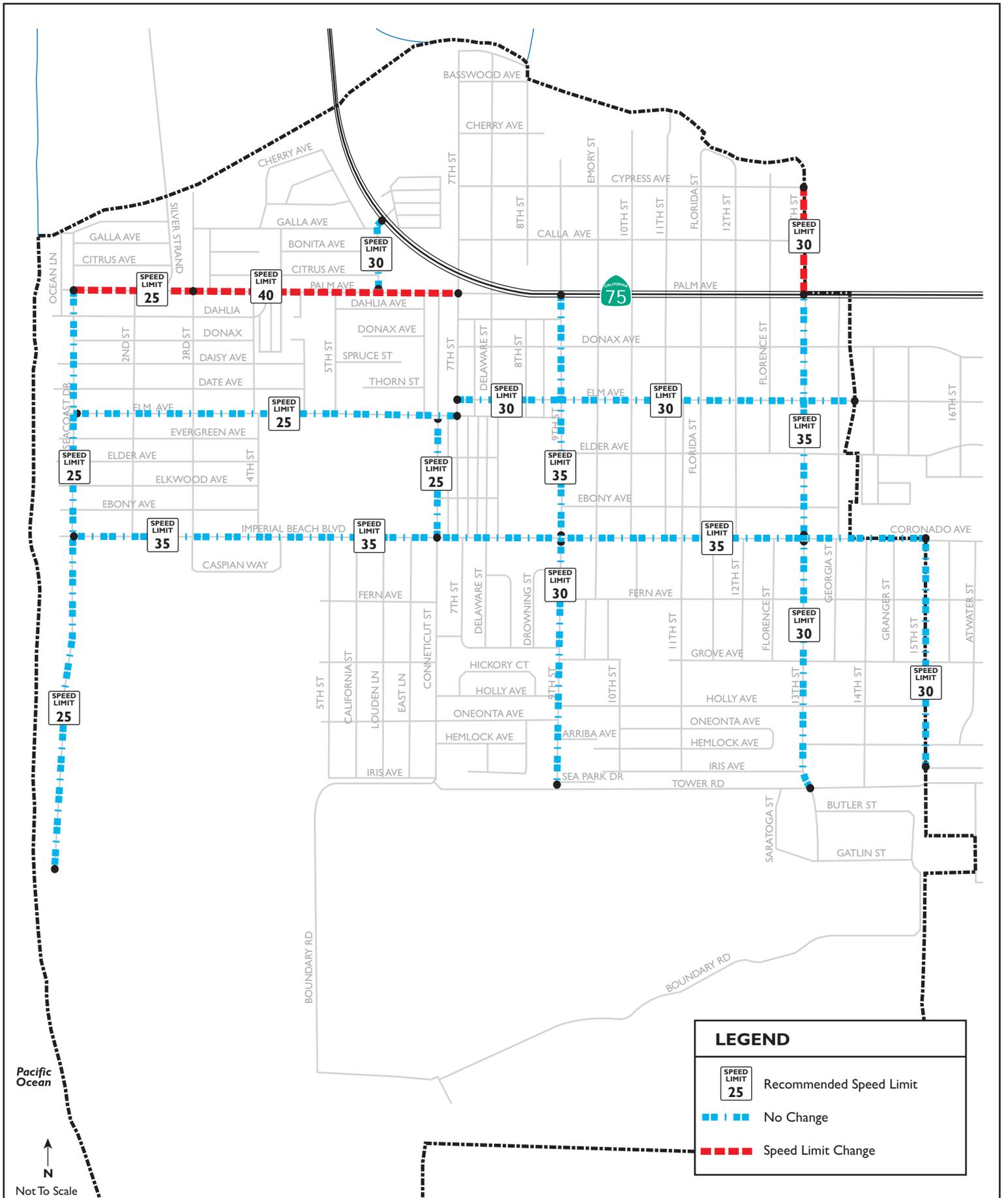


Figure 2
Recommended Speed Limit and Study Segment Locations

Table 2 – Accident Data

Street Segment	From	To	ADT, Weekday	2009-2011 Accidents	Number of Years	Calculated ADT	Length of Segment	Accident Rate	Lanes	Expected Acc Rates
13 th St	Palm Ave	Imp Bch Blvd	9,171	5	3	9,171	2670	0.98	4 UD	1.71
13 th St	Imp Bch Blvd	Iris Ave	10,077	6	3	10,077	3540	0.81	4 UD	1.71
13 th St	Cypress Ave	Palm Ave	1,683	1	3	1,683	1160	2.47	2	1.06
15 th St	Imp Bch Blvd	Iris Ave	2,746	0	3	2,746	2670	0.00	2	1.06
9 th St	Palm Ave	Imp Bch Blvd	6,065	3	3	6,065	2670	0.89	4 UD	1.71
9 th St	Imperial Beach Blvd	Sea Park Dr	3,376	0	3	3,376	2540	0.00	4 UD	1.71
Connecticut St	Elm Ave	Imp Bch Blvd	2,806	0	3	2,806	1310	0.00	2	1.06
Elm Ave	7 th St	East City Limits	2,196	6	3	2,196	4320	3.05	2	1.06
Elm Ave	Seacoast Dr	7 th St	2,466	1	3	2,466	4220	0.46	2	1.06
Imp Bch Blvd	Seacoast Dr	Connecticut St	3,985	7	3	3,985	3990	2.12	2	1.06
Imp Bch Blvd	Connecticut	East City Limits	14,418	15	3	14,418	5890	0.85	4 D	1.42
Palm Ave	Seacoast Dr	3 rd St	13,151	4	3	13,151	1320	1.11	2	1.06
Palm Ave	3 rd St	7 th St	12,672	7	3	12,672	4040	0.66	2	1.06
Rainbow Dr	SR75	Palm Ave	4,325	0	3	4,325	870	0.00	2	1.06
Seacoast Dr	Palm Ave	Imp Bch Blvd	3,534	3	3	3,534	2660	1.54	2	1.06
Seacoast Dr	Imp Bch Blvd	Encanto (to the southern terminus)	2,279	1	3	2,279	3640	0.58	2	1.06

4. Certification

This report constitutes an Engineering and Traffic Survey of speed limits within the City of Imperial Beach. The existing speed limits were reviewed for adequacy in terms of adjacent land use, functional classification, traffic demands, speed surveys along individual roadways and speed limit continuity with neighboring jurisdictions. Traffic and roadside conditions not readily apparent to motorists were also considered.

