

QUIET ZONE STUDY FOR DOLTON AND RIVERDALE

October 2020







Prepared For

The Villages of Dolton and Riverdale

Prepared By

Urban Transportation Center, University of Illinois at Chicago And South Suburban Mayors and Managers Association

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About The South Suburban Mayor's and Managers Association



Located south of the City of Chicago, the South Suburban Mayors and Managers Association (SSMMA) is an intergovernmental agency providing technical assistance and joint services to 42 municipalities representing a population more than 650,000 in Cook and Will Counties. SSMMA members work cooperatively on transportation, legislation, land use, economic development, recycling, purchasing, stormwater and open space planning, infrastructure, human resources, public safety, geographic information system (GIS) services and housing issues.

South Suburban Mayors & Managers
1904 W. 174th St.

East Hazel Crest, IL 60429 Phone: 708-922-4677

Fax: 708-206-1133

http://ssmma.org/

About the Urban Transportation Center



Urban Transportation Center

The Urban Transportation Center (UTC) is a research unit dedicated to innovative transportation research and education that provides technical assistance on urban transportation planning, policy, operations, finance, and management. Part of the College of Urban Planning & Public Affairs at the University of Illinois at Chicago (UIC), the UTC is a nationally-recognized innovator in research, education and engagement that benefits transportation networks in cities and metropolitan areas across America.

The Urban Transportation Center
University of Illinois at Chicago
412 S. Peoria St., Suite 340
Chicago, IL 60607

www.utc.uic.edu

About Invest in Cook Grant Program from Cook County Department of Transportation and Highways





Invest in Cook grant program encourages transportation investments that support the County's priorities, including transit, cycling and freight transportation. Invest in Cook grants help municipalities further their transportation projects by covering the cost of planning, engineering, right-of-way acquisition and construction associated with transportation improvements sponsored by local governments and private partners. Cook County Department of Transportation and Highways has expanded its traditional focus on its own roads and bridges to partner with local communities to build and maintain a comprehensive transportation network that addresses the need for pedestrian, bicycle, transit and freight facilities as well.

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Executive Summary

Two phases comprised the Quiet Zone (QZ) study. Phase I used Federal Railroad Administration (FRA) data that was current at the time of issue. Phase II is a refinement of Quiet Zone analyses involving ten at-grade, railroad-highway crossings (RHC) in Dolton and Riverdale using updated FRA data and supplemental field data that includes pedestrian and bicycle traffic. Additionally, Phase II incorporates recommended Supplemental Safety Measures (SSM) treatments and estimated costs for each site using refinements.

The goal of QZ Phase II is twofold: (1) the determination of an optimal SSM treatment for each site that is customized to reflect community feedback, updated geometry, demand, and land use at each unique site, and (2) once an SSM treatment is recommended for each site based on a stakeholder bus tour and meeting, project cost estimates are made by site by phase.

Based on QZ analyses from updated information from the FRA, Illinois Commerce Commission (ICC), and railroads and subsequent information from the stakeholder bus tour and meetings, the following recommendations are presented at each of the nine, at-grade, rail-highway crossings along with estimated costs by site by phase.

1. For Union Pacific Railroad 138th Street, Dolton, Chicago, DOT# 840146L site.

Mountable Medians with Retroreflective Traffic Channelization Devices and Two Cantilevered Flashing Light Signals are recommended. The estimated QZ costs including cantilevered flashing light signal material cost for Phase I is \$15,000, Phase II is \$16,566, and Phase III is \$138,047.

2. For Union Pacific Railroad Lincoln Avenue, Dolton, DOT# 840147T site.

The recommendation is Non-Traversable Curb Medians with Channelization Devices. QZ Phase I cost is \$15,000, Phase II \$9,131, and Phase III is \$76,095.

3. For Union Pacific Railroad 142nd Street, Dolton, DOT# 167450K site.

Four-Quadrant Gates Upgrade from Two Quadrant gates with Vehicle Presence Detection, pedestrian gates with anti-trespassing signage, and Pedestrian overpass are recommended. The estimated QZ costs excluding pedestrian gates with anti-trespassing signage and pedestrian overpass costs for Phase I is \$15,000, Phase II \$66,245, and Phase III \$552,040.

4. For Union Pacific Railroad 144th Street, Dolton, DOT# 167451S site.

Four-Quadrant Gates Upgrade from Two Quadrant Gates with Vehicle Presence Detection, and four pedestrian gates with anti-trespassing signage are recommended. The estimated QZ costs excluding pedestrian gates with anti-trespassing signage costs for Phase I is \$15,000, Phase II \$66,245, and Phase III \$552,040.

5. For the sole Indiana Harbor Belt Railroad Indiana Avenue near 140th Street, Dolton, Riverdale, DOT# 326894T site.

Four-Quadrant Gates Upgrade from Two Quadrant Gates, with Medians and Vehicle Presence Detection, Two Cantilevered Flashing Light Signals, and four pedestrian gates with anti-trespassing signage are recommended. The estimated costs including Cantilevered Flashing Light Signals' material cost and excluding pedestrian gates with anti-trespassing signage for Phase I is \$15,000, Phase II \$82,220, and Phase III \$685,163.

6. For CSX Transportation Indiana Avenue and 138th Street, Dolton, Riverdale, Chicago, DOT# 163611P site.

The site has the following recommendation Mountable medians with Reflective Traffic Channelization Devices for 138th St approaches, Non-Traversable Curb Medians with Channelization Devices for Indiana Ave., Four Cantilevered Flashing Light Signals' and eight pedestrian gates. The estimated costs for Mountable medians with Reflective Traffic Channelization Devices for 138th St approaches and Non-Traversable Curb Medians with Channelization Devices for Indiana Ave. including Cantilevered Flashing Light Signals' material cost and excluding pedestrian gate costs are for Phase I \$15,000, Phase II \$37,697, and Phase III \$314,142.

7. For CSX Transportation 137th Street, Riverdale, DOT# 163610H site.

The recommendations are Four-Quadrant Gates Upgrade from Two Quadrant Gates with Vehicle Presence Detection and four pedestrian gates with anti-trespassing signage. The estimated QZ costs excluding pedestrian gates with anti-trespassing signage for Phase I is \$15,000, Phase II \$66,245, and Phase III \$552,040.

8. For CSX Transportation Lincoln Avenue and Park Avenue, Dolton, DOT# 163612W site. The recommendations are Four-Quadrant Gates Upgrade from Two Quadrant Gates with Vehicle Presence Detection, Four pedestrian gates with anti-trespassing signage, and Pedestrian overpass. The QZ estimated costs excluding pedestrian gates with anti-trespassing signage and Pedestrian overpass for Phase I is \$15,000, Phase II \$66,245, and Phase III \$552,040.

9. For CSX Transportation Perry Avenue, Riverdale, DOT# 163609N site.

The recommendation is Four-Quadrant Gates New Installation with Vehicle Presence Detection. The estimated QZ cost for Phase I is \$15,000, Phase II \$99,367, and Phase III \$828,061.

Here are the total estimated QZ costs for the three railroad corridors

- Phase I -- \$135,000
- Phase II \$509,960
- Phase III -- \$4,249,669

These estimated QZ costs are for budgetary purposes only. Actual costs charged by contractors and consultants greatly vary.

Introduction

Study Background and Purpose

The Dolton and Riverdale areas are part of the industrial downtown of Cook County. Three major modes, i.e., water, rail, and truck move and transfer freight. Freight by water arrives and departs via Lake Calumet, Calumet River, and the Little Calumet River. Major rail centers in the area are Chicago Intermodal Terminal, Indiana Harbor Belt (IHB) Blue Island Yard, Union Pacific (UP) Yard Center, Chessie Seaboard X (CSX) Barr Yard, and Riverdale CSX Yard. Major highways provide truck access to the two areas such as I-94, I-57, I-294, I-80, I-90, IL-83, IL-1, US-6, and US-41.

Dolton and Riverdale contain or share ten at-grade rail-highway crossings of interest. The Perry Ave. and 137th St. crossings completely reside in the Village of Riverdale. Crossings entirely residing in the Village of Dolton are Cottage Grove Ave., 144th St., 142nd St., Lincoln/Park Ave, and Lincoln Park Ave. near Forest Ave. Jurisdictions share three sites. For the Indiana Ave. and 138th St. crossing, half resides in Dolton, one fourth resides in Riverdale, and the remaining share in Chicago. Regarding the 138th St. site, half resides in Dolton and half in Chicago. For the third shared site, Indiana Ave. near 140th St., half is in Dolton and half resides in Riverdale. The movement of rail freight at the crossings in these two areas causes substantial vehicle delays for residents, truckers, PACE bus passengers, and local businesses. Further, residents delayed at the at-grade rail-highway crossings hinder access to Metra's Riverdale and Ivanhoe stations.

Located in south suburban Cook County, the Village of Dolton and Village of Riverdale are investigating options to improve safety at at-grade rail crossings and to minimize the impact of train horn noise throughout their communities. The Federal Railroad Administration (FRA) in 2005 issued *Quiet Zone Final Rule* that offers an opportunity to accomplish this objective. The purpose of the study is to explore the potential for implementation of quiet zones in these communities.

Two phases comprised the study. Phase I used FRA data that were current at the time of issue. Phase II is a refinement of Quiet Zone analyses involving ten at-grade, railroad-highway crossings (RHC) in Dolton and Riverdale using updated FRA data and supplemental field data that includes pedestrian and bicycle traffic. Additionally, Phase II incorporates recommended Supplemental Safety Measures (SSM) treatments and estimated costs for each site using refinements.

The goal of Quiet Zone (QZ) Phase II is twofold: (1) the determination of an optimal SSM treatment for each site that is customized to reflect community feedback, updated geometry, demand, and land use at each unique site, and (2) once an SSM treatment is recommended for each site based on a stakeholder bus tour and meeting, project Phase I cost estimates are made.

In 1994, Congress enacted the Swift Rail Development Act, Public Law 103-440, which mandates the use of locomotive horns at public grade crossings for the safety of pedestrians and motorists. FRA made reasonable exceptions when the USA government enacted *Quiet Zone Rule* effective on June 24, 2005 and was last amended on August 17, 2006 under code of Federal Regulations. Quiet zones are rail line sections that contain one or more consecutive public crossings at which locomotive horns are not regularly sounded (Federal Railroad Administration, 2005).

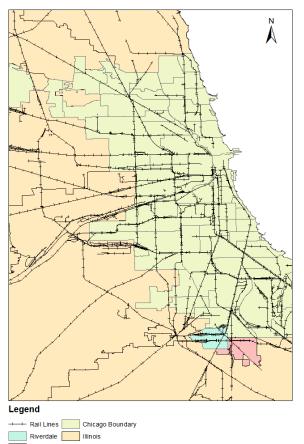
For the establishment of a new quiet zone, there are guidelines and minimum requirements stated in the rulebook after which a crossing can be eligible to be a quiet zone. Once the quiet zone is established, one cannot add or remove crossings from that zone; rather than extending a quiet zone, new quiet zone would need to be established. Any revision to quiet zones must go through the FRA process for approval. There are pre- and post-minimum requirements to be quiet zone eligible. The requirements are as follows (Federal Railroad Administration, 2005):

- A Quiet Zone corridor must have minimum length of ½ mile.
- All public highway rail grade crossing must have active warning devices such as flashing lights, gates, constant warning-time circuitry and power-out indicators.

- Each highway approaching to public and private highway-rail grade crossing with quiet zone shall be equipped with Manual on Uniform Traffic Control Device (MUTCD) compliant advance warning signs such as "train horns are not sounded at the crossing (U.S. Department of Transportation, 2019)."
- Public highway-rail grade crossing with pedestrian traffic must retain automatic bells in working condition.
- Public highway-rail grade crossing must be equipped with MUTCD complaint warning sign that advise pedestrians that train horns are not sounded.

Study Context

The Village of Dolton and Village of Riverdale, known by many as 'The Gateway to the South Suburbs' is located approximately 22 miles (35 km) south of downtown Chicago. Due to its close proximity to the City of Chicago, Village of Dolton and Village of Riverdale became home to many railroad companies. Figure 1 shows the location of both Villages. The southern part of Cook County sees a large portion of freight movement annually since it connects to regional, national, and international markets by two major intermodal terminals, multiple freight and transit lines and expressways. Two major railyards reside in Village of Dolton and Village of Riverdale for train switching and intermodal facilities. The heavy train movement and longer horn blasts in these communities are significant threat to public health and hampers social and economic development. The grade crossings within those communities have, on average, 350 - 400 freight trains per day that carries an average 100 to 130 cars.



Eleven at-grade crossings exist within those communities and, as a part of the study process, ten at-grade crossings were identified for the quiet zone study. The eleventh rail crossing on South Halsted Street has an over-bridge. The crossings include eleven mainline and six spur lines on three separate railroad divisions (Illinois Commerce Commission, 2019). Four crossings are located along the UP railroad corridor, four in the CSX railroad corridor, and one crossing in the IHB railroad corridor. One crossing, i.e., Cottage Grove Avenue, is shared by the CSX and IHB corridors. Figure 2 illustrates the crossings included where a quiet zone could be implemented.

Figure 1. Location Map of Riverdale and Dolton



Figure 2. Location of Grade Crossings in Study Area

The train horn noise is a serious source of annoyance for many residents, particularly when it interferes with sleep. During nighttime, an average of 175 trains pass through both communities. Noise pollution is also one of the contributing factor to the degradation of quality of life (John W.P. Redden, 2005). As per the FRA regulations, locomotive engineers are required to sound horn in advance of a crossing with the blasts of two long horns, followed by a short blast, and then followed by one long blast. FRA requires the horn to produce a minimum sound level of 96 db and a maximum of 110 db at 100 feet (30 m) forward of the locomotive (Federal Railroad Administration, 2005). Figure 3 shows the impact of train horn noise, intensity versus distance.

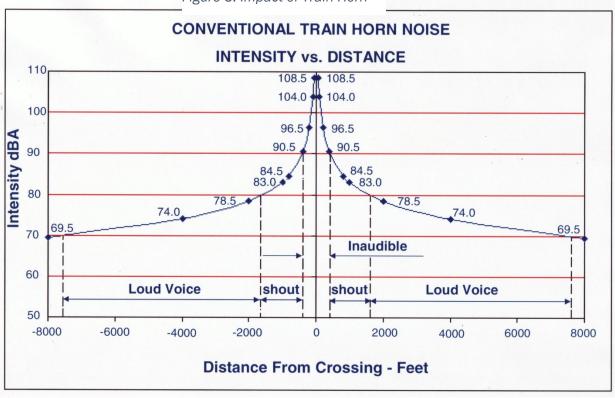


Figure 3. Impact of Train Horn

The following calculations summarize the cumulative impact of train horn noise in the Village of Dolton and Village of Riverdale. Ten at-grade crossings have total 476 trains per day. Approximately 190 trains pass through communities during daytime and approximately 200 trains during nighttime. The number of crossing horn blasts is: two long, one short and one long, i.e., $476 \times 4 = 1,904$ Horn Blast per Day. Out of 1,904 blasts, every night there are 784 Horn Blasts. Note that these calculation results are minimum values. If a train reaches the

crossing before completing the sequence, locomotive engineers must repeat the horn blast sequence.

Figure 4 shows the at-grade crossings in the study area and the impact of train horn noise in decibels (dBA) versus distance. When the train horn is blown, it makes sound more than 110 dBA. For comparison, a normal conversation occurs in a range from 60 to 70 dBA. A loud voice is between 70 and 80 dBA, and person shouting is between 80 and 90 dBA. An audible conversation usually ceases when background noise exceeds 90 dBA (John W.P. Redden, 2005). As seen in the below map, the train horn sound affects the neighboring communities.

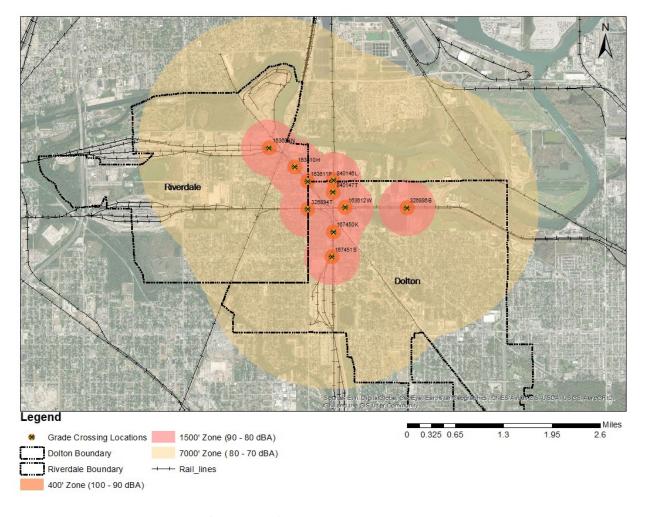


Figure 4. Impact of Train Horn in Dolton and Riverdale

FRA Quiet Zone Process

The Quiet Zone Application Process

This section of the report identifies the requirements of establishing quiet zone along rail corridors. There are two alternative methods to establish a quiet zone: public authority designation and FRA approval. The authority responsible for safety and maintenance of roadway is the only entity that can apply for a quiet zone. Citizens, private companies, neighborhood association cannot create a quiet zone without the local roadway authority. In the public authority designation method, each grade crossing within the quiet zone should install a SSM treatment that complies with various notices and requirements set under FRA Final Quiet Zone Rule. Because it requires an SSM at every crossing, this method is typically the most expensive.

For the greater flexibility in using SSMs and Alternative Safety Measures (ASMs), one can use the FRA approval method. In this method, the local jurisdiction can use a combination of SSMs and ASMs or nothing at some crossings and still include it within a quiet zone. As long as the implementation of SSMs and ASMs as a whole reduces the risk and compensate for the absence of locomotive horn that FRA allows establishing a quiet zone. Selection of an ASM requires an FRA application whereas SSM selection does not require a special FRA application.

In both methods, the requestor must send a series of notices to interested parties. The notices include the notice of intent to create a quiet zone, notice of quiet zone establishment, and procedure depicting establishment of quiet zone. After the development of the final set of recommendations at each crossing, a Notice of Intent is sent to FRA, the pertinent railroad(s), Illinois Department of Transportation (DOT) and other agencies having jurisdiction.

Existing Conditions

To determine future safety improvements necessary for a potential quiet zone, examination of existing characteristics for each at-grade crossing is important. To accomplish this goal,

the team and stakeholders conducted an initial field site visit at all the grade crossings and related information was collected using secondary sources such as FRA accident data, United States (US) DOT and Illinois Commerce Commission (ICC) grade crossing inventories. These inventories document train movement, train speed, location, safety device present, traffic information, and physical characteristics for each crossing. Appendix "A-1.5 ICC Grade Crossing Inventory" provides ICC data for each crossing. The FRA and ICC maintain an inventory and database of accident history for all railroad crossings in their jurisdictions. Since 2012, the database shows that there have been eight accidents at public grade crossings within the study limits (Illinois Commerce Commission, 2019). Most traffic crashes occurred in the evening or night and those were train to vehicle collisions. Appendix "A-1.3 Site Crash Histories" shows the details of the database of collision history.

Out of ten at-grade crossings, two of those at-grade crossings are already under the quiet zone according to the ICC grade crossing inventory database. The one at-grade crossing is on Indiana Avenue near 140th Street and other at Park Avenue and Lincoln Avenue as shown in Figure 5.



Figure 5. Map of Crossings under Horn Ban List

Table 1 lists quiet zone eligibility status for each crossing in the study area, whether each crossing meets the minimum requirements listed for new quiet zone, or if not, what improvements are needed in order to meet these requirements. Grade crossing, American Association of Railroads (AAR) 163609N, on Perry Avenue only has flashing lights and does not have gates nor constant warning time (CWT) circuitry for the new quiet zone rule. All public at-grade crossings MUST have GATES installed. The road at the Perry Avenue rail crossing does not have high average daily traffic (ADT); people working in railyard use the road. Otherwise, based on Table 1 information, the remaining seven, at-grade crossings are eligible for establishing a new quiet zone.

Grade Crossing Details

The following is an overview of the existing conditions for each at-grade crossings under potential quiet zone. It depicts the rail and highway characteristics, existing crossings safety features and others issues that may affect the implementation of a quiet zone. The details of two grade crossings already under quiet zone are in Appendix "A-1.6 Description of Crossings Currently under Quiet Zone."

Table 1. Pre-Quiet Zone Crossing Requirements

Street	Railroad	Meets Pre-Quiet Zone requirements			
		Gates	AFLS	Power Out	Constant Warning
				Indicators	Time Circuitry
138 th St, Dolton, Chicago	UP	X	X	X	X
Lincoln Ave, Dolton	UP	X	X	X	X
137 th St, Riverdale	CSX	X	X	X	=
142 nd St, Dolton	UP	X	X	X	X
E 144 th St, Dolton	UP	X	X	X	X
Perry Ave, Riverdale	CSX	-	X	X	-
Indiana Ave near 140 th St, Dolton and Riverdale	IHB	Х	Х	X	Х
Cottage Grove Ave, Dolton	IHB	X	X	X	X
Cros	sings Curre	ently und	er Quiet	Zone	
Indiana Ave and 138 th St,	CSX	Х	Х	X	Х
Dolton, Riverdale, Chicago	33/	^		^	, ,
Lincoln Ave and Park Ave, Dolton	CSX	X	Х	X	Х

UP Corridor

138th Street Rail-Highway Crossing Description, DOT# 840146L, UP Railroad

The site is located latitude 41.6445930° and longitude -87.6123180° that is on the border between Dolton and Chicago, Illinois, and in the County of Cook. 138th Street is an east-west oriented street that traverses the boundary of Dolton Village. There are two main UP tracks at this location. On average, 12 trains pass through this crossing, six in the daytime and six during night. The crossing is equipped with two-quadrant gates, bells, flashing lights, cross bucks, and other required advance warning signs. There are no curbs and pedestrian gates present at this crossing. The surrounding land-use consists of residential and industrial area. This roadway being a major collector consists of 14% truck traffic and have posted speed limit of 35 mph. Figure 8, Figure 6, and Figure 7 show the existing roadway and railway legs The crossing meets the minimum to crossings. requirement of MUTCD guidelines for passive devices. Table 2 shows the crossing information from FRA and ICC grade crossing inventory with updated train counts from UP (Union Pacific Railroad, 2020).



Figure 8. 138th Street RR Crossing



Figure 7. 138th Street East Leg



Figure 6. 138th Street West Leg

As for utilities, low-voltage lines and poles run along the southern side of 138th Street approaching the at-grade, railroad crossing from the west. Near the crossing, a power line traverses 138th Street and then continues along the north side of 138th Street. Streetlights are along both sides of 138th Street west of the crossing. Underground water pipes are along the northern side of 138th Street.

Table 2. 138th Street Rail-Highway Crossing Information

Roadway		Railroad			
AADT	1900	Total Trains per Day	12		
% Trucks	16	Total Switching	0		
Posted Speed (mph)	35	Max Train speed (mph)	20		
# of Lanes	2	# of Tracks	2		
Highway type	Collector	Crossing Surface	Concrete		
	Intersection				
Exposure Factor ¹		22,800			
Total Accidents (5 years)		0			
Warning Devices		AFLS/Gates/Cross bucks			

Source: FRA Web based Quiet Zone and ICC Grade Crossing Inventory

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¹ Exposure Factor = Average annual daily traffic* Number of trains per day

Lincoln Avenue Rail-Highway Crossing Description, DOT# 840147T, UP Railroad

The site is located latitude 41.6430440° and longitude -87.6123090° on Park Avenue near Forest Avenue that is in Dolton, Illinois and in the County of Cook. This crossing has two, north-south, main tracks traversing Lincoln Avenue. These tracks carry average 12 trains per day with trains approximately 7,000 feet (2,134 m) long. crossing is equipped with flashing lights on cantilever, twoquadrant gates, bells, sidelights, cross bucks, road markings and two pedestrian gates on alternative sides with proper curbs reaching the crossing. Two intercity Amtrak passenger trains pass through this crossing. Figure 9, Figure 10, and Figure 11 show the existing roadway legs and The crossing meets the minimum railway crossings. requirement of MUTCD guidelines for passive devices. Table 3 shows the crossing information from FRA and ICC grade crossing inventory with updated train counts from UP (Union Pacific Railroad, 2020).



Figure 10. Lincoln Ave. East Leg



Figure 9. Lincoln Ave. RR Crossing



Figure 11. Lincoln Ave. West Leg

As for utilities, low-voltage lines and poles are along the northeastern side of Lincoln Avenue; low-voltage lines string across Lincoln Avenue at the railroad crossing. Underground water pipes are along the southwestern side of Lincoln Avenue. Light poles are on both sides of Lincoln Avenue. High voltage wires string across the crossing from high masts. Other utility poles run along the southeaster side of Lincoln Avenue.

Table 3. Lincoln Ave Rail-Highway Crossing Information

Roadway		Railroad		
AADT	3600	Total Trains per Day	12	
% Trucks	13	Total Switching	0	
Posted Speed (mph)	25	Max Train speed (mph)	20	
# of Lanes	2	# of Tracks	2	
Highway type	Collector	Crossing Surface	Concrete	
	In	tersection		
Exposure Factor	Exposure Factor 43,200			
Total Accidents (5 years)		s) 0		
Warning Devices	/arning Devices Cantilever			
		AFLS/Gates/Sidelights/Cross		
		Bucks/Pedestrian Gates		

Source: FRA Web based Quiet Zone and ICC Grade Crossing Inventory

142nd Street (Main Street) Rail-Highway Crossing Description, DOT# 167450K, UP Railroad

The site is located latitude 41.6371520° and longitude -87.6123600° that is in Dolton, Illinois, and in the County of Cook. There are two main and two spur tracks on this crossing. This crossing cuts the E 142nd street, which is a minor arterial highway with the posted speed limit of 30. This crossing is equipped with flashing lights on cantilever, two-quadrant gates, bells, and sidelights, cross bucks, road markings and pedestrian gate on one side with proper curbs reaching the crossing. The land use adjacent to this crossing is residential, industrial and a school. As there is a railyard within 0.5 miles, highway number of train switching takes place causing delays to the motorist. Figure 13, Figure 12, and Figure 14 show existing roadway legs and railway crossing. The crossing meets the minimum requirement of MUTCD guidelines for passive devices. Table 4 shows the crossing information from FRA and ICC grade crossing inventory with updated train counts from UP (Union Pacific Railroad, 2020).



Figure 12. E 142nd St East Leg



Figure 13. E 142nd St. RR Crossing



As for utilities, low-voltage lines and poles are along the south side of 142nd Street and hang across the four railroad tracks. Low-voltage lines and poles run parallel on both sides of the tracks, and their lines string across 142nd Street at the railroad crossing. Streetlight poles

stand on the north side of 142nd Street west of the crossing and on the south side east of the crossing. Underground water pipes are along the north side of 142nd Street east of the crossing and on the south side west of the crossing.

Table 4. E 142nd St. Rail-Highway Crossing Information

Roadw	ay	Railroad		
AADT	5900	Total Trains per	27	
		Day		
% Trucks	4	Total Switching	10	
Posted Speed	30	Max Train speed	20	
(mph)		(mph)		
# of Lanes	2	# of Tracks	4	
Highway type	Principal	Crossing Surface	Concrete	
	Arterial			
	Inte	ersection		
Exposure Factor	r	159,300		
Total Accidents	(5 years)	0		
Warning Device	S	Cant AFLS/Gates/Cross		
		Bucks/Pedestrian Gate		

Source: FRA Web based Quiet Zone and ICC Grade Crossing Inventory

144th Street Rail-Highway Crossing Description, DOT# 167451S, UP Railroad

The site is located latitude 41.6335090° and longitude -87.6123590° that is in Dolton, Illinois and in the County of Cook. This crossing traverses E 144th street with two main tracks and four spur lines. On average, 27 trains pass through this crossing, out of which switching of 10 trains takes place. This crossing is equipped with flashing lights, two-quadrant gates and cross bucks. There are no advance warning signs and road markings prior to this crossing. No pedestrian gates exist at this crossing is surround by commercial and residential area. In the past five years, one train to vehicle accident on this crossing occurred. Figure 16, Figure 15, and Figure 17 show the existing roadway legs and railway crossing. The crossing does not meet the minimum requirement of MUTCD guidelines for passive devices. Table 5 shows the crossing information from FRA and ICC grade crossing inventory with updated train counts from UP (Union Pacific Railroad, 2020).



Figure 16. E 144th St. East Leg



Figure 15. E 144th St. RR Crossing



Figure 17. E 144th St. West Leg

As for utilities, low-voltage lines and poles are along the north side of 144th Street and hang across the six railroad tracks. Low-voltage lines and poles run parallel on the western side of the tracks, and their lines string across 144th Street at the railroad crossing. Streetlights are

on both sides of 144th Street. Underground water pipes appear to be on both sides of 144th Street as indicated by fire hydrants.

Table 5. E 144th St. Rail-Highway Crossing Information

Roadway		Railroad		
AADT	3000	Total Trains per Day	27	
% Trucks	6	Total Switching	10	
Posted Speed (mph)	25	Max Train speed (mph)	20	
# of Lanes	2	# of Tracks	6	
Highway type	Collector	Crossing Surface	Concrete	
	Ir	ntersection		
Exposure Facto	r	81,000		
Total Accidents	(5 years)	1		
Warning Device	S	AFLS/Gates/Cross Bucks		

Source: FRA Web based Quiet Zone and ICC Grade Crossing Inventory

CSX Corridor

The CSX railroad corridor has three crossings two in Riverdale and other on the boundary of Dolton and Chicago. All the crossings have more than 30 freight trains per day, at the speed of 20 mph. The following is an overview of these crossings;

137th Street Rail-Highway Crossing Description, DOT# 163610H, CSX Railroad

The site is located latitude 41.64666° and longitude -87.61972° that is in Riverdale, Illinois, and in the County of Cook. This crossing is at E 137th street intersecting three CSX railroad tracks, two main and one spur line. This crossing has high number of trains passing and relative less traffic, since it is a local highway. This crossing is equipped with flashing lights, two gates, cross buck, road markings and advance warning sign. There is a drive opening up in 100 feet (30 m) of the crossing. For the past five years, no train to vehicle accident happened. Figure 18, Figure 19, and Figure 20 show existing roadway legs and railway crossing. Table 6 shows the crossing information from FRA and ICC grade crossing inventory.



Figure 18. E 137th RR Crossing



Figure 19. E 137th St. West Leg



Figure 20. E 137th St. East Leg

As for utilities, high-voltage lines cross 137th Street parallel to the railroad tracks from towers. Low-voltage lines and poles are along the south side of 137th Street; low-voltage lines string across the railroad tracks along the south side of 137th Street. Streetlights are along the north side of 137th Street. Underground water pipes are along the north side of 137th Street.

Table 6. E 137th St. Rail-Highway Crossing Information

Roadway		Railroad	
AADT	575	Total Trains per Day	36
% Trucks	13	Total Switching	5
Posted Speed	30	Max Train speed	20
(mph)		(mph)	
# of Lanes	2	# of Tracks	3
Highway type	Local	Crossing Surface	Asphalt and
			Timber Flange
Intersection			
Exposure Factor		20,700	
Total Accidents (5		0	
Source: FRA Web based Quiet Zone and ICC Grade Crossing Inventory			
waitiiig Devices		תו בטן שמנכטן טוטטט בשנתט	

138th St. and Indiana Ave. Rail-Highway Crossing Description, DOT# 163611P, CSX Railroad

The site is located latitude 41.6445901° and longitude -87.6172501° that half resides in Dolton and a fourth in Riverdale and Chicago, Illinois, and in the County of Cook. The crossing at 138th Street and S. Indiana Avenue is equipped with cross bucks, flashing lights, two-quadrant gates, and road markings. There are no proper sidewalks and pedestrian gates available for pedestrian traffic at the crossing. The roadway is an eight lanes highway intersecting three CSX rail tracks, two main and one spur track. The surrounding land-use consists of residential, commercial and school area. There has been one freight train to vehicle accident on this crossing in last five years. The pictures shown in Figure 21, Figure 22, and Figure 23 depict the existing roadway legs and railway crossing. This crossing meets minimum requirements for passive devices as per MUTCD. Crossing information from FRA and ICC is shown in Table 7.



Figure 22. Indiana Ave. East Leg



Figure 21. Indiana Ave. RR Crossing



Figure 23. Indiana Ave. West Leg

As for utilities, high-voltage lines cross 138th Street at the railroad tracks and across Indiana Avenue from high masts. Low-voltage lines and poles are along the south side of 138th Street; low-voltage lines string across the intersection along the south side of 138th Street. Streetlights are along the north side of 138th Street. Streetlights are on the west side of Indiana Avenue south of 138th Street and on the east side of Indiana Avenue north of 138th

Street. Underground water pipes are along the west side of Indiana Avenue and the south side of 138^{th} Street.

Table 7. Indiana Ave. Rail-Highway Crossing Information

Roadway		Railroad		
AADT	7600	Total Trains per Day	42	
% Trucks	12	Total Switching	5	
Posted Speed (mph)	30	Max Train speed (mph)	20	
# of Lanes	8	# of Tracks	3	
Highway type	Collector	Crossing Surface	Asphalt and Flange	
	Intersection			
Exposure Factor		319,200		
Total Accidents (5 years)		1		
Warning Devices		AFLS/Gates/Cross Bucks		

Source: FRA Web based Quiet Zone and ICC Grade Crossing Inventory

Perry Avenue Rail-Highway Crossing Description, DOT# 163609N, CSX Railroad

The site is located latitude 41.64944° and longitude -87.62472° that is in Riverdale, Illinois, and in the County of Cook. The at-grade crossing at Perry Avenue is equipped with cross bucks and pairs of automatic flashing lights. There are no gates and road marking at the rail crossing. The adjacent landuse near the grade crossing consists of a railyard and industrial area. North of the railroad crossing, a private industry owns the land. Sidewalk and roadway conditions are poor. Pedestrian gates are not available at the crossing. The pictures shown in Figure 25, Figure 24, and Figure 26, and depict existing roadway legs and railway crossing. This crossing does not meet the minimum requirements for passive devices as per MUTCD. Table 8 lists ICC crossing and FRA information.



Figure 24. Perry Ave. RR Crossing



Figure 25. Perry Ave. North Leg



Figure 26. Perry Ave. South Leg

Low-voltage lines and poles are along the western side of Perry Avenue; a low-voltage line strings across Perry Avenue at the railroad crossing. Streetlights are along the north side of 138th Street. High voltage lines string across Perry Avenue south of the railroad crossing from

high towers. Streetlights are along the western side of Perry Avenue. Underground water pipes are along the eastern side of Perry Avenue.

Table 8. Perry Ave. Rail-Highway Crossing Information

Roadway		Railroad			
AADT	450	Total Trains per Day 32			
% Trucks	19	Total Switching	3		
Posted Speed (mph)	30	Max Train speed (mph)	20		
# of Lanes	2	# of Tracks	7		
Highway type	Local	Crossing Surface	Asphalt and Flange		
Intersection	Intersection				
Exposure Factor		14,400			
Total Accidents (5 years)		0			
Warning Devices		AFLS/Gates/Cross Bucks			

Source: FRA Web based Quiet Zone and ICC Grade Crossing Inventory

At the time of this report, the CSX Park Avenue and Lincoln Avenue crossing, DOT# 163612W, is designated as a quiet zone. However, the FRA will periodically reevaluate its quiet zone status. Appendix A-1.6 Description of Crossings Currently under Quiet Zone includes a description of the crossing. After the quiet zone is established, the FRA notifies the public authority responsible for the quiet zone if its risk level exceeds a national risk threshold.

Cottage Grove Avenue Rail-Highway Crossing Description, DOT# 163613D - CSX Railroad, DOT# 326886B - IHB Railroad

The CSX site is located latitude 41.640934° and longitude -87.59785° that is in Dolton, Illinois and in the County of Cook. The adjacent IHB track is located latitude 41.640747° and longitude -87.597855°. The crossing at Cottage Grove Street intersects CSX and IHB railroad tracks. This crossing is under CREATE grade separation project GS23A. The crossing is equipped with flashing lights, two gates, cross bucks, roadway markings and advance warning signs. There are no pedestrian gates present at the crossing and pedestrian traffic was seen during site inspection. This crossing has high truck movements. Land-use surrounding this crossing is industrial and open land. Figure 28, Figure 27, and Figure 29 show existing roadway legs and railway crossings. Table 9 shows the crossing information from ICC grade crossing inventory.



Figure 28. Cottage Grove Ave. North Leg



Figure 27. Cottage Grove Ave. RR Crossing



Figure 29. Cottage Grove Ave. North Leg

As for utilities, high-voltage lines cross Cottage Grove at the railroad tracks from towers. Low-voltage lines and poles are along the eastside of Cottage Grove Avenue; low-voltage lines string across Cottage Grove Avenue near the Land & Lakes and Ardagh Group facilities. The

low-voltage lines string across Cottage Grove Avenue to power the railroad gates on the west side. Underground water pipes are along the west side of Cottage Grove Avenue.

