CRASH DATA RESEARCH CENTER

Calspan Corporation Buffalo, NY 14225

NOT-IN-TRAFFIC SURVEILLANCE CALSPAN ON-SITE BACK OVER INCIDENT INVESTIGATION

SCI CASE NO.: CA08032

VEHICLE: 2004 NISSAN ALTIMA

LOCATION: NEW YORK

CRASH DATE: JULY 2008

Contract No. DTNH22-07-C-00043

Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration Washington, D.C. 20590

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

TECHNICAL REPORT STANDARD TITLE PAGE

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This on-site investigation focused on the sight distances and the circumstances involving a back over incident that resulted in non-fatal injuries to a 3-year-old male.

16. Abstract

This on-site investigation focused on the sight distances and the circumstances involving a back over incident that resulted in non-fatal injuries to a 3-year-old male. The vehicle in this incident was a 2004 Nissan Altima that was operated by a 28-year-old female driver. The 3-year-old-old male non-motorist is the son of the driver. He was struck by the vehicle's rear bumper as the vehicle was backing into the driveway. The non-motorist was consequently knocked to the ground and was struck by the undercarriage components of the Altima. The non motorist sustained multiple soft tissue injuries to the face and extremities and was hospitalized for five days. It was determined during the on-site investigation, that the non-motorist entered the blind zone during the backing trajectory; therefore, he was not visible to the driver at the time of the incident.

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NOT-IN-TRAFFIC SURVEILLANCE CALSPAN ON-SITE BACK OVER INCIDENT INVESTIGATION SCI CASE NO.: CA08032

VEHICLE: 2004 NISSAN ALTIMA LOCATION: NEW YORK CRASH DATE: JULY 2008

Background

This on-site investigation focused on the sight distances and the circumstances involving a back over incident that resulted in non-fatal injuries to a 3-year-old male. The vehicle in this incident was a 2004 Nissan Altima (Figure 1) that was operated by a 28-year-old female driver. The 3-year-old-old male non-motorist is the son of the driver. He was struck by the vehicle's rear bumper as the vehicle was backing into the driveway. The non-motorist was consequently knocked to the ground and was struck by the undercarriage components of



the Altima. The non motorist sustained multiple soft tissue injuries to the face and extremities and was hospitalized for five days. It was determined during the on-site investigation, that the non-motorist entered the blind zone during the backing trajectory; therefore, he was not visible to the driver at the time of the incident.

This incident was identified by the Calspan Special Crash Investigations (SCI) team through an Internet news search. Details of the incident were forwarded to the Crash Investigation Division (CID) of the National Highway Traffic Safety Administration (NHTSA) on July 30, 2008. The SCI team established cooperation with the investigating police agency and the driver of the Nissan on August 12, 2008 to facilitate the inspection of the Nissan and the incident site. Due to the Agency's interests in Not-In-Traffic incidents, this case was assigned as an on-site investigation on August 12, 2008. The inspection of the vehicle, incident site, and driver interview were conducted on August 14, 2008.

Summary

Incident Site

This incident occurred during the daylight hours of July 2008 in the driveway of a private The weather at the time of the residence. incident was clear with no adverse conditions and the temperature was recorded at 81 degrees F (27.2 degrees C).

The residence consisted of a two story home with a single vehicle attached garage (Figure 2)



Figure 2. Overall view of the incident site.

located on the north side of a two-lane east/west road. A concrete surfaced driveway that measured 3.3 meters (10.8 feet) in width and 8.9 meters (29.2 feet) in length extended from the residence to the roadway. The roadway measured 10.3 meters (33.9 feet) wide and was surfaced with asphalt. The driveway was bordered by a red colored decorative concrete border that was 4.6 cm (1.8") in height. Adjacent to the border was a landscaped area that consisted of decorative stone, shrubs, and small trees. The landscaping did not interfere with the driver's vision during this backing incident. Due to the crown of the roadway, there was a negative grade of -1.4 percent as the vehicle approached the mouth of the driveway. A positive grade of 1.8 percent was present leading from the mouth of the driveway towards the garage. The Incident Schematic is attached as **Figure 8** of this report.

Vehicle Data

The vehicle in this incident was a 2004 Nissan Altima SL sedan (Figure 3). The Nissan was manufactured in 01/04 and was identified by Vehicle Identification Number (VIN): 1N4AL11D94C (production number deleted). The Nissan was equipped with a 2.5-liter, fourcylinder engine, a four-speed automatic transmission, and front-wheel drive. The tires on the vehicle were P205/65R16 mounted on OEM alloy wheels. The Nissan was not equipped with a backup camera or parking assist system.



Figure 3. 2004 Nissan Altima, case vehicle.