The data collection technique is in compliance with Division 17, Section 10802 (B) of the California Vehicle Code. The following reference materials were also used in the preparation of this Traffic and Engineering Survey:

1. *California Vehicle Code* – California Department of Motor Vehicles
2. *Traffic Manual* – State of California, Department of Transportation, Sacramento, California, Chapter 8, Section 803.1 through 803.4

All data utilized in this report is on file in the Engineering Department, City of Imperial Beach, 635 South Highway 101, CA 92075

The firm of KOA Corporation on behalf of the City of Imperial Beach has prepared this document.

I, J. Arnold Torma, do hereby certify that I am a Registered Traffic Engineer in the State of California. I have conducted this study for the City of Imperial Beach, and this report was prepared under my supervision. Its contents are true and accurate to the best of my knowledge.



J. Arnold Torma, TE

APPENDIX A

Speed Survey

Segment Information

- **Summary Sheet**
- **Segment Photos**
- **Speed Survey Date**

Street Name: 13 th St		
From Street: SR75 (Palm Ave)		To Street: Imperial Beach Blvd.
<hr/>		
Reviewed By: Date:		J. Arnold Torma 03-11-13
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	02-26-2013	
85 th Percentile	36	36
10 MPH Pace	26-36	28-38
Percent in Pace	55%	69%
Posted Speed Limit	35	35
<hr/>		
Accident History		
Period (From/To)	January 2009	December 2011
<hr/>		
Total Accidents	5	
Acc./Mil. Vehicle Miles	0.98	
Expected Accident Rate	1.71	
<hr/>		
Traffic Factors		
Average Daily Traffic	9,171	
Traffic Controls	Signals at 13 th /Palm, 13 th /Imperial Beach Blvd.	
Crosswalks	13 th /Elder, 13 th /Ebony	
Pedestrian/Bicycle Traffic	Moderate	
On-Street Parking	Both Sides	
Other (bike lanes, trucks, etc.)	None	
<hr/>		
Roadway Factors		
Length of Segment, Feet	2,670	
Street Width, Feet (curb to curb)	64.5	
Number of Lanes	4	
Vertical Alignment	Dip at Elm	
Horizontal Alignment	None	
Sight Distance Restriction	None	
Surface Condition	Fair	
Sidewalks/Driveways	Both Sides	
Other (speed bumps, R/R, etc.)	None	
<hr/>		
Adjacent Land Uses	Commercial, Residential, School on west side north of Ebony	
<hr/>		
Additional Remarks	Speed limit in school zone is 25, between Elder & Imperial Beach Blvd. Street is marked with "SLOW SCHOOL XING" near Elder.	
<hr/>		
Recommendations		
Recommended Speed Limit	35 MPH	
Speed Limit Change	No Change	
<hr/>		

13th Street

From: Donax Avenue

To: Elm Avenue



Looking south from Donax Avenue



Looking north from Elm Avenue

Street Name: 13 th St		
From Street: Imperial Beach Blvd.	To Street: Tower Rd	
<hr/>		
Reviewed By: Date:	J. Arnold Torma 03-11-13	
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	02-07-2013	
85 th Percentile	31	32.2
10 MPH Pace	23-33	23-33
Percent in Pace	72%	64%
Posted Speed Limit	30	30
<hr/>		
Accident History		
Period (From/To)	January 2009	December 2011
<hr/>		
Total Accidents	6	
Acc./Mil. Vehicle Miles	0.81	
Expected Accident Rate	1.71	
<hr/>		
Traffic Factors		
Average Daily Traffic	10,077	
Traffic Controls		
Crosswalks	13 th /Holly	
Pedestrian/Bicycle Traffic	Moderate	
On-Street Parking	Both Sides	
Other (bike lanes, trucks, etc.)	None	
<hr/>		
Roadway Factors		
Length of Segment, Feet	3,540	
Street Width, Feet (curb to curb)	63.7	
Number of Lanes	4	
Vertical Alignment	None	
Horizontal Alignment	None	
Sight Distance Restriction	None	
Surface Condition	Good	
Sidewalks/Driveways	Both Sides	
Other (speed bumps, R/R, etc.)	None	
<hr/>		
Adjacent Land Uses	Residential, some commercial near Imperial Beach Blvd, Naval Air Station at south end	
<hr/>		
Additional Remarks	Street is marked with "SLOW SCHOOL XING" at approach to Holly	
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Recommendations		
Recommended Speed Limit	30 MPH	
Speed Limit Change	No, recommended speed limit is consistent with 85 th percentile speed	
<hr/>		
 PLANNING & ENGINEERING		2013 City of Imperial Beach City-Wide Speed Surveys

13th Street

From: Holly Avenue

To: Hemlock Avenue



Looking south from Holly Avenue



Looking north from Hemlock Avenue

**Imperial Beach
13th Street between Holly Ave. and Hemlock Ave.
Northbound**

MPH	NUMBER OF VEHICLES										PERCENT OF TOTAL	CUMULATIVE PERCENTAGE	
	1	5	10	15	20	25	30						
65													
60													
55													
50													
45													
40													
35	X	X											
	X												
	X	X	X	X	X								
	X	X	X	X									
	X	X	X	X	X	X							
30	X	X	X	X	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X						
	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X					
	X	X	X	X	X	X							
25	X	X	X	X	X	X	X	X	X	X			
	X	X	X	X	X								
	X	X	X										
	X												
20	X	X											
15													
TOTAL NUMBER OF VEHICLES											100		