Table 9. Cottage Grove Avenue CSX Rail-Highway Crossing Information DOT# 163613D

Roadway		Railroad			
AADT	2250	Total Trains per Day	33		
% Trucks	14	Total Switching	3		
Posted Speed (mph)	30	Max Train speed (mph)	40		
# of Lanes	2	# of Tracks	2		
Highway type	Collector	Crossing Surface	Asphalt and Flange		
	Intersection				
Exposure Factor		74,250			
Total Accidents	(5 years)	0			
Warning Devices		AFLS/Gates/Cross Bucks			

Source: FRA Web based Quiet Zone and ICC Grade Crossing Inventory

Table 10. Cottage Grove Avenue IHB Rail-Highway Crossing Information DOT# 326886B

Roadway		Railroad		
AADT	2250	Total Trains per Day	1	
% Trucks	14	Total Switching	1	
Posted Speed (mph)	30	Max Train speed (mph)	10	
# of Lanes	2	# of Tracks	1	
Highway type	Collector	Crossing Surface	Asphalt and Flange	
Intersection				
Exposure Factor		2,250		
Total Accidents (5 years)		0		
Warning Devices		AFLS/Gates/Cross Bucks		

nventory

IHB Corridor

At the time of this report, the Indiana Avenue near 140th Street crossing, DOT#: 326894T, is designated as a quiet zone. However, the FRA will periodically reevaluate its quiet zone status. Appendix A-1.6 Description of Crossings Currently under Quiet Zone includes a description of the crossing. After the quiet zone is established, the FRA notifies the public authority responsible for the quiet zone if its risk level exceeds a national risk threshold.

Quiet Zone Establishing Criteria

The criteria for establishing quiet zone is the Final Rule on Use of Locomotive Horns at Rail Grade Crossing (Final Rule). The Final Rule on quiet zones requires the implementation of supplemental safety measures (SSMs) or Alternative Safety Measures (ASMs) to maintain the safety of vehicles and pedestrians at highway-rail crossings where locomotive horns are not blown. The details SSMs and ASMs are further discussed.

In addition to quiet zone requirements listed in previous section, the quiet zone risk must also meet certain requirements as outlined in train horn rule. The requirements of quiet zone are:

- 1. After silencing the train horn, the average risk at the crossing should be less than Nationwide Significant Risk Threshold (NSRT); or
- 2. SSMs should be present at each public crossing; or
- Safety improvements should be made to compensate for the loss of train horn by installing warning device. Any implemented safety treatment must reduce the risk below NSRT.

FRA Calculator

FRA recommends the use of its web based quiet zone calculator to calculate the risk associated with each public crossing to aid the decision-making process. The calculator can be found at https://www.fra.dot.gov/Page/P0889. It allows to calculate the quiet zone risk index for current as well the future scenarios with and without SSMs. As ASMs are not preapproved by FRA and do not have established effectiveness rating, they are not evaluated using web based calculator. They are evaluated individually by FRA. The formula used to calculate the risk at grade crossings is shown below;

a=K × EI × MT × DT × HP × MS × HT × HL

Where:

a = initial collision prediction, collisions per year at the crossing

K = formula constant²

EI = factor for exposure index based on product of highway and train traffic

MT = factor for number of main tracks

DT = factor for number of through trains per day during daylight

HP = factor for highway paved (yes or no)

² Refer to Appendix "A-1.4 FRA Quiet Zone Calculator"

MS = factor for maximum timetable speed HT = factor for highway type HL = = factor for number of highway lanes

Measurement of Risk

There are three measurements of risk used in determining qualification of a quiet zone:

- Nationwide Significant Risk Threshold (NSRT): The NSRT is calculated nationwide, which shows the average level of risk at public grade crossings which are equipped with gates and flashing lights at which locomotive horns are sounded.
- *Risk Index with Horns (RIWH):* The RIWH is the level of risk that would exist in quiet zone if horns were sounded at every public at-grade crossing.
- Quiet Zone Risk Index (QZRI): The QZRI shows the adjusted risk levels at rail corridor, where locomotives do not sound horns and risk is reduced due to implementation of acceptable safety measures (City of Worthington, 2010).

In order to implement the quiet zone, Quiet zone risk index (QZRI) should be less than Nationwide Significant Risk threshold (NSRT) and Risk Index with Horns (RIWH) at the crossing. Figure 30 illustrates current quiet zone risk index for a grade crossing. By putting

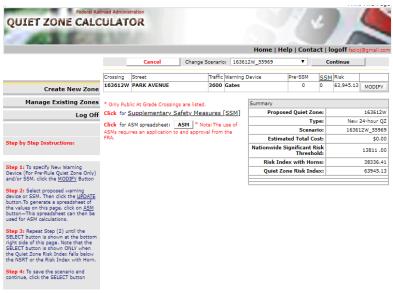


Figure 30. Example of Web Based Quiet Zone Calculator Result

all required variables, the calculator shows the NSRT, RIWH and QZRI for the grade crossings. If the QZRI for the quiet zone is below NSRT, but not below RIWH then these quiet zones are annually reviewed by FRA to ensure that QZRI remains below NSRT. After the quiet zone is

established, if QZRI level exceeds from NSRT, FRA notifies the public authority responsible for quiet zone. After that public authority has to submit the written commitment to FRA, detailing the step they will take to lower the QZRI back below the NSRT. The public authority then have to complete the steps noted in the written letter within three years of the receipt of FRA notification. Quiet zones that are below NSRT will be reviewed by FRA every 2.5 to five years (Horn, 2015). The FRA Calculator results using updated FRA data and field data for other crossings in the study area can be found in Appendix A-1.4 FRA Quiet Zone Calculator.

Quiet Zone Alternatives

To place the quiet zone, supplemental safety measures, alternative safety measures or wayside horns should fully compensate the absence of train horn. To reduce the Quiet Zone Risk Index (QZRI) below Nationwide Significant Threshold (NSRT) and the Risk Index with Horns (RIWH), the measures used are as follows;

Supplementary Safety Measures (SSM)

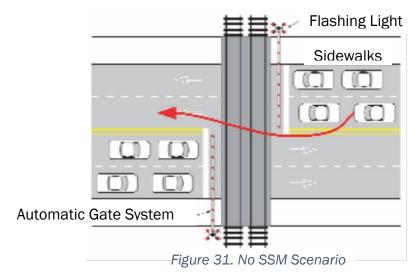
SSMs installed at highway rail grade crossings within a quiet zone, are the engineering improvements to reduce the risk vehicle to train collision. Those improvements help reducing the risk up to the level that would have existed if the train horn were sounded or to the level below NSRT. Below are SSMs that can be included;

- Temporary Closure of crossing (used with night time only quiet zone)
- Permanent Crossing Closure
- Four-Quadrant Gate System with or without medians, or with or without vehicle presence detaection
- Gates with Raised Medians or Channelization Devices
- Conversion to One-way Streets with Gates across the roadway

An SSM can be used at a crossing that may have a private driveway or alley within 60 feet (18 m) of the gate arm. The FRA does not require a special application to use an SSM.

No SSM

With no SSMs, no barriers exist that prevent drivers from going around closed automated gates. No SSMs increase the risk of collisions with trains as shown in Figure 31.



Temporary or Permanent Closure of Public Rail Grade Crossing

Closure of the grade crossing is generally proposed when a street has low traffic counts and has alternate vehicular and pedestrian access within one-quarter mile. Figure 32 shows and example of a road closure. This measure is safest and least costly. For the temporary closure, crossings can be closed during nighttime, and jurisdictions are required to set up signs and barricades every evening. This could come under partial quiet zone as, if night closures are used, trains will continue to sound horn during day. In Illinois, local jurisdiction is responsible for closing of any public grade crossing. The guidelines for closure of public grade crossing is shown in Appendix A-1.1 Scenario: Public Grade Crossing Closure.



Figure 32. SSM Option 1: Temporary or Permanent Closure of Grade Crossing

Four-Quadrant Gate System

Gates are placed on both the sides of the tracks to prevent vehicle from entering the track area as illustrated in Figure 33. Additional control equipment must also be added, so gates descend while train is approaching.

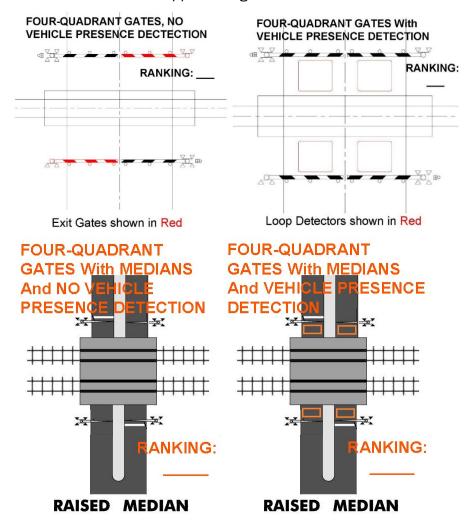


Figure 33. SSM Option 2: Four Quadrant Gates

Gates with Raised Medians or Channelization Devices

Many options exist in terms of medians and channelization devices, but the options need to meet several criteria. Examples of some options are shown in Figure 34. The median must extend 100 feet (30 m) from the nearest gate arm, if there are any driveway or intersection present, in which case median can extend up to 60 feet (18 m). To qualify median must be extend up to 60 feet (18 m) and driveways within that distance should be closed. Raised

medians or channelization devices are typically the lowest cost measure for preventing drivers going around the gate.

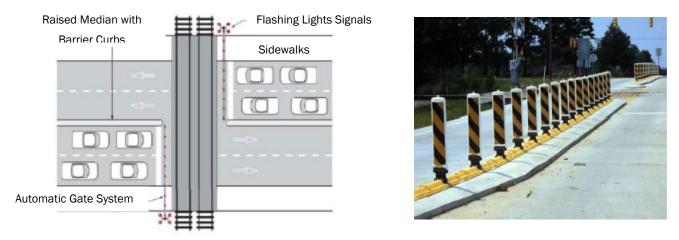


Figure 34. SSM Option 3: Gates with Raised Medians or Channelization Devices

Conversion to One-Way Streets with Gates

One-way streets have gates across the road leg as illustrated in Figure 35. If roadways are narrow, one gates arm gates are adequate.

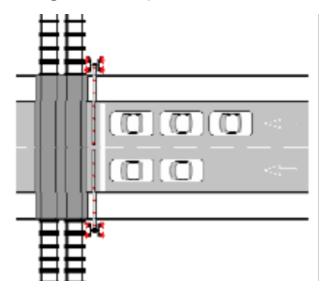


Figure 35. SSM Option 4: One way Streets with Gates

Alternative Safety Measures (ASMs)

As per the guideline, ASMs may be applied such that the combination of measures at one or more rail crossing reduces the average risk by required amount.

- Carrying out the public education and/or enforcements programs like photo enforcement with periodic monitoring and reporting.; or
- Modified SSM, such as barrier gate and median; shorter channelization; raised median islands; longitudinal median separators, 3-quadrant gates; or
- Engineering improvements, other than modified SSMs like improvement of sight distance, sign and markings etc.; or
- Combination of above.

An ASM must be used when the crossing under consideration has a commercial driveway within 60 feet (18 m). In which case, the FRA requires a special application be submitted; the application process takes approximately one month to complete.

If quiet zone is established using ASM, periodic updates to FRA is required every 2.5 to 3 years. Recent and accurate grade crossing inventory, traffic count, and train timetable data is required for each grade crossing within quiet zone. One should carry out a survey of all grade crossing to confirm that all railroad equipment is still in place and operating (R.L. Banks & Associates, 2009).

Wayside Horns

Wayside horns can also be used as an alternative, those are not an SSM, but wayside horns are an FRA approved substitution for train's horns. It is installed on both the sides of the crossing facing toward oncoming traffic, its sound is directional and concentrated. Since wayside horns are not a quiet zone safety measure, wayside horns are not considered in quiet zone calculator and is given the same level of risk as train horns (WilburSmith Associates, 2009). The typical cost for installing wayside horn is \$250,000 to \$500,000 per crossing (Altamont Corridor Express).

FRA Cost Estimation for SSM Treatment Installations

Based on the FRA quiet calculator data, Table 11 lists approximate costs to install supplementary safety measure per grade crossing. More accurate estimations are usually available from railroad companies, contractors, and municipalities involved in implementing SSM treatments for quiet zone attainment.

Table 11. FRA Cost Estimates for SSM Traetment Installations

SSM ID	Type of SSMs	Estimated Total Cost Per Crossing
1	Temporary Closure of a Public Highway-Rail Grade Crossing	-
2	Permanent Closure of a Public Highway-Rail Grade Crossing	-
3	Grade Separation of a Public Highway-Rail Grade Crossing ³	1
4	Four-Quadrant Gates Upgrade from Two Quadrant gates, No Vehicle Presence Detection	\$100,000
5	Four-Quadrant Gates Upgrade from Two Quadrant Gates, with medians and no Vehicle Presence Detection	\$115,000
6	Four-Quadrant Gates Upgrade from Two Quadrant Gates, with Vehicle Presence Detection	\$128,000
7	Four-Quadrant Gates Upgrade from Two Quadrant Gates, with medians and Vehicle Presence Detection	\$140,000
8	Four-Quadrant Gates New Installation, No Vehicle Presence Detection	\$280,000
9	Four-Quadrant Gates New Installation with medians and no Vehicle Presence Detection	\$295,000
10	Four-Quadrant Gates New Installation with Vehicle Presence Detection	\$308,000
11	Four-Quadrant Gates New Installation with medians and Vehicle Presence Detection	\$320,000
12	Mountable medians with Reflective Traffic Channelization Devices	\$13,000
13	Non-Traversable Curb Medians with or without Channelization Devices	\$15,000
14	One-Way Streets with Gates	\$35,000

Source: FRA Quiet Zone Calculator

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³ Refer to Appendix "A-1.2 Scenario; Grade Separation of a Public Highway-Rail Grade Crossing"

Quiet Zone Risk Assessment

The existing QZRIs without any SSM or ASM are shown in Table 12. The QZRI calculations include any railroad updates as of 27 January 2020 as shown in Appendix B-1.1 Updated Train Counts.

Table 12. Current Quiet Zone Risk Index without any SSM

Street, City	Existing Risk Index Without SSM/ASM	NSRT		
UP, 138th Street, Chicago, Dolton, DOT#840146L	15,146.42			
UP, Lincoln Avenue, Dolton, DOT#840147T	17,662.73			
UP, 142 nd Street, Dolton, DOT#167450K	32,820.35		LEGEN	D·
UP, 144th Street, Dolton, DOT#167451S	40,769.09			J .
CSX, Indiana Ave. and 138 th St., Chicago, Riverdale, Dolton, DOT#163611P	106,968.38	13,811		QZRI is greater
CSX, 137 th Street, Riverdale, DOT#163610H	15,509.98	as of 17		than NSRT or
CSX, Cottage Grove Ave, Dolton, DOT#163613D	28,709.45	May 2019		RIWH
CSX, Perry Avenue, Riverdale, DOT#163609N	10,780.18	2019		
Railroad Crossings Already Under Quiet Zone				QZRI is less
IHB, Indiana Ave. near 140th St., Riverdale, Dolton,	90,728.36			than NSRT and
DOT#326894T				DIMIL
CSX, Park Ave., Dolton, DOT#163612W	63,945.13			RIWH

The Final Rule 49 CFR Appendix A to Part 222 (Legal Information Institute, 2019) states the effectiveness rate for each SSM. Zero means that SSM or ASM results in no reduction in the probability of a collision, while effectiveness rating of 1 means that SSM or ASM is totally effective in eliminating collision risk. Table 13 lists effectiveness ratings for various SSMs. The various effectiveness rating assigned to SSM should not be the sole determining factor, a site specific study should also be performed to determine the best application.

Current and future quiet zone risk index (QZRI) scenarios were calculated using FRA quiet zone calculator with only FRA and ICC data; Table 14 lists the index values for CSX crossings, Table 15 for IHB crossings, and Table 16 for UP crossings. The crossings that had QZRI values greater than Nationwide Significant Risk Threshold (NSRT) or Risk Index with Horns (RIWH) are shaded in red, and crossings that had QZRI values less than NSRT and RIWH are colored in green. The results from FRA quiet zone calculator suggests that currently ten out ten atgrade crossings need supplementary or alternative safety measures to be designated a quiet zone in Riverdale and Dolton. QZRI values must be less than NSRT and less than RIWH to

qualify for a quiet zone; QZRI values shaded in green indicate those SSM treatments that are feasible at a particular site. The QZRI values for two crossings that are

Table 13. SSM Effectiveness Ratings

FRA approved Supplemental Safety Measure (SSM)	Effectiveness Rate
Temporary or Permanent Closure of crossing	1.00
Four-quadrant gates with traffic of at least 60 feet (18 m) (with or without presence detection)	0.92
One Way Street with Gates	0.82
Four-quadrant gates only, no presence detection	0.82
Gates with Raised Medians (Non-Traversable curbs)	0.80
Four-Quadrant Gate System	0.77
Gates with Channelization devices	0.75

Source: (Ullevig, 2009)

already designated as quiet zones, namely, Indiana Avenue near 140th Street site and Park Avenue and Lincoln Avenue site, are much higher than NSRT or RIWH. Once a quiet zone is implemented, it may not remain qualified as a quiet zone; periodic reviews of crossings are required. Since the NSRT and RIWH periodically keep updating, analysis results suggest that the Indiana Avenue near 140th Street crossing and Park Avenue and Lincoln Avenue crossing require additional safety measure treatment to maintain their quiet zone status.

Note that Table 12 assumes that all grade crossings will meet or will be upgraded to meet the minimum requirement of active warning device standards for quiet zone, i.e., equipped with gates, lights, power out indicators, and CWT. The Perry Avenue crossing is not equipped with gates and CWT and subsequently is not prequalified. Using FRA quiet zone calculator, future QZRI values involving each crossing were calculated for eleven SSM treatment scenarios. Table 14 lists SSM treatments with their FRA cost estimates and resulting quiet zone risk index for the CSX corridor; Table 15 for IHB, and Table 16 for UP.

Looking at the future risk index scenarios, when supplementary safety measures are put in place, ten of ten crossings suggests that the QZRI value could be decreased using any of the supplementary safety measures. Only few supplementary safety measures could be used at three sites: (1) 138th and S. Indiana Avenue crossing, (2) Indiana Avenue crossing near 140th

Street, and (3) Park Avenue and Lincoln Avenue crossing. For two Indiana Avenue crossings, the QZRI value could be reduced below NSRT and RIWH when four quadrant gates with medians with or without vehicle presence detection treatments are used. Similarly, for the crossing at Park Avenue and Lincoln Avenue, QZRI values are above NSRT and RIWH where four quadrant gates and no medians with vehicle presence detection treatments are considered and where no mountable medians with channelization devices or barrier medians with or without channelization devices are considered.

Table 14. Quiet Zone Risk Assessment Using FRA Calculator and FRA Data for CSX Crossings

SSM ID	Estimated FRA Total Cost	138 th St and Indiana Ave, Dolton, Riverdale, Chicago DOT#163611P	137 th St, Riverdale DOT#163610H	Cottage Grove Ave, Dolton DOT#163613D	Park Ave and Lincoln Ave, Dolton DOT#163612W	Perry Ave, Riverdale DOT#163609N
		I	Existing Risk Index ((without SSMs)		
No SSM		106,968.38	15,509.98	28,709.45	63,945.13	10,780.18
	•	Fu	ture Risk Index Sce	enarios with SSM		
1		-	-	-	-	-
2		-	-	-	-	-
3		-	-	-	-	-
4	\$100,000	19,254.31	2,791.80	5,167.70	11,510.12	1,940.43
5	\$115,000	8,557.47	1,240.80	2,296.76	5,115.61	862.41
6	\$128,000	24,602.73	3,567.29	6,603.17	14,707.38	2,479.44
7	\$140,000	8,557.47	1,240.80	2,296.76	5,115.61	862.41
8	\$280,000	19,254.31	2,791.80	5,167.70	11,510.12	1,940.43
9	\$295,000	8,557.47	1,240.80	2,296.76	5,115.61	862.41
10	\$308,000	24,602.73	3,567.29	6,603.17	14,707.38	2,479.44
11	\$320,000	8,557.47	1,240.80	2,296.76	5,115.61	862.41
12	\$13,000	26,742.10	3,877.49	7,177.36	15,986.28	2,695.05
13	\$15,000	21,393.68	3,102.00	5,741.89	12,789.03	2,156.04
14	\$35,000	19,254.31	2,791.80	5,167.70	11,510.12	1,940.43
Risk Ind	dex with Horns	64,129.73	9,298.55	17,211.90	38,336.41	6,462.94
Nation	Nationwide Significant Risk Threshold 13,811.00 as of 17 May 2019					

QZRI is greater than NSRT or RIWH
QZRI is less than NSRT and RIWH
Crossings under FRA horn ban list

Table 15. Quiet Zone Risk Assessment Using FRA Calculator and FRA Data for IHB Crossings

SSM ID	Estimated FRA Total Cost	Indiana Ave near 140 th St, Dolton, Riverdale DOT#326894T Cottage Grove Ave, De DOT#326886B		
		Existing Risk Index (without	t SSMs)	
No SSM		90,728.36	1,310.51	
		Future Risk Index Scenarios	with SSM	
1		-	-	
2		-	-	
3		-	-	
4	\$100,000	16,331.10	235.89	
5	\$115,000	7,258.27	104.84	
6	\$128,000	20,867.52	301.42	
7	\$140,000	7,258.27	104.84	
8	\$280,000	16,331.10	235.89	
9	\$295,000	7,258.27	104.84	
10	\$308,000	20,867.52	301.42	
11	\$320,000	7,258.27	104.84	
12	\$13,000	22,682.09	327.63	
13	\$15,000	18,145.67	262.10	
14	\$35,000	16,331.10	235.89	
Risk I	ndex with Horns	54,393.50	785.68	
	Nationwide Significant Risk Threshold 13,811.00 as of 17 May 2019			

QZRI is greater than NSRT or RIWH
QZRI is less than NSRT and RIWH
Crossings under FRA horn ban list

Table 16. Quiet Zone Risk Assessment Using FRA Calculator and FRA Data for UP Crossings

10 11 12	\$308,000 \$320,000 \$13,000	3,483.68 1,211.71 3.786.60	4,062.43 1,413.02 4,415.68	7,548.68 2,625.63 8,205.09	9,376.89 3,261.53 10,192.27
9	\$295,000	1,211.71	1,413.02	2,625.63	3,261.53
8	\$280,000	2,726.36	3,179.29	5,907.66	7,338.44
7	\$140,000	1,211.71	1,413.02	2,625.63	3,261.53
6	\$115,000	3,483.68	4,062.43	7,548.68	9,376.89
<u>4</u> 5	\$100,000 \$115,000	2,726.36 1,211.71	3,179.29 1,413.02	5,907.66 2,625.63	7,338.44 3,261.53
3	****	-	-	-	-
2		-	-	-	-
1		-	-	-	-
		Future Risk Inc	dex Scenarios with SS	SM	
No SSM		15,146.42	17,662.73	32,820.35	40,769.09
			Index (without SSMs	l	
SSM ID	Total Cost	Chicago DOT#840146L	Dolton DOT#840147T	Dolton DOT#167450K	Dolton DOT#167451S
	Estimated FRA	138 th St, Dolton,	Lincoln Ave,	142 nd St,	E 144 th St,

QZRI is greater than NSRT or RIWH
QZRI is less than NSRT and RIWH
Crossings under FRA horn ban list

Field Data

To verify FRA, ICC, and CMAP train frequencies and average daily traffic counts, the team conducted 24-hour, weekday spot-checks at eight of the ten sites. Additionally, the team counted pedestrians and bicyclists who crossed the tracks. Two of the ten sites are already in quiet zones, Cottage Grove Ave. and Perry Ave. The equipment used was a time-lapse camera. Details of the data collection procedure and raw counts are in Appendix B. Table 17 summarizes field data.

Table 17. Field Data Count Summary

Site	Daily	Night	Motor	Percent Heavy	Pedestrians		Bicycles
Site	Trains	Trains	Vehicles	Vehicles	Adults	Children	bicycles
UP, 138 th St. Dolton, DOT# 840146L	13	9	1867	10.6	30	5	2
UP, Lincoln Ave, Dolton, DOT# 840147T	15	9	3449	5.5	20	4	0
UP, 142 nd St., Dolton, DOT# 167450K	27	14	7257	2.4	68	42	17
UP, 144 th St., Dolton, DOT# 167451S	43	27	4613	1.3	47	16	10
IHB, Indiana Ave. near 140 th St, Dolton, Riverdale, DOT# 326894T	47	25	5590	3.6	88	4	10
CSX, Indiana Ave. at 138 th St., Dolton, Riverdale, Chicago, DOT# 163611P	44	22	9282	5.5	97	8	3
CSX, 137 th St., Riverdale, DOT# 163610H	43	22	997	2.5	42	11	8
CSX, Lincoln and Park, Dolton, DOT# 163612W	61	29	3342	6.1	50	20	8

Crossings with the highest pedestrian counts are the Lincoln Ave. and Park Ave. site, 142nd Street, Indiana Avenue near 140th Street, and Indiana Avenue at 138th Street at 70,110, 92, and 100 pedestrians, respectively. Of those sites, Lincoln Ave. and Park Ave. site and the 142nd Street site have a high share of children crossing at 29% and 38%, respectively.

Usage of the FRA Quiet Zone calculator with field data produced the results in Table 18, Table 19, and Table 20. The comparison of the results using field data with FRA/ICC data, i.e., Table 14, Table 15, and Table 16, reveals no significant changes in the feasibility of SSM treatments. The only exception involves the Park Avenue and Lincoln Avenue crossing. The "Non-Traversable Curb Medians with or without Channelization Devices" SSM treatment is no longer feasible.

Table 18. Quiet Zone Risk Assessment Using FRA Calculator and Field Data for CSX Crossings

		138 th St and Indiana Ave,	137 th St,	Park Ave and				
SSM ID	Estimated FRA Total Cost	Dolton, Riverdale, Chicago	Riverdale	Lincoln Ave, Dolton				
		DOT#163611P	DOT#163610H	DOT#163612W				
	Exi	sting Risk Index (without SSM	s)					
No SSM		111,265.80	19,291.62	73,214.97				
	Futu	re Risk Index Scenarios with S	SM					
1	-	-	-	-				
2	-	-	-	-				
3	3		-	-				
4	\$100,000	20,027.84	3,472.49	13,178.70				
5	\$115,000 8,901.26		1,543.33	5,857.20				
6	\$128,000	25,591.13	4,437.07	16,839.44				
7	\$140,000	8,901.26	1,543.33	5,857.20				
8	\$280,000	20,027.84	3,472.49	13,178.70				
9	\$295,000	8,901.26	1,543.33	5,857.20				
10	\$308,000	25,591.13	4,437.07	16,839.44				
11	\$320,000	8,901.26	1,543.33	5,857.20				
12	\$13,000	27,816.45	4,822.90	18,303.74				
13	\$15,000	22,253.16	3,472.40	14,642.99				
14	\$35,000	20,027.84	3,472.49	13,178.70				
Risk Index with Horns		66,706.11	11,565.72	43,893.87				
Nationwide Significant Risk Threshold		lationwide Significant Risk Threshold 13,811.00 as of 17 May 2019		19				

QZRI is greater than NSRT or RIWH
QZRI is less than NSRT and RIWH
Crossings under FRA horn ban list

Table 19. Quiet Zone Risk Assessment Using FRA Calculator and Field Data for IHB Crossings

SSM ID	Estimated FRA Total Cost Existing Risk Index			
No SSM		83,293.96		
	Future Risk Index So	cenarios with SSM		
1				
2				
3				
4	\$100,000	14,992.91		
5	\$115,000	6,663.52		
6	\$128,000	19,157.61		
7	\$140,000	6,663.52		
8	\$280,000	14,992.91		
9	\$295,000	6,663.52		
10	\$308,000	19,157.61		
11	\$320,000	6,663.52		
12	\$13,000	20,823.49		
13	\$15,000	16,658.79		
14	\$35,000	14,992.91		
Risk Index with Horns		49,936.43		
Nationwide S	Significant Risk Threshold	13,811.00 as of 17 May 2019		

QZRI is greater than NSRT or RIWH
QZRI is less than NSRT and RIWH
Crossings under FRA horn ban list

Table 20. Quiet Zone Risk Assessment Using FRA Calculator and Field Data for UP Crossings

SSM ID	Estimated FRA Total Cost	138 th St, Dolton, Chicago DOT#840146L	Lincoln Ave, Dolton DOT#840147T	142 nd St, Dolton DOT#167450K	E 144 th St, Dolton DOT#167451S			
	Existing Risk Index (without SSMs)							
No SSM		14,996.41	18,469.24	35335.77	48,910.41			
		Future Risk Index Scen	arios with SSM					
1								
2								
3								
4	\$100,000	2,699.35	3,324.46	6,360.44	8,803.87			
5	\$115,000	1,199.71	1,477.54	2,826.86	3,912.83			
6	\$128,000	3,449.17	4,247.93	8,127.23	11,249.39			
7	\$140,000	1,199.71	1,477.54	2,826.86	3,912.83			
8	\$280,000	2,699.35	3,324.46	6,360.44	8,803.87			
9	\$295,000	1,199.71	1,477.54	2,826.86	3,912.83			
10	\$308,000	3,449.17	4,247.93	8,127.23	11,249.39			
11	\$320,000	1,199.71	1,477.54	2,826.86	3,912.83			
12	\$13,000	3,749.10	4,617.31	8,833.94	12,227.60			
13	\$15,000	2,999.35	3,693.85	7,067.15	9,782.08			
14	\$35,000	2,699.35	3,324.46	6,360.44	8,803.87			
Risk Index with Horns		8,990.66	11,072.69	21,184.51	29,322.79			
Nationwide Significant Risk Threshold			13,811.00 as of 17	May 2019				

QZRI is greater than NSRT or RIWH
QZRI is less than NSRT and RIWH
Crossings under FRA horn ban list

Stakeholder Bus Tour and Meeting

On 22 January 2020, a stakeholder bus tour of nine at-grade, rail-highway crossings and meeting at the Dolton Village Hall was held to narrow the final SSM recommendations at the sites. All pertinent stakeholders were invited. Representatives from Cook County, Village of Dolton, South Suburban Mayors and Managers Association, Urban



Transportation Center, and the FRA took the tour and Figure 36. Bus Tour Participants

attended the meeting afterwards. The Mayor of Dolton also attended the meeting. Stakeholders received ballots to ascertain their SSM rankings at each site. Stakeholders submitted four ballots. Table 21 lists SSM rankings from the stakeholders.

Discussions on the bus tour and meeting revealed additional information when considering which SSM treatments to recommend. All SSMs involving four-quadrant gates include vehicle presence detection systems even if such SSMs do not have detection systems. All SSMs that use four-quadrant gates now include Constant Warning Time (CWT) circuitry. The pertinent at-grade, highway-rail crossings must be grouped by railroad corridor, namely, CSX, UP, and IHB. This grouping by railroad is important in making an SSM recommendation because, if the crossings in the grouping are within a 0.5 mile (0.8 km) radius, the remaining crossings in the grouping may not require an SSM to be considered a Quiet Zone.

In the meeting following the bus tour, a discussion further refined the SSM recommendation for each site. For the crossings in the the CSX corridor, i.e., Park Ave./Lincoln Ave. (DOT#163612W), Indiana Ave. and 138th St. (DOT#163611P), 137th St. (DOT#163610H), Perry Ave. (DOT#163609N), and Cottage Grove Ave. (DOT#163613D) were discussed. It was generally agreed that Cottage Grove Ave. crossing be not considered part of the quiet zone corridor since the site is in Phase I for grade separation consideration and the land-use is non-residential. If the Perry Ave. crossing is to be considered as part of the CSX corridor, the crossing would need to have full upgrade to automated gates and CWT since no gates

Table 21. Stakeholder Ballot Responses

Location	Crossing	1st Choice	2nd Choice	3rd Choice
142nd Street, Dolton, IL	DOT# 167450K	3 @ Four-Quadrant, no	3 @ Four-Quadrant, no	
		median, no vehicle presence	median, vehicle presence	
		detection	detection	
		1 @ Four-Quadrant, no	1 @ Four-Quadrant, no	
		median, vehicle presence	median, no vehicle presence	
		detection	detection	
144th Street, Dolton, IL	DOT# 167451S	2 @ Four-Quadrant, no	2 @ Four-Quadrant, no	
		median, no vehicle presence	median, vehicle presence	
		detection	detection	
		2 @ Four-Quadrant, no	2 @ Four-Quadrant, no	
		median, vehicle presence	median, no vehicle presence	
		detection	detection	
Indiana Avenue near	DOT# 326894T	3 @ Four-Quadrant, no	2 @ Four-Quadrant, median,	2 @ Four-Quadrant,
140th St, Dolton,		median, vehicle presence	no vehicle presence detection	median, vehicle presence
Riverdale, IL		detection		detection
		1 @ Four-Quadrant, no	1 @Four-Quadrant, median,	1 @ Four-Quadrant,
		median, no vehicle presence	vehicle presence detection	median, no vehicle
		detection		presence detection
			1 @ Four-Quadrant, no	
			median, no vehicle presence	
			detection	
Indiana Avenue and	DOT# 163611P	3 @ Four-Quadrant, no	3 @ Four-Quadrant, median,	3 @ Four-Quadrant,
138th St. Dolton,		median, vehicle presence	vehicle presence detection	median, no vehicle
Riverdale, Chicago, IL		detection	, , , , , , , , , , , , , , , , , , , ,	presence detection
mverdale, ameago, iz		acted to 1		preserve detection
		1 @ Four-Quadrant, median,	1 @ Four-Quadrant, median,	
		vehicle presence detection	no vehicle presence detection	
		vernere presentee detection	no venicle presence detection	
137th Street, Riverdale,	DOT# 163610H	2 @ Four-Quadrant, no	1 @ Four-Quadrant, no	1 @ Four-Quadrant, no
107 cm de dece, miteradae,	2011110001011	median, no vehicle presence	median, no vehicle presence	median, vehicle presence
		detection	detection	detection
			1 @ Four-Quadrant, median,	1 @ Mountable Medians
		reflective traffic	no vehicle presence detection	with reflective traffic
		channelization devices	no venicle presence detection	channelization devices
		charmenzation devices		chaimenzation devices
			1 @ Non-Traversible Curb	
			Medians with or without	
			channelization devices	
130th Ctreat Deltas	DOT# 04014CI	2 @ Mountable Medians with	20 200 M 100 00	1.6.5
138th Street, Dolton,	DO1# 840146L			1 @ Four-Quadrant, no
Chicago, IL		reflective traffic	median, vehicle presence	median, vehicle presence
		channelization devices	detection	detection
		1 @ Four-Quadrant, median,	1 @ Four-Quadrant, median,	1 @ Four-Quadrant, no
		no vehicle presence detection	vehicle presence detection	median, no vehicle
		4.0.5	101 -	presence detection
		1 @ Four-Quadrant, no	1 @ Non-Traversible Curb	1 @ Non-Traversible Curb
		median, no vehicle presence	Medians with or without	Medians with or without
		detection	channelization devices	channelization devices
11 1 4	BOT# 0:01:1=	40N T " "	2011 111 11 11 11	205 6 1
Lincoln Avenue, Dolton, 	DOI#840147T	4 @ Non-Traversible Curb	2 @ Mountable Medians with	3 @ Four-Quadrant, no
IL		Medians with or without	reflective traffic	median, vehicle presence
		channelization devices	channelization devices	detection
			1 @ Four-Quadrant, no	1 @ Four-Quadrant, no
			median, no vehicle presence	median, no vehicle
				Section Control Contro
			detection	presence detection
			detection 1 @ Four-Quadrant, no	presence detection
				presence detection
			1 @ Four-Quadrant, no	presence detection
Park and Lincoln	DOT# 163612W	4 @ Four-Quadrant, no	1 @ Four-Quadrant, no median, vehicle presence	presence detection
Park and Lincoln Avenues, Dolton, IL	DOT# 163612W	4 @ Four-Quadrant, no median, no vehicle presence	1 @ Four-Quadrant, no median, vehicle presence	presence detection

Remarks:

^{1.} All Four-Quadrant upgrades have vehicle presence detection.

^{2.} All Four-Quadrant upgrades include Constant Warning Time (CWT) circuitry.

currently are present. The 137th St. crossing has motion detection and needs to be updated to constant warning time (CWT). The Park Ave. / Lincoln Ave. crossing blocks many vehicles and school children from crossing for long periods of time. Discussion occurred that this crossing is high priority on the FRA blocked crossing list; a special meeting lead by the FRA was held on 11 February 2020 at Dolton Village Hall. The Mayor, Village of Dolton officials, railroad officials, ICC officials, SSMMA representative, Cook County officials, UTC/UIC officials, and FRA representatives attended the meeting.

For the IHB corridor, there is no IHB crossing within 0.5 mile so it can qualify as a stand-alone quiet zone crossing. The Indiana Ave. near 140th St crossing (DOT#326894T) has no train detection listed in the FRA inventory. If four-quadrant gates are recommended, CWT would automatically be included the crossing upgrade. At the bus tour and meeting, the Cottage Grove Ave. crossing (DOT#326886B) was discussed and should not be considered as part of the IHB corridor. If it was considered, then it would be necessary to ascertain if it is on the ICC Chicago Excused List and would need to be updated to CWT.

Four highway-rail crossings reside in the UP corridor. The mountable median with channelization devices had the highest SSM ranking for the 138th St. crossing (DOT#840146L). Bus tour participants ranked "Non-Traversable Curb Medians with or without Channelization Devices" SSM the highest for the Lincoln Ave. crossing (DOT#840147T). The remaining two UP crossings, i.e., 142nd St. (DOT#167450K) and 144th St. (DOT#167451S), had four-quadrant gate upgrades as the highest ranking.