The window glazing was AS1 for the laminated windshield. The front door glazing was AS2 and the rear door glazing and backlight were AS2 with aftermarket tint. The Nissan was equipped with an OEM sun roof that contained AS3 glazing. The driver stated that all windows were closed during the incident. Other than the aftermarket tint, the clarity of the glass was clear at the time of the incident. There were no obstructions to the side or back glazing; however, at the time of the investigation, a rosary and an air freshener were present hanging from the rearview mirror. It could not be confirmed if these items were present at the time of the incident; however, these items would not have appeared to obstruct the driver's view.

The interior of the Nissan was configured with front bucket seats for the first row and a bench seat for the second row. The front seats were equipped height adjustable head restraints. The front left was adjusted to the full-down position and the front right was adjusted to 9 cm (3.5") above the full-down position. The second row contained integrated head restraints for the outboard seats.

The vertical clearance heights of the rear components of the Nissan were measured from the paved surface of the roadway in front of the residence and are listed in the following table:

Component	Clearance Height
Beltline	102 cm (40")
Bottom of bumper	26 cm (10.3")
Top of bumper	57 cm (22.5")
Base of spoiler	104 cm (41")
Top of spoiler	108 cm (42.5")
Muffler	16 cm (6.3")
Tail pipe	19 cm (7.5")
Exhaust pipe (forward of	14 cm (5.5")
muffler)	
Stabilizer link	11 cm (4.3")
Left and right lower	14 cm (5.5")
control arms	
Control arm mounts	19 cm (7.3")
Base of trunk/spare tire	19 cm (7.6")
compartment	

Driver Data

The driver of the Nissan was a 28-year old female with a height of 159 cm (62.5") and a weight of 55 kg (122 lb). The driver does not have any vision deficiencies; however, at the time of the incident, she was wearing non-prescription sunglasses. The driver stated that she had approximately three years of driving experience as an unlicensed driver. She had been licensed in the State of New York since May 19, 2008. She was familiar with the driveway as she enters/exits frequently since this is her personal residence. The driver stated during the interview that all windows were closed and the radio and air conditioner were in the "On" position. The driver did not believe that the radio and air conditioner distracted her. She also noted that she used the rear view mirror while backing. Additionally, the driver did not mention if the items hanging from the rearview mirror where present at the time of the incident. The positions of these components are described in detail in the *Rear Visibility* section of this report.

Non-Motorist Data

The non-motorist was the 3-year-old male son of the driver. The non-motorist measured 100 cm (39.5") in height and weighed 14 kg (30 lbs). At the time of the incident, he was wearing a shirt with blue and white stripes and a diaper. The child has no known sight or hearing impairments. As a result of the incident, the non-motorist sustained multiple soft tissue injuries to the face and extremities and was hospitalized for five days.

Incident Sequence Pre-Incident

Prior to the incident, the driver had been conducting errands away from her residence. During this activity, the non-motorist and his sibling were in the residence under the care of their grandmother. The driver stated that she was returning from conducting errands and approached the front of the residence from the east. Once she reached the driveway, she applied a left steering input and turned the vehicle in a southward direction. This

maneuver positioned the vehicle perpendicular to the roadway and parallel to the driveway. She stopped the vehicle in the roadway and placed the transmission selector in reverse and began a backing trajectory into the driveway. The driver noted that she used the rear view mirror while backing. During this time, the non-motorist exited the residence through the front door, and walked down the driveway and approached the rear of the vehicle. The exact path/walking trajectory of the non-motorist was not known. A sibling of the non-motorist observed him exit the residence through the front door. The sibling exited the residence and began pursing the 3-year-old male.

Incident

The driver backed the Nissan approximately 6 meters (20 feet) and struck the non-motorist at the mouth of the driveway. The sibling ran to the front left door and alerted the driver of the incident. The driver stopped the Nissan, placed the transmission selector in drive and pulled the vehicle forward (south) approximately 0.3-0.6 (1-2 feet). The driver did not detect the nonmotorist in the rear view mirror during the backing maneuver. Figure 4 is of Nissan at the location of the incident.



Figure 4. Nissan at the incident location.

The circumstances of the incident and backing distances were based on the statement provided by the driver to the SCI investigator.

Post-Incident

The driver opened the front left door, exited the vehicle and observed the non-motorist lying on the driveway. She exited the vehicle and attended to the non-motorist. The driver placed the child in the Nissan and transported him to a hospital where he was hospitalized for five days for treatment of multiple soft tissue injuries to the face and extremities.

Police personnel responded to the hospital and documented the incident on a New York State Department of Motor Vehicle Police Accident Report. Additionally, the police department's Crime Scene Investigation unit responded to the incident site and documented the site in the event of criminal proceedings. Criminal charges were not filed against the driver.