Street Name: 13 th St		
From Street: SR75 (Palm Ave)		To Street: Cypress Ave
<hr/>		
Reviewed By: Date:		J. Arnold Torma 03-11-13
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	02-26-2013	
85 th Percentile	34.2	35
10 MPH Pace	26-36	26-36
Percent in Pace	72%	58%
Posted Speed Limit	None	None
Accident History		
Period (From/To)	January 2009	December 2011
Total Accidents	1	
Acc./Mil. Vehicle Miles	2.47	
Expected Accident Rate	1.06	
Traffic Factors		
Average Daily Traffic	1,683	
Traffic Controls	Signal at Palm	
Crosswalks	Crosswalks at Palm	
Pedestrian/Bicycle Traffic	Potentially high due to connection to Bay route	
On-Street Parking	Allowed on west side, portions of east side	
Other (bike lanes, trucks, etc.)	No	
Roadway Factors		
Length of Segment, Feet	1,160 (approx.)	
Street Width, Feet (curb to curb)	60 (approx.)	
Number of Lanes	2 southbound, 1 northbound	
Vertical Alignment	Flat	
Horizontal Alignment	Straight	
Sight Distance Restriction	None	
Surface Condition	Good	
Sidewalks/Driveways	West side, portions of east side	
Other (speed bumps, R/R, etc.)	None	
Adjacent Land Uses		
Residential west side; open space, residential east side; comm. on block n/o Palm		
Additional Remarks		
Recommendations		
Recommended Speed Limit	30 MPH	
Speed Limit Change	Reduce by 5 mph from 85 th percentile due to high accident rate	
		2013 City of Imperial Beach City-Wide Speed Surveys

13th Street
From: Calla Avenue **To: Cypress Avenue**



Looking south from Cypress Avenue



Looking north from Calla Avenue

**Imperial Beach
13th Street between Cypress Ave. and Calla Ave.
Southbound**

MPH	NUMBER OF VEHICLES										PERCENT OF TOTAL	CUMULATIVE PERCENTAGE		
	1	5	10	15	20	25	30							
65														
60														
55														
50														
45														
	X												1%	100%
40	X	X											2%	99%
	X	X											2%	96%
	X	X											2%	94%
	X												1%	92%
35	X	X	X	X	X	X							7%	91%
	X	X	X	X									5%	84%
	X	X	X	X	X								6%	79%
	X	X	X	X	X	X	X	X	X	X			12%	73%
	X	X	X	X	X	X	X	X	X	X			12%	61%
30	X	X	X	X	X	X	X						8%	49%
	X	X	X	X									5%	41%
	X	X	X	X	X	X	X	X					9%	36%
	X	X	X	X									5%	27%
	X	X	X	X	X	X	X						8%	22%
25	X												1%	14%
	X	X											2%	13%
	X												1%	11%
	X	X											2%	9%
	X	X	X										4%	7%
20	X	X											2%	4%
	X												1%	1%
15														
TOTAL NUMBER OF VEHICLES												85		

Street Name: 15 th St		
From Street: Imperial Beach Blvd.		To Street: Iris Ave.
<hr/>		
Reviewed By: Date:		J. Arnold Torma 03-11-13
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	02-07-2013	
85 th Percentile	33.2	33.2
10 MPH Pace	20-30	20-30
Percent in Pace	57%	100%
Posted Speed Limit	30	30
<hr/>		
Accident History		
Period (From/To)	January 2009	December 2011
<hr/>		
Total Accidents	0	
Acc./Mil. Vehicle Miles	0.0	
Expected Accident Rate	1.06	
<hr/>		
Traffic Factors		
Average Daily Traffic	2,746	
Traffic Controls	3-way stop at Iris; 2-way stop at Imperial Beach, Grove	
Crosswalks	None	
Pedestrian/Bicycle Traffic	Moderate	
On-Street Parking	Both sides	
Other (bike lanes, trucks, etc.)	None	
<hr/>		
Roadway Factors		
Length of Segment, Feet	2,670	
Street Width, Feet (curb to curb)	52	
Number of Lanes	4	
Vertical Alignment	Sag vertical curve at Holly; Crest vertical curve at Grove	
Horizontal Alignment	None	
Sight Distance Restriction	None	
Surface Condition	Good	
Sidewalks/Driveways	Both sides	
Other (speed bumps, R/R, etc.)	None	
<hr/>		
Adjacent Land Uses	Residential	
<hr/>		
Additional Remarks		
<hr/>		
Recommendations		
Recommended Speed Limit	30 MPH	
Speed Limit Change	No (Reduce by 5 mph from 85 th percentile due to residence district)	

15th Street

From: Hemlock Avenue

To: Holly Avenue



Looking south from Holly Avenue



Looking north from Hemlock Avenue

**Imperial Beach
15th Street between Holly Ave. and Hemlock Ave
North/Southbound (combined)**

MPH	NUMBER OF VEHICLES										PERCENT OF TOTAL	CUMULATIVE PERCENTAGE	
	1	5	10	15	20	25	30						
65													
60													
55													
50													
45													
40													
	X											2%	100%
	X	X										3%	98%
	X	X	X									5%	95%
35	X	X	X									5%	90%
	X											2%	86%
	X											2%	84%
	X	X	X									5%	83%
30	X	X	X	X								6%	78%
	X											2%	71%
	X	X	X	X	X	X	X	X	X	X		14%	70%
	X	X	X									5%	56%
	X	X	X	X								6%	51%
25	X	X	X	X	X	X	X					11%	44%
	X	X	X	X								6%	33%
	X	X	X	X	X							8%	27%
	X											2%	19%
	X	X	X	X								6%	17%
20	X	X	X	X	X	X						10%	11%
	X											2%	2%
15													
TOTAL NUMBER OF VEHICLES											63		