Conclusions and Recommendations

To consider quiet zones in the area, one needs to put a supplementary and/or alternative safety measure. After updating the FRA Quiet Zone Calculator entries with the latest train counts, ten out of ten crossings would require SSMs. However, based on discussions with stakeholders, one crossing was excluded from quiet zone consideration, namely, Cottage Grove Ave. (DOT#326886B and DOT#163613D). To determine feasible SSMs for each of the remaining nine sites, one uses the FRA Quiet Zone Calculator to determine the risk assessment of each pertinent SSM. One then compares the risk assessment to two

thresholds, namely, the latest Nationwide Significant Risk Threshold and Risk Index with Horns. If the calculated SSM risk assessment is less than the two thresholds or less than RIWH, the SSM treatment is feasible. Once one establishes SSM treatment feasibility, further investigation is required to determine if the SSM treatment is physically possible at the site. Where the site has more than one physically viable SSM treatment and not limited by stakeholder feedback, the team considered first the SSM with the least estimated cost.

Pedestrian Safety

In terms of pedestrian/children safety at the at-grade railroad-highway crossings, four sites relatively had high pedestrian crossing traffic based on 24-hour field counts. The 142nd Street railroad crossing in Dolton had relatively high weekday pedestrian traffic at 110 p/day with 38% children probably because of nearby educational buildings and because 142nd Street is a through street. Confirmation of the effect of educational buildings on the presence of children is shown in the distribution of weekday pedestrian counts as indicated in Figure 37. A large children presence is between 8 a.m. and 9 a.m. and between 2 p.m. and 7 p.m.; these durations represent the beginning and end of the school day.

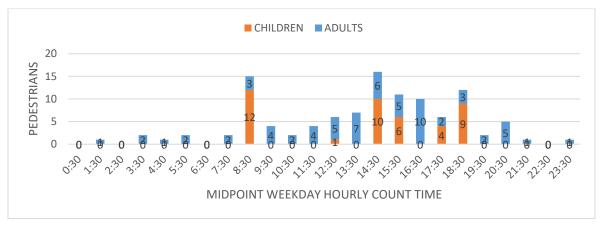


Figure 37. 24-Hour Pedestrian Counts at 142nd Street Railroad Crossing

Another relatively high pedestrian traffic site was the Park Avenue and Lincoln Avenue crossing site in Dolton at 70 weekday p/day with 29% children. This site is near the Dolton Public Library and the Village's Police and Fire Departments. The crossing is a major pedestrian route that connects the residential area north of the crossing to educational and village facilities south of the crossing. Confirmation of pedestrian demand is shown in the

distribution of weekday pedestrian counts as indicated in Figure 38. A large children presence is between 3 p.m. and 5 p.m.; this duration represent the beginning and end of the school and work day and library closing time.

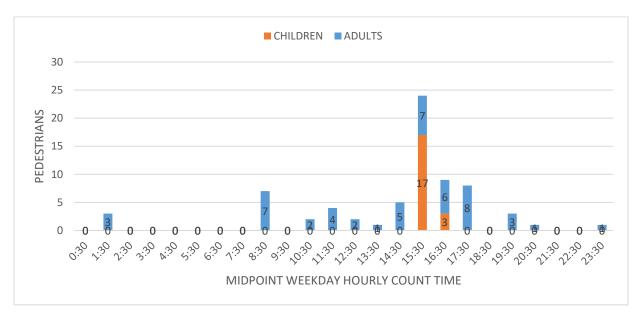


Figure 38. 24-Hour Pedestrian Counts at Lincoln Avenue and Park Avenue Street Railroad Crossing

Based on public meeting feedback and large percentages of children using these crossings, the team recommends pedestrian bridges at both railroad crossings. For the Park Avenue and Lincoln Avenue site, one may integrate the recommended pedestrian bridge into the proposed overlook train-viewing stand at this crossing. The third site, Indiana Avenue and 138th Street crossing, had 100 weekday p/day with 10% children. The fourth site, Indiana Avenue near 140th Street crossing, had 92 weekday p/day with 5% children. Due to the low percentages of children crossing these streets, the team does not recommend pedestrian overpasses at the two sites but does recommend automated pedestrian gates given the relatively high pedestrian counts.

The option of four quadrant gates upgraded from two quadrant gates is feasible for the grade crossings, the cost of that varies depending on the engineering improvements done at each crossings like installation of vehicle presence detection or medians. The FRA estimated cost of that varies from \$100,000 to \$140,000. The most feasible option in terms of cost is to install medians with traffic channelization devices. Medians or channelization devices must

extend at least 100 feet (30 m) from the gate arm or if there is an intersection within this 100 foot (30 m) zone, the median or channelization devices must extend at least 60 feet (18 m) from the gate arm. Intersections within 60 feet (18 m) of the gate arm must be closed or relocated. Driveways for commercial purposes are considered intersections in this context. The cost of putting medians and channelization devices varies from \$13,000 to \$15,000. Table 22 shows the options for each crossing using FRA Quiet Zone analyses.

Table 22. Evaluation of Alternative SSMs

Crossing	Grade Separation	Closure	4- Quadrant Gates	Median and Channelization Devices
UP, 138 th Street, Chicago and Dolton (AADT 1900), DOT# 840146L	Not warranted		Feasible	Feasible
UP, Lincoln Avenue, Dolton (AADT 3600), DOT# 840147T	Not warranted		Feasible	Not Recommended
UP, 142 nd Street, Dolton (AADT 5900), DOT# 167450K	Warranted		Feasible	Not Recommended
UP, 144 th Street, Dolton (AADT 3000), DOT# 167451S	Warranted	Closure of any crossing is not	Feasible	Not Recommended
IHB, Indiana Ave. near 140 th St., Riverdale and Dolton (AADT 4950), DOT# 326894T	Warranted	recommended unless its grade	Feasible with Medians	Not Recommended
CSX/IHB, Cottage Grove Ave., Dolton (AADT 2250), DOT# 163613D/326886B	Warranted	separated as all the roads have relatively	Being Considered (Under CREATE)	Being Considered (Under CREATE)
CSX, Indiana Ave. and 138 th St., Chicago, Riverdale and Dolton (AADT 7600), DOT# 163611P	Warranted	high traffic volumes	Not Recommended	Feasible
CSX, 137 th Street, Riverdale (AADT 575), DOT# 163610H	Not warranted		Feasible	Feasible
CSX, Lincoln Ave and Park Ave, Dolton (AADT 3600), DOT# 163612W	Warranted		Feasible	Not Recommended
CSX, Perry Avenue, Riverdale (AADT 450), DOT# 163609N	Not warranted		Feasible.	Not Recommended
*AADT – Annual Average Daily Traffic	·			

The team performed two series of FRA Quiet Zone Calculator analyses. One used latest FRA data only, and the other analysis replaced some FRA fields with field data, i.e., daily trains, daytime trains, and average daily traffic (ADT). The results of each analysis are in Table 14, Table 15, and Table 16 using FRA only data; Table 18, Table 19, and Table 20 using FRA and field data. Comparison of the results reveals not many differences in terms of SSM treatment feasibility so the results involving only FRA and ICC data are used.

The team does not recommend the one-way street SSM treatment at any of the nine sites because the existing street network does not allow for couplets. Although FHWA guidelines warrant grade separation at six sites, grade separation is only recommended at the Cottage Grove Avenue site. The team does not recommend the remaining five sites for grade separation because of right-of-way constraints and costs. Since grade separation treatment is not recommended for nine sites under quiet zone consideration, the nine sites are also not recommended for street closure SSM treatment.

UP Corridor

Mountable medians with retroreflective channelization devices received the highest ranking from bus tour stakeholders for the 138th St. crossing (DOT#840146L). At the meeting following the bus tour, a suggestion was made to install cantilevered flashing light signals to improve the visibility of the crossing. A mountable median with retroreflective channelization devices is recommended for this crossing. Its QZRI is less than NSRT and RIWH. Cantilevered flashing light signals are recommended at each 138th St. approach to the crossing.

For the Lincoln Ave. crossing (DOT#840147T), all bus tour stakeholders ranked "Non-Traversable Curb Medians with or without Channelization Devices" the highest. A concern was the nearness of a public park driveway to the crossing. Discussion following the bus tour revealed that park access could be changed to more than 60 feet (18 m) from the gates; this change would make the non-traversable curb median measure feasible. The Lincoln Ave. crossing has two cantilevered flashing light signals that are posted. Given the proposed access point change, the "non-traversable curb medians with channelization devices" measure is recommended. Implementing the supplemental safety measure, would lower the crossing's QZRI below RIWH and NSRT.

For the 142nd St. site (DOT#167450K), bus tour participants ranked "upgrade to four-quadrant gates with no median and no vehicle detection" measure as the highest. The 142nd Street site's west leg has a driveway to the Tubman school within 60 feet (18 m) of the gate so medians are not an option. The 142nd St. crossing has two cantilevered flashing light signals that are posted. Since four-quadrant gate upgrades include vehicle presence detection, the "four-quadrant gate upgrade with vehicle presence detection and without

medians" measure is recommended. Given the high percentage of children, i.e., 38%, using the crossing, pedestrian gates, anti-trespassing traffic control devices, and a pedestrian overpass is recommended. Using the FRA Quiet Zone Calculator revealed that the resulting SSM QZRI is less than RIWH and NSRT.

The 144th Street crossing (DOT#167451S) has street access within 60 feet (18 m) of the gates, especially where the east leg has a driveway to Dolton's Public Works Department, so the SSM must have no medians. Four-quadrant gate upgrade treatment received the highest ranking from bus tour participants. Given the presence of the public driveway and ranking, a four-quadrant gate upgrade with vehicle presence detection and without medians is recommended. The resulting QZRI is substantially less than RIWH and NSRT. Four pedestrian gates and anti-trespassing traffic control devices are recommended to improve pedestrian safety since schools are nearby.

IHB Corridor

The Indiana Ave crossing (DOT#326894T) near 140th St. involves four traffic lanes used by motor vehicles. No train detection is listed in the FRA inventory for this crossing. The four-quadrant gate upgrade without barriers received the highest ranking among stakeholders for the crossing. This SSM results in a QZRI that is higher than NSRT and lower than RIWH. The crossing had a relatively high adult pedestrian count. Discussion at a meeting suggested that cantilevered flashing light signals and non-traversable median barriers would improve safety and prevent vehicles from going around closed gates. Four-quadrant gate upgrade with vehicle presence detection and with 8-inch (20 cm) high curb median barriers is recommended. This SSM results in a QZRI that is below NSRT and RIWH. Since 140th St. is within 60 feet (18 m) of the gate arm, a regulatory "No Left Turn" sign would need to be posted on the median barrier facing the 140th St. traffic that approaches Indiana Ave. Cantilevered flashing light signals are recommended at both Indiana Ave. approaches. Four pedestrian gates and anti-trespassing traffic control devices are recommended to improve pedestrian safety.

CSX Corridor

Of the ten crossings considered, CSX Indiana Ave. and 138th crossing (DOT#163611P) had the highest QZRI and is the most complicated since the crossing has the intersection of two

streets. ICC representatives at the 11 February 2020 meeting at the Dolton Village Hall stated that this crossing is in Phase II track realignment under the CREATE Program. The representatives stated that four-quadrant gate upgrades are not feasible given the complicated traffic movements. For this reason, mountable medians with reflective traffic channelization devices are recommended for the 138th Street approaches. Non-traversable curb medians with channelization devices are recommended for Indiana Avenue approaches. To further improve safety at the crossing, cantilevered flashing light signals and pedestrian gates are recommended at each of the four approaches.

The 137th St. crossing (DOT#163610H) is on a residential street. The crossing lacks CWT. On the bus tour of this site, Cook County participants mentioned that there has been trespassing issues at this location. This crossing has motion detection, and one would need to upgrade the crossing to CWT for quiet zone consideration. Questions arose about the ownership of the single-track spur that runs parallel to Michigan Ave. into Contanda Terminals on the Little Calumet River from the 137th St. crossing because at-grade, highway-rail crossings are formed on residential 136th St. and the alley just south of 136th St. involving the spur. The 136th St. and Michigan Ave. crossing and alley crossing have no traffic control devices that would indicate it is a railroad crossing as shown in Figure 39 and Figure 40.



Figure 39. 136th Street Uncontrolled At-Grade Rail-Highway Crossing

The FRA representative on the tour indicated that there are no DOT#s for these crossing. It was later learned via a 14 February 2020 email that CSX Transportation owned the spur. When these two unidentified crossings become "official," they should become part of the quiet zone process given the proximity of residential land-use. Given the circumstances at the 137th St. crossing, four-quadrant gate upgrade is recommended since it includes CWT. Four pedestrian gates and anti-trespassing traffic control devices are recommended to improve pedestrian safety and discourage trespassing.





The Park Ave. and Lincoln Ave. crossing (DOT#163612W) is on a main thoroughfare for school children, commuters, and public transportation. Discussions with stakeholders indicate concern for schoolchildren safety, vehicles going around closed gates, train blockages, and possible train viewing stand to improve economic development. Four-quadrant gate upgrade with vehicle presence detection is recommended for this crossing. Given the high percentage, i.e., 38%, of children using this crossing and train blockage times, four pedestrian gates and a pedestrian overpass are recommended. It may be possible to integrate the pedestrian overpass into the train viewing stand project. Anti-trespassing traffic control devices are also recommended due to the pedestrian volume.

The Perry Ave. crossing's (DOT#163609N) QZRI is slightly below NSRT but higher than RIWH. Since this crossing is near prospective quiet zone crossing, one should considered this crossing for a quiet zone. Otherwise, the train horn blasts at Perry Ave. would be heard throughout the CSX corridor. The Perry Ave. crossing has no automated gates and does not prequalify as a quiet zone since it lacks gates. Therefore, four-quadrant gate new installation with vehicle presence detection is recommended.

Table 23 lists the recommended SSM or ASM treatments for each of the nine sites that meet FRA quiet zone criteria, existing physical constraints, and stakeholder feedback.

Table 23. SSM or ASM Treatment Recommendation

At-Grade Railroad-Highway Crossing Site	Treatment Recommendation
UP, 138 th Street, Dolton, Chicago, DOT# 840146L	Mountable Medians with Retroreflective Traffic
	Channelization Devices
	Two Cantilevered Flashing Light Signals
UP, Lincoln Avenue, Dolton, DOT# 840147T	Non-Traversable Curb Medians with Channelization
	Devices
UP, 142 nd Street, Dolton, DOT# 167450K	Four-Quadrant Gates Upgrade from Two Quadrant
	gates with Vehicle Presence Detection
	Four pedestrian gates with anti-trespassing signage
	Pedestrian overpass
UP, 144th Street, Dolton, DOT# 167451S	Four-Quadrant Gates Upgrade from Two Quadrant
	Gates with Vehicle Presence Detection
111D 1 11 A 111D 1 1 D 11	Four pedestrian gates with anti-trespassing signage
IHB, Indiana Avenue near 140 th Street, Dolton,	Four-Quadrant Gates Upgrade from Two Quadrant
Riverdale, DOT# 326894T	Gates, with Medians and Vehicle Presence Detection
	Two Cantilevered Flashing Light Signals
CSX, Indiana Avenue and 138 th Street, Dolton,	Four pedestrian gates with anti-trespassing signage Mountable medians with Reflective Traffic
Riverdale, Chicago, DOT# 163611P	Channelization Devices for 138th St approaches.
Tilverdale, Officago, DOT# 1030111	Non-Traversable Curb Medians with Channelization
	Devices for Indiana Ave.
	Four Cantilevered Flashing Light Signals
	Eight pedestrian gates
CSX, 137th Street, Riverdale, DOT# 163610H	Four-Quadrant Gates Upgrade from Two Quadrant
, , , , , , , , , , , , , , , , , , , ,	Gates with Vehicle Presence Detection
	Four pedestrian gates with anti-trespassing signage
CSX, Lincoln Avenue and Park Avenue, Dolton, DOT#	Four-Quadrant Gates Upgrade from Two Quadrant
163612W	Gates with Vehicle Presence Detection
	Four pedestrian gates with anti-trespassing signage
	Pedestrian overpass
CSX, Perry Avenue, Riverdale, DOT# 163609N	Four-Quadrant Gates New Installation with Vehicle
	Presence Detection

Estimated Costs by Site by Phase

Table 24 lists estimated costs of the recommended SSM treatments for each site by phase. Estimated Phase III construction costs and annual maintenance costs are based on estimates from the internet (Federal Highway Administration, 2016) (Village of Glendale, 2007) (City of Texarkana, 2008).

Table 24. Cost Estimation

At-Grade Railroad- Highway Crossing	Recommended SSM Treatment		Estima	ted Cost	
		Phase I	Phase II	Phase III	Annual Main- tenance
UP, 138 th St., Dolton, Chicago	Mountable Medians with Reflective Traffic Channelization Devices including cantilevered flashing light signals' material cost	\$15,000	\$16,566	\$138,047	\$647
UP, Lincoln Ave., Dolton	Non-Traversable Curb Medians with Channelization Devices	\$15,000	\$9,131	\$76,095	\$647
UP, 142 nd St., Dolton	Four-Quadrant Gates Upgrade from Two Quadrant gates with Vehicle Presence Detection excluding pedestrian gates with anti-trespassing signage and Pedestrian overpass	\$15,000	\$66,245	\$552,040	\$12,936
UP, 144 th St., Dolton	Four-Quadrant Gates Upgrade from Two Quadrant Gates with Vehicle Presence Detection excluding pedestrian gates with anti-trespassing signage	\$15,000	\$66,245	\$552,040	\$12,936
Subtotal		\$60,000	\$158,187	\$1,318,223	\$27,166
IHB, Indiana Ave. near 140 th St., Dolton, Riverdale	Four-Quadrant Gates Upgrade from Two Quadrant Gates, with Medians and Vehicle Presence Detection including Cantilevered Flashing Light Signals' material cost and excluding pedestrian gates with anti-trespassing signage	\$15,000	\$82,220	\$685,163	\$13,583
Subtotal		\$15,000	\$82,220	\$685,163	\$13,583
CSX, Indiana Ave. and 138 th St., Dolton, Riverdale, Chicago	Mountable medians with Reflective Traffic Channelization Devices for 138 th St approaches and Non-Traversable Curb Medians with Channelization Devices for Indiana Ave. including Cantilevered Flashing Light Signals' material cost and excluding pedestrian gates	\$15,000	\$37,697	\$314,142	\$1,294
CSX, 137 th St., Riverdale	Four-Quadrant Gates Upgrade from Two Quadrant Gates with Vehicle Presence Detection excluding pedestrian gates with anti-trespassing signage	\$15,000	\$66,245	\$552,040	\$12,936
CSX, Lincoln Ave. and Park Ave., Dolton	Four-Quadrant Gates Upgrade from Two Quadrant Gates with Vehicle Presence Detection excluding pedestrian gates with anti-trespassing signage and Pedestrian overpass	\$15,000	\$66,245	\$552,040	\$12,936
CSX, Perry Ave., Riverdale	Four-Quadrant Gates New Installation	\$15,000	\$99,367	\$828,061	\$12,936
Subtotal		\$60,000	\$269,554	\$2,246,283	\$40,102
Grand Total		\$135,000	\$509,960	\$4,249,669	\$80,850

These costs assume a 2% escalation rate per annum to 2020. As a rule-of-thumb, Phase II costs approximately are 12% of construction costs (DAMA Consultants, personal communication, November 4, 2019). Quiet zone planning and preliminary engineering costs, Phase I, are usually fixed at \$15,000 according to experts (Hamilton Consulting Engineers, Inc., 2019). Estimated costs are for preliminary budgetary purposes only. The estimated material cost for one cantilevered flashing light signal is \$50,000; for a bridge flashing light signal, the estimate is \$80,000 (Lindsay Corporation, personal communication, March 3, 2020). Actual costs charged by contractors and consultants vary. The Perry Avenue recommendation is estimated the most costly because the site involves a new installation not an upgrade; the crossing currently has no automated gates and no CWT. The Indiana Avenue and 138th Street crossing complexity of vehicle turning movements, four-quadrant gate upgrades are not recommended; two median treatments are recommended, one at each street.

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Appendix A

Highway-Railroad Handbook summarizes guidelines for closure of public grade crossing and grade separation.

A-1.1 Scenario: Public Grade Crossing Closure

In Illinois, local jurisdictions are responsible for closing public, at-grade crossings. One should consider highway-rail grade crossings for closure and vacated across the railroad right-of-way whenever one or more of the following apply:

- An engineering study determines a nearby crossing otherwise required to be improved
 or grade separated already has acceptable alternate vehicular access, and pedestrian
 access can continue at the subject crossing, if existing.
- 2. On a life-cycle cost basis, the cost of implementing the recommended improvement would exceed the cost of providing an acceptable alternate access.
- 3. If an engineering study determines any of the following apply:
- FRA Class 1, 2, or 3 track with daily train movements:
- AADT less than 500 in urban areas, acceptable alternate access across the rail line exists within 0.4 km (one-quarter-mile), and the median trip length normally made over the subject crossing would not increase by more than 0.8 km (one-half-mile).
- An engineering study determines the crossing should be closed to vehicular and pedestrian traffic when railroad operations will occupy or block the crossing for extended periods of time on a routine basis and it is determined that it is not physically or economically feasible to either construct a grade separation or shift the train operation to another location. Such locations would typically include:
- Railyards.
- Passing tracks primarily used for holding trains while waiting to meet or be passed by other trains.
- Locations where train crews are routinely required to stop their trains because of cross traffic on intersecting rail lines or to pick up or set out blocks of cars or switch local industries en route. iv. Switching leads at the ends of classification yards.
- Where trains are required to "double" in or out of yards and terminals.

- In the proximity of stations where long distance passenger trains are required to make extended stops to transfer baggage, pick up, or set out equipment or be serviced en route.
- Locations where trains must stop or wait for crew changes.

A-1.2 Scenario; Grade Separation of a Public Highway-Rail Grade Crossing

- Highway-rail grade crossings should be considered for grade separation across the railroad right of way whenever the cost of grade separation can be economically justified based on fully allocated life-cycle costs and one or more of the following conditions exist:
- The highway is a part of the designated National Highway System.
- The highway is otherwise designed to have partial controlled access.
- The posted highway speed exceeds 88 km/hr. (55 mph).
- AADT exceeds 50,000 in urban areas or 25,000 in rural areas.
- Maximum authorized train speed exceeds 161 km/hr. (100 mph).
- An average of 75 or more trains per day or 150 million gross tons per year.
- An average of 50 or more passenger trains per day in urban areas or 12 or more passenger trains per day in rural areas.
- Crossing exposure (the product of the number of trains per day and AADT) exceeds 500,000 in urban areas or 125,000 in rural areas; or
- Passenger train crossing exposure (the product of the number of passenger trains per day and AADT) exceeds 400,000 in urban areas or 100,000 in rural areas.
- The expected accident frequency for active devices with gates, as calculated by the U.S. DOT Accident Prediction Formula including five-year accident history, exceeds 0.24.
- Vehicle delay exceeds 30 vehicle hours per day.

⁴ Refer to Appendix "A-1.3 Site Crash Histories"

- An engineering study indicates that the absence of a grade separation structure would result in the highway facility performing at a level of service below its intended minimum design level 10 percent or more of the time.
- ➤ Whenever a new grade separation is constructed, whether replacing an existing highway-rail grade crossing or otherwise, consideration should be given to the possibility of closing one or more adjacent grade crossings.

A-1.3 Site Crash Histories

Indiana Avenue and 138th Street Rail-Highway Crossing

1955 through 2017	PDO Traffic Crashes	26
	Fatalities	1
	Injuries	18
	Time of Day	6 morning
	•	8 afternoon
		13 evening
		18 night
	User Involvement	35 automobile
		1 bicycle
		0 other
		4 pedestrian
		4 truck
		1 unknown
	Collision Type	4 pedestrian
	•	31 train-vehicle
		10 vehicle-train
	Weather	20 clear
		3 cloudy
		3 rain
		2 snow
		17 unknown
USDOT Accident	Collisions per year	0.12
Prediction Formula		

138th Street Rail-Highway Crossing

1955 through 2017	PDO Traffic Crashes	26
	Fatalities	1
	Injuries	18
	Time of Day	5 morning
		7 afternoon
		12 evening
		21 night
	User Involvement	35 automobile
		1 bicycle
		0 other
		4 pedestrian
		4 truck
		1 unknown
	Collision Type	4 pedestrian
		31 train-vehicle
		10 vehicle-train
	Weather	20 clear
		3 cloudy
		3 rain
		2 snow
		17 unknown
USDOT Accident Prediction Formula	Collisions per year	0.02

Perry Avenue Rail-Highway Crossing

1955 through 2017	PDO Traffic Crashes	18
_	Fatalities	1
	Injuries	28
	Time of Day	4 morning
		7 afternoon
		22 evening
		14 night
	User Involvement	38 automobile
		0 bicycle
		0 other
		1 pedestrian
		8 truck
	O-11:-:	0 unknown
	Collision Type	1 pedestrian
		22 train-vehicle
	Woothor	24 vehicle-train
	Weather	8 clear
		5 cloudy 2 rain
		1 snow
		31 unknown
		31 UTKIOWII
USDOT Accident Prediction Formula	Collisions per year	0.02

144th Street Rail-Highway Crossing

1955 through 2017	PDO Traffic Crashes	20
	Fatalities	0
	Injuries	4
	Time of Day	1 morning 1 afternoon 2 evening 3 night
	User Involvement	21 automobiles 2 other 0 pedestrian
		1 truck
	Collision Type	0 pedestrian
		12 train-vehicle
		12 vehicle-train
	Weather	16 clear
		5 cloudy
		1 rain
		1 snow
		1 unknown
USDOT Accident Prediction Formula	Collisions per year	0.08

Indiana Avenue near 140th Street Rail-Highway Crossing

1955 through 2017	PDO Traffic Crashes	28
	Fatalities	0
	Injuries	7
	Time of Day	0 morning
		0 afternoon
		14 evening
		21 night
	User Involvement	33 automobile
		1 bicycle
		0 other
		1 pedestrian
		0 truck
		0 unknown
	Collision Type	1 pedestrian
		23 train-vehicle
		11 vehicle-train
	Weather	14 clear
		5 cloudy
		3 rain
		2 snow
	2	11 unknown
USDOT Accident Prediction Formula	Collisions per year	0.04

137th Street Rail-Highway Crossing

1955 through 2017	PDO Traffic Crashes	20
	Fatalities	1
	Injuries	7
	Time of Day	4 morning
		0 afternoon
		8 evening
		16 night
	User Involvement	24 automobile
		1 bicycle
		0 other
		1 pedestrian
		2 truck
		0 unknown
	Collision Type	1 pedestrian
		18 train-vehicle
		9 vehicle-train
	Weather	13 clear
		11 cloudy
		1 rain
		0 snow
		3 unknown
USDOT Accident Prediction Formula	Collisions per year	0.02

Lincoln Avenue Rail-Highway Crossing

1955 through 2017	PDO Traffic Crashes	2
	Fatalities	1
	Injuries	4
	Time of Day	3 evening
		4 night
	User Involvement	5 automobiles
		1 other
		1 pedestrian
	Collision Type	1 pedestrian
		5 train-vehicle
		1 vehicle-train
	Weather	3 clear
		1 rain
		1 snow
		2 unknown
USDOT Accident	Collisions per year	0.02
Prediction Formula		

Park Avenue and Lincoln Avenue Rail-Highway Crossing

1955 through 2017	PDO Traffic Crashes	25
	Fatalities	1
	Injuries	4
	Time of Day	6 morning
	5. 2 4,	2 afternoon
		8 evening
		14 night
	He ex lassely execut	
	User Involvement	25 automobile
		1 bicycle
		1 other
		1 pedestrian
		2 truck
	Collision Type	1 pedestrian
	• •	19 train-vehicle
		10 vehicle-train
	Weather	19 clear
	Wedner	1 cloudy
		4 rain
		2 snow
		4 unknown
USDOT Accident Prediction Formula	Collisions per year	0.08

FRA Web Based Accident Prediction Value

	Accident Prediction Value
Site	as of December 31, 2018
	(crashes/year)
Indiana Ave. and 138th St, AAR 163611P	0.115114
138 th St., AAR 840146L	0.017138
Lincoln Ave., AAR 840147T	0.023841
Indiana Ave. near 140 th St., AAR 326894T	0.044298
137 th St., AAR 163610H	0.020256
Cottage Grove Ave., AAR 326886B	0.001728
Park Ave. and Lincoln Ave., AAR 163612W	0.077355
142 nd St., AAR 167450K	0.035373
144 th St., AAR 167451S	0.080822
Perry Ave., AAR 163609N	0.020073

A-1.4 FRA Quiet Zone Calculator

Formula

 $a=K \times EI \times MT \times DT \times HP \times MS \times HT \times HL$

Where:

a = initial collision prediction, collisions per year at the crossing

K = formula constant

El = factor for exposure index based on product of highway and train traffic

MT = factor for number of main tracks

DT = factor for number of through trains per day during daylight

HP = factor for highway paved (yes or no)

MS = factor for maximum timetable speed

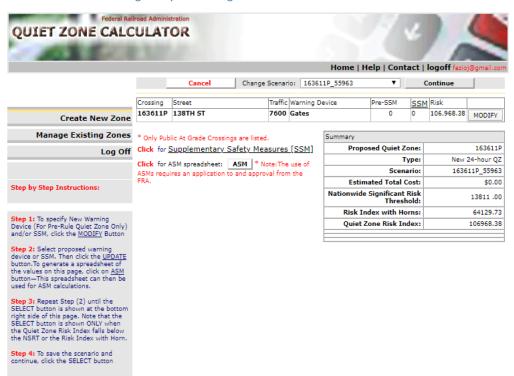
HT = factor for highway type

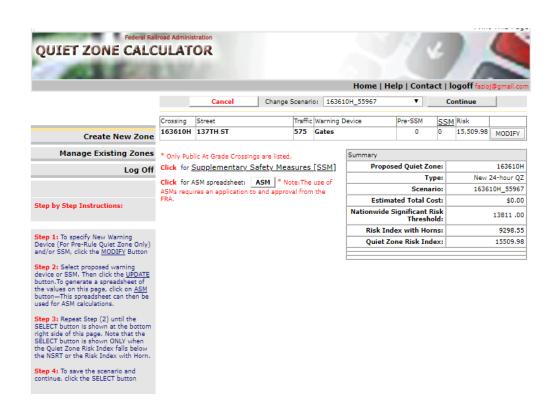
HL = factor for number of highway lanes

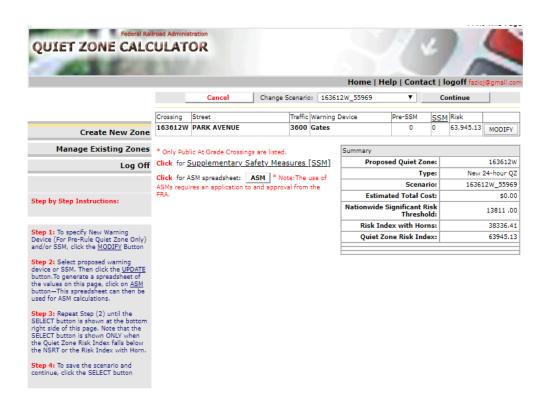
Crossing Category	Formula constant K
Passive	0.002268
Flashing lights	0.003646
Gates	0.001088

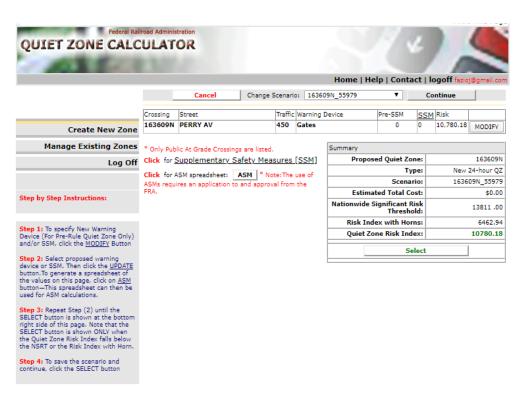
Results Using FRA Data

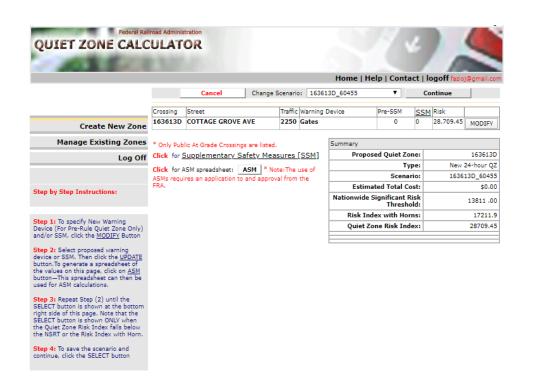
CSX At-Grade Rail-Highway Crossings



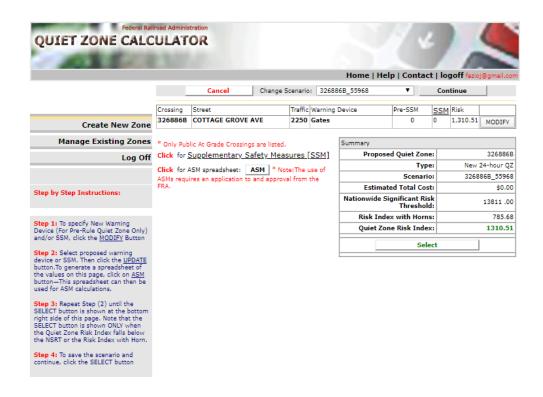


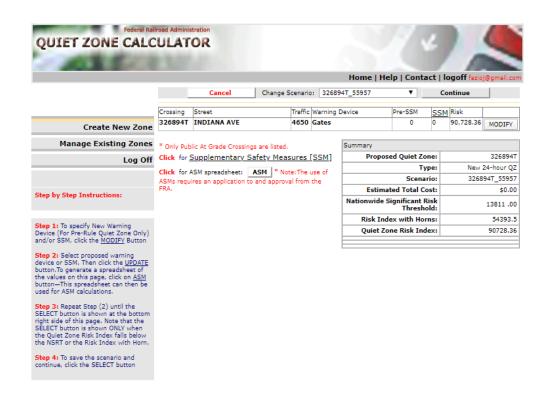




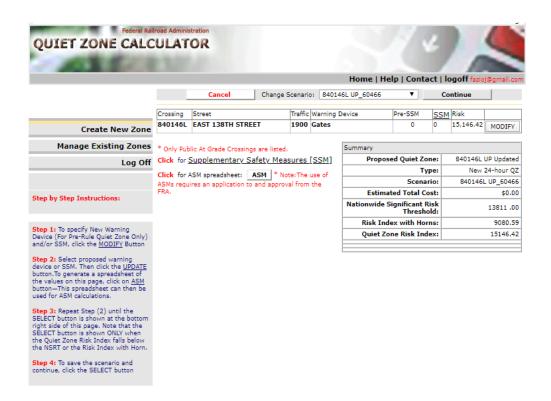


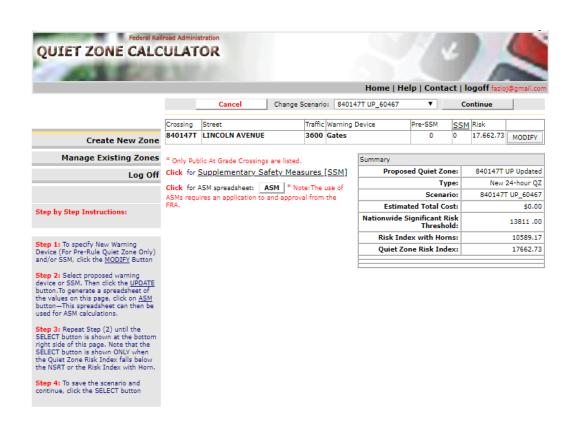
IHB At-Grade Rail-Highway Crossings

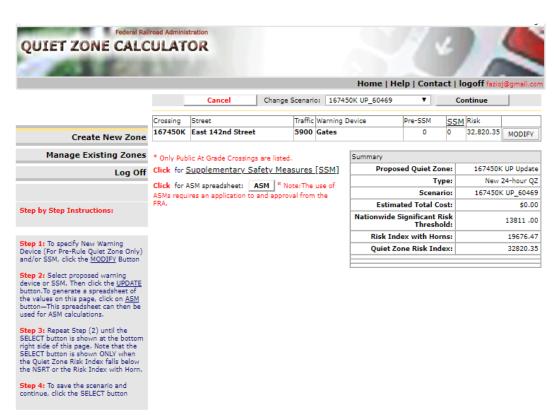




UP At-Grade Rail-Highway Crossings







Federal Railroad Administration QUIET ZONE CALCULATOR

Home | Help | Contact | logoff fazio Change Scenario: 167451S UP_60470 ▼ Continue Traffic Warning Device Pre-SSM SSM Risk

0

0 40,769.09 MODIFY

Create New Zone

Step by Step Instructions:

Step 1: To specify New Warning Device (For Pre-Rule Quiet Zone Only) and/or SSM, click the MODIFY Button

Step 2: Select proposed warning device or SSM. Then click the <u>UPDATE</u> button.To generate a spreadsheet of the values on this page, click on <u>ASM</u> button—This spreadsheet can then be used for ASM calculations.

Step 3: Repeat Step (2) until the SELECT button is shown at the bottom right side of this page. Note that the SELECT button is shown ONLY when the Quiet Zone Risk Index falls below the NSRT or the Risk Index with Horn.

Step 4: To save the scenario and continue, click the SELECT button

Manage Existing Zones * Only Public At Grade Crossings are listed.