Vehicle Contact Damage/Evidence

The SCI investigator inspected the vehicle during the on-site investigation. Due to the passage of time between the incident and the investigation, evidence of contact was not present on the Nissan's rear bumper fascia or undercarriage. Figure 5 is an overall view of the undercarriage components.



Figure 5. Overall view of undercarriage components.

Rear Visibility

During the on-site investigation, a rear visibly study was conducted with the driver positioned in the front left seat of the Nissan. The Nissan was parked against the north curb on level ground to conduct the study. In the seated position, the driver's eye height measured 112 cm (44") from the ground. The SCI investigator asked the driver to sit in the vehicle and place the various components including the seat track in respective positions at the time of



Figure 6. Overall view of targets with driver using the rear view mirror.

the incident. Based of the driver's recreation, the radio was determined to be adjusted between 21 and 23 decibels and the air conditioning was set on high. Additionally, her seat track was located approximately in the mid position of the 24 cm (9.5") seat track.

The rear visibility was measured using an 8 cm (3") diameter reflective red marker that was positioned in a stand and set 71 cm (28") above the ground. The driver stated that she used the rear view mirror at the time incident; therefore, she was asked to locate the reflective marker looking in the rear view. The driver located the target 4.6 meters (15 feet) rear of the rear bumper along the centerline of the vehicle. The driver continued a straight line of sight that intersected the ground at a point that was 14 m (45.9 feet) from the rear bumper. Lateral cones of visibility were established with driver looking into the door mounted mirrors. The left lateral cone of visibility measured 3 meters (9.8 feet) with a right lateral cone of 4.8 meters (15.7 feet). Based on this visibility study, it appeared that the non-motorist entered the blind zone as he approached the vehicle, thus resulting in this back over incident.

Figure 6 is an overall view of the driver locating the target using the rear view mirror. The Rear Visibility Diagram is attached as **Figure 7** of this report. Included as **Attachment A** of this report is the Not In Traffic Surveillance Forms.