Street Name: 9 th St		
From Street: SR75(Palm Ave)	To Street: Imperial Beach Blvd.	
<hr/>		
Reviewed By: Date:	J. Arnold Torma 03-11-13	
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	02-07-2013	
85 th Percentile	41	39
10 MPH Pace	30-40	29-39
Percent in Pace	54%	60%
Posted Speed Limit	35	35
Accident History		
Period (From/To)	January 2009	December 2011
<hr/>		
Total Accidents	3	
Acc./Mil. Vehicle Miles	0.89	
Expected Accident Rate	1.71	
Traffic Factors		
Average Daily Traffic	6,065	
Traffic Controls	4-way stop at Donax; Signals at Palm, Imperial Beach Blvd.	
Crosswalks	School crossing at 9 th St/Elm	
Pedestrian/Bicycle Traffic	Moderate	
On-Street Parking	Both Sides	
Other (bike lanes, trucks, etc.)	None	
Roadway Factors		
Length of Segment, Feet	2,670	
Street Width, Feet (curb to curb)	67.7	
Number of Lanes	4	
Vertical Alignment	Dip at Imperial Beach Blvd.	
Horizontal Alignment	None	
Sight Distance Restriction	None	
Surface Condition	Good	
Sidewalks/Driveways	Both Sides	
Other (speed bumps, R/R, etc.)	None	
Adjacent Land Uses		
	Multi- and Single-Family Residential	
Additional Remarks		
	Street marked with "SLOW SCHOOL XING" on approach to Elm	
Recommendations		
Recommended Speed Limit	35 mph	
Speed Limit Change	No Change (Reduce 5 mph from 85 th - restricted sight distance (vertical curve))	
		2013 City of Imperial Beach City-Wide Speed Survey

9th Street

From: Encina Avenue

To: Elder Avenue



Looking south from Encina Avenue



Looking north from Elder Avenue

**Imperial Beach
9th Street between Encina Ave. and Elder Ave.
Northbound**

MPH	NUMBER OF VEHICLES										PERCENT OF TOTAL	CUMULATIVE PERCENTAGE		
	1	5	10	15	20	25	30							
65														
60														
55														
50														
	X	X												
	X													
	X	X												
	X													
45														
	X													
	X	X												
	X	X	X											
	X	X	X	X	X	X	X							
40	X	X	X	X	X									
	X	X	X	X	X	X	X							
	X	X	X	X	X	X	X							
	X	X	X	X	X	X								
	X	X	X	X	X									
35	X	X	X	X	X	X	X	X						
	X	X	X	X	X	X	X	X	X	X	X			
	X	X	X	X	X	X								
	X	X	X	X	X	X	X							
	X	X	X	X	X	X								
30	X	X	X	X	X	X	X							
	X	X												
	X	X	X											
25	X													
20														
15														
TOTAL NUMBER OF VEHICLES											100			

**Imperial Beach
9th Street between Encina Ave. and Elder Ave.
Southbound**

MPH	NUMBER OF VEHICLES										PERCENT OF TOTAL	CUMULATIVE PERCENTAGE	
	1	5	10	15	20	25	30						
65													
60													
55													
50													
45	X											1%	100%
	X	X										2%	99%
	X	X										2%	97%
	X	X										2%	95%
40	X	X	X	X								4%	93%
	X	X	X	X	X							5%	89%
	X	X	X	X	X	X	X	X	X			9%	84%
	X	X	X	X	X	X						7%	75%
	X	X	X	X	X	X	X	X				9%	68%
35	X	X	X	X	X	X	X	X	X	X	X	15%	59%
	X	X	X	X	X	X	X	X				9%	44%
	X	X	X	X								4%	35%
	X	X	X	X	X	X	X	X				9%	31%
	X	X	X	X	X	X						7%	22%
30	X	X	X									3%	15%
	X	X	X	X	X							5%	12%
	X	X	X	X	X							5%	7%
	X											1%	2%
25	X											1%	1%
20													
15													
TOTAL NUMBER OF VEHICLES											100		

Street Name: 9 th St		
From Street: Imperial Beach Blvd	To Street: South Limit	
<hr/>		
Reviewed By: Date:	J. Arnold Torma 03-11-13	
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	02-07-2013	
85 th Percentile	38.7	39
10 MPH Pace	N/A	N/A
Percent in Pace	63%	54%
Posted Speed Limit	30	30
<hr/>		
Accident History		
Period (From/To)	January 2009	December 2011
<hr/>		
Total Accidents	0	
Acc./Mil. Vehicle Miles	0.0	
Expected Accident Rate	1.71	
<hr/>		
Traffic Factors		
Average Daily Traffic	3,376	
Traffic Controls		
Crosswalks	School crossing at 9 th /Holly, across Oneonta St.	
Pedestrian/Bicycle Traffic	Moderate	
On-Street Parking	Both Sides	
Other (bike lanes, trucks, etc.)	None	
<hr/>		
Roadway Factors		
Length of Segment, Feet	2,540	
Street Width, Feet (curb to curb)	62.8	
Number of Lanes	4	
Vertical Alignment	Dip at school crossing near Grove	
Horizontal Alignment	None	
Sight Distance Restriction	None	
Surface Condition	Good	
Sidewalks/Driveways	Both Sides	
Other (speed bumps, R/R, etc.)	None	
<hr/>		
Adjacent Land Uses	Residential	
<hr/>		
Additional Remarks	Street marked with "SLOW SCHOOL XING" on approach to Holly	
<hr/>		
Recommendations		
Recommended Speed Limit	35 MPH	
Speed Limit Change	Yes. Reduce 85 th percentile by 5 mph due to residence district, pedestrian activity, presence of an elementary school	
<hr/>		
		2013 City of Imperial Beach City-Wide Speed Surveys