Cancel

167451S EAST 144TH STREET

Crossing Street

Log Off Click for Supplementary Safety Measures [SSM]

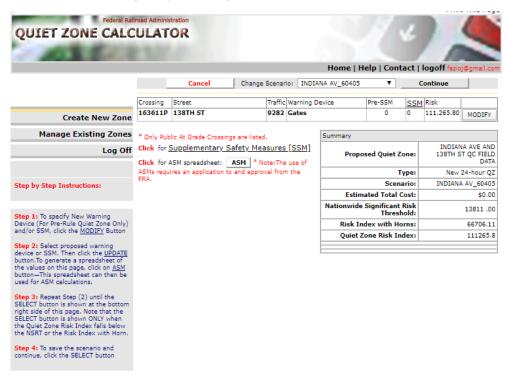
3000 Gates

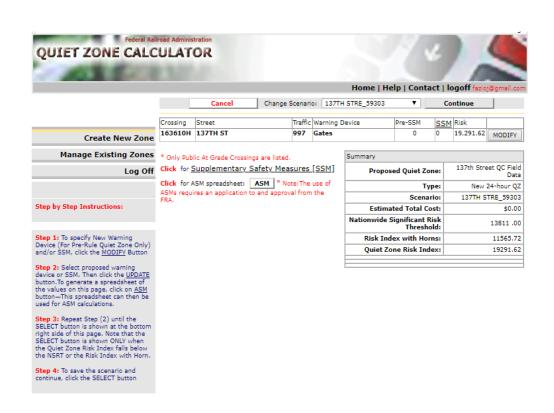
Click for ASM spreadsheet: ASM * Note: The use of ASMs requires an application to and approval from the FRA.

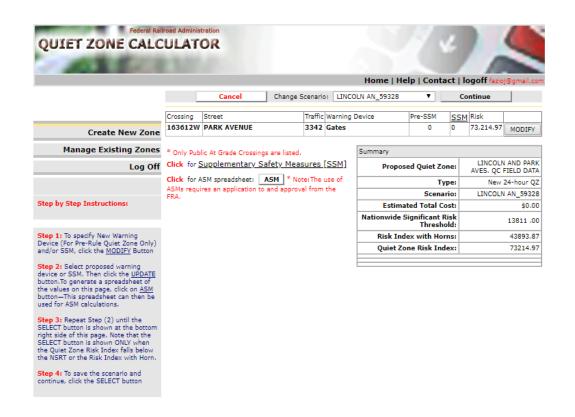
Summary	
Proposed Quiet Zone:	167451S UP Update
Туре:	New 24-hour QZ
Scenario:	1674515 UP_60470
Estimated Total Cost:	\$0.00
Nationwide Significant Risk Threshold:	13811 .00
Risk Index with Horns:	24441.9
Ouiet Zone Risk Index:	40769.09

Results Using Field Data

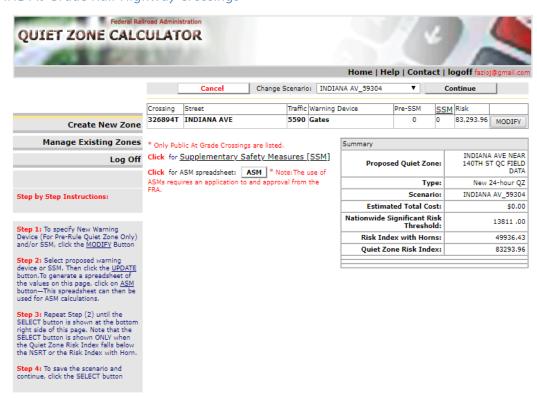
CSX At-Grade Rail-Highway Crossings



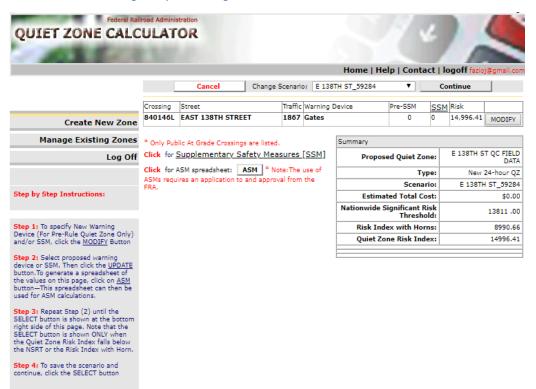


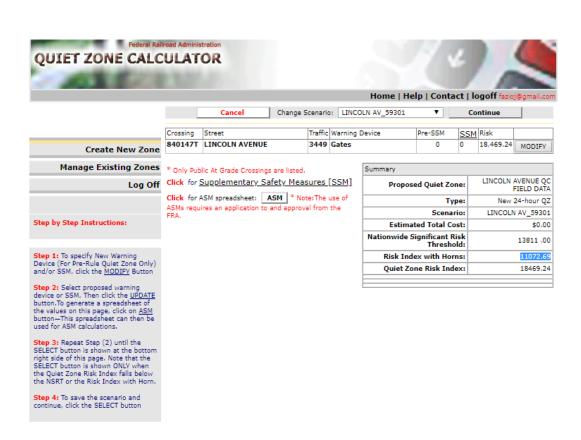


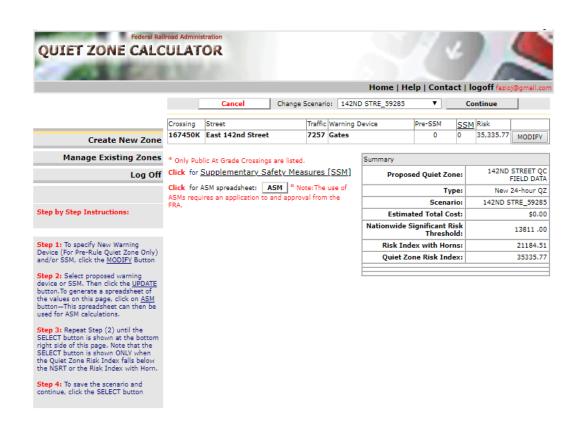
IHB At-Grade Rail-Highway Crossings

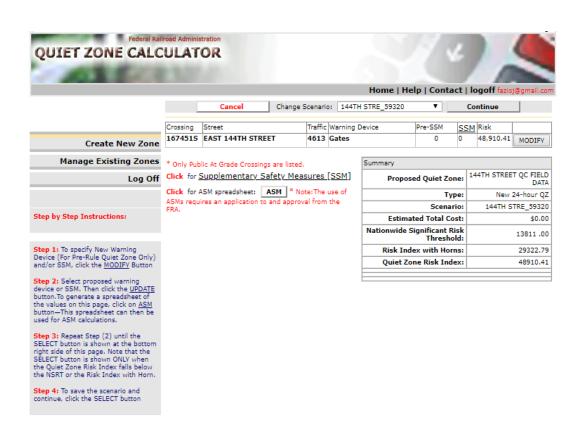


UP At-Grade Rail-Highway Crossings









A-1.5 ICC Grade Crossing Inventory

	Project ID: 1	Project ID: 2	Project ID: 3	Project ID: 4	Project ID: 5	Project ID: 6	Project ID: 7	Project ID: 8	Project ID: 9	Project ID: 10
DOT/AAR Number:	163611P	840146L	840147T	326894T	163610H	326886B	163610H	163612W	167450K	1674515
Status:	Open	Open	Open	Open	Open	Open	Open	Open	Open	Open
Railroad:	CSX Transportation, Inc.	Union Pacific Railroad Company	Union Pacific Railroad Company	Indiana Harbor Belt Railroad Co.	CSX Transportation, Inc.	Indiana Harbor Belt Railroad Co.	CSX Transportation, Inc.	CSX Transportation, Inc.	Union Pacific Railroad Company	Union Pacific Railroad Company
Milepost:	11.08	16.47	16.58	10.68	11.32	9.77	11.32	10.62	16.98	17.23
ICC Line Code:	A	CWID	CWID	A	A	В	A	A	CL	CL
Crossing Type:	Public	Public	Public	Public	Public	Public	Public	Public	Public	Public
If Private Crossing, Type:	Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk
County Name:	Cook	Cook	Cook	Cook	Cook	Cook	Cook	Cook	Cook	Cook
City Name:	CHICAGO	CHICAGO	DOLTON	RIVERDALE	RIVERDALE	DOLTON	RIVERDALE	DOLTON	DOLTON	DOLTON
In Or Near:	In	In	In	In	In	In	In	In	In	In
Street Name:	138TH ST	138TH ST	LINCOLN AVENUE	INDIANA AVE	137TH ST	COTTAGE GROVE AVE	137TH ST	PARK AVENUE	142ND ST	E 144TH ST
Highway Number:	FAU1597	FAU1597	FAU3593	FAU2906	MUN3002	MUNI	MUN3002	FAU3593	FAU1599	FAU1601
Maximum Warning Devices:	Gates	Gates	AFLS-Gates-Cant-over	AFLS-Gates-Cant-over	Gates	Gates	Gates	AFLS-Gates-Cant-over	AFLS-Gates-Cant-over	Gates
Railroad Division:	CHICAGO	CHICAGO	CHICAGO	IHB-SYSTEM	CHICAGO	IHB-SYSTEM	CHICAGO	CHICAGO	CHICAGO	CHICAGO
Railroad Subdivision:	BARR	VILLA GROVE SU	VILLA GROVE SU		BARR		BARR	BARR	VILLA GROVE SU	VILLA GROVE SU
Number of Main Tracks:	2	2	2	2	2	2	2	5	2	2
Number of Other Tracks:	1	0	0	1	1	0	1	0	2	4
Crossing Surface Type:	Timber	Concrete	Concrete	Asphalt	Timber	Concrete	Timber	Asphalt	Rubber	Concrete
Average Number of Daily Trains:	45	0	14	67	50	20	50	51	35	40
Average Number of Daily Passenger Trains:	0	0	2	0	0	0	0	0	0	2
Passenger Train Type:			Intercity Passenger							
Train Speed - Timetable:	20	0	20	25	20	30	20	20	60	20
Train Speed - Minimum Likely:	1	0	10	20	5	15	5	15	20	10
Train Speed - Maximum Likely:	20	20	20	25	20	30	20	20	60	20
AADT:	6850	1800	7450	4950	900	2150	900	7450	6600	3600
Traffic Lanes:	8	2	2	4	2	2	2	2	2	2
Truck Percent:	8	14	10	4	6	19	6	10	7	5
Angle of Intersection - Road to Rail:	60° to 90°	60° to 90°	30° to 59°	60° to 90°	60° to 90°	60° to 90°	60° to 90°	60° to 90°	60° to 90°	60° to 90°
FHWA Road Class:	Urban / ColMaj	Urban / ColMaj	Urban / ColMaj	Urban / ArtMin	Urban / Local	Urban / ColMaj	Urban / Local	Urban / ColMaj	Urban / ArtMin	Urban / ColMaj
On State Highway:										
Pavement Markings:	Stop Lines	None	Both-Line/Symbl	Both-Line/Symbl	Both-Line/Symbl	Both-Line/Symbl	Both-Line/Symbl	Both-Line/Symbl	Both-Line/Symbl	Both-Line/Symbl
Advanced Warning Signs:	No	No	Yes	No	No	Yes	No	Yes	No	Yes
Road Intersection Near:	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DOT Structure ID 1:										
FRA Quiet Zone:	0		0	1		0		1		0
Latitude:	41.644589	41.64472	41.643009	41.64055	41.64666	41.640747	41.64666	41.640801	41.63722	41.633526
Longitude:	-87.61725	87.61222	-87.612263	87.61722	87.61972	-87.597851	87.61972	-87.609913	87.61222	-87.61263
LAT LONG Source:	A	A	A	A	A	A	A	A	A	A
ENS Sign:										
EMERGENCY Phone Number:	8002320144	8008488715	8008488715	8557828630	8002320144	8557828630	8002320144	8002320144	8008488715	8008488715
Posted Highway Speed:	30	35	25	30	0	30	0	25	30	25
Narrative Railroad:										
Narrative State 1:						ALSO 163613D				
Data Last Updated:	5/9/2017	5/9/2017	5/9/2017	5/9/2017	5/9/2017	5/9/2017	5/9/2017	5/9/2017	3/23/2018	3/24/2018

A-1.6 Description of Crossings Currently under Quiet Zone

IHB Corridor

Indiana Avenue near 140th Street Rail-Highway Crossing Description, DOT# 326894T, IHB Railroad

The site is located latitude 41.64055° and longitude -87.61722° that half resides in Riverdale and the other half in Dolton, Illinois, and in the County of Cook. This crossing is at Indian Avenue near 140th Street intersecting three IHB railroads. This crossing is surrounded by industrial and residential land use. The crossing is equipped with flashing lights on cantilever, cross bucks, gates, roadway markings and advance warning signs on one side. There is a driveway opening at 40 feet (12 m) from the gate. This road has quiet less truck traffic but highest number of trains passes through this crossing in study area. The following photographs show the existing roadway and railway approaches to crossings.



Crossing information from FRA and ICC grade crossing inventory:

Roadway		Railroad				
AADT	4650	Total Trains per Day	77			
% Trucks	6	Total Switching	10			
Posted Speed	30	Max Train speed (mph)	25			
# of Lanes	4	# of Tracks	3			
Highway type	Minor Arterial	Crossing Surface	Asphalt and Timber			
			Flange			
	Inte	rsection				
Exposure Factor		358,050				
Total Accidents (5 years)		1				
Warning Devices		Cant AFLS/Gates/Cross Bucks				

The crossing meets the minimum requirement of MUTCD guidelines for passive devices. As for utilities, low-voltage lines and poles run parallel of the railroad tracks on the south side, and their wires string across Indiana Avenue south of the tracks. Low-voltage lines and poles are along the west side of Indiana Avenue, and their wires string across the three tracks. Other lines and poles run parallel of the tracks on the north side, the lines cross Indiana Avenue north of the crossing. Streetlights are along the west side of Indiana Avenue. Underground water pipes are along the west side of Indiana Avenue.

CSX Corridor

Lincoln Avenue and Park Avenue Rail-Highway Crossing Description, DOT# 163612W, CSX Railroad

The site is located latitude 41.6408010° and longitude -87.6099130° that is in Dolton, Illinois and in the County of Cook. The crossing at Lincoln Ave. and Park Avenue intersect five CSX railroad tracks. This crossing is equipped with flashing lights on cantilever, two gates, sidelights, cross bucks, roadway markings and two pedestrian gates on adjacent sides. Since last five years, there was one train to vehicle accident. The land use surrounding the crossing is institutional and industrial area. The following photographs show the existing roadway and railway approaches to crossings.







As for utilities, low-voltage lines and poles are along the western side of Lincoln Avenue and Park Avenue; low-voltage lines string across the crossing. Streetlights are along the the

western side of the street. Underground water pipes are along the western side of Lincoln Avenue and Park Avenue.

Crossing information from FRA and ICC grade crossing inventory:

Roadway		Railr	road	
AADT	3600	Total Trains per Day	36	
% Trucks	13	Total Switching	3	
Posted Speed	25	Max Train speed (mph)	20	
# of Lanes	2	# of Tracks	4	
Highway type	Collector	Crossing Surface	Rubber	
		Intersection		
Exposure Factor		129,600		
Total Accidents (5 ye	ears)	1		
Warning Devices Cant AFLS/Gates/Sidelights/Cross Buck			hts/Cross Bucks/Ped	
		Gates		

A-1.7 Constant Warning Time (CWT) Systems

A constant warning time system has the capability of sensing a train as it approaches a crossing, measuring its speed and distance from the crossing, and activating the traffic control devices to provide the desired warning time. Traffic control systems equipped with CWT provide relatively uniform warning times where train speeds vary and trains do not accelerate or decelerate within the approach circuits once the devices have activated. Trains may perform low speed switching operations beyond 700 feet (213 m) from a crossing without causing the crossing devices to unnecessarily activate. This reduces or eliminates excess gate operation that in turn, causes unnecessary delays to highway traffic. Like motion sensitive systems, if a train stops within the approach circuit before reaching the crossing the traffic control devices will deactivate.

Constant Warning Time Circuitry – Railroad signal system elements that use a train's approach speed to determine when it will reach a grade crossing, and then start the crossing gate cycle a specified time before the train reaches the crossing.

Power Out Indicator – A wayside device that notifies an approaching train crew whether or not the active warning system at a grade crossing has appropriate power.

Pre-Rule Quiet Zones, in some locations, communities had legacy "whistle bans," which were established by local ordinance or through agreements with railroads in accordance with state laws, or through informal agreements honored or abided by a railroad. Whistle ban communities were required by law and FRA's regulations to affirmatively state their intention to preserve them by submitting specific paperwork converting the ban to a "pre-rule quiet zone." Those that failed to do so lost their special status and railroads resumed routine sounding of horns. Pre-rule quiet zone communities that completed the required paperwork were granted an extended grace period (from 5 to 8 years) to achieve compliance with certain rule requirements.

Appendix B

B-1.1 Updated Train Counts

1/28/2020

Mail - Fazio, Joseph - Outlook

Re: Average train count estimations for four UP at-grade highway-rail crossings in Dolton, Illinois

Randall N. Schreck <rnschrec@up.com> on behalf of UPCrossings <upcrossings@up.com>

Mon 1/27/2020 12:43 PM

To: Fazio, Joseph <jfazio@uic.edu>

Crossing have been updated in FRA inventory GCIS

From: "Fazio, Joseph" <jfazio@uic.edu>

To: "UPCrossings@UP.com" < UPCrossings@UP.com>

Date: 01/27/2020 10:50 AM

Subject: Average train count estimations for four UP at-grade highway-rail crossings in Dolton, Illinois

* PROCEED WITH CAUTION - This email was sent from outside the Company *

Dear UP,

Four UP at-grade, highway-railroad crossings' data are of interest for us. FRA is requiring us to use the latest train count estimations. Current UP estimations in the FRA crossing inventory for the four crossings are more than three years old. The four crossings are:

DOT# 840146L 138th St., Dolton and Chicago, Illinois 6 Day 6 night no switching
DOT# 840147T Lincoln Ave., Dolton, Illinois 6 day, 6 night no switching
DOT# 167450K 142nd St., Dolton, Illinois 9 day, 8 night 10 switching
DOT# 167451S 144th St., Dolton, Illinois 9 day 8 night 10 switching

We need latest estimations of mean daytime trains, mean nighttime trains, and mean switching trains using the four crossings for a typical day.

Thanks in advance,

Dr. Joe Fazio, PE, PTOE
Visiting Research Specialist
Urban Transportation Center
University of Illinois at Chicago
412 S. Peoria St., 340 CUPPA (MC 357)
Chicago, IL 60607-7036
tel.: 1-312-413-4663

https://outlook.office.com/mail/AAMkADM1NmM2YzJhLTc1YzgtNDY1ZS1hYjM3LWM4ODFIZDJiZDUwYwAuAAAAAAC6X6UQRRXrQqruWuh3nbEJA... 1/2

B-2.1 Field Data Collection

Schedule

The team conducted traffic counts of trains, vehicles, and pedestrians for a 24-hour period at eight of the ten sites. The purpose of the counts was to verify ICC, FRA, and CMAP data and to assess adult and children crossing at the sites. The team used a time-lapse video camera to gather the 24-hour video of traffic on weekdays. The video recording occurred on a schedule.

Date	Begin Time	Site
Tuesday, 15 October 2019	11:30 am	Park Ave/Lincoln Ave, Dolton
Thursday, 17 October 2019	11:15 am	142 nd Street, Dolton
Tuesday, 22 October 2019	11:15 am	138 th Street, Dolton
Thursday, 24 October 2019	11:45 am	144 th Street, Dolton
Tuesday, 29 October 2019	11:30 am	Indiana Ave near 140 th , Dolton
Thursday, 31 October 2019	11:30 am	Indiana Ave at 138th, Dolton
Tuesday, 5 November 2019	11:30 am	Lincoln Ave, Dolton
Thursday 7 November 2019	11:15 am	137 th St, Riverdale

The team reduced the video in the laboratory. To insure quality control, a different team member recounted the 15-minute counts, and any discrepancies were accounted and corrected.

Lincoln Avenue and Park Avenue Rail-Highway Crossing

NAME: Mary Talarico TODAY'S DATE: December 5, 2019

SITE NAME: Lincoln and Park Ave LOCATION: Lincoln Ave and Park Ave RR Crossing, Dolton, IL

VIDEO BEGIN DATE: 15 October 2019 VIDEO BEGIN TIME: 11:30:00 OTHER:

TALLY MARK CODES: I = locomotive, train c = car, van, minivan, SUV, pick-up truck b = bus t = single-unit truck, tractor-trailer truck pa = adult pedestrian pc = child pedestrian <math>k = bicycle

15-minute	OUTBOUND		INBOUND T		вотн	
interval	compass dire	ection: NB	compass di	ection: SB	DIRECTION	S
1	I =	0	I =	1] =	1
	c =	23	c =	25	c =	48
	b =	1	b =	0	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
2	I=	0	I=	0	ľ=	0
_	c =	30	c =	25	c =	55
	b =	1	b =	0	b =	1
	t =	2	t =	3	t =	5
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	K -	Ü	K.	Ü	K-	· ·
3	I =	1	[=	0	I =	1
	c =	3	c =	2	c =	5
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
4	I =	1	I=	2	I=	3
	c =	35	c =	27	c =	62
	b =	1	b =	0	b =	1
	t =	3	t =	2	t =	5
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	3]=	5
	c =	91	c =	79	c =	170
	b =	3	b =	0	b =	3
	t =	6	t =	5	t =	11
	pa =	0	pa =	4	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
		-		-		-

5	I =	0	[=	0	I =	0
	c =	31	c =	25	c =	56
	b =	2	b =	1	b =	3
	t =	1	t =	2	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
6	l =	0	[=	0	I =	0
	c =	21	c =	28	c =	49
	b =	1	b =	1	b =	2
	t =	0	t =	2	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
7	I =	0	l =	0	I =	0
	c =	22	c =	22	c =	44
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	2					
8	=	0	l =	1	<u> </u>	1
	c =	25	c =	10	c =	35
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
HOUR SUBTOTAL:	l =	0	I=	1	I =	1
	c =	99	c =	85	c =	184
	b =	3	b =	2	b =	5
	t =	2	t =	5	t =	7
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	2	k =	0	k =	2
	K =	2	K -	U	K -	2

9	I =	0	I =	0	I =	0
	c =	15	c =	18	c =	33
	b =	1	b =	0	b =	1
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
10	I =	0	I =	0	I =	0
	c =	29	c =	30	c =	59
	b =	1	b =	1	b =	2
	t =	1	t =	3	t =	4
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
11	I =	2	I =	0	[=	2
	c =	24	c =	13	c =	37
	b =	0	b =	1	b =	1
	t =	2	t =	0	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
12	I =	0	I =	1	I =	1
	c =	19	c =	10	c =	29
	b =	2	b =	0	b =	2
	t =	0	t =	1	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
HOUR SUBTOTAL:	I =	2	I=	1	I =	3
	c =	87	c =	71	c =	158
	b =	4	b =	2	b =	6
	t =	5	t =	5	t =	10
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1

13	I =	1	[=	0	I =	1
	c =	12	c =	9	c =	21
	b =	0	b =	1	b =	1
	t =	0	t =	3	t =	3
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
14	I =	1	I =	0	I =	1
	c =	9	c =	9	c =	18
	b =	0	b =	1	b =	1
	t =	0	t =	1	t =	1
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
15	I =	0	I =	0	I =	0
	c =	38	c =	27	c =	65
	b =	4	b =	1	b =	5
	t =	0	t =	1	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
16	=	1	I =	1	[=	2
	c =	43	c =	35	c =	78
	b =	1	b =	0	b =	1
	t =	1	t =	1	t =	2
	pa =	2	pa =	0	pa =	2
	pc =	13	pc =	0	pc =	13
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	3	I=	1	I =	4
	c =	102	c =	80	c =	182
	b =	5	b =	3	b =	8
	t =	1	t =	6	t =	7
	pa =	5	pa =	1	pa =	6
	pc =	13	pc =	0	pc =	13
	k =	0	k =	0	k =	0

17	I =	0	I =	1	[=	1
	c =	31	c =	58	c =	89
	b =	1	b =	1	b =	2
	t =	0	t =	1	t =	1
	pa =	1	pa =	1	pa =	2
	pc =	4	pc =	0	pc =	4
	k =	0	k =	0	k =	0
18	I =	0	I =	0	I =	0
	c =	29	c =	35	c =	64
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
19	I =	0	I =	1	[=	1
	c =	23	c =	39	c =	62
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
20	I =	0	l =	0	[=	0
	c =	33	c =	52	c =	85
	b =	1	b =	3	b =	4
	t =	0	t =	1	t =	1
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	2	I =	2
	c =	116	c =	184	c =	300
	b =	4	b =	6	b =	10
	t =	0	t =	2	t =	2
	pa =	2	pa =	5	pa =	7
	pc =	4	pc =	0	pc =	4
	k =	0	k =	0	k =	0

21	I =	1	I =	0	I =	1
	c =	24	c =	39	c =	63
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
22	I =	0	I=	1	I =	1
	c =	17	c =	28	c =	45
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	2	pa =	2
	pc =	3	pc =	0	pc =	3
	k =	0	k =	0	k =	0
23	I =	0	I =	0	<u>I</u> =	0
	c =	31	c =	37	c =	68
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	3	pa =	2	pa =	5
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
24	I =	0	l =	0	<u> </u>	0
	c =	37	c =	56	c =	93
	b =	1	b =	1	b =	2
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	1	I =	2
	c =	109	c =	160	c =	269
	b =	4	b =	3	b =	7
	t =	1	t =	0	t =	1
	pa =	3	pa =	5	pa =	8
	pc =	3	pc =	0	pc =	3
	k =	1	k =	0	k =	1

25	I =	0	[=	1	I =	1
	c =	32	c =	46	c =	78
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
26	I =	0	I =	0	I =	0
	c =	28	c =	28	c =	56
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
27	l =	0	I =	0	I =	0
	c =	27	c =	60	C =	87
	b =	1	b =	1	b =	2
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
28	I =	0	[=	0	I =	0
	c =	35	c =	46	c =	81
	b =	1	b =	0	b =	1
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	[=	1
	c =	122	c =	180	c =	302
	b =	3	b =	2	b =	5
	t =	0	t =	2	t =	2
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1

29	I =	1	I =	1	I =	2
	c =	6	c =	3	c =	9
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
30	I =	1	I=	0	I =	1
	c =	0	c =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
31	I =	0	I =	0	[=	0
	c =	0	c =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
32	I =	0	I =	0	I =	0
	c =	30	c =	31	c =	61
	b =	2	b =	2	b =	4
	t =	0	t =	0	t =	0
	pa =	2	pa =	1	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
HOUR SUBTOTAL:	I =	2	I=	1	I=	3
	c =	36	c =	34	c =	70
	b =	3	b =	2	b =	5
	t =	0	t =	0	t =	0
	pa =	2	pa =	1	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1

33	I =	0	I =	0	I =	0
	c =	26	c =	24	c =	50
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
24	1		1	0	1	
34	l =	1	L=	0	I=	1
	c =	22	c =	6	c =	28
	b =	0	b =	1	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
35	I =	0	I=	0	1=	0
	c =	22	c =	27	c =	49
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
36	I =	0	I =	0	I=	0
	c =	19	c =	19	c =	38
	b =	2	b =	1	b =	3
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	1	I=	0	E=	1
TIOOK SOBTOTAL.	c =	89	c =	76	c =	165
	b =	2		3	b =	
	t =		b =	1		5
		1	t =		t =	2
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

37	I =	0	I =	0	I =	0
	c =	16	c =	22	c =	38
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
38	I =	0	l =	0	I =	0
	c =	19	c =	20	c =	39
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
39	I =	0	l =	0	I =	0
	c =	13	c =	23	c =	36
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
40	I =	0	l =	0	I =	0
	c =	10	c =	15	c =	25
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
LIQUID CURTOTAL	1	0		0	1	0
HOUR SUBTOTAL:	l =	0	I=	0	I =	0
	c =	58	c =	80	c =	138
	b =	1	b =	2	b =	3
	t =	2	t =	0	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

41	I =	0	I =	0	I =	0
	c =	12	c =	13	c =	25
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
42	I=	0	I=	0	I=	0
72	c =	14	c =	15	c =	29
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	к –	Ü	Κ-	Ū	κ –	· ·
43	l =	0	l =	1] =	1
	c =	19	c =	18	c =	37
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
44	I =	0	I =	0	I=	0
	c =	10	c =	5	c =	15
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
		Ü	K	Ü	N. Control of the Con	Ü
HOUR SUBTOTAL:	I =	0	I =	1	I =	1
	c =	55	c =	51	c =	106
	b =	2	b =	1	b =	3
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

45	I =	0	I =	0	I =	0
	c =	14	c =	10	c =	24
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
		-				
46	l =	0	L=	1	I =	1
	c =	0	c =	1	c =	1
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
47	I =	0	I=	0	I=	0
47	c =	0	C =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pa = pc =	0	pc =	0	pa =	0
	рс – k =	0	μc – k =	0	ρc – k =	0
	к –	U	K -	U	к –	U
48	I =	1	[=	0	I =	1
	c =	2	c =	9	c =	11
	b =	0	b =	1	b =	1
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	1	I=	1	E=	2
HOUR SUBTUTAL.		16		20		36
	c =		c =	20	c =	
	b =	1	b =		b =	3
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

49	I =	1	[=	1] =	2
	c =	4	c =	11	c =	15
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
50	I =	0	I =	0	I =	0
	c =	6	c =	8	c =	14
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
51	I =	1	I =	0	<u>I</u> =	1
	c =	10	c =	9	c =	19
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
52	I =	1	l =	0	<u> </u>	1
	c =		c =	2	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	3	I =	1	I =	4
	c =	20	c =	30	c =	50
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

53	I =	1	I =	0	I =	1
	c =	4	c =	7	c =	11
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
54	I =	0	I =	1	I =	1
	c =	1	c =	2	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
55	I =	1	I =	0	I =	1
	c =	3	c =	1	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
56	=	0	I =	0	I =	0
	c =	2	c =	3	c =	5
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
		-				_
HOUR SUBTOTAL:	l =	2	I=	1	I=	3
	c =	10	c =	13	c =	23
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1

57	I =	0	I =	1	I =	1
	c =	3	c =	5	c =	8
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
58	I =	2	I =	0	I =	2
	c =	4	c =	3	c =	7
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
59	l =	0	l =	0	1 =	0
	c =	2	c =	2	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
60	l =	0	I =	0	I =	0
	c =	1	c =	0	c =	1
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
LIQUID CUIDTOTAL	•	2				2
HOUR SUBTOTAL:	I =	2	I=	1	I=	3
	c =	10	c =	10	c =	20
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

61	I =	0	I =	2	I =	2
	c =	0	c =	2	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
62	I =	1	I =	0	1=	1
	c =	0	c =	2	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
		0				
63	I =	1	l =	0	I =	1
	c =	5	c =	3	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
64	I =	1	I =	0	I =	1
	c =	3	c =	2	c =	5
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	3	I =	2	I =	5
	c =	8	c =	9	c =	17
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

65	I =	0	I =	1	I =	1
	c =	1	c =	3	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
66	I =	1	I =	0	I =	1
	c =	0	c =	1	c =	1
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
67	I =	0	I =	1	l =	1
	c =	3	c =	1	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
68	I =	0	I =	0	1=	0
	c =	6	c =	1	c =	7
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
LIQUID CUIDTOTAL				2		2
HOUR SUBTOTAL:	l =	1	I =	2	I=	3
	c =	10	c =	6	c =	16
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

I =	0	I =	0	[=	0
c =	3	c =	1	c =	4
b =	0	b =	0	b =	0
t =	0	t =	0	t =	0
pa =	0	pa =	0	pa =	0
pc =	0	pc =	0	pc =	0
k =	0	k =	0	k =	0
I =	0	I =	0	I =	0
c =	4	c =	3	c =	7
b =	0	b =	0	b =	0
t =	0	t =	0	t =	0
pa =	0	pa =	0	pa =	0
pc =	0	pc =	0	pc =	0
k =	0	k =	0	k =	0
I =	0	l =	1	I =	1
c =		c =		C =	8
b =	0	b =	0	b =	0
t =	0	t =	0	t =	0
pa =		pa =		pa =	0
pc =		pc =	0	pc =	0
k =	0	k =	0	k =	0
I =		l =		[=	0
c =	18	c =		c =	24
b =	1	b =		b =	1
t =		t =		t =	1
pa =		pa =			0
pc =		pc =			0
k =	0	k =	0	k =	0
2		20.00			
					1
					43
					1
					1
					0
					0
k =	0	k =	0	k =	0
	c = b = t = pa = pc = k = l = pc = pc = k = l = pc	c = 3 b = 0 t = 0 pa = 0 pc = 0 k = 0 t = 0 pa = 0 pc = 0 k = 0 l = 0 pa = 0 pc = 0 k = 0 l = 0 pa = 0 pc = 0 k = 0 l = 0 pa = 0 pc = 0 pc = 0 pc = 0 pc = 0	c = 3 c = b = 0 b = t = 0 pa = pa = 0 pa = pc = 0 k = l = 0 k = l = 0 b = t = 0 b = t = 0 pa = pc = 0 k = l = 0 c = b = 0 t = pa = 0 pa = pc = 0 k = l = 0 k = l = 0 k = l = 0 k = l = 0 pa = pc = 0 k =	c = 3 c = 1 b = 0 t = 0 t = 0 t = 0 pa = 0 pa = 0 pc = 0 pc = 0 k = 0 k = 0 l = 0 k = 0 t = 0 b = 0 t = 0 pa = 0 pa = 0 pa = 0 pc = 0 pc = 0 k = 0 k = 0 l = 0 k = 0 l = 0 k = 0 l = 0 k = 0 l = 0 k = 0 l = 0 k = 0 l = 0 k = 0 l = 0 k = 0 l = 0 k = 0 l = 0 k = 0 l = 0 k = 0 l =<	c = 3 c = 1 c = b = 0 b = 0 b = t = 0 t = 0 t = pa = 0 pa = 0 pa = pc = 0 pc = 0 pc = k = 0 k = 0 k = l = 0 b = 0 b = 0 b = b = 0 b = 0 b = 0 pa = 0<

73	I =	0	I =	0	I =	0
	c =	13	c =	5	c =	18
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
74	I =	1	I.=	0	I =	1
	c =	10	c =	2	c =	12
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
75	To all	0	r	0		0
75	l =	0	l =	0	l =	0
	c =	17	c =	14	c =	31
	b =	0	b =	1	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
76	I =	1	Í=	1	I =	2
	c =	6	c =	3	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
						_
HOUR SUBTOTAL:	I =	2	L=	1	I=	3
	c =	46	c =	24	c =	70
	b =	0	b =	1	b =	1
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

77	I =	0	I =	0	I =	0
	c =	21	c =	9	c =	30
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
78	L=	0	L=	2	1=	2
	c =	1	c =	9	c =	10
	b =	2	b =	2	b =	4
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
79	l =	0	I =	0	I =	0
	c =	34	c =	10	c =	44
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
80	I =	0	l =	1	I =	1
	c =	29	c =	15	c =	44
	b =	1	b =	0	b =	1
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I=	3	I=	2
HOUR SOBIOTAL.	c =	85	c =	43	c =	3 128
	b =	5	b =	2	b =	7
	t =	2	t =	1	t =	3
	ι = pa =	0	pa =	0	pa =	0
		0		0		0
	pc = k =	0	pc = k =	0	pc = k =	0
	κ –	U	κ =	U	к –	U

81	I =	1	I =	0	I =	1
	c =	22	c =	19	c =	41
	b =	3	b =	2	b =	5
	t =	4	t =	0	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
82	L =	0	L=	0	1=	0
	c =	38	c =	30	c =	68
	b =	0	b =	1	b =	1
	t =	2	t =	3	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
83	I =	0	l =	0	I =	0
	c =	34	c =	29	c =	63
	b =	2	b =	1	b =	3
	t =	0	t =	1	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
84	I =	0	I =	0	I =	0
	c =	30	c =	30	c =	60
	b =	1	b =	3	b =	4
	t =	1	t =	3	t =	4
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	0	I =	1
	c =	124	c =	108	c =	232
	b =	6	b =	7	b =	13
	t =	7	t =	7	t =	14
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

85	I =	0	I =	1	I =	1
	c =	16	c =	17	c =	33
	b =	2	b =	1	b =	3
	t =	1	t =	2	t =	3
	pa =	0	pa =	3	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
86	I =	0	I =	2	I=	2
	c =	51	c =	13	c =	64
	b =	3	b =	1	b =	4
	t =	1	t =	0	t =	1
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
87	l =	0	1=	1	I=	1
	c =	10	c =	11	c =	21
	b =	0	b =	1	b =	1
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
88	l =	0	I =	0	I=	0
	c =	22	c =	27	c =	49
	b =	1	b =	0	b =	1
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I=	4	I=	4
	c =	99	c =	68	c =	167
	b =	6	b =	3	b =	9
	t =	5	t =	4	t =	9
	pa =	1	pa =	4	pa =	5
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

89	I =	0	I =	1	I =	1
	c =	16	c =	8	c =	24
	b =	2	b =	1	b =	3
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
90	I =	2	I=	0	I =	2
	c =	13	c =	7	c =	20
	b =	1	b =	0	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
91	I =	0	I =	0	I =	0
	c =	23	c =	23	c =	46
	b =	1	b =	0	b =	1
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
92	I =	0	[=	1	I =	1
	c =	27	c =	10	c =	37
	b =	0	b =	1	b =	1
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
HOUR SUBTOTAL:	1=	2	I=	2	I=	4
HOOK SOBIOTAL.	c =	79	c =	48	c =	127
	b =	4	b =	2	b =	6
	t =	5	t =	2	t =	7
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	рс = k =	0	k =	1	k =	1
	K -	U	κ –	1	κ –	1

93	I =	0	I =	0	I =	0
	c =	20	c =	27	c =	47
	b =	1	b =	0	b =	1
	t =	1	t =	3	t =	4
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
94	1=	1	I =	0	I=	1
	c =	21	c =	8	c =	29
	b =	1	b =	1	b =	2
	t =	3	t =	1	t =	4
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
95	l =	0	1=	0	I=	0
	c =	16	c =	17	c =	33
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
96	I =	0	I =	1	I=	1
30	c =	25	c =	32	c =	57
	b =	1	b =	0	b =	1
	t =	0	t =	3	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	1	I=	1	I=	2
110011003101712.	c =	82	c =	84	c =	166
	b =	3	b =	1	b =	4
	t =	5	t =	8	t =	13
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

24 HOUR TOTAL	: I=	29	1=	32	I =	61
	c =	1583	c =	1556	c =	3139
	b =	61	b =	46	b =	107
	t =	44	t =	52	t =	96
	pa =	20	pa =	30	pa =	50
	pc =	20	pc =	0	pc =	20
	k =	5	k =	3	k =	8
24 HOUR TOTAL	trains =	29	trains =	32	trains =	61
GROUPINGS	motor vehicles=	1688	motor vehicles=	1654	motor vehicles=	3342
	heavy vehicles =	105	heavy vehicles =	98	heavy vehicles =	203
	pedestrians =	40	pedestrians =	30	pedestrians =	70
	children =	20	children =	0	children =	20
	bicycles =	5	bicycles =	3	bicycles =	8
	night trains =	17	night trains =	12	night trains =	29

138th Street Rail-Highway Crossing

NAME: Faith Almaraz TODAY'S DATE: November 20, 2019

SITE NAME: 138th Street LOCATION: 138th St RR Crossing, Dolton, IL

VIDEO BEGIN DATE: Oct. 22, 2019 VIDEO BEGIN TIME: 11:15:00 OTHER:

TALLY MARK CODEs: I = locomotive, train c = car, van, minivan, SUV, pick-up truck b = bus t = single-unit truck, tractor-trailer truck pa = adult pedestrian pc = child pedestrian k = bicycle

15-minute	OUTBOUND		INBOUND		вотн	
interval	compass direc	tion:	compass dir	ection:	DIRECTIONS	S
1	I =	0	l =	0	I =	0
	c =	8	c =	9	c =	17
	b =	0	b =	0	b =	0
	t =	4	t =	2	t =	6
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
2	I=	0	I=	0	I=	0
	c =	13	c =	5	c =	18
	b =	0	b =	0	b =	0
	t =	0	t =	2	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
3	Ī=	0	Ī=	0	Ī=	0
	c =	9	c =	5	c =	14
	b =	0	b =	0	b =	0
	t =	1	t =	2	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
4	I =	0	I=	0	I =	0
	c =	4	c =	7	c =	11
	b =	0	b =	0	b =	0
	t =	1	t =	5	t =	6
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	l =	0	l =	0	I =	0
	c =	34	c =	26	c =	60
	b =	0	b =	0	b =	0
	t =	6	t =	11	t =	17
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

5	I =	0	[=	1	I =	1
	c =	7	c =	9	c =	16
	b =	0	b =	0	b =	0
	t =	0	t =	3	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
6	=	0	l =	0	[=	0
	c =	16	c =	3	c =	19
	b =	0	b =	0	b =	0
	t =	4	t =	3	t =	7
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
_				_		
7	I =	0	1=	0	I =	0
	c =	14	c =	12	c =	26
	b =	0	b =	0	b =	0
	t =	3	t =	1	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
0	1	0	-	0	T	0
8	l =	0	[=	0	<u> </u> =	0
	c =	7	c =	7	c =	14
	b =	0	b =	0	b =	0
	t =	1	t =	3	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	[=	1	I=	1
	c =	44	c =	31	c =	75
	b =	0	b =	0	b =	0
	t =	8	t =	10	t =	18
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	K -	J	K –	U	K -	U

9	I =	0	I =	0	I=	0
	c =	10	c =	11	c =	21
	b =	0	b =	0	b =	0
	t =	3	t =	3	t =	6
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
10	I =	0	I =	0	I =	0
	c =	8	c =	11	c =	19
	b =	0	b =	0	b =	0
	t =	2	t =	2	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
11	I =	0	l =	0	I =	0
	c =	9	c =	11	c =	20
	b =	0	b =	0	b =	0
	t =	2	t =	1	t =	3
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
12	I =	0	l =	0	[=	0
	c =	12	c =	17	c =	29
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1=	0	I=	0	I=	0
TIOON SOBTOTAL.	c =	39	c =	50	c =	89
	b =	0	b =	0	b =	0
	t =	8	t =	7	t =	15
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	рс = k =	0	k =	0	k =	0
	K -	U	K -	U	κ –	U

13	I =	0	l =	0] =	0
	c =	8	c =	11	c =	19
	b =	0	b =	1	b =	1
	t =	1	t =	0	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
14	I=	0	I=	0	I=	0
14	c =	18	c =	20	c =	38
	b =	0	b =	0	b =	0
				2		3
	t =	1 0	t =	0	t =	0
	pa =		pa =		pa =	
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
15	l =	0	I =	0]=	0
	c =	24	c =	15	c =	39
	b =	0	b =	0	b =	0
	t =	5	t =	2	t =	7
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
16	I =	0	I =	0	I=	0
10		20		14		34
	c = b =		c = b =	0	c = b =	
	t =	0	t =	3	t =	0 5
				3		4
	pa =	1	pa =		pa =	
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	70	c =	60	c =	130
	b =	0	b =	1	b =	1
	t =	9	t =	7	t =	16
	pa =	2	pa =	3	pa =	5
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1

17	I =	0	I =	0	I =	0
	c =	16	c =	28	c =	44
	b =	0	b =	0	b =	0
	t =	3	t =	1	t =	4
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	1	pc =	1
	k =	0	k =	0	k =	0
18	I =	0	L=	0	1=	0
	c =	20	c =	21	c =	41
	b =	0	b =	0	b =	0
	t =	3	t =	3	t =	6
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
19	l =	0	I =	0	I =	0
	c =	13	c =	14	c =	27
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
20	I =	0	l =	0	I =	0
	c =	23	c =	28	c =	51
	b =	0	b =	0	b =	0
	t =	5	t =	0	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I=	0	I=	0
TIOON SOBTOTAL.	c =	72	c =	91	c =	163
	b =	0	b =	0	b =	0
	t =	12	t =	4	t =	16
		0		2		2
	pa =		pa =		pa =	
	pc =	0	pc =	1	pc =	1
	k =	0	k =	0	k =	0

21	I =	0	I =	0	I =	0
	c =	16	c =	19	c =	35
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
22	I =	0	I =	0	I =	0
	c =	14	c =	23	c =	37
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
23	I =	0	I =	0	<u> </u>	0
	c =	16	c =	16	c =	32
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
24	I =	0	l =	0	I =	0
	c =	16	c =	22	c =	38
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	62	c =	80	c =	142
	b =	0	b =	0	b =	0
	t =	3	t =	3	t =	6
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

25	I =	0	l =	0	[=	0
	c =	8	c =	15	c =	23
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
26	l =	0	l =	0	l =	0
	c =	17	c =	12	c =	29
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
27	I =	0	l =	0	T=	0
	c =	8	c =	22	c =	30
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
28	I =	0	l =	0	I =	0
	c =	9	c =	13	c =	22
	b =	0	b =	1	b =	1
	t =	0	t =	2	t =	2
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	l =	0	I =	0
	c =	42	c =	62	c =	104
	b =	0	b =	1	b =	1
	t =	2	t =	2	t =	4
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

29	I =	0	I =	0	[=	0
	c =	9	c =	28	c =	37
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
30	I =	1	I =	0	I =	1
	c =	7	c =	12	c =	19
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
31	I =	0	I =	0	[=	0
	c =	11	c =	14	c =	25
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
32	I =	1	I =	1	T =	2
	c =	4	c =	16	c =	20
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I=	1	I =	3
	c =	31	c =	70	c =	101
	b =	0	b =	0	b =	0
	t =	0	t =	2	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

33	I =	0	I =	0	I =	0
	c =	14	c =	4	c =	18
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
34	I=	0	L=	0	I=	0
	c =	8	c =	7	c =	15
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
35	l =	0	[=	0	I =	0
	c =	2	c =	7	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	3	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
36	I =	0	Í=	0	I=	0
	c =	7	c =	10	c =	17
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I=	0	I=	0
	c =	31	c =	28	c =	59
	b =	0	b =	0	b =	0
	t =	1	t =	4	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

37	I =	0	I =	0	I =	0
	c =	5	c =	7	c =	12
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
38	I =	0	I =	1	I =	1
	c =	6	c =	5	c =	11
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
39	l =	0	I =	0	I =	0
	c =	6	c =	7	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
40	I =	0	l =	1	[=	1
	c =	4	c =	2	c =	6
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	2	I=	2
TIO OTTO OTTO TITLE	c =	21	c =	21	c =	42
	b =	0	b =	0	b =	0
	t =	0	t =	1	t=	1
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	IS.	Ü	K -	3	K-	3

41	I =	0	I =	0	I =	0
	c =	8	c =	5	c =	13
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
42	I =	0	I =	0	I =	0
	c =	2	c =	2	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
43	l =	0	I =	0	1=	0
	c =	3	c =	5	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
44	l =	0	I =	0	I =	0
	c =	3	c =	6	c =	9
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	16	c =	18	c =	34
	b =	0	b =	0	b =	0
	t =	2	t =	2	t =	4
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

45	I =	0	I =	0	I =	0
	c =	6	c =	3	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
46	I =	0	I =	0	I =	0
	c =	2	c =	4	c =	6
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
47	l =	0	I =	0	1=	0
	c =	6	c =	4	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
48	I =	0	[=	0	I =	0
	c =	4	c =	6	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	18	c =	17	c =	35
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

49	I =	0	I =	0	I =	0
	c =	3	c =	6	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
50	I =	0	l =	0	I =	0
	c =	5	c =	5	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
51	l =	1	l =	0	I =	1
	c =	2	c =	8	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
52	l =	0	l =	0	I =	0
	c =	5	c =	3	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
HOUR SUBTOTAL:	I =	1	I =	0	I =	1
	c =	15	c =	22	c =	37
	b =	0	b =	0	b =	0
	t =	0	t =	2	t =	2
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1

53	I =	0	I =	0	I =	0
	c =	6	c =	2	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
54	I=	0	L=	0	I=	0
34	c =	2	c =	3	c =	5
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
55	I =	0	I =	0	1=	0
	c =	1	c =	3	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
••	¥				Y	
56	l =	0	I =	0	I =	0
	c =	0	c =	3	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	0	I =	0	1=	0
	c =	9	c =	11	c =	20
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

57	I =	0	I =	0	I =	0
	c =	0	c =	1	c =	1
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
58	I =	0	I=	1	I =	1
	c =	0	c =	2	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
59	I =	0	l =	0	1=	0
	c =	1	c =	4	c =	5
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
60	I =	1	I =	0	I =	1
	c =	4	c =	2	c =	6
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1-	1	T-	1	I=	1
HOUR SUBTUTAL:	=	1 5	I =	1 9		2
	c =		c =		c =	14
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

61	I =	0	I =	0	I =	0
	c =	1	c =	1	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
62	I =	0	l =	0	I =	0
	c =	1	c =	3	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
63	I =	1	l =	0	I =	1
	c =	0	c =	1	c =	1
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
64	I =	0	l =	0	I =	0
	c =	2	c =	0	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	0	I =	1
	c =	4	c =	5	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

65	I =	0	I =	0	I =	0
	c =	0	c =	2	c =	2
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
66	I =	0	I =	0	I =	0
	c =	0	c =	2	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
67	I =	0	I =	0	I =	0
	c =	2	c =	0	c =	2
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
68	I =	0	I =	0] =	0
	c =	1	c =	1	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0] =	0
	c =	3	c =	5	c =	8
	b =	0	b =	0	b =	0
	t =	2	t =	2	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

69	I =	0	I =	0	I =	0
	c =	1	c =	3	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
70	I =	0	I =	0	I =	0
	c =	0	c =	1	c =	1
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
71	I =	0	I =	0	I =	0
	c =	2	c =	6	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
72	I =	0	[=	0	[=	0
	c =	3	c =	3	c =	6
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR GURTOTAL		•				
HOUR SUBTOTAL:	I =	0	l =	0	I=	0
	c =	6	c =	13	c =	19
	b =	0	b =	0	b =	0
	t =	0	t =	2	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

73	I =	0	I =	0	[=	0
	c =	2	c =	5	c =	7
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
74	I =	0	L=	0	1=	0
	c =	4	c =	3	c =	7
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
75	l =	0	I =	0	I =	0
	c =	11	c =	10	c =	21
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
76	I =	0	(=	0	I=	0
	c =	11	c =	11	c =	22
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	L=	0	1=	0
	c =	28	c =	29	c =	57
	b =	0	b =	0	b =	0
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

77	I =	0	I =	0	[=	0
	c =	13	c =	7	c =	20
	b =	1	b =	0	b =	1
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
78	I =	0	I =	0	I =	0
	c =	7	c =	6	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
79	I =	0	l =	0	[=	0
	c =	12	c =	11	c =	23
	b =	0	b =	0	b =	0
	t =	3	t =	2	t =	5
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
80	I =	0	I =	0	T =	0
	c =	12	c =	14	c =	26
	b =	0	b =	0	b =	0
	t =	3	t =	1	t =	4
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	44	c =	38	c =	82
	b =	1	b =	0	b =	1
	t =	6	t =	5	t =	11
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

81	I =	0	I =	0	I =	0
	c =	16	c =	6	c =	22
	b =	0	b =	0	b =	0
	t =	3	t =	2	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
82	I =	0	I=	0	I =	0
	c =	14	c =	11	c =	25
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
83	I =	0	I =	0	I =	0
	c =	25	c =	11	c =	36
	b =	1	b =	0	b =	1
	t =	3	t =	1	t =	4
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
84	I =	0	[=	0	I =	0
	c =	30	c =	13	c =	43
	b =	0	b =	0	b =	0
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I=	0	I =	0
	c =	85	c =	41	c =	126
	b =	1	b =	0	b =	1
	t =	9	t =	5	t =	14
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

85	I =	0	I =	0	I =	0
	c =	14	c =	6	c =	20
	b =	0	b =	0	b =	0
	t =	3	t =	1	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
86	I =	1	I=	0	I =	1
	c =	12	c =	3	c =	15
	b =	0	b =	0	b =	0
	t =	3	t =	1	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
87	I =	1	I =	0	[=	1
	c =	16	c =	13	c =	29
	b =	0	b =	0	b =	0
	t =	3	t =	3	t =	6
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
88	I =	0	I =	0	I =	0
	c =	11	c =	13	c =	24
	b =	0	b =	0	b =	0
	t =	3	t =	2	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	0	I =	2
	c =	53	c =	35	c =	88
	b =	0	b =	0	b =	0
	t =	12	t =	7	t =	19
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

89	I =	0	I =	0	I =	0
	c =	15	c =	14	c =	29
	b =	0	b =	0	b =	0
	t =	2	t =	2	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
90	I=	0	I =	0	1 =	0
	c =	12	c =	11	c =	23
	b =	0	b =	0	b =	0
	t =	0	t =	2	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
91	I =	0	I =	0]=	0
	c =	11	c =	7	c =	18
	b =	0	b =	0	b =	0
	t =	1	t =	3	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
92	I =	1	l =	0	I =	1
	c =	9	c =	3	c =	12
	b =	1	b =	0	b =	1
	t =	1	t =	2	t =	3
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	0	I =	1
	c =	47	c =	35	c =	82
	b =	1	b =	0	b =	1
	t =	4	t =	9	t =	13
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

93	I =	0	I =	0	I =	0
	c =	12	c =	12	c =	24
	b =	0	b =	0	b =	0
	t =	2	t =	3	t =	5
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	2	pc =	2
	k =	0	k =	0	k =	0
94	I =	0	I =	0	I =	0
	c =	9	c =	10	c =	19
	b =	0	b =	0	b =	0
	t =	4	t =	1	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
95	I =	0	I =	0	I =	0
	c =	18	c =	11	c =	29
	b =	0	b =	0	b =	0
	t =	2	t =	5	t =	7
	pa =	1	pa =	0	pa =	1
	pc =	2	pc =	0	pc =	2
	k =	0	k =	0	k =	0
96	I =	0	I =	0	I =	0
	c =	9	c =	13	c =	22
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
LIQUID CURTOTAL		•		0		
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	48	c =	46	c =	94
	b =	0	b =	0	b =	0
	t =	9	t =	10	t =	19
	pa =	1	pa =	2	pa =	3
	pc =	2	pc =	2	pc =	4
	k =	0	k =	0	k =	0

13	I =	5	l =	8	24 HOUR TOTAL: I =
1670	c =	843	c =	827	c =
5	b =	2	b =	3	b =
192	t =	97	t =	95	t =
30	pa =	16	pa =	14	pa =
5	pc =	3	pc =	2	pc =
2	k =	1	k =	1	k =
13	trains =	5	trains =	8	24 HOUR TOTAL trains =
1867	motor vehicles=	942	motor vehicles=	925	GROUPINGS motor vehicles=
197	heavy vehicles =	99	heavy vehicles =	98	heavy vehicles =
35	pedestrians =	19	pedestrians =	16	pedestrians =
5	children =	3	children =	2	children =
2	bicycles =	1	bicycles =	1	bicycles =
9	night trains =	4	night trains =	5	night trains =

142nd Street Rail-Highway Crossing

NAME: Mary Talarico TODAY'S DATE: November 26, 2019

SITE NAME: 142nd Street LOCATION: 142nd St RR Crossing, Dolton, IL

VIDEO BEGIN DATE: 17 October 2019 VIDEO BEGIN TIME: 11:15:00 OTHER:

TALLY MARK CODES: I = locomotive, train c = car, van, minivan, SUV, pick-up truck b = bus t = single-unit truck, tractor-trailer truck pa = adult pedestrian pc = child pedestrian k = bicycle

15-minute	OUTBOUND		INBOUND		вотн	
interval	compass dire	ction:	compass dir	compass direction:		5
1	I =	0	l =	0	I =	0
	c =	34	c =	65	c =	99
	b =	0	b =	0	b =	0
	t =	0	t =	3	t =	3
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
2	I =	1	I =	0	1=	1
	c =	2	c =	7	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
3	I =	0	l =	0	I=	0
	c =	44	c =	53	c =	97
	b =	0	b =	0	b =	0
	t =	0	t =	4	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
4	I =	1	l =	0	I =	1
	c =	39	c =	62	c =	101
	b =	0	b =	0	b =	0
	t =	1	t =	3	t =	4
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	0	I =	2
	c =	119	c =	187	c =	306
	b =	0	b =	0	b =	0
	t =	1	t =	10	t =	11
	pa =	2	pa =	3	pa =	5
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1

5	I =	0	[=	1	I =	1
	c =	51	c =	66	c =	117
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
6	I =	0	l =	0	I =	0
	c =	77	c =	74	c =	151
	b =	0	b =	0	b =	0
	t =	3	t =	1	t =	4
	pa =	2	pa =	0	pa =	2
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0
7	I =	0	1=	0	I =	0
	c =	41	c =	53	c =	94
	b =	0	b =	0	b =	0
	t =	3	t =	1	t =	4
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
8	I =	0	I =	0	<u></u>	0
	c =	37	c =	48	c =	85
	b =	0	b =	0	b =	0
	t =	2	t =	2	t =	4
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I=	1	I=	1
TIOON SOBTOTAL.	c =	206	c =	241	c =	447
	b =	0	b =	0	b =	0
	t =	8	t =	4	t =	12
	pa =	4	pa =	3	pa =	7
	pa = pc =	1	pa = pc =	0	pa = pc =	1
	μc = k =	0	μc – k =	1	ρc – k =	1
	K -	U	K -	1	K –	1

9	I =	0	I =	0	I =	0
	c =	34	c =	60	c =	94
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
10	I =	0	l =	0	I =	0
	c =	40	c =	64	c =	104
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
11	I =	0	l =	0	I =	0
	c =	38	c =	66	c =	104
	b =	0	b =	3	b =	3
	t =	5	t =	4	t =	9
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
12	I =	0	l =	1	I =	1
	c =	44	c =	60	c =	104
	b =	0	b =	0	b =	0
	t =	2	t =	3	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	3	pc =	3
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	I =	1
	c =	156	c =	250	c =	406
	b =	0	b =	4	b =	4
	t =	8	t =	8	t =	16
	pa =	1	pa =	3	pa =	4
	pc =	0	pc =	3	pc =	3
	k =	0	k =	0	k =	0

13	I =	0	[=	0	[=	0
	c =	63	c =	71	c =	134
	b =	1	b =	1	b =	2
	t =	2	t =	1	t =	3
	pa =	0	pa =	1	pa =	1
	pc =	2	pc =	0	pc =	2
	k =	0	k =	0	k =	0
14	I =	0	I =	0	I =	0
	c =	61	c =	82	c =	143
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
15	I =	0	[=	0	[=	0
	c =	66	c =	82	c =	148
	b =	0	b =	0	b =	0
	t =	2	t =	3	t =	5
	pa =	2	pa =	1	pa =	3
	pc =	0	pc =	5	pc =	5
	k =	0	k =	0	k =	0
16	I =	0	l =	1	I =	1
	c =	55	c =	57	c =	112
	b =	2	b =	3	b =	5
	t =	1	t =	2	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	2	pc =	2
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	I =	1
	c =	245	c =	292	c =	537
	b =	3	b =	5	b =	8
	t =	5	t =	6	t =	11
	pa =	3	pa =	3	pa =	6
	pc =	2	pc =	7	pc =	9
	k =	0	k =	0	k =	0

17	I =	1	I =	0] =	1
	c =	75	c =	77	c =	152
	b =	0	b =	2	b =	2
	t =	1	t =	3	t =	4
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	4	pc =	4
	k =	0	k =	0	k =	0
10		0		0		
18	L=	0	L=	0	I=	0
	c =	68	c =	69	c =	137
	b =	1	b =	1	b =	2
	t =	0	t =	1	t =	1
	pa =	3	pa =	0	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
19	I =	0	I=	0	I =	0
13	c =	58	c =	73	c =	131
	b =	1	b =	0	b =	1
	t =	2	t =	0	t =	2
	pa =	0	pa =	0	pa =	0
	pa = pc =	0	pc =	0	pc =	0
	рс – k =	0	k =	1	k =	1
	κ –	U	κ –	1	κ-	1
20	l =	0	[=	0	I =	0
	c =	53	c =	73	c =	126
	b =	0	b =	2	b =	2
	t =	0	t =	1	t =	1
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
LIGHT CHETCHAL				•		
HOUR SUBTOTAL:	1=	1	I=	0	I=	1
	c =	254	c =	292	c =	546
	b =	2	b =	5	b =	7
	t =	3	t =	5	t =	8
	pa =	3	pa =	4	pa =	7
	pc =	0	pc =	4	pc =	4
	k =	0	k =	1	k =	1

21	I =	0	[=	0] =	0
	c =	58	c =	82	c =	140
	b =	0	b =	0	b =	0
	t =	2	t =	2	t =	4
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
22	1=	0	l=	1	I=	1
22	c =	46	c =	52	c =	98
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
		_		_		_
23	I =	0	l =	0	I =	0
	c =	69	c =	81	c =	150
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	4	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
24	I =	0	I =	0	I =	0
24	c =	67	c =	84	c =	151
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	3	pc =	3
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	I =	1
	c =	240	c =	299	c =	539
	b =	0	b =	0	b =	0
	t =	2	t =	2	t =	4
	pa =	2	pa =	6	pa =	8
	pc =	0	pc =	3	pc =	3
	k =	1	k =	1	k =	2

25	 =	0	I =	0	I =	0
	c =	69	c =	71	c =	140
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	1	pc =	1
	k =	0	k =	0	k =	0
26	1-	1	Γ_	0	1-	1
26	l=	1	I=	0	l=	1
	c =	106	c =	73	c =	179
	b =	1	b =	0	b =	1
	t =	5	t =	1	t =	6
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
27	I =	0	I=	0	I =	0
	c =	102	c =	73	c =	175
	b =	1	b =	0	b =	1
	t =	1	t =	1	t =	2
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
				-		
28	I =	1	l =	0]=	1
	c =	67	c =	60	c =	127
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	2	pc =	2	pc =	4
	k =	0	k =	2	k =	2
HOUR SUBTOTAL:	I =	2	T-	0	τ	2
HOUR SUBTUTAL:		2	I =	0	I =	2
	c =	344	c =	277	C =	621
	b =	2	b =	0	b =	2
	t =	7	t =	3	t =	10
	pa =	0	pa =	2	pa =	2
	pc =	2	pc =	3	pc =	5
	k =	0	k =	3	k =	3

c = 53 c = 60 c = 113 b = 0 b = 0 b = 0 t = 0 t = 1 t = 1 pa = 0 pa = 1 pa = 1 pc = 3 pc = 0 pc = 3 k = 0 k = 0 k = 0 30 I = 0 I = 2 I = 2 c = 45 c = 42 c = 87 b = 0 b = 1 b = 1 t = 2 pa = 0 pa = 2 pa = 2 pa = 2 pa = 0 pa = 2 pa = 2 pa = 2 pc = 0 pc = 2 pc = 2 pc = 2 k = 0 k = 0 k = 0 31 I = 0 I = 0 I = 0 c = 34 c = 45 c = 79 b = 0 b = 0 b = 0 b = 0 t = 1 t = 1 t = 1 t = 2 pa = 0 pa = 0 pa = 0 pa = 0 pc = 0 pc = 0 pc = 0 pc = 0 k = 1 k = 0 l = 0 l = 0 t = 0 t = 0 pc = 0 pc = 0 </th <th>29</th> <th>I =</th> <th>1</th> <th>[=</th> <th>0</th> <th>] =</th> <th>1</th>	29	I =	1	[=	0] =	1
t = 0 t = 1 t = 1 t = 1 pa = 0 pa = 1 pa = 1 pc = 3 pc = 0 pc = 3 k = 0 k = 0 k = 0 30 I = 0 I = 2 I = 2 c = 45 c = 42 c = 87 b = 0 b = 1 b = 1 t = 2 t = 1 t = 1 t = 2 pa = 2 pa = 2 pa = 0 pa = 2 pa = 2 pa = 2 pc = 3 0 pa = 3 0<		c =	53	c =	60	c =	113
Pa		b =	0	b =	0	b =	0
Dec		t =	0	t =	1	t =	1
		pa =	0	pa =	1	pa =	1
30 = 0		pc =	3	pc =	0	pc =	3
c = 45 c = 42 c = 87 b = 0 b = 1 b = 1 t = 1 t = 1 t = 2 pa = 0 pa = 2 pa = 2 pc = 0 pc = 2 pc = 2 k = 0 k = 0 k = 0 1		k =	0	k =	0	k =	0
c = 45 c = 42 c = 87 b = 0 b = 1 b = 1 t = 1 t = 1 t = 2 pa = 0 pa = 2 pa = 2 pc = 0 pc = 2 pc = 2 k = 0 k = 0 k = 0 1							
b = 0 b = 1 b = 1 t = 1 t = 1 t = 2 pa = 0 pa = 2 pa = 2 pc = 0 pc = 2 pc = 2 k = 0 k = 0 k = 0 31 I = 0 I = 0 I = 0 c = 34 c = 45 c = 79 b = 0 b = 0 b = 0 b = 0 t = 1 t = 1 t = 2 pa = 0 pa = 0 pa = 0 pa = 0 pa = 0 pc = 0 pc = 0 pc = 0 k = 1 32 I = 0 I = 0 I = 0 c = 44 c = 68 c = 112 b = 0 b = 0 b = 0 t = 0 t = 0 pa = 1 pc = 0 pc = 0 pc = 0 k = 0 k = 1 k = 1 HOUR SUBTOTAL: I = 1 I = 2 I = 3 c = 176 c = 215 c = 391 b = 0 b = 1 b = 1 t = 2 t = 3 t = 5	30	I =	0	I =	2	I =	2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		c =	45	c =	42	c =	87
pa = 0 pa = 2 pa = 2 pc = 0 pc = 2 pc = 2 k = 0 k = 0 k = 0 31 I = 0 I = 0 I = 0 c = 34 c = 45 c = 79 b = 0 b = 0 b = 0 b = 0 b = 0 b = 0 t = 1 t = 1 t = 2 pa = 0 pa = 0 pa = 0 pc = 0 pc = 0 pc = 0 k = 1 k = 0 k = 1 32 I = 0 I = 0 k = 1 32 I = 0 b = 0 b = 0 t = 0 b = 0 b = 0 t = 0 t = 0 b = 0 b = 0 t = 0 <td></td> <td>b =</td> <td>0</td> <td>b =</td> <td>1</td> <td>b =</td> <td>1</td>		b =	0	b =	1	b =	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		t =	1	t =	1	t =	2
31 I = 0		pa =	0	pa =	2	pa =	
31		pc =	0	pc =	2	pc =	2
C = 34		k =	0	k =	0	k =	0
C = 34							
b = 0	31	l =	0	l =	0	I =	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		c =	34	c =	45	c =	79
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		b =	0	b =	0	b =	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		t =	1	t =	1	t =	2
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		pa =	0	pa =	0	pa =	0
32		pc =	0	pc =	0	pc =	0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		k =	1	k =	0	k =	1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	32	I =		I =		I =	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		c =		c =	68	c =	112
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						b =	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		t =	0	t =	0	t =	0
HOUR SUBTOTAL:		pa =		pa =		pa =	
HOUR SUBTOTAL: I = 1		pc =		pc =		pc =	
c = 176 c = 215 c = 391 b = 0 b = 1 b = 1 t = 2 t = 3 t = 5		k =	0	k =	1	k =	1
c = 176 c = 215 c = 391 b = 0 b = 1 b = 1 t = 2 t = 3 t = 5							
b = 0 b = 1 b = 1 t = 2 t = 3 t = 5	HOUR SUBTOTAL:						
t = 2							
na = 1 na = 3 na = 4							
		pa =	1	pa =		pa =	
pc = 3 pc = 2 pc = 5		•		•			
k = 1		k =	1	k =	1	k =	2

33	I =	0	I =	0] =	0
	c =	33	c =	55	c =	88
	b =	0	b =	0	b =	0
	t =	3	t =	0	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
34	l=	1	L=	0	I=	1
	c =	23	c =	49	c =	72
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
35	I =	1	I=	0	I=	1
33	c =	30	c =	36	c =	66
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
		_		-		_
36	 =	0	I =	0	I =	0
	c =	31	c =	46	c =	77
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I=	0	I=	2
TIOON SOBTOTAL.	c =	117	c =	186	c =	303
	b =	0	b =	0	b =	0
	t =	4	t =	1	t =	5
	t = pa =	1	pa =	1	pa =	2
	pa – pc =	0		0		0
	рс = k =	1	pc =	0	pc =	1
	κ =	1	k =	U	k =	1

37] =	0	[=	0] =	0
	c =	32	c =	52	c =	84
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
38	I =	0	I =	0	I =	0
	c =	32	c =	45	c =	77
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
39	I =	0	l =	0]=	0
	c =	32	c =	50	c =	82
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	2	pa =	1	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
40	I =	0	[=	0	I =	0
	c =	37	c =	37	c =	74
	b =	1	b =	0	b =	1
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	133	c =	184	c =	317
	b =	1	b =	0	b =	1
	t =	0	t =	2	t =	2
	pa =	2	pa =	2	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1

41	I =	0	I =	0] =	0
	c =	33	c =	46	c =	79
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
42	I =	1	I=	0	1=	1
	c =	16	c =	34	c =	50
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
43	I =	0	I =	0	I =	0
	c =	28	c =	39	c =	67
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
44	i -	0	f=		T-	1
44	[=	0	[=	1	I =	1
	c =	23	c =	25	c =	48
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	1	I=	1	I=	2
	c =	100	c =	144	c =	244
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1

45	I =	0	I =	0] =	0
	c =	24	c =	38	c =	62
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
4.0						_
46	l=	0	L=	0	I=	0
	c =	18	c =	42	c =	60
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
47	I =	0	I=	0	I=	0
	c =	21	c =	31	c =	52
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	N.	J	K	J	K	J
48	 =	0	[=	0	I =	0
	c =	12	c =	24	c =	36
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	0	I=	0	I=	0
TIOON SOBTOTAL.	c =	75	c =	135	c =	210
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0 0
	pa =	0	pa =	0	pa =	0
	pc = k =	0	pc =	0	pc =	0
	κ =	U	k =	U	k =	U

49	I =	0	[=	0] =	0
	c =	15	c =	25	c =	40
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
50	I =	0	I =	1	I =	1
	c =	14	c =	16	c =	30
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
51	l =	0	I =	0	I =	0
	c =	12	c =	24	c =	36
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
52] =	0	[=	0	I =	0
	c =	12	c =	17	c =	29
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	I =	1
	c =	53	c =	82	c =	135
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1

53	I =	0	I =	0	I =	0
	c =	11	c =	23	c =	34
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
54	I =	0	I =	1	I =	1
	c =	1	c =	7	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
55	I =	0	I =	0	I =	0
	c =	8	c =	9	c =	17
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
56	I =	0	1=	0	[=	0
	c =	5	c =	15	c =	20
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1=	0	I=	1	I=	1
TIOON SOBTOTAL.	c =	25	c =	54	c =	79
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	рс = k =	0	k =	0	k =	0
	K -	U	κ –	U	κ –	U

57	I =	0	[=	1	[=	1
	c =	4	c =	11	c =	15
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
58	I =	0	I =	0	I =	0
	c =	3	c =	9	c =	12
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
59	I =	0	I =	1	I =	1
	c =	4	c =	12	c =	16
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
60	I =	0	[=	0	[=	0
	c =	5	c =	14	c =	19
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	2	[=	2
	c =	16	c =	46	c =	62
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

61] =	0	I =	0	[=	0
	c =	2	c =	8	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
62	I =	0	I =	0	I =	0
	c =	4	c =	10	c =	14
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
63	l =	0	l =	0	[=	0
	c =	6	c =	7	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
64	I =	0	[=	0	I =	0
	c =	4	c =	9	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	[=	0
	c =	16	c =	34	c =	50
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

65	I =	0	[=	0	Ī=	0
	c =	6	c =	5	c =	11
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
66	I =	0	I =	0	1=	0
	c =	6	c =	3	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
67	l =	0	I =	0	1=	0
	c =	6	c =	9	c =	15
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
68	 =	0	l =	0]=	0
	c =	5	c =	8	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	23	c =	25	c =	48
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

69	I =	0	I =	1	I =	1
	c =	0	c =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
70	I =	0	l =	0	I =	0
	c =	12	c =	14	c =	26
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
71	I =	1	l =	0	I =	1
	c =	3	c =	8	c =	11
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
72	I =	0	l =	0	I =	0
	c =	14	c =	17	c =	31
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	l =	1	I =	2
	c =	29	c =	39	c =	68
	b =	0	b =	0	b =	0
	t =	2	t =	1	t =	3
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

73	I =	0	I =	0	I =	0
	c =	8	c =	13	c =	21
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
74	l =	0	I =	0	I =	0
	c =	10	c =	13	c =	23
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
75	I =	0	I =	0	I =	0
	c =	13	c =	15	c =	28
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
76	I =	0	I =	0	I =	0
	c =	16	c =	25	c =	41
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	47	c =	66	c =	113
	b =	0	b =	1	b =	1
	t =	0	t =	1	t =	1
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1

77	I =	0	I =	1	I =	1
	c =	3	c =	6	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
78	I =	0	I=	0	I =	0
	c =	11	c =	34	c =	45
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
79	l =	1	l =	0	I =	1
	c =	16	c =	19	c =	35
	b =	0	b =	1	b =	1
	t =	0	t =	2	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
80	l =	0	1=	0	I =	0
	c =	20	c =	33	c =	53
	b =	1	b =	0	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I=	1	I=	2
HOOK SOBIOTAL.	c =	1 50	c =	92	c =	2 142
	b =	1	b =	2	b =	3
	t =	1	t =	2	t =	3
	ι = pa =	0	pa =	0	pa =	0
		0		0		0
	pc = k =	0	pc = k =	0	pc = k =	0
	κ –	U	κ =	U	K =	U

81	I =	0	I =	0	I =	0
	c =	46	c =	52	c =	98
	b =	0	b =	0	b =	0
	t =	3	t =	3	t =	6
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
82	I =	0	I=	0	I =	0
	c =	27	c =	58	c =	85
	b =	2	b =	0	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
83	l =	0	1=	0	[=	0
	c =	41	c =	66	c =	107
	b =	0	b =	1	b =	1
	t =	1	t =	0	t =	1
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
84	I =	0	[=	0	I =	0
	c =	28	c =	57	c =	85
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	142	c =	233	c =	375
	b =	2	b =	2	b =	4
	t =	4	t =	3	t =	7
	pa =	1	pa =	1	pa =	2
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0