9th Street

From: Fern Avenue

To: Grove Avenue



Looking south from Fern Avenue



Looking north from Grove Avenue

Street Name: Connecticut St		
From Street: Elm Ave	To Street: Imperial Beach Blvd	
<hr/>		
Reviewed By: Date:	J. Arnold Torma 03-11-13	
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	01-24-2013	
85 th Percentile	30	30
10 MPH Pace	20-30	20-30
Percent in Pace	53%	100%
Posted Speed Limit	25	25
Accident History		
Period (From/To)	January 2009	December 2011
Total Accidents	0	
Acc./Mil. Vehicle Miles	0.0	
Expected Accident Rate	1.06	
Traffic Factors		
Average Daily Traffic	2,806	
Traffic Controls	4-way stop at Imperial Beach Blvd; 2-way stop at Elm	
Crosswalks	School crossings at Elder, Elm, Imperial Beach Blvd	
Pedestrian/Bicycle Traffic	High, especially during school start and end times	
On-Street Parking	Both Sides, except in front of school	
Other (bike lanes, trucks, etc.)	None	
Roadway Factors		
Length of Segment, Feet	1,310	
Street Width, Feet (curb to curb)	37.4	
Number of Lanes	2	
Vertical Alignment	Crest vertical curve near Elder	
Horizontal Alignment	None	
Sight Distance Restriction	None	
Surface Condition	Good	
Sidewalks/Driveways	Sidewalks on both sides; Residential driveways on east side; School driveways on west side	
Other (speed bumps, R/R, etc.)	None	
Adjacent Land Uses	Single Family Residential on east side; School on west side	
Additional Remarks	Post "25 Mph When Children are Present"	
Recommendations		
Recommended Speed Limit	25 MPH	
Speed Limit Change	Maintain at 25 mph consistent with 40 ft., 2 lane residential local street	

Connecticut Street

From: Elkwood Avenue

To: Elder Avenue



Looking south from Elder Avenue



Looking north from Elkwood Avenue

**Imperial Beach
Connecticut St. between Elder Ave. and Elkwood Ave.
Norht/Southbound (combined)**

MPH	NUMBER OF VEHICLES							PERCENT OF TOTAL	CUMULATIVE PERCENTAGE
	1	5	10	15	20	25	30		
65									
60									
55									
50									
45									
40									
35	X	X						2%	100%
	X	X						2%	98%
	X	X	X	X	X	X	X	8%	96%
	X	X						2%	88%
30	X	X	X					3%	86%
	X							1%	83%
	X	X	X					3%	82%
	X	X	X	X	X			5%	79%
	X	X	X	X	X	X	X	9%	74%
25	X	X	X	X	X	X	X	13%	65%
	X	X	X	X	X	X	X	12%	52%
	X	X	X	X	X	X		8%	40%
	X	X	X	X	X	X		8%	32%
	X	X	X	X	X	X	X	13%	24%
20	X	X	X	X	X			6%	11%
	X							1%	5%
	X							1%	4%
	X	X						2%	3%
15	X							1%	1%
TOTAL NUMBER OF VEHICLES								100	

Street Name: Elm Ave		
From Street: 7 th St	To Street: East City Limit	
<hr/>		
Reviewed By: Date:	J. Arnold Torma 03-11-13	
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	01-29-2013	
85 th Percentile	31	31
10 MPH Pace	22-32	22-32
Percent in Pace	59%	100%
Posted Speed Limit	30	30
Accident History		
Period (From/To)	January 2009	December 2011
Total Accidents	6	
Acc./Mil. Vehicle Miles	3.05	
Expected Accident Rate	1.06	
Traffic Factors		
Average Daily Traffic	2,196	
Traffic Controls	4-way stop at 7 th , 11 th ; 2-way stop at 13 th , 9 th	
Crosswalks	9 th St, 7 th St	
Pedestrian/Bicycle Traffic	Moderate	
On-Street Parking	Both Sides	
Other (bike lanes, trucks, etc.)	None	
Roadway Factors		
Length of Segment, Feet	4,320	
Street Width, Feet (curb to curb)	64.2	
Number of Lanes	2	
Vertical Alignment	None	
Horizontal Alignment	None	
Sight Distance Restriction	None	
Surface Condition	Good	
Sidewalks/Driveways	Both Sides	
Other (speed bumps, R/R, etc.)	None	
Adjacent Land Uses	Single Family Residential	
Additional Remarks		
Recommendations		
Recommended Speed Limit	30 MPH	
Speed Limit Change	No; Recommended speed limit is consistent with 85 th percentile speed	