85	I =	0	[=	0	I =	0
	c =	36	c =	62	c =	98
	b =	3	b =	2	b =	5
	t =	1	t =	1	t =	2
	pa =	2	pa =	0	pa =	2
	pc =	8	pc =	0	pc =	8
	k =	0	k =	0	k =	0
86	I =	0	I=	0	l =	0
	c =	45	c =	77	c =	122
	b =	0	b =	2	b =	2
	t =	2	t =	0	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	3	pc =	0	pc =	3
	k =	0	k =	0	k =	0
87	I =	0	I =	0	I =	0
	c =	47	c =	87	c =	134
	b =	0	b =	2	b =	2
	t =	2	t =	2	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
88	I =	0	[=	0	I =	0
	c =	59	c =	62	c =	121
	b =	0	b =	0	b =	0
	t =	4	t =	1	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	Ι=	0
	c =	187	c =	288	c =	475
	b =	3	b =	6	b =	9
	t =	9	t =	4	t =	13
	pa =	3	pa =	0	pa =	3
	pc =	11	pc =	0	pc =	11
	k =	0	k =	0	k =	0

89	I =	0	I =	0	I =	0
	c =	44	c =	66	c =	110
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
90	I=	0	I=	0	I=	0
50	c =	37	c =	46	c =	83
	b =	0	b =	0	b =	0
	t =	2	t =	0	t =	2
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	рс – k =	0	k =	0	k =	0
	κ –	U	κ –	U	κ-	U
91	l =	0	I =	0] =	0
	c =	36	c =	50	c =	86
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
92	I =	0	 =	0	T=	0
	c =	35	c =	49	c =	84
	b =	0	b =	0	b =	0
	t =	0	t =	3	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
		_		-		_
HOUR SUBTOTAL:	I=	0	I=	0	I =	0
	c =	152	c =	211	c =	363
	b =	0	b =	0	b =	0
	t =	3	t =	5	t =	8
	pa =	1	pa =	3	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1

93	I =	0	[=	0	I =	0
	c =	46	c =	54	c =	100
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
94	I =	1	I =	0	I =	1
	c =	23	c =	43	c =	66
	b =	0	b =	0	b =	0
	t =	1	t =	3	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
95	I =	1	[=	1	I =	2
	c =	37	c =	35	c =	72
	b =	0	b =	0	b =	0
	t =	0	t =	3	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
96	I =	0	[=	0	I =	0
	c =	29	c =	37	c =	66
	b =	1	b =	0	b =	1
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	1	I =	3
	c =	135	c =	169	c =	304
	b =	1	b =	0	b =	1
	t =	4	t =	8	t =	12
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1

24 HOUR TOTAL	1	12	C-	1.4	T-	27	
24 HOUR TOTAL:]=	13	=	14	<u>[</u> =	27	
	c =	3040	c =	4041	c =	7081	
	b =	15	b =	26	b =	41	
	t =	65	t =	70	t =	135	
	pa =	31	pa =	37	pa =	68	
	pc =	20	pc =	22	pc =	42	
	k =	8	k =	9	k =	17	
24 HOUR TOTAL	trains =	13	trains =	14	trains =	27	
GROUPINGS	motor vehicles=	3120	motor vehicles=	4137	motor vehicles=	7257	
	heavy vehicles =	80	heavy vehicles =	96	heavy vehicles =	176	
	pedestrians =	51	pedestrians =	59	pedestrians =	110	
	children =	20	children =	22	children =	42	
	bicycles =	8	bicycles =	9	bicycles =	17	
	night trains =	5	night trains =	9	night trains =	14	

144th Street Rail-Highway Crossing

NAME: Faith Almaraz TODAY'S DATE: December 9, 2019

SITE NAME: 144th Street LOCATION: 144th St RR Crossing, Dolton, IL

VIDEO BEGIN DATE: Oct. 24, 2019 VIDEO BEGIN TIME: 11:45:00 OTHER:

TALLY MARK CODES: I = locomotive, train c = car, van, minivan, SUV, pick-up truck b = bus t = single-unit truck, tractor-trailer truck pa = adult pedestrian pc = child pedestrian <math>k = bicycle

15-minute	OUTBOUND t		INBOUND tr		вотн	
interval	compass direc	ction: WB	compass dir		DIRECTIONS	5
1	l =	1	l =	0	I =	1
	c =	16	c =	23	c =	39
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
2	I =	0	ſ=	1	I=	1
	c =	33	c =	42	c =	75
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
3	I =	0	I =	0	Ī=	0
	c =	25	c =	54	c =	79
	b =	1	b =	0	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
4	I =	0	I =	0	I=	0
	c =	12	c =	42	c =	54
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	1	I =	2
	c =	86	c =	161	c =	247
	b =	1	b =	1	b =	2
	t =	1	t =	2	t =	3
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

5	I =	0	l =	1	I =	1
	c =	21	c =	31	c =	52
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
6	7	0	r.		T	
6	=	0	[=	1	I =	1
	c =	22	c =	33	c =	55
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
7	I =	0	I=	0	1=	0
•	c =	22	C =	36	c =	58
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
		0		0		0
	pc = k =	0	pc = k =	0	pc =	0
	κ –	U	К =	U	k =	U
8	I =	0	I =	0	[=	0
	c =	22	c =	33	c =	55
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	1-	2	T_	2
HOUR SUBTUTAL:	l=	0	[=	2	I =	2
	C =	87	c =	133	C =	220
	b =	1	b =	0	b =	1
	t =	1	t =	0	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1

9	I =	0	I =	1	I =	1
	c =	3	c =	6	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
10	I =	0	I =	0	1 =	0
	c =	42	c =	58	c =	100
	b =	0	b =	1	b =	1
	t =	1	t =	0	t =	1
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
11	I =	0	l =	0]=	0
	c =	28	c =	56	c =	84
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
12	I =	0	l =	0	I =	0
	c =	25	c =	46	c =	71
	b =	0	b =	4	b =	4
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	2	pc =	2
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	I =	1
	c =	98	c =	166	c =	264
	b =	1	b =	6	b =	7
	t =	1	t =	0	t =	1
	pa =	2	pa =	4	pa =	6
	pc =	0	pc =	2	pc =	2
	k =	1	k =	0	k =	1

13	I =	0	I =	0	I =	0
	c =	22	c =	61	c =	83
	b =	0	b =	2	b =	2
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
14	I =	0	L=	0	I=	0
	c =	26	c =	67	c =	93
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
15	I =	0	I =	0	l =	0
	c =	23	c =	78	c =	101
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	1	pa =	1
	pc =	2	pc =	0	pc =	2
	k =	1	k =	1	k =	2
16	I =	0	l =	0] =	0
	c =	39	c =	72	c =	111
	b =	2	b =	0	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I=	0	I =	0
	c =	110	c =	278	c =	388
	b =	2	b =	2	b =	4
	t =	2	t =	1	t =	3
	pa =	2	pa =	1	pa =	3
	pc =	2	pc =	0	pc =	2
	k =	1	k =	1	k =	2

17	I =	0	I =	0] =	0
	c =	27	c =	72	c =	99
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	2	pc =	0	pc =	2
	k =	1	k =	0	k =	1
18	I=	0	I=	0	L=	0
10	c =	32	c =	86	c =	118
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	K	J	K	0	K	Ü
19	I =	0	I=	0]=	0
	c =	28	c =	67	c =	95
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	3	pc =	3
	k =	1	k =	0	k =	1
20	I =	0	I =	0	I=	0
20	c =	32	c =	87	c =	119
	b =	0	b =	3	b =	3
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pa = pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0
	K -	U	K -	U	κ-	O
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	119	c =	312	c =	431
	b =	0	b =	3	b =	3
	t =	0	t =	1	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	3	pc =	3	pc =	6
	k =	2	k =	0	k =	2

21] =	0	I =	0	I =	0
	c =	31	c =	90	c =	121
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	1	pc =	1
	k =	1	k =	0	k =	1
22	I =	1	I =	0	I =	1
	c =	16	c =	36	c =	52
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	1	pc =	1
	k =	0	k =	0	k =	0
23	l =	0	I =	0	I =	0
	c =	30	c =	100	c =	130
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
24	I =	0	I =	0	I =	0
	c =	28	c =	99	c =	127
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I=	0	I =	1
	c =	105	c =	325	c =	430
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	2	pa =	2	pa =	4
	pc =	0	pc =	2	pc =	2
	k =	1	k =	0	k =	1

25	I =	0	I =	1	I =	1
	c =	28	c =	81	c =	109
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
26	I =	0	L=	1	1=	1
	c =	25	c =	81	c =	106
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
27	I =	0	l =	0	I =	0
	c =	31	c =	83	c =	114
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
28	I =	2	I =	1	I =	3
	c =	35	c =	48	c =	83
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I=	3	L=	5
HOUR SUBTUTAL.		119		293		412
	c =		c =		c =	
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

29	I =	0	I =	0	I =	0
	c =	26	c =	57	c =	83
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
30	I=	1	I =	2	I=	3
	c =	13	c =	40	c =	53
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
31	I =	1	I=	0	I=	1
	c =	12	c =	19	c =	31
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
32	I =	0	I =	1	I=	1
	c =	20	c =	32	c =	52
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I=	3	I=	5
110011003101112	c =	71	c =	148	c =	219
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	2	pa =	2	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

33	I =	0	I =	0	I =	0
	c =	30	c =	48	c =	78
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
34	I =	0	l =	0	I =	0
	c =	24	c =	35	c =	59
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
35	I =	0	l =	0	I =	0
	c =	24	c =	37	c =	61
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
36	I =	0	l =	0	[=	0
	c =	16	c =	28	c =	44
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	l=	0	I=	0	I=	0
HOUR SUBTUTAL.	c =	94	c =	148	c =	242
	b =		b =	0		
	t =	0	t =	1	b = t =	0 1
	ι = pa =	1	pa =	0		1
		0		0	pa = pc =	
	pc = k =	0	pc = k =	0	ρc = k =	0 0
	κ =	U	κ =	U	κ =	U

37	I =	0	[=	0] =	0
	c =	21	c =	37	c =	58
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
38	I =	0	I =	0	I =	0
	c =	11	c =	24	c =	35
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
39	I =	0	I =	0	<u>I</u> =	0
	c =	11	c =	25	c =	36
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
40	I =	0	I =	0	I =	0
	c =	11	c =	24	c =	35
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	54	c =	110	c =	164
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

41	I =	1	I =	0	I =	1
	c =	6	c =	15	c =	21
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
42	I=	0	I=	0	I=	0
	c =	10	c =	13	c =	23
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
43	I=	0	I =	0	I=	0
-13	c =	9	c =	26	c =	35
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
44	I =	1	l=	0	I=	1
77	c =	7	c =	20	c =	27
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	2	I=	0	I=	2
HOOK SOBIOTAL.	c =	32	c =	74	c =	106
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pa = pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	K -	U	K -	0	κ –	J

45	I =	0	I =	1	I =	1
	c =	7	c =	11	c =	18
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
46	I =	0	I =	0	I =	0
	c =	11	c =	16	c =	27
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
47	I =	0	I =	1	<u>I</u> =	1
	c =	4	c =	7	c =	11
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
48	I =	1	l =	0	I =	1
	c =	4	c =	17	c =	21
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	2	I =	3
	c =	26	c =	51	c =	77
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

49	I =	1	I =	0	I =	1
	c =	1	c =	2	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
50	I =	0	l =	0	I =	0
	c =	4	c =	9	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
51	I =	0	I =	1	I =	1
	c =	2	c =	6	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
52	l =	1	l =	0	I =	1
	c =	4	c =	15	c =	19
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1-	2	T-		1-	2
HOUR SUBTUTAL:	l =	2 11	I =	1 32	l=	3 43
	c =		c =		c =	
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

53	I =	0	I =	0] =	0
	c =	3	c =	10	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
54	I =	0	I =	0	I =	0
	c =	5	c =	7	c =	12
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
55	I =	0	I =	0	1 =	0
	c =	1	c =	5	c =	6
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
56	=	1	[=	1	[=	2
	c =	4	c =	2	c =	6
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	1	I =	2
	c =	13	c =	24	c =	37
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
		ū		,	K	3

57	I =	0	I =	0	I =	0
	c =	5	c =	5	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
58	I =	0	I=	1	I =	1
	c =	2	c =	4	c =	6
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
59	I =	1	I =	1	I =	2
	c =	1	c =	2	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
60	I =	0	I =	0	I =	0
	c =	2	c =	3	c =	5
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1-	1	1-	2	1-	2
HOUR SUBTUTAL.	= -	1 10	l =	14	I =	3 24
	c = b =	0	c = b =	0	c = b =	0
	t =	0	t =	0	t =	0
	ι = pa =	0	r = pa =	0		0
		0		0	pa = pc =	0
	pc = k =	0	pc = k =	0	ρc = k =	0
	κ =	U	κ =	U	κ =	U

I =	0	I =	0	I =	0
c =	0	c =	2	c =	2
b =	0	b =	0	b =	0
t =	0	t =	0	t =	0
pa =	0	pa =	0	pa =	0
pc =	0	pc =	0	pc =	0
k =	0	k =	0	k =	0
I =	0	I =		I =	0
c =	1	c =	3	c =	4
b =	0	b =	0	b =	0
t =	0	t =	0	t =	0
pa =	0	pa =	0	pa =	0
pc =	0	pc =	0	pc =	0
k =	0	k =	0	k =	0
l =		l =		I =	1
c =		c =		c =	2
b =	0	b =	0	b =	0
t =	0	t =	0	t =	0
pa =		pa =		pa =	0
pc =	0	pc =	0	pc =	0
k =	0	k =	0	k =	0
					0
					3
					0
					0
					0
					0
k =	0	k =	0	k =	0
1-	1	T-1	0	1-	1
					1 11
					0
					0
		2000			0
					0
κ =	U	κ =	Ü	κ =	0
	c = b = t = pa = pc = k = l = c = b = t = pa = pc = t = pa = pc	c = 0 b = 0 t = 0 pa = 0 pc = 0 k = 0 l = 0 pa = 0 pc = 0 k = 0 l = 1 c = 0 b = 0 pa = 0 pc = 0 k = 0 l = 0 pa = 0 pc = 0 pa = 0 pc = 0 pc = 0	c = 0 c = b = 0 b = t = 0 pa = pa = 0 pa = pc = 0 k = l = 0 c = b = 0 b = t = 0 b = t = 0 pa = pc = 0 pc = k = 0 c = b = 0 c = b = 0 c = b = 0 c = b = 0 c = b = 0 c = b = 0 c = b = 0 c = b = 0 c = b = 0 c = b = 0 c = b = 0 c = b = 0 c = b = 0 c = b = 0 c = b = 0 c = b = 0 c = b =	c = 0 c = 2 b = 0 b = 0 t = 0 t = 0 pa = 0 pa = 0 pc = 0 pc = 0 k = 0 k = 0 l = 0 k = 0 t = 0 b = 0 t = 0 pa = 0 pa = 0 pa = 0 pa = 0 pc = 0 k = 0 k = 0 l = 1 l = 0 k = 0 k = 0 pa = 0 pa = 0 pa = 0 pc = 0 k = 0 k = 0 l = 0 k = 0 l = 0 k = 0 l = 0 k = 0 pa = 0 pc = 0 k = 0 k = 0 <t< td=""><td>c= 0 c= 2 c= b= 0 b= 0 b= t= 0 t= 0 t= pa= 0 pa= 0 pa= pc= 0 pc= 0 pc= k= 0 k= 0 k= l= 0 k= 0 k= b= 0 b= 0 b= b= 0 b= 0 b= t= 0 pa= 0 pa= pc= 0 pc= 0 pc= k= 0 k= 0 k= l= 1 l= 0 l= 0 k= 0 b= 0 pa= pa= pc= 0 pc= 0 pc= 0 pc= k= 0 k= 0 k= 0 k= l= 0 pc= 0 pc= 0 pc= k= 0 b</td></t<>	c= 0 c= 2 c= b= 0 b= 0 b= t= 0 t= 0 t= pa= 0 pa= 0 pa= pc= 0 pc= 0 pc= k= 0 k= 0 k= l= 0 k= 0 k= b= 0 b= 0 b= b= 0 b= 0 b= t= 0 pa= 0 pa= pc= 0 pc= 0 pc= k= 0 k= 0 k= l= 1 l= 0 l= 0 k= 0 b= 0 pa= pa= pc= 0 pc= 0 pc= 0 pc= k= 0 k= 0 k= 0 k= l= 0 pc= 0 pc= 0 pc= k= 0 b

65	I =	0	I =	1	I =	1
	c =	2	c =	1	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
66	I=	2	I=	0	I=	2
	c =	0	c =	4	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
67	1-	1	1-	0	7-	1
67	l =	1	l =	0	l=	1
	c =	0	c =	0	c =	0
	b =	0	b =		b =	0
	t =	0 0	t =	0	t =	0
	pa = pc =	0	pa =	0	pa =	0
		0	pc =	0	pc =	0
	k =	U	k =	U	k =	U
68	I =	1	1 =	0	<u>I</u> =	1
	c =	1	c =	2	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	l =	4	I =	1	I =	5
	c =	3	c =	7	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

69	I =	0	I =	0] =	0
	c =	1	c =	8	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
70	I =	0	I=	0	I =	0
	c =	4	c =	4	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
71	l =	0	l =	0	I =	0
	c =	4	c =	6	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
72	I =	0	l =	0	I =	0
	c =	7	c =	10	c =	17
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	0	I=	0	I=	0
TIOON SOBTOTAL.	c =	16	c =	28	c =	44
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	K -	U	κ –	U	K -	U

73	I =	0	I =	0	I =	0
	c =	5	c =	6	c =	11
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
74	L=	0	I =	0	I =	0
	c =	11	c =	17	c =	28
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
75	I =	0	I =	0] =	0
	c =	11	c =	18	c =	29
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
76	I =	0	l =	0	I =	0
	c =	9	c =	22	c =	31
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	36	c =	63	c =	99
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

77	I =	0	I =	0	I =	0
	c =	20	c =	18	c =	38
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	3	pa =	0	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
78	I =	0	l =	0	I =	0
	c =	18	c =	16	c =	34
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
79	I =	0	I =	0	I =	0
	c =	18	c =	25	c =	43
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
80	I =	0	l =	1	I =	1
	c =	16	c =	19	c =	35
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1-	0	1-	1	Τ-	1
HOUR SUBTUTAL:	=	72	= 	1 78	l =	1 150
	c =		c =		c =	
	b =	0	b =	2	b =	2
	t =	1 5	t =		t =	7
	pa =		pa =	2	pa =	
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0

81	I =	0	I =	0	I =	0
	c =	14	c =	33	c =	47
	b =	0	b =	2	b =	2
	t =	3	t =	0	t =	3
	pa =	2	pa =	1	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
82	I =	0	I=	0	I =	0
	c =	16	c =	35	c =	51
	b =	1	b =	0	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
83	I =	0	I =	0	<u>I</u> =	0
	c =	15	c =	32	c =	47
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0
84	I =	0	I =	0	I =	0
	c =	18	c =	45	c =	63
	b =	1	b =	0	b =	1
	t =	1	t =	0	t =	1
	pa =	2	pa =	0	pa =	2
	pc =	2	pc =	0	pc =	2
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I=	0	I =	0
	c =	63	c =	145	c =	208
	b =	2	b =	2	b =	4
	t =	5	t =	1	t =	6
	pa =	4	pa =	1	pa =	5
	pc =	3	pc =	0	pc =	3
	k =	0	k =	0	k =	0

85	I =	0	I =	0	I =	0
	c =	31	c =	39	c =	70
	b =	0	b =	1	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
86	I =	1	l =	1	I =	2
	c =	24	c =	52	c =	76
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
87	I =	0	l =	1	I =	1
	c =	10	c =	42	c =	52
	b =	0	b =	0	b =	0
	t =	2	t =	1	t =	3
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	1	k =	1	k =	2
88	I =	1	l =	0	I =	1
	c =	21	C =	32	c =	53
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	2	I=	2	I=	4
	c =	86	c =	165	c =	251
	b =	1	b =	3	b =	4
	t =	3	t =	1	t =	4
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	1	k =	2	k =	3

89	I =	0	I =	1	I =	1
	c =	18	c =	26	c =	44
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
90	I =	0	I =	0	1=	0
	c =	21	c =	26	c =	47
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
01	L-	0	f =	0	1-	0
91	l =	0	l =	0	l=	0
	c =	17	c =	40	c =	57
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
92	I =	0	[=	0	I =	0
	c =	17	c =	41	c =	58
	b =	0	b =	1	b =	1
	t =	1	t =	1	t =	2
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	I =	1
	c =	73	c =	133	c =	206
	b =	0	b =	1	b =	1
	t =	1	t =	3	t =	4
	pa =	0	pa =	3	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

93	I =	0	I =	0	I =	0
	c =	22	c =	27	c =	49
	b =	0	b =	1	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
94	I =	1	I=	0	I =	1
	c =	25	c =	36	c =	61
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
95	I =	0	I =	0	I =	0
	c =	30	c =	48	c =	78
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
96	I =	0	I =	1	I =	1
	c =	29	c =	51	c =	80
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	1	I =	2
	c =	106	c =	162	c =	268
	b =	1	b =	1	b =	2
	t =	1	t =	0	t =	1
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

24 HOUR TOTAL	: [=	21	1=	22	I =	43
	c =	1494	c =	3057	c =	4551
	b =	11	b =	23	b =	34
	t =	16	t =	12	t =	28
	pa =	23	pa =	24	pa =	47
	pc =	9	pc =	7	pc =	16
	k =	6	k =	4	k =	10
24 HOUR TOTAL	trains =	21	trains =	22	trains =	43
GROUPINGS	motor vehicles=	1521	motor vehicles=	3092	motor vehicles=	4613
	heavy vehicles =	27	heavy vehicles =	35	heavy vehicles =	62
	pedestrians =	32	pedestrians =	31	pedestrians =	63
	children =	9	children =	7	children =	16
	bicycles =	6	bicycles =	4	bicycles =	10
	night trains =	16	night trains =	11	night trains =	27

Indiana Avenue near 140th Street Rail-Highway Crossing

NAME: Mary Talarico TODAY'S DATE: December 4, 2019

SITE NAME: Indiana Avenue near 140th Street LOCATION: Indiana Ave near 140th St RR, Dolton

VIDEO BEGIN DATE: Oct. 29, 2019 VIDEO BEGIN TIME: 11:30:00 OTHER:

TALLY MARK CODES: I = locomotive, train c = car, van, minivan, SUV, pick-up truck b = bus t = single-unit truck, tractor-trailer truck pa = adult pedestrian pc = child pedestrian k = bicycle

15-minute	OUTBOUND	Γrain EB	INBOUND T	rain WB	вотн	
interval	compass dire	ction: SB	compass dir	ection: NB	DIRECTIONS	S
1	I =	0	l =	0	I =	0
	c =	44	c =	48	c =	92
	b =	0	b =	0	b =	0
	t =	1	t =	3	t =	4
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
2	I =	0	I=	1	I=	1
	c =	20	c =	27	c =	47
	b =	0	b =	0	b =	0
	t =	1	t =	3	t =	4
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
3	l=	1	I=	0	T=	1
3	c =	12	c =	15	c =	27
	b =	0	b =	0	b =	0
	t =	1	t =	2	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	рс – k =	0	k =	0	k =	0
	κ –	U	K -	U	K -	U
4	I =	0	I =	1	I =	1
	c =	26	c =	16	c =	42
	b =	1	b =	0	b =	1
	t =	3	t =	1	t =	4
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	[=	2	1=	3
	c =	102	c =	106	c =	208
	b =	1	b =	0	b =	1
	t =	6	t =	9	t =	15
	pa =	2	pa =	2	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

5	I =	0	[=	0	I =	0
	c =	17	c =	13	c =	30
	b =	0	b =	0	b =	0
	t =	2	t =	4	t =	6
	pa =	2	pa =	2	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
6	I =	0	l =	0	I =	0
	c =	42	c =	53	c =	95
	b =	0	b =	0	b =	0
	t =	1	t =	2	t =	3
	pa =	3	pa =	2	pa =	5
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
7	I =	0	I =	0] =	0
	c =	38	c =	40	c =	78
	b =	1	b =	2	b =	3
	t =	1	t =	1	t =	2
	pa =	4	pa =	1	pa =	5
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
8	I =	0	I =	1] =	1
	c =	36	c =	39	c =	75
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	1	pc =	1
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1] =	1
	c =	133	c =	145	c =	278
	b =	1	b =	2	b =	3
	t =	4	t =	8	t =	12
	pa =	9	pa =	6	pa =	15
	pc =	0	pc =	1	pc =	1
	k =	0	k =	1	k =	1

9	I =	0	I =	0	I =	0
	c =	28	c =	42	c =	70
	b =	0	b =	0	b =	0
	t =	1	t =	2	t =	3
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
10	L =	0	I=	0	I =	0
	c =	31	c =	32	c =	63
	b =	0	b =	1	b =	1
	t =	2	t =	3	t =	5
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
11	I =	0	I =	1	I =	1
	c =	43	c =	39	c =	82
	b =	0	b =	1	b =	1
	t =	0	t =	6	t =	6
	pa =	2	pa =	0	pa =	2
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0
12	I =	0	[=	0	I =	0
	c =	46	c =	59	c =	105
	b =	2	b =	2	b =	4
	t =	1	t =	2	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	I =	1
	c =	148	c =	172	c =	320
	b =	2	b =	4	b =	6
	t =	4	t =	13	t =	17
	pa =	4	pa =	2	pa =	6
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0

13	I =	0	I =	0] =	0
	c =	51	c =	44	c =	95
	b =	1	b =	0	b =	1
	t =	3	t =	1	t =	4
	pa =	2	pa =	1	pa =	3
	pc =	0	pc =	1	pc =	1
	k =	0	k =	0	k =	0
14	I=	0	I=	0	I=	0
14	c =	38	c =	62	c =	100
	b =	1	b =	0	b =	100
	t =	1	t =	0		1
		1		0	t =	
	pa =		pa =	0	pa =	1 0
	pc =	0	pc =		pc =	
	k =	1	k =	0	k =	1
15	I =	0	I =	1	1=	1
	c =	44	c =	51	c =	95
	b =	2	b =	1	b =	3
	t =	1	t =	0	t =	1
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
16	T-	1	f =-	0	T-	1
16	l =	1	l =	0	I =	1
	c =	65	c =	43	c =	108
	b =	2	b =	1	b =	3
	t =		t =	2	t =	4
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	1	I=	2
	c =	198	c =	200	c =	398
	b =	6	b =	2	b =	8
	t =	7	t =	3	t =	10
	pa =	5	pa =	3	pa =	8
	pc =	0	pc =	1	pc =	1
	k =	1	k =	0	k =	1

17	I =	0	[=	0] =	0
	c =	64	c =	55	c =	119
	b =	1	b =	2	b =	3
	t =	0	t =	0	t =	0
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
18	I =	0	I.=	0	I =	0
	c =	69	c =	65	c =	134
	b =	2	b =	0	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
10	1	0	T-1		1	
19	l =	0	l =	1	I =	1
	c =	35	c =	61	c =	96
	b =	0	b =	1	b =	1
	t =	1	t =	0	t =	1
	pa =	2	pa =	2	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
20	I =	0	[=	0	Ī=	0
20	c =	66	c =	52	c =	118
	b =	1	b =	0	b =	1
	t =	1	t =	1	t =	2
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
				_		_
HOUR SUBTOTAL:	l =	0	I =	1	I =	1
	c =	234	c =	233	c =	467
	b =	4	b =	3	b =	7
	t =	2	t =	1	t =	3
	pa =	2	pa =	6	pa =	8
	pc =	0	pc =	0	pc =	0
	k =	0	k =	2	k =	2

21	I =	0	I =	0	I =	0
	c =	85	c =	54	c =	139
	b =	0	b =	0	b =	0
	t =	2	t =	2	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
22	I=	0	I=	1	I=	1
22	c =	73	c =	56	c =	129
	b =	0	b =	1	b =	123
	t =	0	t =	2	t =	2
		1		2		3
	pa = pc =	0	pa = pc =	0	pa = pc =	0
	μc = k =	1	рс – k =	0	ρc – k =	1
	к =	1	Κ =	U	к =	1
23	l =	1	l =	0	I =	1
	c =	40	c =	40	c =	80
	b =	0	b =	1	b =	1
	t =	2	t =	0	t =	2
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
24	l =	0	I =	1	I=	1
24	c =	56	c =	41	c =	97
	b =	2	b =	1	b =	3
	t =	1	t =	0	t =	1
		1		0		1
	pa = pc =	0	pa = pc =	0	pa = pc =	0
	ρc – k =	0	рс – k =	0	k =	0
	κ –	U	K -	U	K -	U
HOUR SUBTOTAL:	I =	1	I =	2	I =	3
	c =	254	c =	191	c =	445
	b =	2	b =	3	b =	5
	t =	5	t =	4	t =	9
	pa =	2	pa =	3	pa =	5
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1

25	I =	1	I =	0	I =	1
	c =	73	c =	55	c =	128
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
26	I=	1	I=	0	I=	1
	c =	55	c =	59	c =	114
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
27	I =	0	I=	0	I=	0
	c =	58	c =	50	c =	108
	b =	1	b =	2	b =	3
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
28	I =	0	I =	0	I=	0
	c =	70	c =	53	c =	123
	b =	1	b =	0	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	0	I=	2
	c =	256	c =	217	c =	473
	b =	3	b =	3	b =	6
	t =	1	t =	0	t =	1
	pa =	3	pa =	4	pa =	7
	pc =	0	pc =	0	pc =	0
	k =	2	k =	0	k =	2

29	I =	0	I =	0	I =	0
	c =	50	c =	44	c =	94
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
30	I=	0	I=	0	I=	0
30	c =	56	c =	55	c =	111
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
		0		1		1
	pa = pc =	0	pa = pc =	0	pa = pc =	0
	μc = k =	0	ρc – k =	0	ρc – k =	0
	κ =	U	κ =	U	к =	U
31	I =	0	I =	1	I =	1
	c =	24	c =	19	c =	43
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
32	I =	0	I=	0	I=	0
32	c =	35	c =	26	c =	61
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pa = pc =	0	pc =	0	pc =	0
	рс = k =	1	ρc	0	k =	1
	κ –	1	K -	U	K -	1
HOUR SUBTOTAL:	I =	0	L=	1	I =	1
	c =	165	c =	144	c =	309
	b =	1	b =	1	b =	2
	t =	1	t =	0	t =	1
	pa =	2	pa =	2	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	2	k =	0	k =	2

33	I =	0	I =	0	I =	0
	c =	38	c =	43	c =	81
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
34	I =	0	I =	1	I=	1
	c =	23	c =	31	c =	54
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
35	l =	0	I =	0	I =	0
	c =	27	c =	31	c =	58
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
36	I =	0	l =	1	I =	1
	c =	9	c =	12	c =	21
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	2	I=	2
HOOK SOBIOTAL.	c =	97	c =	117	c =	214
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
	К -	_	K -	U	K -	-

37	I =	0	I =	0] =	0
	c =	36	c =	31	c =	67
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
38	I =	1	I=	1	I =	2
	c =	31	c =	29	c =	60
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
39	I =	0	l =	0	I =	0
	c =	27	c =	33	c =	60
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
40	I =	0	l =	0	[=	0
	c =	18	c =	32	c =	50
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I=	1	I=	2
HOUR SUBTUTAL:		112		125		237
	c = b =	0	c = b =	0	c = b =	0
		0				
	t =	2	t =	0	t =	0
	pa =		pa =		pa =	4
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	U

41	I =	0	I =	0	I =	0
	c =	28	c =	28	c =	56
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
		-				_
42	I =	0	Le	0	I =	0
	c =	19	c =	21	c =	40
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
43	I =	0	I=	1	I =	1
-13	c =	17	c =	12	c =	29
	b =	0	b =	0	b =	0
	t =	2	t =	0	t =	2
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	K	J	K	J	K	J
44] =	0	[=	1	I =	1
	c =	17	c =	16	c =	33
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	0	I=	2	L=	2
HOOK SOBIOTAL.	c =	81	c =	77	c =	158
	b =	0	b =	0	b =	0
	t =	2	t =	2	t =	4
	pa =	1	pa =	1		2
		0	20000	0	pa =	0
	pc = k =	0	pc = k =	0	pc = k =	0
	κ =	U	κ =	U	κ =	U

45	I =	0	[=	1	I =	1
	c =	8	c =	12	c =	20
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
46	I =	0	I =	0	I =	0
	c =	23	c =	27	c =	50
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
47	l =	1	I =	0	<u> </u>	1
	c =	18	c =	11	c =	29
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
48	I =	0	I =	0	I =	0
	c =	21	c =	22	c =	43
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR CURTOTAL						2
HOUR SUBTOTAL:	I =	1	I=	1	I=	2
	c =	70	c =	72	c =	142
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

49	I =	0	I =	1	I =	1
	c =	9	c =	7	c =	16
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
50	I =	0	I =	1	I=	1
	c =	13	c =	13	c =	26
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
51	l =	0	I =	0	l =	0
	c =	0	c =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
52	I =	0	I =	0] =	0
	c =	0	c =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1=	0	I =	2	I=	2
HOUR SUBTUTAL.	c =	22	c =	20	c =	42
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	t = ра =	1	pa =	0	pa =	1
		0		0		0
	pc = k =	0	pc = k =	0	pc = k =	0
	K -	U	к –	U	K =	U

53	I =	0	I =	0	I =	0
	c =	2	c =	3	c =	5
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
54	l =	1	I =	1	I =	2
	c =	8	c =	11	c =	19
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
55	I =	1	I =	0]=	1
	c =	5	c =	5	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
56	I =	0	I =	1	I =	1
	c =	2	c =	8	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	2	I =	4
	c =	17	c =	27	c =	44
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

57	I =	0	I =	0] =	0
	c =	10	c =	5	c =	15
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
58	L=	0	I =	0	I =	0
	c =	11	c =	7	c =	18
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
59	I =	0	I =	1	1 =	1
	c =	1	c =	1	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
60]=	0	I =	0	I=	0
00	c =	0	c =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	ĸ.	Ü	· ·	Ü	K	Ü
HOUR SUBTOTAL:	I =	0	I =	1	I =	1
	c =	22	c =	13	c =	35
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

61	I =	0	I =	0	I =	0
	c =	8	c =	0	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
62	I =	0	I =	0	I =	0
	c =	4	c =	11	c =	15
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
63	I =	0	I =	1	1=	1
	c =	4	c =	5	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
64	I =	0	I =	0	I =	0
	c =	0	c =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	I =	1
	c =	16	c =	16	c =	32
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

65	I =	1	I =	0	I =	1
	c =	0	c =	4	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
66	I =	1	I=	0	1=	1
	c =	1	c =	4	c =	5
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
67	l =	0	l =	0	I =	0
	c =	1	c =	3	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
68	I =	0	l =	0	T =	0
	c =	5	c =	2	c =	7
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	0	I =	2
	c =	7	c =	13	c =	20
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

69	I =	0	I =	1	[=	1
	c =	6	c =	6	c =	12
	b =	0	b =	0	b =	0
	t =	2	t =	0	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
70	I =	0	I =	0	I =	0
	c =	5	c =	9	c =	14
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
71	I =	1	I =	0	[=	1
	c =	2	c =	16	c =	18
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
72	I =	0	I =	0	[=	0
	c =	14	c =	16	c =	30
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1-	1	T-:	1	1-	1
HOUR SUBTUTAL:	l =	1 27	l=	1 47	=	2 74
	c =		c =		c =	
	b =	0	b =	0	b =	0
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

73	I =	1	I =	0	I =	1
	c =	9	c =	33	c =	42
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
74	I =	0	I =	0	I =	0
	c =	11	c =	31	c =	42
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
75	l =	0	I =	0	I =	0
	c =	9	c =	32	c =	41
	b =	0	b =	2	b =	2
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
76	=	0	I =	1	I =	1
	c =	7	c =	18	c =	25
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	1=	1	I=	2
TIOOK SOBTOTAL.	c =	1 36	c =	114	c =	2 150
	b =	0	b =	2	b =	2
	t =	1	t =	1	t =	2
	t = pa =	1	r = pa =	0	pa =	1
		0		0		0
	pc = k =	0	pc = k =	0	pc = k =	0
	κ –	U	к –	U	κ =	U

77	I =	0	[=	0] =	0
	c =	18	c =	28	c =	46
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
78	I =	0	I=	1	I =	1
	c =	10	c =	43	c =	53
	b =	1	b =	1	b =	2
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
79	l =	0	I =	1	I =	1
	c =	20	c =	64	c =	84
	b =	0	b =	4	b =	4
	t =	0	t =	2	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
0000						
80	=	1	l =	0	I =	1
	c =	21	c =	31	c =	52
	b =	1	b =	0	b =	1
	t =	0	t =	2	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I=	2	I=	3
TIOON SOBTOTAL.	c =	69	c =	166	c =	235
	b =	2	b =	5	b =	7
	t =	0	t =	5	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	K -	U	κ –	U	K -	U

81	I =	0	I =	0	I =	0
	c =	27	c =	61	c =	88
	b =	0	b =	1	b =	1
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
82	I =	0	I=	0	I =	0
	c =	23	c =	52	c =	75
	b =	1	b =	2	b =	3
	t =	0	t =	2	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
83	I =	1	l =	1	I =	2
	c =	14	c =	24	c =	38
	b =	1	b =	2	b =	3
	t =	0	t =	2	t =	2
	pa =	0	pa =	3	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
84	I =	0	l =	0	I =	0
	c =	24	c =	46	c =	70
	b =	3	b =	1	b =	4
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
						_
HOUR SUBTOTAL:	I =	1	I=	1	I=	2
	c =	88	c =	183	c =	271
	b =	5	b =	6	b =	11
	t =	2	t =	6	t =	8
	pa =	0	pa =	3	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