Elm Avenue

From: Emory Street

To: 10th Street



Looking east from Emory Street



Looking west from 10th Street

Street Name: Elm Ave		
From Street: Seacoast Dr	To Street: 7 th St	
<hr/>		
Reviewed By: Date:	J. Arnold Torma 03-11-13	
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	01-24-2013	
85 th Percentile	32	32
10 MPH Pace	23-33	23-33
Percent in Pace	68%	100%
Posted Speed Limit	25	25
Accident History		
Period (From/To)	January 2009	December 2011
Speed Related Accidents		
Total Accidents	1	
Acc./Mil. Vehicle Miles	0.46	
Expected Accident Rate	1.06	
Traffic Factors		
Average Daily Traffic	2,466	
Traffic Controls	2-way stop at Seacoast; 4-way stop at 2 nd , 3 rd , 4 th , 5 th	
Crosswalks	Carolina, Connecticut, Encino, 4 th , 5 th , 7 th	
Pedestrian/Bicycle Traffic	High, especially during school start and end times	
On-Street Parking	Both Sides	
Other (bike lanes, trucks, etc.)	None	
Roadway Factors		
Length of Segment, Feet	4,220	
Street Width, Feet (curb to curb)	39.8	
Number of Lanes	2	
Vertical Alignment	None	
Horizontal Alignment	None	
Sight Distance Restriction	None	
Surface Condition	Good	
Sidewalks/Driveways	Sidewalk and driveways on both sides	
Other (speed bumps, R/R, etc.)	None	
Adjacent Land Uses	Single Family Residential, School (south side of street)	
Additional Remarks	Post "25 mph When Children are Present"	
Recommendations		
Recommended Speed Limit	25 MPH	
Speed Limit Change	Maintain at 25 mph consistent with a 2 lane, 40 ft. local residential street	
		2013 City of Imperial Beach City-Wide Speed Surveys

Elm Avenue

From: 4th Street

To: Covina Street



Looking from 4th Street



Looking west from Covina Street

Street Name: Imperial Beach Blvd		
From Street: Seacoast Dr	To Street: Connecticut St	
Reviewed By: Date:	J. Arnold Torma 03-11-13	
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	01-29-2013	
85 th Percentile	35	35.7
10 MPH Pace	25-35	25-35
Percent in Pace	61%	66%
Posted Speed Limit	35	35
Accident History		
Period (From/To)	January 2009	December 2011
Total Accidents	7	
Acc./Mil. Vehicle Miles	2.12	
Expected Accident Rate	1.06	
Traffic Factors		
Average Daily Traffic	3,985	
Traffic Controls	4-way stops at 3 rd St, Seacoast Dr	
Crosswalks	None	
Pedestrian/Bicycle Traffic	High, especially on weekends near Seacoast	
On-Street Parking	Both Sides	
Other (bike lanes, trucks, etc.)	None	
Roadway Factors		
Length of Segment, Feet	3,990	
Street Width, Feet (curb to curb)	64.2	
Number of Lanes	2	
Vertical Alignment	None	
Horizontal Alignment	None	
Sight Distance Restriction	None	
Surface Condition	Good	
Sidewalks/Driveways	Sidewalks on both sides; Few driveways; Bus turnouts near 3 rd St, Imperial Beach	
Other (speed bumps, R/R, etc.)	None	
Adjacent Land Uses	Townhomes and Single-Family homes on both sides; Tijuana Wildlife Center on south side	
Additional Remarks		
Recommendations		
Recommended Speed Limit	35 MPH	
Speed Limit Change	No Change	
	2013 City of Imperial Beach City-Wide Speed Surveys	

Imperial Beach Boulevard
From: 2nd Street To: 3rd Street



Looking east from 2nd Street



Looking west from 3rd Street

Imperial Beach Boulevard
From: 4th Street **To: 5th Street**



Looking east from 4th Street



Looking west from 5th Street

Imperial Beach Boulevard

From: California Street

To: Louden Lane



Looking east from California Street



Looking west from Louden Lane

Street Name: Imperial Beach Blvd		
From Street: Connecticut St	To Street: East City Limit	
Reviewed By: Date:	J. Arnold Torma 03-11-13	
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	03-02-2013	
85 th Percentile	38	38.2
10 MPH Pace	27-37	27-37
Percent in Pace	74%	59%
Posted Speed Limit	35	35
Accident History		
Period (From/To)	January 2009	December 2011
Speed Related Accidents		
Total Accidents	15	
Acc./Mil. Vehicle Miles	0.85	
Expected Accident Rate	1.42	
Traffic Factors		
Average Daily Traffic	14,418	
Traffic Controls	4-way stops at Connecticut St, Signal on 9 th St; Flashing beacons on approach to Connecticut	
Crosswalks	Imperial Beach Blvd, Connecticut	
Pedestrian/Bicycle Traffic	Moderate	
On-Street Parking	Both Sides	
Other (bike lanes, trucks, etc.)	None	
Roadway Factors		
Length of Segment, Feet	5,890	
Street Width, Feet (curb to curb)	62.2	
Number of Lanes	4 lanes east of Connecticut; 2 lanes west of Connecticut	
Vertical Alignment	None	
Horizontal Alignment	None	
Sight Distance Restriction	None	
Surface Condition	Moderate	
Sidewalks/Driveways	Both Sides	
Other (speed bumps, R/R, etc.)	None	
Adjacent Land Uses	Civic Center Buildings, Single and Multi Family Residential	
Additional Remarks		
Recommendations		
Recommended Speed Limit	35 MPH	
Speed Limit Change	No Change	
	2013 City of Imperial Beach City-Wide Speed Surveys	

Imperial Beach Boulevard

From: Delaware Street

To: 9th Street



Looking east from Delaware Street



Looking west from 9th Street

Imperial Beach Boulevard

From: Florida Street

To: 11th Street



Looking east from 11th Street



Looking west from Florida Street

Street Name: Palm Ave		
From Street: 3 rd St	To Street: Delaware Ave	
<hr/>		
Reviewed By: Date:	J. Arnold Torma 03-11-13	
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	01-19-2013	
85 th Percentile	38	38
10 MPH Pace	29-39	29-39
Percent in Pace	60%	100%
Posted Speed Limit	35	35
Accident History		
Period (From/To)	January 2009	December 2011
Speed Related Accidents		
Total Accidents	7	
Acc./Mil. Vehicle Miles	0.66	
Expected Accident Rate	1.06	
Traffic Factors		
Average Daily Traffic	12,672	
Traffic Controls	4-way stop at 3 rd St; Signal at 7 th St; Flashing Beacon at 3 rd St	
Crosswalks	Palm/3 rd (part of Safe Route to School)	
Pedestrian/Bicycle Traffic	Moderate to high, especially during school hours	
On-Street Parking	None	
Other (bike lanes, trucks, etc.)	None	
Roadway Factors		
Length of Segment, Feet	4,040	
Street Width, Feet (curb to curb)	63.3	
Number of Lanes	2	
Vertical Alignment	None	
Horizontal Alignment	None	
Sight Distance Restriction	None	
Surface Condition	Good	
Sidewalks/Driveways	Both Sides	
Other (speed bumps, R/R, etc.)	None	
Adjacent Land Uses	Single Family Residential, Commercial	
Additional Remarks	25 mph speed zone posted near 3 rd St	
Recommendations		
Recommended Speed Limit	40 MPH	
Speed Limit Change	Increase by 5 mph consistent with 85 th percentile, but do new survey after construction	
		2013 City of Imperial Beach City-Wide Speed Survey

Palm Avenue

From: 3rd Street

To: Rainbow Drive



Looking east from 3rd Street



Looking west from Rainbow Drive

Palm Avenue

From: Rainbow Drive

To: 7th Street



Looking east from Rainbow Drive



Looking west from 7th Street

**Imperial Beach
Palm Avenue between 3rd and Rainbow
East/westbound (combined)**

MPH	NUMBER OF VEHICLES										PERCENT OF TOTAL	CUMULATIVE PERCENTAGE	
	1	5	10	15	20	25	30						
65													
60													
55													
50													
45	X	X											
	X												
	X	X											
	X	X	X										
	X	X											
40	X	X	X										
	X	X	X	X	X	X	X						
	X	X	X	X	X	X	X						
	X	X	X	X	X	X	X	X	X	X	X		
35	X	X	X	X	X	X	X	X	X				
	X	X	X	X	X	X							
	X	X	X	X	X	X	X	X					
	X	X	X	X	X	X	X	X	X				
	X	X	X	X	X								
30	X	X	X	X	X								
	X	X	X	X	X								
	X	X	X										
	X	X	X										
25													
	X												
20													
15													
TOTAL NUMBER OF VEHICLES											100		

Street Name: Palm Ave		
From Street: Seacoast Dr	To Street: 3 rd St	
<hr/>		
Reviewed By: Date:	J. Arnold Torma 03-11-13	
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	02-26-2013	
85 th Percentile	27	27
10 MPH Pace	18-28	18-28
Percent in Pace	68%	100%
Posted Speed Limit	30	30
Accident History		
Period (From/To)	January 2009	December 2011
Speed Related Accidents		
Total Accidents	4	
Acc./Mil. Vehicle Miles	1.11	
Expected Accident Rate	1.06	
Traffic Factors		
Average Daily Traffic	13,151	
Traffic Controls	4-way stops at 3 rd , Seacoast	
Crosswalks	3 rd	
Pedestrian/Bicycle Traffic	High, especially on weekends and during school hours near Seacoast	
On-Street Parking	Both Sides	
Other (bike lanes, trucks, etc.)	None	
Roadway Factors		
Length of Segment, Feet	1,320	
Street Width, Feet (curb to curb)	63.3	
Number of Lanes	2	
Vertical Alignment	None	
Horizontal Alignment	None	
Sight Distance Restriction	None	
Surface Condition	Good	
Sidewalks/Driveways	Sidewalks on both sides; Commercial and residential driveways	
Other (speed bumps, R/R, etc.)	None	
Adjacent Land Uses	Commercial and Residential	
Additional Remarks		
Recommendations		
Recommended Speed Limit	25 MPH	
Speed Limit Change	Reduce by 5 mph based on survey	
		2013 City of Imperial Beach City-Wide Speed Survey

Palm Avenue

From: Seacoast Drive

To: 3rd Street



Looking east from Seacoast Drive



Looking west from 3rd Street

Street Name: Rainbow Dr		
From Street: SR75	To Street: Palm Ave	
<hr/>		
Reviewed By: Date:	J. Arnold Torma 03-11-13	
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	01-19-2013	
85 th Percentile	34	34
10 MPH Pace	24-34	24-34
Percent in Pace	54%	100%
Posted Speed Limit	30	30
Accident History		
Period (From/To)	January 2009	December 2011
Total Accidents	0	
Acc./Mil. Vehicle Miles	0.0	
Expected Accident Rate	1.06	
Traffic Factors		
Average Daily Traffic	4,325	
Traffic Controls		
Crosswalks	None	
Pedestrian/Bicycle Traffic	Moderate	
On-Street Parking	Both Sides with restrictions at business zones on east side of street	
Other (bike lanes, trucks, etc.)	None	
Roadway Factors		
Length of Segment, Feet	870	
Street Width, Feet (curb to curb)	47.3	
Number of Lanes	2	
Vertical Alignment	None	
Horizontal Alignment	None	
Sight Distance Restriction	None	
Surface Condition	Good	
Sidewalks/Driveways	Both Sides	
Other (speed bumps, R/R, etc.)	None	
Adjacent Land Uses	Single Family Residential	
Additional Remarks		
Recommendations		
Recommended Speed Limit	30 MPH	
Speed Limit Change	No Change (Not enforceable by radar)	