85	I =	0	I =	0	I =	0
	c =	37	c =	58	c =	95
	b =	1	b =	1	b =	2
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
86	I =	1	I =	0	I =	1
	c =	35	c =	50	c =	85
	b =	1	b =	2	b =	3
	t =	0	t =	3	t =	3
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
87	l =	0	1=	0]=	0
	c =	39	c =	43	c =	82
	b =	1	b =	1	b =	2
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
88	I =	0	l =	0	I =	0
	c =	23	c =	50	c =	73
	b =	1	b =	0	b =	1
	t =	3	t =	1	t =	4
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	0	I =	1
	c =	134	c =	201	c =	335
	b =	4	b =	4	b =	8
	t =	7	t =	6	t =	13
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

89	I =	0	I =	0	I=	0
	c =	37	c =	37	c =	74
	b =	0	b =	0	b =	0
	t =	1	t =	3	t =	4
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
90	I =	0	I =	0	I =	0
	c =	39	c =	42	c =	81
	b =	1	b =	0	b =	1
	t =	1	t =	0	t =	1
	pa =	2	pa =	2	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
91	l =	1	I =	0	<u>[= </u>	1
	c =	21	c =	38	c =	59
	b =	0	b =	1	b =	1
	t =	0	t =	2	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0
92	I =	1	l =	1	<u> </u>	2
	c =	17	c =	23	c =	40
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	1	I =	3
	c =	114	c =	140	c =	254
	b =	1	b =	1	b =	2
	t =	2	t =	5	t =	7
	pa =	6	pa =	4	pa =	10
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0

93	I =	0	I =	1	I =	1
	c =	25	c =	37	c =	62
	b =	1	b =	0	b =	1
	t =	6	t =	2	t =	8
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
94	I =	1	I=	0	I =	1
	c =	27	c =	33	c =	60
	b =	0	b =	0	b =	0
	t =	2	t =	3	t =	5
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
95	I =	0	I =	0	I =	0
	c =	22	c =	34	c =	56
	b =	0	b =	1	b =	1
	t =	2	t =	2	t =	4
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
96	I =	0	I =	0	I =	0
	c =	36	c =	32	c =	68
	b =	1	b =	0	b =	1
	t =	1	t =	1	t =	2
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	1	I =	2
	c =	110	c =	136	c =	246
	b =	2	b =	1	b =	3
	t =	11	t =	8	t =	19
	pa =	1	pa =	3	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

24 HOUR TOTAL	: [=	19	1=	28	I =	47
	c =	2512	c =	2875	c =	5387
	b =	34	b =	37	b =	71
	t =	59	t =	73	t =	132
	pa =	44	pa =	44	pa =	88
	pc =	2	pc =	2	pc =	4
	k =	7	k =	3	k =	10
24 HOUR TOTAL	trains =	19	trains =	28	trains =	47
GROUPINGS	motor vehicles=	2605	motor vehicles=	2985	motor vehicles=	5590
	heavy vehicles =	93	heavy vehicles =	110	heavy vehicles =	203
	pedestrians =	46	pedestrians =	46	pedestrians =	92
	children =	2	children =	2	children =	4
	bicycles =	7	bicycles =	3	bicycles =	10
	night trains =	10	night trains =	15	night trains =	25

Indiana Avenue at 138th Street Rail-Highway Crossing

NAME: Faith Almaraz TODAY'S DATE: 1/6/2020

SITE NAME: Indiana Ave & 138th St LOCATION: 138th Street

VIDEO BEGIN DATE: 31-Oct-19 VIDEO BEGIN TIME: 11:20:00 OTHER:

TALLY MARK CODES: I = locomotive, train c = car, van, minivan, SUV, pick-up truck b = bus t = single-unit truck, tractor-trailer truck pa = adult pedestrian pc = child pedestrian k = bicycle

15-minute	OUTBOUND		INBOUND		вотн	
interval	compass direct	ion:	compass dir	ection:	DIRECTIONS	3
1	1=	0	I=	0	1=	0
	c =	42	c =	35	c =	77
	b =	0	b =	0	b =	0
	t =	5	t =	2	t =	7
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
2] =	0] =	0] =	0
	c =	32	c =	41	c =	73
	b =	0	b =	0	b =	0
	t =	3	t =	3	t =	6
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
3	I =	0	<u>I</u> =	1	I =	1
	c =	21	c =	32	c =	53
	b =	1	b =	0	b =	1
	t =	2	t =	3	t =	5
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
4	I =	1	I =	0	I =	1
	c =	32	c =	30	c =	62
	b =	0	b =	1	b =	1
	t =	6	t =	3	t =	9
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	1	I =	2
	c =	127	c =	138	c =	265
	b =	1	b =	1	b =	2
	t =	16	t =	11	t =	27
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

5	1 =	0	I =	0	I =	0
	c =	31	c =	35	c =	66
	b =	0	b =	0	b =	0
	t =	4	t =	5	t =	9
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
6	1=	0	1=	1	I =	1
	c =	35	c =	27	c =	62
	b =	0	b =	0	b =	0
	t =	2	t =	3	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
7	1 =	0	l =	0	l =	0
	c =	33	c =	32	c =	65
	b =	1	b =	1	b =	2
	t =	4	t =	2	t =	6
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
8	1 =	0] =	0] =	0
	c =	38	c =	35	c =	73
	b =	0	b =	0	b =	0
	t =	3	t =	7	t =	10
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1=	0	I =	1	I =	1
	c =	137	c =	129	c =	266
	b =	1	b =	1	b =	2
	t =	13	t =	17	t =	30
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

9	I =	0	1=	0	J=	0
	c =	35	c =	39	c =	74
	b =	0	b =	0	b =	0
	t =	4	t =	6	t =	10
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
10	I=	1	I=	0	I=	1
10	c =	38	c =	27	c =	65
	b =	1	b =	0	b =	
		4		5		1 9
	t =	0	t =	0	t =	0
	pa =		pa =		pa =	
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
11	1 =	0	I =	1	I=	1
	c =	30	c =	29	c =	59
	b =	1	b =	1	b =	2
	t =	3	t =	3	t =	6
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
12	I=	1	I =	0	1-	1
12		23		40	I =	1 63
	c =		c =		C =	
	b =	1	b =	0	b =	1 9
	t =	4	t =	5	t =	0
	pa =	0	pa =	0	pa =	
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	1=	1	I =	3
	c =	126	c =	135	c =	261
	b =	3	b =	1	b =	4
	t =	15	t =	19	t =	34
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

13	I =	1	I =	1	I =	2
	c =	17	c =	17	c =	34
	b =	1	b =	1	b =	2
	t =	2	t =	2	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
14	1=	0	I =	0	1=	0
	c =	53	c =	45	c =	98
	b =	1	b =	0	b =	1
	t =	2	t =	2	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
15	1 =	0	I =	0	l =	0
	c =	48	c =	35	c =	83
	b =	3	b =	2	b =	5
	t =	3	t =	5	t =	8
	pa =	1	pa =	0	pa =	1
	pc =	3	pc =	0	pc =	3
	k =	0	k =	0	k =	0
16	1=	0	1=	0	I =	0
	c =	75	c =	43	c =	118
	b =	1	b =	0	b =	1
	t =	1	t =	1	t =	2
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	1=	1	I =	2
	c =	193	c =	140	c =	333
	b =	6	b =	3	b =	9
	t =	8	t =	10	t =	18
	pa =	3	pa =	0	pa =	3
	pc =	3	pc =	0	pc =	3
	k =	0	k =	0	k =	0

17	I =	0	I =	1	I =	1
	c =	75	c =	67	c =	142
	b =	1	b =	0	b =	1
	t =	5	t =	3	t =	8
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
18	1=	0	I =	0	1=	0
	c =	71	c =	53	c =	124
	b =	0	b =	1	b =	1
	t =	4	t =	4	t =	8
	pa =	1	pa =	3	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
19	1 =	0	I =	0] =	0
	c =	63	c =	46	c =	109
	b =	0	b =	1	b =	1
	t =	3	t =	2	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
20	I =	0	I =	0	l =	0
	c =	77	c =	46	c =	123
	b =	1	b =	0	b =	1
	t =	2	t =	0	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1=	0	I =	1	I =	1
	c =	286	c =	212	c =	498
	b =	2	b =	2	b =	4
	t =	14	t =	9	t =	23
	pa =	1	pa =	5	pa =	6
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

21	I =	0	I =	0	J =	0
	c =	71	c =	49	c =	120
	b =	0	b =	0	b =	0
	t =	3	t =	0	t =	3
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
22	I =	0	T=	1	I =	1
	c =	50	c =	37	c =	87
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
23	I =	1	I =	0	l =	1
	c =	8	c =	11	c =	19
	b =	1	b =	0	b =	1
	t =	1	t =	0	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
24	I =	0	l =	0	I =	0
	c =	2	c =	7	c =	9
	b =	1	b =	1	b =	2
	t =	0	t =	1	t =	1
	pa =	1	pa =	1	pa =	2
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	1=	1	I =	2
	c =	131	c =	104	c =	235
	b =	2	b =	1	b =	3
	t =	5	t =	2	t =	7
	pa =	4	pa =	3	pa =	7
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0

25	I =	0	I =	0	J=	0
	c =	83	c =	35	c =	118
	b =	1	b =	0	b =	1
	t =	0	t =	2	t =	2
	pa =	2	pa =	0	pa =	2
	pc =	1	pc =	2	pc =	3
	k =	0	k =	0	k =	0
26	I =	0	I =	0	I =	0
	c =	61	c =	23	c =	84
	b =	1	b =	1	b =	2
	t =	3	t =	1	t =	4
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
27	I =	1	I =	0	l =	1
	c =	46	c =	35	c =	81
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
28	I =	0	I =	0	I =	0
	c =	51	c =	39	c =	90
	b =	1	b =	1	b =	2
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	1	I =	0	1-	1
HOUR SUBTUTAL:				132	l=	1 373
	c =	241 3	C =	2	c = b =	
	b =		b =			5
	t =	4	t =	4	t =	8
	pa =	4	pa =	0	pa =	4
	pc =	1	pc =	2	pc =	3
	k =	0	k =	0	k =	0

29	I =	0	I =	2	I =	2
	c =	24	c =	19	c =	43
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
30	I =	0	I =	1	1=	1
	c =	30	c =	26	c =	56
	b =	0	b =	1	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
31	I =	0	I =	0	I =	0
	c =	38	c =	19	c =	57
	b =	0	b =	1	b =	1
	t =	0	t =	1	t =	1
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
32	1=	0	1=	0	I =	0
	c =	47	c =	32	c =	79
	b =	1	b =	0	b =	1
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	3	l =	3
	c =	139	c =	96	c =	235
	b =	1	b =	2	b =	3
	t =	1	t =	3	t =	4
	pa =	0	pa =	3	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

I =	1	I =	0	I =	1
c =		c =	23	c =	63
b =	0	b =	0	b =	0
t =	1	t =	1	t =	2
pa =	0	pa =	0	pa =	0
pc =	0	pc =	0	pc =	0
k =	0	k =	0	k =	0
I =		I =	0	I =	0
c =	50	c =	39	c =	89
b =	0	b =	0	b =	0
t =	1	t =	0	t =	1
pa =	0	pa =	0	pa =	0
pc =	0	pc =	0	pc =	0
k =	0	k =	0	k =	0
I =	0] =	0] =	0
c =	57	c =	33	c =	90
b =	0	b =	0	b =	0
t =	2	t =	1	t =	3
pa =	0	pa =	0	pa =	0
pc =	0	pc =	0	pc =	0
k =	0	k =	0	k =	0
1 =		1=] =	0
c =		c =		c =	101
b =		b =	0	b =	0
t =	0	t =	0	t =	0
pa =	0	pa =	0	pa =	0
pc =		pc =		pc =	0
k =	0	k =	0	k =	0
T			0	1-	
					1
					343
					0
					6
					0
				•	0
κ =	U	k =	0	k =	0
	c = b = t = pa = pc = k = l = pc	c = 40 b = 0 t = 1 pa = 0 pc = 0 k = 0 I = 0 c = 50 b = 0 t = 1 pa = 0 pc = 0 k = 0 I = 0 c = 57 b = 0 t = 2 pa = 0 pc = 0 k = 0 I = 0 c = 66 b = 0 t = 0 pa = 0 pc = 0 k = 0 I = 0 pa = 0 pc = 0 t = 0 pa = 0 pc = 0 pc = 0 k = 0	c = 40 c = b = 0 b = t = 1 t = pa = 0 pa = pc = 0 pc = k = 0 l = c = 50 c = b = 0 b = t = 1 t = pa = 0 pa = pc = 0 k = I = 0 c = b = 0 b = t = 2 t = pa = 0 pa = pc = 0 k = I = 0 t = t = 0 t = t = 0 pa = pc = 0 pc = k = 0 t = l = 1 l = c = 0 pc = k = 0 t = l = 0 pc = k = 0 t = l = 0 t =	c = 40 c = 23 b = 0 b = 0 t = 1 t = 1 pa = 0 pa = 0 pc = 0 pc = 0 k = 0 k = 0 l = 0 c = 39 b = 0 pc = 0 c = 50 c = 39 b = 0 pc = 0 c = 50 pc = 0 c = 1 c = 0 c = 57 c = 33 b = 0 pc = 0	c = 40 c = 23 c = 0 b = 0 b = 0 b = 0 t = 1 t = 1 t = 1 pa = 0 pa = 0 pa = pa = 0 pc = 0 pc = 0 pc = pc = 0 k = 0 k = 0 k = 0 l = 0 l = 0 l = 0 c = 50 c = 39 c = 39 b = 0 b = 0 b = 0 b = 0 b = 0 b = 0 t = 1 t = 0 t = 0 pa = 0 pa = 0 pa = pa = 0 pc = 0 pc = 0 pc = 0 k = 0 k = 0 k = 0 l = 0 l = 0 l = 0 t = 2 t = 1 t = 1 pa = 0 pa = 0 pa = 0 pc = 0 pc = 0 pc = 0 k = 0 k = 0 k = 0 l = 0 l = 0 l = 0 t = 0 pc = 0 pc = 0 pc = 0 pc = 0 pc = 0 pc = 0 pc = 0 pc = 0 pc = 0 pc = 0 pc = 0 <t< td=""></t<>

37	I =	1	I =	0	I =	1
	c =	27	c =	23	c =	50
	b =	0	b =	0	b =	0
	t =	2	t =	0	t =	2
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
38	1=	0	I =	0	1=	0
	c =	30	c =	26	c =	56
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
39	I =	0	I =	0	l =	0
	c =	29	c =	29	c =	58
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
40	I =	0	1=	0	I =	0
	c =	24	c =	28	c =	52
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	1=	0	l =	1
	c =	110	c =	106	c =	216
	b =	0	b =	0	b =	0
	t =	3	t =	0	t =	3
	pa =	1	pa =	3	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

41	I =	0	I =	0	J=	0
	c =	30	c =	18	c =	48
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
42	I =	0	T=	0	I =	0
	c =	23	c =	30	c =	53
	b =	0	b =	0	b =	0
	t =	0	t =	2	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
43	I =	0	I =	1	I =	1
	c =	26	c =	15	c =	41
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
44	1=	0	l =	0	I =	0
	c =	23	c =	9	c =	32
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	I =	1
	c =	102	c =	72	c =	174
	b =	0	b =	0	b =	0
	t =	0	t =	2	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

45	I =	0	I =	0	J=	0
	c =	18	c =	19	c =	37
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
46	I =	0	T=	1	I =	1
	c =	9	c =	9	c =	18
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
47	I =	0	I =	0	l =	0
	c =	0	c =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
48	I =	0	I =	0	I =	0
	c =	25	c =	15	C =	40
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1	0			1-	
HOUR SUBTUTAL:	l =	0	l=	1	l=	1
	c =	52	c =	43	c =	95
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

49	I =	0	I =	0]=	0
	c =	20	c =	8	c =	28
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
					Y	
50	I =	0	I=	0	1=	0
	c =	14	c =	24	c =	38
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
51	I =	0	T=	0] =	0
	c =	11	c =	12	c =	23
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
52	1=	1	.] =	0	I =	1
	c =	18	c =	12	c =	30
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	3	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	T=	0	1=	1
	c =	63	c =	56	c =	119
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	3	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1

53	I =	0	1=	0	I =	0
	c =	17	c =	12	c =	29
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
54	1 =	1	I =	0	I =	1
	c =	3	c =	11	c =	14
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
55	1 =	0	I =	0] =	0
	c =	8	c =	7	c =	15
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
56	I =	0	I =	1] =	1
	c =	15	c =	3	c =	18
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	T =	1	l =	2
	c =	43	c =	33	c =	76
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

57	1 =	0	I =	1	I =	1
	c =	8	c =	13	c =	21
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
58	1 =	1	I =	0	l =	1
	c =	7	c =	8	c =	15
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
59	I =	0	l =	0	I =	0
	c =	9	c =	4	c =	13
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
60	I=	0	1=	0	I =	0
00	c =	6	c =	6	c =	12
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1 =	1	I =	1	I =	2
	c =	30	c =	31	c =	61
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

61	I =	0	I =	1	I =	1
	c =	5	c =	7	c =	12
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
62	T =	1	1 =	0	I =	1
	c =	2	c =	1	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	О	pc =	0
	k =	0	k =	0	k =	0
63	I =	0] =	0] =	0
	c =	8	c =	12	c =	20
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
				_		_
64	1 =	0	[=	0	I =	0
	c =	5	c =	7	c =	12
	b =	0	b =	0	b =	0
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	1=	1	I =	2
1100110051011121	c =	20	c =	27	c =	47
	b =	0	b =	0	b =	0
	t =	2	t =	1	t =	3
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
		Ü		ū	. , _	U

65	I =	0	I=	1	I =	1
	c =	5	c =	4	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
66	I =	0	I =	0	l =	0
	c =	1	c =	8	c =	9
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
67	I =	1	I =	1	l =	2
	c =	2	c =	4	c =	6
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
				_		_
68	I =	0	1=	0	I =	0
	c =	6	c =	7	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1=	1	T=	2	1=	3
HOOK SOUTOTAL.	c =	14	c =	23	c =	37
	b =	0	b =	0	b =	0
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pa = pc =	0	pc =	0	pc =	0
	рс = k =	0	ρc	0	k =	0
	K -	U	K -	U	κ –	U

69	I =	1	I =	0	I =	1
	c =	5	c =	9	c =	14
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
70	1=	0	I =	0	l=	0
70	c =	4	c =	5	c =	9
		0	b =	0	b =	0
	b = t =	0	t =	0	t =	0
		0		0		0
	pa =	0	pa =	0	pa =	0
	pc = k =	0	pc = k =	0	pc = k =	0
	к =	U	κ =	U	κ =	U
71	I =	0	I =	0	l =	0
	c =	7	c =	13	c =	20
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	2	pa =	1	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
72	I =	0	I =	0	I =	0
72	c =	6	c =	12	c =	18
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1 =	1	I =	0	l =	1
	c =	22	c =	39	c =	61
	b =	0	b =	0	b =	0
	t =	2	t =	0	t =	2
	pa =	2	pa =	1	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

c = 6 c = 13 c = b = 0 b = 0 b = t = 1 t = 0 t = pa = 0 pa = 0 pa = pc = 0 pc = 0 pc = k = 0 k = 0 k =	19 0 1 0 0
$egin{array}{cccccccccccccccccccccccccccccccccccc$	1 0 0
pa = 0 pa = 0 pa = pc = 0 pc =	0 0
pc = 0 pc = 0 pc =	0
pc = 0 pc = 0 pc =	
k- 0 k- 0 k-	0
K- U K- U K=	
74 = 1 = 1 =	2
c = 8 c = 11 c =	19
b = 0 b = 0 b =	0
t = 0 t = 0 t =	0
pa = 0 pa = 0 pa =	0
pc = 0 $pc = 0$ $pc = 0$	0
k = 0	0
75	0
75 = 0 = 0 =	0
c = 13	46
b = 0 b = 1 b =	1
t = 1 t = 1 t =	2
pa = 0 pa = 1 pa =	1
pc = 0 pc = 0 pc =	0
k = 0 k = 0	0
76	0
c = 18	44
b = 1 b = 0 b =	1
t= 2	3
pa = 0 pa = 0 pa =	0
pc = 0 pc = 0 pc =	0
k = 0	0
HOUR SUBTOTAL: I = 2 I = 1 I =	3
	128
b = 1 b = 1 b =	2
t = 4 t = 2 t =	6
pa = 0 pa = 1 pa =	1
pc = 0 $pc = 0$ $pc = 0$	0
k = 0 k = 0	0

77	I =	0	I =	0	I =	0
	c =	18	c =	34	c =	52
	b =	0	b =	0	b =	0
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
78	I =	0	I =	0	1=	0
	c =	20	c =	40	c =	60
	b =	2	b =	0	b =	2
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
79	I =	0	I =	0	l =	0
	c =	26	c =	27	c =	53
	b =	1	b =	1	b =	2
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
80	1 =	0	<u>l</u> =	1	I =	1
	c =	29	c =	20	c =	49
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	1	pc =	1
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	l =	1
	c =	93	c =	121	c =	214
	b =	3	b =	1	b =	4
	t =	6	t =	3	t =	9
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	1	pc =	1
	k =	0	k =	0	k =	0

81	I =	1	I =	0	I=	1
	c =	20	c =	39	c =	59
	b =	1	b =	0	b =	1
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
82	1=	0	1=	0	I =	0
	c =	9	c =	7	c =	16
	b =	1	b =	0	b =	1
	t =	0	t =	2	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
83	I =	0	I =	1	I=	1
	c =	41	c =	49	c =	90
	b =	2	b =	4	b =	6
	t =	6	t =	3	t =	9
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
84	1=	0	1=	2	I =	2
	c =	18	c =	37	c =	55
	b =	1	b =	1	b =	2
	t =	5	t =	3	t =	8
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1=	1	I =	3	I =	4
	c =	88	c =	132	c =	220
	b =	5	b =	5	b =	10
	t =	11	t =	9	t =	20
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

85	I =	0	I =	0	I =	0
	c =	47	c =	28	c =	75
	b =	2	b =	1	b =	3
	t =	3	t =	2	t =	5
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
86	I =	0	I =	2	I =	2
	c =	28	c =	32	c =	60
	b =	0	b =	0	b =	0
	t =	1	t =	5	t =	6
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
87	I =	0	I =	0	l =	0
	c =	33	c =	34	c =	67
	b =	0	b =	0	b =	0
	t =	4	t =	3	t =	7
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
00		0		0		0
88	I =	0	I =	0	J=	0
	c =	40	c =	32	c =	72
	b =	1	b =	2 2	b =	3
	t =	9	t =		t =	11
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	T =	2	1=	2
	c =	148	c =	126	c =	274
	b =	3	b =	3	b =	6
	t =	17	t =	12	t =	29
	pa =	1	pa =	3	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

89	I =	1	I =	0] =	1
	c =	46	c =	23	c =	69
	b =	0	b =	0	b =	0
	t =	4	t =	1	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
90	1 =	0	I =	0	1=	0
	c =	27	c =	32	c =	59
	b =	0	b =	0	b =	0
	t =	5	t =	5	t =	10
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
91	1 =	0	I =	0	I =	0
	c =	39	c =	30	c =	69
	b =	1	b =	0	b =	1
	t =	3	t =	3	t =	6
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
92	1=	1	I =	0	I=	1
52	c =	40	c =	33	c =	73
	b =	0	b =	1	b =	1
	t =	1	t =	5	t =	6
	pa =	1	pa =	0	pa =	1
		0		0	•	0
	pc = k =	0	pc = k =	0	pc = k =	0
	к –	U	K -	U	K -	U
HOUR SUBTOTAL:	1=	2	I =	0	I =	2
	c =	152	c =	118	c =	270
	b =	1	b =	1	b =	2
	t =	13	t =	14	t =	27
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

93	I =	1	I =	0	I =	1
	c =	39	c =	37	c =	76
	b =	0	b =	0	b =	0
	t =	4	t =	4	t =	8
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
94	I =	0	T =	0	I =	0
	c =	33	c =	27	c =	60
	b =	0	b =	0	b =	0
	t =	3	t =	1	t =	4
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
95	I =	0	I =	1	l =	1
	c =	21	c =	33	c =	54
	b =	1	b =	1	b =	2
	t =	4	t =	2	t =	6
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
96	I =	0	I =	0	I =	0
	c =	43	c =	32	c =	75
	b =	0	b =	0	b =	0
	t =	3	t =	2	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1=	1	I=	1	I=	2
HOOK SOUTOTAL.	c =	136	c =	129	c =	265
	b =	1	b =	123	b =	2
	t =	14	t =	9	t =	23
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	рс – k =	0	k =	1	k =	1
	κ –	U	K –	1	K –	1

44	I =	24	I =	20	24 HOUR TOTAL: I =	24 HOUR TOTAL:
5066	c =	2355	c =	2711	c =	
58	b =	25	b =	33	b =	
289	t =	132	t =	157	t =	
53	pa =	29	pa =	24	pa =	
8	pc =	3	pc =	5	pc =	
2	k =	1	k =	1	k =	
44	trains =	24	trains =	20	24 HOUR TOTAL trains =	24 HOUR TOTAL
5413	motor vehicles=	2512	motor vehicles=	2901	GROUPINGS motor vehicles=	GROUPINGS
347	heavy vehicles =	157	heavy vehicles =	190	heavy vehicles =	
61	pedestrians =	32	pedestrians =	29	pedestrians =	
8	children =	3	children =	5	children =	
2	bicycles =	1	bicycles =	1	bicycles =	
22	night trains =	11	night trains =	11	night trains =	

NAME: Faith Almaraz TODAY'S DATE: 1/6/2020

SITE NAME: Indiana Ave & 138th St LOCATION: Indiana Avenue

VIDEO BEGIN DATE: 31-Oct-19 VIDEO BEGIN TIME: 11:30:00 OTHER:

TALLY MARK CODES: I = locomotive, train c = car, van, minivan, SUV, pick-up truck b = bus t = single-unit truck, tractor-trailer truck pa = adult pedestrian pc = child pedestrian k = bicycle

15-minute	OUTBOUND		INBOUND		вотн	
interval	compass direc	ction:	compass dir	ection:	DIRECTION:	S
1	I =	0	1 =	0	I =	0
	c =	19	c =	15	c =	34
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
2	 =	0	I=	0	I=	0
	c =	19	c =	18	c =	37
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
3	l =	0	1=	1	1=	1
	c =	16	c =	9	c =	25
	b =	0	b =	0	b =	0
	t =	2	t =	2	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
4	I=	1	1=	0	T=	1
	c =	32	C =	21	c =	53
	b =	1	b =	1	b =	2
	t =	0	t =	1	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	l =	1	I =	1	I =	2
	c =	86	c =	63	c =	149
	b =	1	b =	1	b =	2
	t =	2	t =	4	t =	6
	pa =	2	pa =	1	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

5	I =	0	1=	0	I =	0
	c =	27	c =	24	c =	51
	b =	0	b =	0	b =	0
	t =	0	t =	3	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
6	I =	0	I =	1	=	1
	c =	27	c =	24	c =	51
	b =	0	b =	0	b =	0
	t =	2	t =	0	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
7	I =	0	I =	0	I =	0
	c =	30	c =	24	c =	54
	b =	1	b =	0	b =	1
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
8	I =	0	1=	0	I =	0
	c =	45	c =	20	c =	65
	b =	1	b =	1	b =	2
	t =	3	t =	1	t =	4
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	0	I=	1	I=	1
TIOON SOBTOTAL.	c =	129	c =	92	c =	221
	b =	2	b =	1	b =	3
	t =	5	t =	5	t =	10
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	К –	U	K -	U	K -	U

9	l=	0	I=	0	I=	0
	c =	22	c =	46	c =	68
	b =	0	b =	0	b =	0
	t =	0	t =	2	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
10	I =	1	1=	0	1=	1
	c =	18	c =	16	c =	34
	b =	0	b =	0	b =	0
	t =	2	t =	1	t =	3
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
11	I =	0	I =	1	I =	1
	c =	24	c =	28	c =	52
	b =	1	b =	0	b =	1
	t =	2	t =	3	t =	5
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
12	I =	1	I =	0	T=	1
	c =	28	c =	13	c =	41
	b =	0	b =	1	b =	1
	t =	0	t =	2	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	1	1=	3
	c =	92	c =	103	c =	195
	b =	1	b =	1	b =	2
	t =	4	t =	8	t =	12
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

13	l =	1	I =	1	1=	2
	c =	20	c =	16	c =	36
	b =	0	b =	1	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
14	I =	0	I =	0	1=	0
	c =	38	c =	35	c =	73
	b =	0	b =	0	b =	0
	t =	3	t =	2	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
15	I =	0	I =	0	I =	0
	c =	27	c =	32	c =	59
	b =	1	b =	1	b =	2
	t =	2	t =	0	t =	2
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
16	L =	0	I =	0	[=	0
	c =	34	c =	34	c =	68
	b =	0	b =	1	b =	1
	t =	1	t =	1	t =	2
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
LIGHT CHETOTAL						
HOUR SUBTOTAL:	I =	1	I =	1	[=	2
	c =	119	c =	117	c =	236
	b =	1	b =	3	b =	4
	t =	7	t =	3	t =	10
	pa =	2	pa =	1	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

17	1=	0	I =	1	1=	1
	c =	43	c =	41	c =	84
	b =	0	b =	1	b =	1
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
18	1 =	0	1=	0	I =	0
	c =	33	c =	29	c =	62
	b =	0	b =	0	b =	0
	t =	1	t =	3	t =	4
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
19	1 =	0	I =	0	[=	0
	c =	41	c =	43	c =	84
	b =	1	b =	1	b =	2
	t =	0	t =	2	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
20	I =	0	1=	0	I =	0
	c =	28	c =	29	c =	57
	b =	0	b =	1	b =	1
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	l =	1
	c =	145	c =	142	c =	287
	b =	1	b =	3	b =	4
	t =	2	t =	7	t =	9
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

21	l =	0	I =	0	1=	0
	c =	35	c =	37	c =	72
	b =	0	b =	0	b =	0
	t =	1	t =	2	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
22	I =	0	I =	1	1=	1
	c =	31	c =	22	c =	53
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
23	I =	1	I =	0	I =	1
	c =	6	c =	3	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
24	I =	0	1=	0	I =	0
	c =	0	c =	0	C =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
LIGHT SHIPTOTAL						
HOUR SUBTOTAL:	l =	1	I =	1	I =	2
	c =	72	c =	62	c =	134
	b =	0	b =	0	b =	0
	t =	1	t =	2	t =	3
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

25	I =	0	I =	0	1=	0
	c =	42	c =	85	c =	127
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
26	I =	0] =	0	I =	0
	c =	43	c =	46	c =	89
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
27	I =	1	I =	0	[=	1
	c =	24	c =	32	c =	56
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
28	I =	0	1=	0	I =	0
	c =	25	c =	39	C =	64
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	0	l =	1
	c =	134	c =	202	c =	336
	b =	3	b =	2	b =	5
	t =	1	t =	1	t =	2
	pa =	3	pa =	2	pa =	5
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

29	I =	0	I =	2	1=	2
	c =	7	c =	13	c =	20
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
30	I =	0	I =	1	I =	1
	c =	29	c =	22	c =	51
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
31	I =	0	I =	0	I =	0
	c =	28	c =	33	c =	61
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
32	I =	0	I=	0	I =	0
	c =	34	C =	32	c =	66
	b =	0	b =	1	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
						_
HOUR SUBTOTAL:	=	0	I =	3	[=	3
	c =	98	c =	100	c =	198
	b =	2	b =	1	b =	3
	t =	2	t =	0	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

33	I =	1	I =	0	1=	1
	c =	32	c =	33	c =	65
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
34	I =	0	I =	0	I =	0
	c =	46	c =	32	c =	78
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
35	I =	0	I =	0	T =	0
	c =	33	c =	30	c =	63
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
36	I =	0	I =	0	[=	0
	c =	26	c =	37	C =	63
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
				_		
HOUR SUBTOTAL:	l =	1	I =	0	l =	1
	c =	137	c =	132	c =	269
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

37	I=	1	I =	0	I =	1
	c =	27	c =	24	c =	51
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
38	I =	0	I =	0	1=	0
	c =	29	c =	29	c =	58
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
39	[=	0	I =	0	I =	0
	c =	31	c =	25	c =	56
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
40	I =	0	I=	0	I =	0
	c =	18	c =	15	c =	33
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
LIGHT CHREATAL						
HOUR SUBTOTAL:	l =	1	1=	0	l =	1
	c =	105	c =	93	c =	198
	b =	0	b =	0	b =	0
	t =	1	t =	2	t =	3
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

41	1=	0	1=	0	I=	0
	c =	14	c =	20	c =	34
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
		_				_
42	=	0	I =	0	I =	0
	c =	24	c =	9	c =	33
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
43	Í=	0	T=	1	I=	1
43	c =	18	c =	21	c =	39
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	K-	J	K -	Ü	ж –	Ü
44	I =	0	1=	0	I =	0
	C =	9	c =	13	C =	22
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	0	I=	1	I=	1
HOOK SOBIOTAL.	c =	65	c =	63	c =	128
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
		2		1		3
	pa =		pa =		pa =	
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

45	I =	0	1=	0	1=	0
	c =	12	c =	7	c =	19
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
46	I =	0	I =	1	I =	1
	c =	11	c =	5	c =	16
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
47	I =	0	I =	0	J =	0
	c =	0	c =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
48	1=	0	I=	0	I =	0
	c =	16	c =	19	c =	35
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	I =	1
	c =	39	C =	31	c =	70
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

49	l =	0	I=	0	I=	0
	c =	5	c =	18	c =	23
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
50	I =	0	1=	0	1=	0
	c =	7	c =	3	c =	10
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
51	I =	0	I =	0	I =	0
	c =	10	c =	9	c =	19
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
52	I =	1	I=	0	I=	1
	c =	5	c =	5	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	1=	0	1=	1
	c =	27	c =	35	c =	62
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

53	I =	0	I =	0	I =	0
	c =	5	c =	5	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
54	I =	1	1=	0	1=	1
	c =	6	c =	5	c =	11
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
55	I =	0	1=	0	I =	0
	c =	4	c =	10	c =	14
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
56	I =	0	1=	1	1=	1
	c =	6	c =	6	c =	12
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	1	I =	2
	c =	21	c =	26	c =	47
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

57	I =	0	I =	1	I =	1
	c =	9	c =	4	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	2	pa =	1	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
58	I =	1	I =	0	I =	1
	c =	9	c =	12	c =	21
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
59	I =	0	I =	0] =	0
	c =	3	c =	7	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
60	I =	0	1=	0	1=	0
	c =	7	c =	5	c =	12
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	1	I =	2
	c =	28	c =	28	c =	56
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	2	pa =	1	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

61	I =	0	I=	1	l =	1
	c =	1	c =	3	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
62	I =	1	I =	0	I =	1
	c =	2	c =	2	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
63	I =	0] =	0	I =	0
	c =	2	c =	2	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
64	1-	0	1-	0	1-	0
04	l=	1	l=	4	l =	0 5
	c =	0	c =	0	c =	0
	b = t =	2	b =	2	b =	4
		0	t =	0	t =	0
	pa =		pa =	0	pa =	0
	pc = k =	0	pc = k =	0	pc = k =	0
	κ =	U	κ =	U	к =	U
HOUR SUBTOTAL:	I =	1	I =	1	I =	2
	c =	6	c =	11	c =	17
	b =	0	b =	0	b =	0
	t =	2	t =	3	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

65	I =	0	I =	1	1=	1
	c =	2	c =	1	c =	3
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
66	I =	0	I =	0] =	0
	c =	4	c =	2	c =	6
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
67	I =	1	I =	1	J =	2
	c =	3	c =	4	c =	7
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
68	I =	0	I =	0	I =	0
	c =	10	c =	7	c =	17
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	2	I =	3
	c =	19	C =	14	c =	33
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

69	I=	1	1=	0	I =	1
03	c =	7	c =	3	c =	10
	b =	Ó	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	K -	O	Κ-	U	к –	Ü
70	I =	0	I =	0	I =	0
	c =	7	c =	4	c =	11
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
71	I =	0	I =	0	Ι=	0
	c =	10	c =	6	c =	16
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
72	I =	0	I =	0	I =	0
	c =	10	c =	3	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR CURTOTAL.		4		0		1
HOUR SUBTOTAL:	l=	1 34	I =	0 16	[=	1 50
	c =		c =	0	c =	
	b =	0	b =		b =	0
	t =	2	t =	1	t =	3
	pa =	1	pa =	2	pa =	3 0
	pc =	0 0	pc = k =	0 0	pc =	0
	k =	U	κ =	U	k =	U

73	I =	1	1 =	0	1=	1
	c =	4	c =	3	c =	7
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
74	I =	1	I =	1	I =	2
	c =	9	c =	3	c =	12
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
75	I =	0	I =	0	I =	0
	c =	19	c =	7	c =	26
	b =	1	b =	0	b =	1
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
76	I =	0	I=	0	I =	0
	C =	22	c =	11	c =	33
	b =	1	b =	0	b =	1
	t =	2	t =	0	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	1	1=	3
	c =	54	c =	24	c =	78
	b =	2	b =	0	b =	2
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

77	I =	0	I =	0	I=	0
	c =	31	c =	9	c =	40
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
78	I =	0	I =	0	1=	0
	c =	28	c =	10	c =	38
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
79	I =	0	I =	0	I =	0
	c =	15	c =	11	c =	26
	b =	1	b =	0	b =	1
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
80	I =	0	I =	1	[=	1
	c =	24	c =	5	c =	29
	b =	0	b =	1	b =	1
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	I =	1
	c =	98	c =	35	c =	133
	b =	1	b =	1	b =	2
	t =	1	t =	2	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

81	1=	1	I =	0	I=	1
	c =	46	c =	13	c =	59
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
82	I =	0	I =	0	1 =	0
	c =	10	c =	10	c =	20
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
83	I =	0	I =	1	I =	1
	c =	44	c =	14	c =	58
	b =	1	b =	1	b =	2
	t =	3	t =	0	t =	3
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
84	1-	0	τ	2	1-	2
04	l=	28	l=	11	1=	2
	c =	3	c =	2	c =	39 5
	b = t =	2	b =	1	b =	3
		0	t =	0	t =	0
	pa =		pa =	0	pa =	0
	pc =	0	pc =		pc =	
	k =	U	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	1=	3	I=	4
	c =	128	c =	48	c =	176
	b =	4	b =	3	b =	7
	t =	6	t =	1	t =	7
	pa =	2	pa =	1	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

85	I =	0	I =	0	1=	0
	c =	28	c =	33	c =	61
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
86	I =	0	I =	2	I =	2
	c =	46	c =	19	c =	65
	b =	0	b =	0	b =	0
	t =	3	t =	0	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
87	I =	0	[=	0	I =	0
	c =	42	c =	21	c =	63
	b =	1	b =	2	b =	3
	t =	3	t =	0	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
88	I =	0	I =	0	1=	0
	c =	42	c =	22	c =	64
	b =	1	b =	2	b =	3
	t =	3	t =	5	t =	8
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	0	I=	2	I =	2
HOOK SOUTOTAL.	c =	158	c =	95	c =	253
	b =	2	b =	5	b =	7
	t =	9	t =	5	t =	14
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	K -	U	ν –	U	K -	J

89	I =	1	I =	0	I=	1
	c =	23	c =	24	c =	47
	b =	0	b =	0	b =	0
	t =	1	t =	2	t =	3
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
90	I =	0	I =	0	1=	0
	c =	27	c =	22	c =	49
	b =	0	b =	0	b =	0
	t =	0	t =	3	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
91	I =	0	I =	0	[=	0
	c =	17	c =	19	c =	36
	b =	0	b =	0	b =	0
	t =	0	t =	2	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
92	I =	1	1=	0	I =	1
	c =	28	c =	28	c =	56
	b =	1	b =	2	b =	3
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	0	l =	2
	c =	95	c =	93	c =	188
	b =	1	b =	2	b =	3
	t =	1	t =	7	t =	8
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

93	I =	1	1=	0	1=	1
	c =	38	c =	30	c =	68
	b =	1	b =	0	b =	1
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
94	I =	0	I =	0	[=	0
	c =	14	c =	17	c =	31
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
95	I =	0	I =	1	I =	1
	c =	22	c =	12	c =	34
	b =	1	b =	1	b =	2
	t =	2	t =	0	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
96	I =	0	I =	0	I =	0
	c =	28	c =	35	C =	63
	b =	0	b =	0	b =	0
	t =	1	t =	2	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
						_
HOUR SUBTOTAL:	I =	1	I =	1	I =	2
	c =	102	c =	94	c =	196
	b =	2	b =	1	b =	3
	t =	4	t =	3	t =	7
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1

24 HOUR TOTAL	. l=	20	I=	24	I=	44
241100K 101AL	c=	1991	c =	1719	C =	3710
	b =	23	b =	24	b =	47
	t =	56	t =	56	t =	112
	pa =	23	pa =	21	pa =	44
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	рс – k =	1
	К –	1	κ –	U	κ –	1
24 HOUR TOTAL	trains =	20	trains =	24	trains =	44
GROUPINGS	motor vehicles=	2070	motor vehicles=	1799	motor vehicles=	3869
	heavy vehicles =	79	heavy vehicles =	80	heavy vehicles =	159
	pedestrians =	23	pedestrians =	21	pedestrians =	44
	children =	0	children =	0	children =	0
	bicycles =	1	bicycles =	0	bicycles =	1
	night trains =	11	night trains =	11	night trains =	22
24 HOUR TOTAL					trains =	44
GROUPINGS	•				motor vehicles=	9282
BOTH STREETS					heavy vehicles =	506
BUIHSIKEEIS						105
					pedestrians = children =	
						8
					bicycles =	3
					night trains =	23

Lincoln Avenue Rail-Highway Crossing

NAME: Faith Almaraz TODAY'S DATE: December 4, 2019

SITE NAME: Lincoln Avenue LOCATION: Lincoln Ave. RR Crossing, Dolton, IL

VIDEO BEGIN DATE: November 12, 2019 VIDEO BEGIN TIME: 11:30:00 am OTHER:

TALLY MARK CODES: I = locomotive, train c = car, van, minivan, SUV, pick-up truck b = bus t = single-unit truck, tractor-trailer truck pa = adult pedestrian pc = child pedestrian k = bicycle

15-minute	OUTBOUND train: EB		INBOUND train		вотн	
interval		ction: SEbound	3.*c	ion: NWbound	DIRECTIONS	
1	I =	0	l =	0	I =	0
	c =	14	c =	15	c =	29
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
2	I =	1	I =	0	I =	1
	c =	16	c =	19	c =	35
	b =	1	b =	1	b =	2
	t =	0	t =	3	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
3	l =	0	I =	0	[=	0
	c =	16	c =	27	c =	43
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0
4	l =	0	l=	0	l =	0
	c =	31	c =	21	c =	52
	b =	1	b =	1	b =	2
	t =	0	t =	2	t =	2
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	0	1=	1
	c =	77	c =	82	c =	159
	b =	2	b =	2	b =	4
	t =	2	t =	6	t =	8
	pa =	3	pa =	0	pa =	3
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0

5	I =	0	l =	0	I=	0
	c =	20	c =	25	c =	45
	b =	0	b =	0	b =	0
	t =	1	t =	2	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
6	l =	0	l =	0	J =	0
	c =	15	c =	16	c =	31
	b =	1	b =	0	b =	1
	t =	3	t =	2	t =	5
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
7	I =	0	I =	0	I =	0
	c =	26	c =	16	c =	42
	b =	0	b =	1	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
		_				
8	=	0	I =	0	I =	0
	c =	22	c =	13	c =	35
	b =	1	b =	0	b =	1
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	Ī=	0
	c =	83	c =	70	c =	153
	b =	2	b =	1	b =	3
	t =	7	t =	5	t =	12
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	K -	U	K =	J	κ –	U

9	I =	0	I =	0	I =	0
	c =	22	c =	21	c =	43
	b =	0	b =	1	b =	1
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
		-		-		_
10	I =	0	Le	0	I =	0
	c =	23	c =	17	c =	40
	b =	1	b =	1	b =	2
	t =	3	t =	1	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
11	I =	0	I=	0	I=	0
11	c =	34	C =	24	c =	58
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pa = pc =	0	pc =	0	pa =	0
	μc = k =	0	μc – k =	0	ρc – k =	0
	к –	U	K -	U	K -	U
12	I =	0	[=	0	I =	0
	c =	38	c =	21	c =	59
	b =	0	b =	1	b =	1
	t =	0	t =	2	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	0	I=	0	E=	0
HOUR SUBTUTAL.		117		83		200
	c =		c =		c =	
	b = t =	1 6	b =	3	b =	4
			t =		t =	10
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

13	I =	0	I =	0	I=	0
	c =	14	c =	9	c =	23
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
14	I =	0	L=	0	I =	0
	c =	34	c =	29	c =	63
	b =	1	b =	1	b =	2
	t =	2	t =	0	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
15	l =	0	I =	0	I =	0
	c =	32	c =	28	c =	60
	b =	0	b =	1	b =	1
	t =	2	t =	2	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0
16	I =	0	l =	0	[=	0
	c =	55	c =	30	c =	85
	b =	1	b =	3	b =	4
	t =	1	t =	3	t =	4
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I=	0	I=	0
HOOK SOBTOTAL.	c =	135	c =	96	c =	231
	b =	3	b =	5	b =	8
	t =	5	t =	5	t =	10
	ι = pa =	0	pa =	0	pa =	0
		1	pc =	0		1
	pc = k =	0	k =	0	pc = k =	0
	κ =	U	κ =	U	κ =	U

17	 =	0	I =	0	I =	0
	c =	53	c =	40	c =	93
	b =	0	b =	1	b =	1
	t =	1	t =	0	t =	1
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
18	I =	0	I =	0	I =	0
	c =	39	c =	18	c =	57
	b =	1	b =	2	b =	3
	t =	1	t =	0	t =	1
	pa =	0	pa =	2	pa =	2
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0
19	I =	0	l =	0	I =	0
	c =	36	c =	31	c =	67
	b =	1	b =	1	b =	2
	t =	3	t =	3	t =	6
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
20	I =	0	I =	0	I =	0
	c =	25	c =	18	c =	43
	b =	1	b =	0	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
LIQUID CUIDTOTAL		•		•		•
HOUR SUBTOTAL:	I =	0	I=	0	I=	0
	c =	153	c =	107	c =	260
	b =	3	b =	4	b =	7
	t =	6	t =	3	t =	9
	pa =	2	pa =	4	pa =	6
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0

21	I =	0	I =	0] =	0
	c =	42	c =	26	c =	68
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
22						
22	I=	0	L=	0	I=	0
	c =	39	c =	17	c =	56
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
23	I =	0	I=	0	I =	0
23	c =	52	c =	30	c =	82
	b =	1	b =	2	b =	3
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	K	J	K	J	K	J
24	l =	0	[=	0] =	0
	c =	53	c =	14	c =	67
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I=	0	I=	0
HOUR SUBTUTAL.						0 272
	c =	186	c =	87	C =	273
	b =	3	b =	3	b =	6
	t =	1	t =	0	t =	1
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

25	I =	0	I =	0] =	0
	c =	49	c =	23	c =	72
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
26						
26	l =	0	L=	1	I=	1
	c =	37	c =	24	c =	61
	b =	0	b =	2	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
27	l =	0	I=	0	I =	0
	c =	50	c =	44	c =	94
	b =	2	b =	1	b =	3
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
		Ü				Ü
28	l =	0	[=	1	I =	1
	c =	25	c =	13	c =	38
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I=	2	I=	2
TIOON SOBTOTAL.	c =	161	c =	104	c =	265
	b =	4	b =	4	b =	8
						0
	t =	0	t =	0	t =	0
	pa =		pa =		pa =	
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	U

29	I =	0	I =	0	I =	0
	c =	35	c =	20	c =	55
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
30	I =	0	I =	1	I =	1
	c =	20	c =	24	c =	44
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
31	I =	0	I =	0	I =	0
	c =	32	c =	16	c =	48
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
32	I =	0	1=	0	[=	0
	c =	26	c =	15	c =	41
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	I=	1
TICON SOUTOTAL.	c =	113	c =	75	c =	188
	b =	4	b =	3	b =	7
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pa = pc =	0	pc =	0	pc =	0
	μc = k =	0	рс – k =	0	k =	0
	K -	U	κ –	U	κ –	U

33	I =	1	I =	0	[=	1
	c =	18	c =	22	c =	40
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
34	I =	1	I =	0	I =	1
	c =	14	c =	15	c =	29
	b =	1	b =	0	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
35	I =	0	I =	0	[=	0
	c =	12	c =	19	c =	31
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
36	=	0	I =	0	I =	0
	c =	15	c =	9	c =	24
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	0	[=	2
	c =	59	c =	65	c =	124
	b =	2	b =	2	b =	4
	t =	2	t =	0	t =	2
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

37	I =	0	I =	0	I =	0
	c =	13	c =	13	c =	26
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
38	I =	0	I =	0	1=	0
	c =	9	c =	12	c =	21
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
39	I =	0	I =	0	I =	0
	c =	18	c =	14	c =	32
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
40	I =	0	I =	0	I =	0
	c =	6	c =	7	c =	13
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	l =	0	I =	0
	c =	46	c =	46	c =	92
	b =	2	b =	1	b =	3
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

41	I =	0	I =	0	I =	0
	c =	10	c =	7	c =	17
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
42	l =	0	I =	0	I =	0
	c =	18	c =	15	c =	33
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
43	I =	0	I =	1	I =	1
	c =	11	c =	8	c =	19
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
44	l =	0	I =	0	I =	0
	c =	8	c =	11	c =	19
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1-	0	1-	1	T-	1
HOUR SUBTUTAL.	l = c =	47	l = c =	1 41	l = c =	1 88
	b =	1	b =	2	b =	3
	t =	0	t =	0	t =	0
		0		2		2
	pa =		pa =	0	pa =	
	pc = k =	0	pc = k =	0	pc = k =	0
	κ =	U	κ =	U	κ =	U

45	I =	0	I =	0	[=	0
	c =	18	c =	12	c =	30
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
46	I =	0	I=	0	I=	0
	c =	8	c =	7	c =	15
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
47	I =	0	I=	0	I=	0
	c =	18	c =	12	c =	30
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
48	I =	0	I=	0	I =	0
	c =	7	c =	9	c =	16
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	I=	0
	c =	51	c =	40	c =	91
	b =	3	b =	1	b =	4
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

49	I =	0	I =	0	I =	0
	c =	11	c =	3	c =	14
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
50	I =	0	I =	0	1=	0
	c =	3	c =	2	c =	5
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
51	I =	0	I =	1	1=	1
	c =	7	c =	3	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
52	I =	0	l =	0	I =	0
	c =	5	c =	7	c =	12
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	1	I =	1
	c =	26	c =	15	c =	41
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

53	I =	0	I =	0	I =	0
	c =	4	c =	4	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
54	I =	0	l=	0	1=	0
	c =	7	c =	7	c =	14
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
55	l =	0	l =	0	1=	0
	c =	3	c =	2	c =	5
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
56	I =	0	l =	0	I =	0
	c =	3	c =	1	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	1=	0
	c =	17	c =	14	c =	31
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

57	l =	0	I =	0	I =	0
	c =	4	c =	1	c =	5
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
58	I =	0	I =	0	I =	0
	c =	3	c =	5	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
59	l =	0	I =	0	I =	0
	c =	1	c =	0	c =	1
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
60	 =	0	I =	0	I =	0
	c =	2	c =	2	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	I=	0
TIOOK SOBTOTAL.	c =	10	c =	8	c =	18
	b =	0		0		0
	b = t =	0	b = t =	0	b = t =	0
		0		0		0
	pa =		pa =		pa =	
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

61	I =	0	I =	0	I =	0
	c =	3	c =	2	c =	5
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
62	l =	0	I =	1	I =	1
	c =	1	c =	1	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
63	I =	0	I =	0	l =	0
	c =	5	c =	1	c =	6
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
64	I =	0	I =	0	I =	0
	c =	2	c =	1	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I=	1	I=	1
110011000101112.	c =	11	c =	5	c =	16
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	B		К-	U	K-	U

65	I =	0	[=	0	I =	0
	c =	3	c =	2	c =	5
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
66	L=	0	I =	0	I =	0
	c =	3	c =	4	c =	7
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
67	l =	0	I =	0	1 =	0
	c =	0	c =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
68	I =	0	l =	0	I =	0
	c =	2	c =	3	c =	5
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	8	c =	9	c =	17
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

69	I =	0	I =	1	I =	1
	c =	3	c =	5	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
70	I =	0	I =	0	I=	0
	c =	9	c =	8	c =	17
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
71	I =	0	I =	0	I =	0
	c =	4	c =	13	c =	17
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
70		^	r.			
72	l =	0	I =	0	I =	0
	c =	7	c =	14	c =	21
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	0	I =	1	I=	1
	c =	23	c =	40	c =	63
	b =	0	b =	1	b =	1
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

73	I =	0	I =	0	I =	0
	c =	7	c =	3	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
74	I =	0	l =	0	I =	0
	c =	4	c =	20	c =	24
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
75	I =	0	l =	0	I =	0
	c =	11	c =	8	c =	19
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
76	I =	0	l =	0	I =	0
	c =	11	c =	8	c =	19
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	l =	0	I =	0
	c =	33	c =	39	c =	72
	b =	1	b =	0	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

77	I =	0	[=	0] =	0
	c =	29	c =	26	c =	55
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0
78	I =	0	I =	0	I =	0
	c =	18	c =	27	c =	45
	b =	0	b =	2	b =	2
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
79	I =	0	l =	0	<u>I</u> =	0
	c =	24	c =	32	c =	56
	b =	2	b =	0	b =	2
	t =	3	t =	0	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
80	I =	0	l =	0	T =	0
	c =	25	c =	26	c =	51
	b =	1	b =	1	b =	2
	t =	0	t =	2	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	96	c =	111	c =	207
	b =	3	b =	4	b =	7
	t =	4	t =	2	t =	6
	pa =	0	pa =	0	pa =	0
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0

81	I =	0	I =	0	I =	0
	c =	14	c =	29	c =	43
	b =	1	b =	0	b =	1
	t =	0	t =	2	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
82	I=	0	I=	0	I=	0
	c =	19	c =	16	c =	35
	b =	1	b =	5	b =	6
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
83	l =	0	I=	0	I=	0
	c =	17	c =	37	c =	54
	b =	2	b =	3	b =	5
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
84	I =	0	 =	0	T=	0
	c =	16	c =	27	c =	43
	b =	1	b =	0	b =	1
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I=	0	I=	0
	c =	66	c =	109	c =	175
	b =	5	b =	8	b =	13
	t =	3	t =	3	t =	6
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

85	I =	1	I =	0	I =	1
	c =	14	c =	24	c =	38
	b =	1	b =	0	b =	1
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
86	I =	0	I=	0	I =	0
	c =	28	c =	36	c =	64
	b =	2	b =	2	b =	4
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
87	I =	0	l =	0	I =	0
	c =	26	c =	27	c =	53
	b =	1	b =	0	b =	1
	t =	0	t =	1	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
88	I =	0	I =	0	I =	0
	c =	20	C =	21	c =	41
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
LIQUID CUIDTOTAL	1			0	1	
HOUR SUBTOTAL:	l =	1	I=	108	I =	1
	c =	88	c =	108	c =	196
	b =	4	b =	3	b =	7
	t =	2	t =	3	t =	5
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

89	I =	0	I =	0] =	0
	c =	15	c =	29	c =	44
	b =	2	b =	0	b =	2
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
90	I =	0	I=	1	I=	1
50	c =	18	c =	23	c =	41
	b =	1	b =	1	b =	2
	t =	1	t =	0	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
	K-	Ü	K-	Ü	K -	Ü
91	I =	0	1=	1	I =	1
	c =	17	c =	16	c =	33
	b =	0	b =	1	b =	1
	t =	0	t =	3	t =	3
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
92	l =	1	I =	0	I =	1
32	c =	0	c =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR CURTOTAL	i e			2		2
HOUR SUBTOTAL:	I =	1	I=	2	I =	3
	c =	50	c =	68	c =	118
	b =	3	b =	2	b =	5
	t =	2	t =	4	t =	6
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

93	I =	0	I =	0	I =	0
	c =	20	c =	35	c =	55
	b =	1	b =	0	b =	1
	t =	2	t =	1	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
94	I =	0	I =	0	I =	0
	c =	22	c =	16	c =	38
	b =	1	b =	1	b =	2
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
95	l =	1	I =	0	I =	1
	c =	20	c =	30	c =	50
	b =	1	b =	0	b =	1
	t =	1	t =	2	t =	3
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
96	l =	0	I =	0	I =	0
	c =	22	c =	16	c =	38
	b =	0	b =	1	b =	1
	t =	1	t =	1	t =	2
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	0	I =	1
	c =	84	c =	97	c =	181
	b =	3	b =	2	b =	5
	t =	5	t =	5	t =	10
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

15	I =	9	l =	6	24 HOUR TOTAL: I =
3259	c =	1519	c =	1740	c =
102	b =	52	b =	50	b =
88	t =	42	t =	46	t =
20	pa =	11	pa =	9	pa =
4	pc =	0	pc =	4	pc =
0	k =	0	k =	0	k =
15	trains =	9	trains =	6	24 HOUR TOTAL trains =
3449	motor vehicles=	1613	motor vehicles=	1836	GROUPINGS motor vehicles=
190	heavy vehicles =	94	heavy vehicles =	96	heavy vehicles =
24	pedestrians =	11	pedestrians =	13	pedestrians =
4	children =	0	children =	4	children =
0	bicycles =	0	bicycles =	0	bicycles =
9	night trains =	7	night trains =	2	night trains =

137th Street Rail-Highway Crossing

NAME: Mary Talarico TODAY'S DATE: December 4, 2019

SITE NAME: 137th Street LOCATION: 137th Street RR Crossing, Riverdale, IL

VIDEO BEGIN DATE: November 7, 2019 VIDEO BEGIN TIME: 11:15:00 OTHER:

TALLY MARK CODES: I = locomotive, train c = car, van, minivan, SUV, pick-up truck b = bus t = single-unit truck, tractor-trailer truck pa = adult pedestrian pc = child pedestrian k = bicycle

15-minute	OUTBOUND to		INBOUND tr		вотн	
interval	compass direc	ction: EB	compass dir	ection: WB	DIRECTIONS	6
1	I =	1	l =	0	I =	1
	c =	9	c =	12	c =	21
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
2	1=	0	I=	0	T=	0
	c =	1	c =	2	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
3	I =	0	 =	0	I=	0
	c =	7	c =	4	c =	11
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	3	pa =	0	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
4	I =	0	I=	0	I=	0
	c =	4	c =	4	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1 =	1	1=	0	I=	1
	c =	21	c =	22	c =	43
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	4	pa =	1	pa =	5
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1

5] =	0	l =	0	I =	0
	c =	7	c =	6	c =	13
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
					Y	
6] =	1	[=	0	[=	1
	c =	3	c =	2	c =	5
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
7	I =	1	I =	1	1=	2
,	c =	5	c =	5	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
		0		1		1
	pa =		pa =		pa =	
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
8	l =	0	I =	0	[=	0
	c =	14	c =	7	c =	21
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	1	pc =	0	pc =	1
	k =	0	k =	1	k =	1
HOUR CURTOTAL	1	2	Total Control		Ÿ	2
HOUR SUBTOTAL:	1=	2	[=	1	I =	3
	c =	29	c =	20	c =	49
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	1	pa =	1	pa =	2
	pc =	1	pc =	0	pc =	1
	k =	0	k =	1	k =	1

9	I =	0	I =	0	I =	0
	c =	9	c =	11	c =	20
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
10	I =	0	I =	0]=	0
	c =	2	c =	1	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
11	I =	0	I =	0	I =	0
	c =	8	c =	5	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
12	I =	0	I =	1] =	1
	c =	15	c =	3	c =	18
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	l =	0	I =	1	1-	1
HOUR SUBTUTAL.	c =	34	c =	20	I = c =	1 54
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	т = pa =	0	r = pa =	0	pa =	0
		0		0		
	pc = k =	0	pc = k =	0	pc = k =	0 0
	K =	U	к –	U	к –	U

13	[=	0	I =	0] =	0
	c =	7	c =	10	c =	17
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
14	I =	0	I=	0	I =	0
	c =	9	c =	9	c =	18
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
15	I =	0	l =	0	<u>I</u> =	0
	c =	12	c =	14	c =	26
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
16	I =	1	[=	0	I =	1
	c =	11	c =	11	c =	22
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	0	I =	1
	c =	39	c =	44	c =	83
	b =	0	b =	0	b =	0
	t =	2	t =	1	t =	3
	pa =	2	pa =	1	pa =	3
	pc =	1	pc =	0	pc =	1
	k =	0	k =	0	k =	0

17	I =	0	I =	0	I =	0
	c =	19	c =	6	c =	25
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	1	pc =	1
	k =	0	k =	0	k =	0
18	I =	1	I =	0	I =	1
	c =	5	c =	5	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
19	I =	0	I =	0] =	0
	c =	3	c =	4	c =	7
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
20	=	0	I =	0	I =	0
	c =	9	c =	7	c =	16
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I=	1	I =	0	I =	1
110011000101712.	c =	36	c =	22	c =	58
	b =	0	b =	2	b =	2
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	1	pc =	1
	k =	0	k =	0	k =	0
	R.	J	к-	J	K-	0

21	I =	1	I =	0	I =	1
	c =	5	c =	14	c =	19
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	3	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
22	I =	0	I =	0	I =	0
	c =	15	c =	5	c =	20
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
23	I =	0	l =	0	I =	0
	c =	9	c =	8	c =	17
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
24	I =	0	l =	0	I =	0
	c =	18	c =	2	c =	20
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
LIQUID CUIDTOTAL						
HOUR SUBTOTAL:	l =	1	I=	0	l=	1
	c =	47	c =	29	c =	76
	b =	1	b =	0	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	3	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1

25	I =	0	I =	2	I =	2
	c =	11	c =	3	c =	14
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	1	pc =	1
	k =	0	k =	0	k =	0
26	I =	0	I =	0	1=	0
	c =	8	c =	10	c =	18
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
27	I =	0	I =	0	l =	0
	c =	11	c =	11	c =	22
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
28	I =	0	I =	0] =	0
	c =	3	c =	9	c =	12
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1=	0	I =	2	I=	2
HOOK SOBIOTAL.	c =	33	c =	33	c =	66
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	2	pa =	4	pa =	6
	pc =	0	pc =	1	pc =	1
	k =	0	рс – k =	0	k =	0
	K -	U	κ –	U	K -	U

29	I =	0	I =	0	[=	0
	c =	1	c =	9	c =	10
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
30	I=	1	I=	1	I=	2
	c =	2	c =	5	c =	7
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
31	1=	0	I=	0	I =	0
	c =	17	c =	11	c =	28
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
32	I =	0	 =	0	I =	0
	c =	18	c =	7	c =	25
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	2	pa =	1	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I=	1	I=	2
	c =	38	c =	32	c =	70
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	2	pa =	2	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

33	I =	0	I =	0	I =	0
	c =	7	c =	6	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
34	I =	0	I =	0	I=	0
	c =	10	c =	8	c =	18
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
35	I =	0	I =	0	l =	0
	c =	3	c =	5	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
36	I =	0	[=	0] =	0
	c =	6	c =	7	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I =	0	I =	0
	c =	26	c =	26	c =	52
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	1	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

37	I =	0	I =	1	I =	1
	c =	0	c =	6	c =	6
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
38	l =	0	L=	0	1=	0
	c =	1	c =	1	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
39	I =	0	I =	0	1=	0
	c =	2	c =	1	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
40	Torre	0		0	Y.	0
40	l =	0	l =	0	I =	0
	c =	2	c =	6	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	1=	0	I =	1	I =	1
	c =	5	c =	14	c =	19
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	2	pa =	3
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
	K -	O	–	_	K -	1

41	I =	0	I =	1	I =	1
	c =	1	c =	1	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
42	I =	0	I =	0	I =	0
	c =	2	c =	2	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
43	I =	1	I =	0	I =	1
	c =	2	c =	2	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
44	I =	1	l =	0	I=	1
	c =	3	c =	4	c =	7
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	2	pc =	2
	k =	1	k =	0	k =	1
HOUR SUBTOTAL:	I =	2	I =	1	I =	3
	c =	8	c =	9	c =	17
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	2	pc =	2
	k =	1	k =	0	k =	1

45	I =	0	[=	0	[=	0
	c =	2	c =	0	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
46	I =	1	l =	1	I =	2
	c =	1	c =	1	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
47	I =	0	l =	0	I =	0
	c =	2	c =	6	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
48	I =	0	[=	0	I =	0
40	c =	0	c =	2	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0		0		0
		0	pa =	0	pa =	0
	pc = k =	0	pc = k =	0	pc = k =	0
	K -	U	к –	U	К –	U
HOUR SUBTOTAL:	I=	1	I =	1	I =	2
	c =	5	c =	9	c =	14
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

49	l =	0	I =	0	I =	0
	c =	1	c =	3	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
50	I =	0	I =	0	I =	0
	c =	1	c =	1	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
51	l =	0	I =	0	I=	0
31	c =	1		1	c =	2
	b =	0	c = b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
52	I =	1	I =	1	I =	2
	c =	1	c =	0	c =	1
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
LIQUID CUIDTOTAL			1			2
HOUR SUBTOTAL:	l =	1	l =	1	I =	2
	c =	4	c =	5	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

53	I =	1	[=	0	[=	1
	c =	1	c =	3	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
54	I=	0	I=	0	1=	0
	c =	5	c =	1	c =	6
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
55	I =	1	I =	0	1=	1
	c =	0	c =	2	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
56	I =	0	I =	0	I =	0
	c =	1	c =	2	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	0	1=	2
	c =	7	c =	8	c =	15
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

57	I =	0	I =	1	I =	1
	c =	0	c =	1	c =	1
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
58	I =	1	I =	0	1=	1
	c =	0	c =	2	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
59	I =	0	I =	0	I =	0
	c =	0	c =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
60	I =	1	 =	0	J =	1
	c =	1	c =	0	c =	1
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	1	I =	3
	c =	1	c =	3	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

		•	F			•
61	I =	0	I =	0	I =	0
	c =	0	c =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
62	I =	0	I =	0	I =	0
	c =	0	c =	2	c =	2
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
63	I =	0	I =	0	1=	0
	c =	2	c =	1	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
64	I =	0	I =	0	I =	0
	c =	3	c =	1	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	0	I=	0	I=	0
TIOON SOBTOTAL.	c =	5	c =	4	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0		0
		0	2010/	0	pa =	0
	pc = k =	0	pc =	0	pc =	0
	κ =	U	k =	U	k =	U

65	I =	0	I =	0] =	0
	c =	1	c =	0	c =	1
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
66	I =	0	I =	2	1 =	2
	c =	3	c =	0	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
67	I =	0	l =	0	I =	0
	c =	0	c =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
68	1-	4	1-	0	T-	-
08	l =	1	l =	0	I =	1
	c =	0	c =	0	c =	0
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	2	I =	3
	c =	4	c =	0	c =	4
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

I =	0	I =	0] =	0
c =	0	c =	0	c =	0
b =	0	b =	0	b =	0
t =	0	t =	0	t =	0
pa =	0	pa =	0	pa =	0
pc =	0	pc =	0	pc =	0
k =	0	k =	0	k =	0
I =	0	I =	0	 =	0
c =	0	c =	0	c =	0
b =	0	b =	0	b =	0
t =	0	t =	0	t =	0
pa =		pa =	0	pa =	0
pc =	0	pc =	0	pc =	0
k =	0	k =	0	k =	0
I =	1	l =	0	I =	1
c =	1	c =	0	c =	1
b =		b =	0	b =	0
t =		t =	0	t =	0
pa =		pa =		pa =	0
pc =		pc =	0	pc =	0
k =	0	k =	0	k =	0
I =		l =]=	0
c =	1	c =	4	c =	5
b =	0	b =	0	b =	0
t =	0	t =	0	t =	0
pa =		pa =	0	pa =	0
pc =		pc =		pc =	0
k =	0	k =	0	k =	0
	_				
					1
					6
					0
					0
					0
					0
k =	0	k =	0	k =	0
	c = b = t = pc = k = l = pc	c = 0 b = 0 t = 0 pa = 0 pc = 0 b = 0 t = 0 pa = 0 pc = 0 k = 0 l = 1 t = 0 pa = 0 pc = 0 k = 0 l = 0 pa = 0 pc = 0 t = 0 pa = 0 pc = 0 pa = 0 pc = 0	c = 0 c = b = 0 b = t = 0 t = pa = 0 pa = pc = 0 k = l = 0 c = b =	c = 0 c = 0 b = 0 t = 0 t = 0 pa = 0 pa = 0 pa = 0 pc = 0 pc = 0 k = 0 k = 0 l = 0 c = 0 b = 0 c = 0 b = 0 pa = 0 pa = 0 pa = 0 pa = 0 pc = 0 k = 0 k = 0 l = 1 l = 0 pa = 0 pc = 0 k = 0 k = 0 l = 0 k = 0 l = 0 k = 0 l = 0 k = 0 l = 0 k = 0 l = 0 pc = 0 k = 0 k = 0 l = 1 l = 0	c= 0 c= 0 b= b= 0 b= 0 b= t= 0 t= 0 b= pa= 0 pa= 0 pa= pc= 0 pc= 0 pc= k= 0 k= 0 k= l= 0 c= 0 c= b= 0 b= 0 b= t= 0 b= 0 b= t= 0 pa= 0 pa= pc= 0 pc= 0 pc= k= 0 k= 0 k= I= 1 I= 0 I= c= 1 c= 0 c= b= 0 b= 0 b= t= 0 pa= 0 pa= pc= 0 pc= 0 pc= k= 0 b=

73	I =	0	I =	0] =	0
	c =	2	c =	4	c =	6
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
74	L=	0	I =	0	I =	0
	c =	0	c =	3	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
75	I =	1	I =	0	1 =	1
	c =	3	c =	6	c =	9
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
			F			
76	I =	0	[=	0	I =	0
	c =	12	c =	15	c =	27
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
HOUR SUBTOTAL:	I=	1	I=	0	I =	1
11001100010111121	c =	17	c =	28	c =	45
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
	N.	J	n –	-	K -	-

77	I =	1	I =	0	[=	1
	c =	4	c =	9	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
78	I =	0	I =	0	I =	0
	c =	10	c =	12	c =	22
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
79	I =	0	I =	1	[=	1
	c =	6	c =	13	c =	19
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
80	=	0	I =	1	I =	1
	c =	25	c =	4	c =	29
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	1	k =	1
HOUR SUBTOTAL:	I =	1	I=	2	I=	2
HOUR SUBTUTAL.		1 45		38		3 83
	c =		c =		c =	
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0 1
	pa =	1	pa =		pa =	
	pc = k =	0	pc =	0	pc =	0 1
	κ =	U	k =	1	k =	1

81	l =	0	I =	0	1=	0
	c =	13	c =	5	c =	18
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	2	pc =	0	pc =	2
	k =	1	k =	0	k =	1
82	I =	1	I=	0	1=	1
	c =	2	c =	11	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	1	pc =	1
	k =	0	k =	0	k =	0
83	I =	0	l =	0	I =	0
	c =	11	c =	10	c =	21
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	2	pc =	0	pc =	2
	k =	0	k =	0	k =	0
84	I =	1	[=	0	T=	1
	c =	8	c =	11	c =	19
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	0	I =	2
	c =	34	c =	37	c =	71
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	1	pa =	0	pa =	1
	pc =	4	pc =	1	pc =	5
	k =	1	k =	0	k =	1

85	I =	1	I =	0	[=	1
	c =	6	c =	7	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
86	L=	0	I =	0	1=	0
	c =	7	c =	9	c =	16
	b =	0	b =	0	b =	0
	t =	0	t =	2	t =	2
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
87	l =	1	I =	1	I =	2
	c =	9	c =	5	c =	14
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
88	l =	0	I =	0	I =	0
	c =	3	c =	7	c =	10
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
HOUR SUBTOTAL:	I =	2	I =	1	I =	3
	c =	25	c =	28	c =	53
	b =	0	b =	1	b =	1
	t =	0	t =	2	t =	2
	pa =	0	pa =	1	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1

89	I =	0	[=	0	I =	0
	c =	3	c =	4	c =	7
	b =	1	b =	1	b =	2
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
90	I =	0	I =	0	I =	0
	c =	7	c =	8	c =	15
	b =	0	b =	0	b =	0
	t =	1	t =	0	t =	1
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
91	I =	1	I =	0	[=	1
	c =	1	c =	2	c =	3
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
92	I =	1	l =	0	I =	1
	c =	0	c =	2	c =	2
	b =	0	b =	1	b =	1
	t =	0	t =	0	t =	0
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	2	I =	0	I =	2
	c =	11	c =	16	c =	27
	b =	1	b =	2	b =	3
	t =	1	t =	0	t =	1
	pa =	0	pa =	2	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0

93	I =	1	I =	2	Ī=	3
	c =	2	c =	6	c =	8
	b =	0	b =	0	b =	0
	t =	0	t =	0	t =	0
	pa =	2	pa =	0	pa =	2
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
94	I =	0	I =	0	1=	0
	c =	6	c =	3	c =	9
	b =	0	b =	0	b =	0
	t =	1	t =	1	t =	2
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1
95	I =	0	I =	0	1=	0
	c =	6	c =	7	c =	13
	b =	0	b =	0	b =	0
	t =	0	t =	1	t =	1
	pa =	1	pa =	0	pa =	1
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
96	I =	0	I =	0	I =	0
	c =	6	c =	9	c =	15
	b =	0	b =	0	b =	0
	t =	3	t =	0	t =	3
	pa =	0	pa =	0	pa =	0
	pc =	0	pc =	0	pc =	0
	k =	0	k =	0	k =	0
HOUR SUBTOTAL:	I =	1	I =	2	I =	3
	c =	20	c =	25	c =	45
	b =	0	b =	0	b =	0
	t =	4	t =	2	t =	6
	pa =	4	pa =	0	pa =	4
	pc =	0	pc =	0	pc =	0
	k =	1	k =	0	k =	1

43	I =	17	[=	26	24 HOUR TOTAL: I =
972	c =	476	c =	496	c =
7	b =	5	b =	2	b =
18	t =	6	t =	12	t =
42	pa =	22	pa =	20	pa =
11	pc =	5	pc =	6	pc =
10	k =	4	k =	6	k =
43	trains =	17	trains =	26	24 HOUR TOTAL trains =
997	motor vehicles=	487	motor vehicles=	510	GROUPINGS motor vehicles=
25	heavy vehicles =	11	heavy vehicles =	14	heavy vehicles =
53	pedestrians =	27	pedestrians =	26	pedestrians =
11	children =	5	children =	6	children =
10	bicycles =	4	bicycles =	6	bicycles =
22	night trains =	11	night trains =	11	night trains =

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