Rainbow Drive

From: SR-75

To: Palm Avenue



Looking south from SR-75



Looking north from Palm Avenue

Street Name: Seacoast Dr		
From Street: Palm Ave	To Street: Imperial Beach Blvd	
<hr/>		
Reviewed By: Date:	J. Arnold Torma 03-11-13	
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	01-24-2013	
85 th Percentile	25	25
10 MPH Pace	16-26	16-26
Percent in Pace	60%	100%
Posted Speed Limit	25	25
Accident History		
Period (From/To)	January 2009	December 2011
Total Accidents	3	
Acc./Mil. Vehicle Miles	1.54	
Expected Accident Rate	1.06	
Traffic Factors		
Average Daily Traffic	3,534	
Traffic Controls	4-way stops at Seacoast/Imperial Beach, Seacoast/Palm	
Crosswalks	Seacoast/Evergreen	
Pedestrian/Bicycle Traffic	High, especially on weekends	
On-Street Parking	Both Sides, with restrictions in business zones on west side of street	
Other (bike lanes, trucks, etc.)	None	
Roadway Factors		
Length of Segment, Feet	2,660	
Street Width, Feet (curb to curb)	43.1	
Number of Lanes	2	
Vertical Alignment	Dip at Date St	
Horizontal Alignment	None	
Sight Distance Restriction	None	
Surface Condition	Good	
Sidewalks/Driveways	Both Sides	
Other (speed bumps, R/R, etc.)	None	
Adjacent Land Uses	Residential Town Homes; Commercial on west side	
Additional Remarks		
Recommendations		
Recommended Speed Limit	25	
Speed Limit Change	No Change, prima facie commercial	

Seacoast Drive

From: Evergreen Avenue

To: Elder Avenue



Looking south from Evergreen Avenue



Looking north from Elder Avenue

Street Name: Seacoast Dr		
From Street: Imperial Beach Blvd	To Street: Encanto	
<hr/>		
Reviewed By: Date:	J. Arnold Torma 03-11-13	
Prevailing Speed Date	NB/EB	SB/WB
Date of Survey	01-29-2013	
85 th Percentile	29	29
10 MPH Pace	19-29	19-29
Percent in Pace	52%	100%
Posted Speed Limit	25	25
Accident History		
Period (From/To)	January 2009	December 2011
Total Accidents	1	
Acc./Mil. Vehicle Miles	0.58	
Expected Accident Rate	1.06	
Traffic Factors		
Average Daily Traffic	2,279	
Traffic Controls	4-way stop at Seacoast/Imperial Beach Blvd	
Crosswalks	None	
Pedestrian/Bicycle Traffic	High along beach front property, especially on weekends	
On-Street Parking	No parking on west side; parking allowed at south end of segment	
Other (bike lanes, trucks, etc.)	None	
Roadway Factors		
Length of Segment, Feet	3,640	
Street Width, Feet (curb to curb)	43.4	
Number of Lanes	2	
Vertical Alignment	Dips at Admiralty, Encanto	
Horizontal Alignment	None	
Sight Distance Restriction	None	
Surface Condition	Good	
Sidewalks/Driveways	Both Sides	
Other (speed bumps, R/R, etc.)	None	
Adjacent Land Uses	Residential Town Homes; Tijuana Estuary to the east	
Additional Remarks		
Recommendations		
Recommended Speed Limit	25 MPH based on width and 2 lanes (Prima Facie – Residence District)	
Speed Limit Change	No Change	

Seacoast Drive

From: Descanso Avenue

To: Cortez Avenue



Looking north from Descanso Avenue



Looking south from Cortez Avenue

**Imperial Beach
Seacoast Drive between Cortez Ave. and Descanso Ave.
North/Southbound (combined)**

MPH	NUMBER OF VEHICLES							PERCENT OF TOTAL	CUMULATIVE PERCENTAGE
	1	5	10	15	20	25	30		
65									
60									
55									
50									
45									
40									
35									
	X							1%	100%
	X							1%	99%
	X	X	X					4%	97%
30	X	X	X	X	X			7%	93%
	X	X	X	X	X	X		9%	86%
	X	X	X	X				6%	77%
	X							1%	71%
	X	X	X					4%	70%
25	X	X	X	X	X	X		9%	66%
	X	X	X	X	X			7%	57%
	X	X	X					4%	50%
	X	X	X	X	X			7%	46%
	X	X	X	X	X	X	X	11%	39%
20	X	X	X	X	X	X		9%	27%
	X	X	X	X	X	X		9%	19%
	X	X	X	X	X	X		9%	10%
15	X							1%	1%
TOTAL NUMBER OF VEHICLES								70	

APPENDIX B

Speed Survey

Data Collection Location Information

- **Approximate Radar Location**

CITY OF IMPERIAL BEACH
APPROXIMATE RADAR LOCATIONS

Segment	From	To	Between
13 th St	Palm Ave	Imperial Beach Blvd	Elm Ave & Elder Ave
13 th St	Imperial Beach Blvd	Iris Ave	Hemlock Ave & Iris Ave
13 th St	Imperial Beach Blvd	Iris Ave	Fern Ave & Grove Ave
9 th St	Palm Ave	Imperial Beach Blvd	Elm Ave & Elder Ave
9 th St	Imperial Beach Blvd	Sea Park	Fern Ave & Grove Ave
Elm Ave	7 th ST	East City Limits	Florida St & 12 TH St
Elm Ave	Seacoast Dr	7 th St	3 RD St & 4 TH St
Imperial Beach Blvd	Seacoast Dr	3 rd St	2 ND St & 3 RD St
Imperial Beach Blvd	9 th St	East City Limits	Florida St & 12 TH St
Imperial Beach Blvd	3 rd St	9 th St	4 TH & California
Palm Ave	Seacoast Dr	3 rd St	2 ND St & 3 RD St
Palm Ave	3 rd St	Delaware Ave	4 TH St & 5 TH St
Rainbow Dr	SR 75	Palm Ave	Citrus Ave & Bonita Ave
Seacoast Dr	Palm Ave	Imperial Beach Blvd	Evergreen Ave & Elder Ave
Seacoast Dr	Imperial Beach Blvd	Encanto (to the end)	Cortez Ave & Descanso Ave