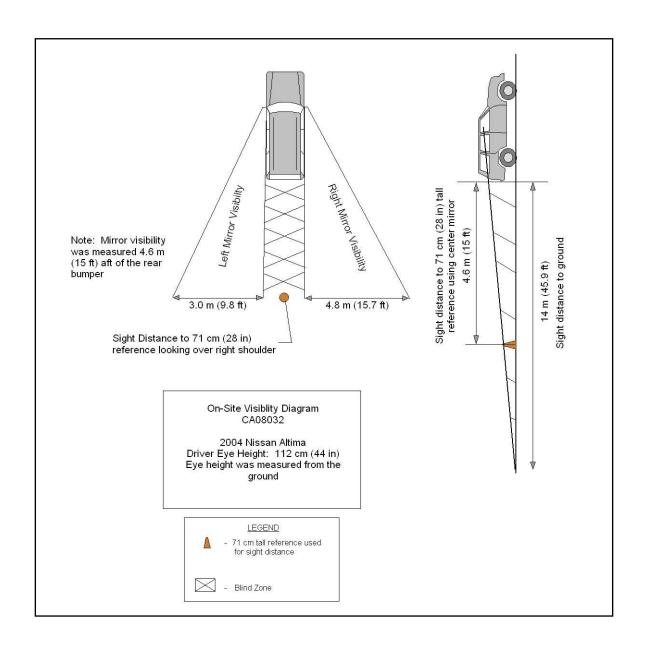


Figure 7: Rear Visibility Diagram

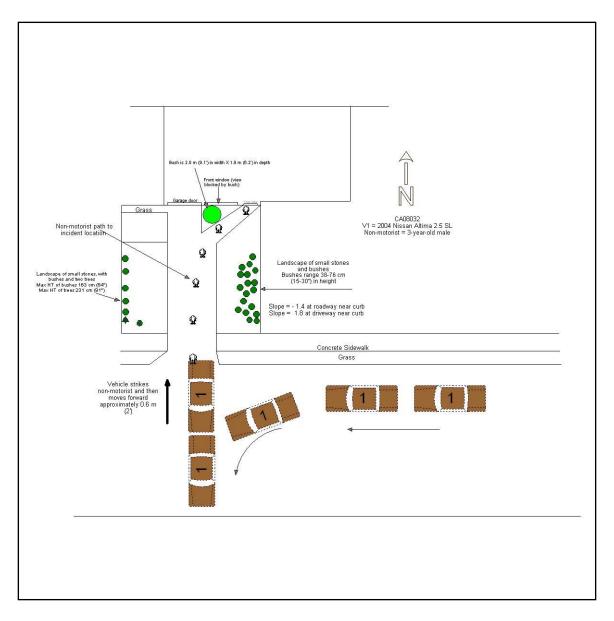


Figure 8: Incident Schematic

Attachment A: Not In Traffic Surveillance Forms

SCENE FORM

4. Coop Niverbox	SCENE INFORMATION
1. Case Number	Type of area in which crash occurred (Select all that apply)
IDENTIFICATION	O Single family residential O Row houses/townhouses
IDENTIFICATION	O Multi family housing
2. Date of Crash //	O Commercial O Industrial
	O Rural
3. Time of Crash	O Unknown
	Driver exterior sightline obstructions (Select all that apply)
Code reported military time of crash.	
NOTE: Midnight = 2400	O None O Utility poles O Other vehicles O Signs
Unknown = 9999	O Building O Glare
AMBIENT CONDITIONS	O Trees O Unknown O Shrubbery O No driver present
AMBIENT CONDITIONS	O Other (specify)
4. Light Conditions	9. Crash location
O Daylight	
O Dark O Dark but lighted	O Driveway O Road / street O Parking Lot O Roadside / shoulder
O Dawn	O Sidewalk O Other (specify)
O Dusk O Unknown	O Alley O Unknown O Intersection of driveway and sidewalk
5. Atmospheric Conditions	Non motorist sightline obstructions
(Select all that apply)	(Select all that apply)
O Clear-No adverse conditions	O None
O Cloudy O Rain	O Other vehicles O Building
O Snow O Fog, Smog, Smoke	O Trees O Shrubbery
O Sleet, Hail (freezing rain or drizzle)	O Utility poles
O Blowing Snow O Severe Crosswinds	O Signs O Glare
O Blowing Sand, Soil, Dirt	O Other (specify)
O Other (specify): O Unknown	O Unknown +/-
	11. Grade at parked position %
6. Temperature	12. Estimated distance from parked position to impact
O Below 0 degrees Celsius (Below 32 F) O 1-10 degrees Celsius (33-50 F)	m
O >10-24 degrees Celsius (51-75 F) O Over 24 degrees Celsius (Over 75 F)	13. Estimated speed at impactm kmph
O Unknown	+/ -
	14. Grade at impact %
	Estimated distance from impact to vehicle final rest
	m
	Unknown = 999 Reference Items 11,12, 13, 14, 15

VEHICLE FORM

1. Case Number					
		VEHICLE IDEN	TIFICATION		
2. VIN	·				
3. Model Ye	ear				
4. Vehicle N	Make (specify	/):			
5. Vehicle N	Model (specif	y):			_
		GLAZI	NG		
Location	Presence (check)	Status (select)	Clarity (select)	Tint (check)	Glazing Obstructions (specify if present)
Windshield		Fixed / Closed / Open / Partially Open / Unknown	Clear / Hazy / Very Dirty / Unknown		
LF		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
RF		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
2 nd Left		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
2 nd Right		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
3 rd Left		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
3 rd Right		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
Backlight		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
Left Backlight		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
Right Backlight		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
Roof		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
Other (specify)		Fixed / Closed / Open / Partially Open	Clear / Hazy / Very Dirty		
		TIRE D	ATA		
6. Vehicle	Manufactu	irer Recommended Tire Size _			
7. LF Tire	Size	9.	RF Tire Size		
8. LR Tire Size 10. RR Tire Size					

	Seats / Head Restraint Data					
Seat Position	Seat Type (Select from below)	Head Restraint (Check if available)	Head Restraint Adjustment (select)	NOTES:		
Front Left			Full Down / Mid / Full Up			
Front Middle			Full Down / Mid / Full Up			
Front Right			Full Down / Mid / Full Up			
2 nd Left			Full Down / Mid / Full Up			
2 nd Middle			Full Down / Mid / Full Up			
2 nd Right			Full Down / Mid / Full Up			
3 rd Left			Full Down / Mid / Full Up			
3 rd Middle			Full Down / Mid / Full Up			
3 rd Right			Full Down / Mid / Full Up			

Seat Type codes:

- 0 = No seat or seat folded down
- 1 = Bucket
- 2 = Bucket w/ folding back
- 3 = Bench
- 4 = Bench with folding back cushions
- 5 = Bench w/ folding back
- 6 = Split bench w/ separate back cushions
- 7 = Split bench w/ separate folding back
- 8 = Pedestal (i.e. column supported)
- 9 = Box mounted (i.e. van type)
- 10= Other seat type (specify)
- 99= Unknown seat type

VEHICLE MEASUREMENTS					
Clearance Heights	Measurements (all from ground, and in centimeters	NOTES			
Beltline					
Top of trunk/tailgate					
Bottom of bumper					
Trailer hitch (if applicable)					
Undercarriage					
Sway bar					
Axle					
Differential					
Other (specify):					
Sensor Height (if equipped)					
Camera Height (if equipped)					

Back Up / Parking Aid Form

1. Case Number	Video image quality under scene lighting conditions
PARKING AID PRESENCE 2. Type of backing/parking aid present	O None present O Good O Average O Poor (specify): O Unknown
O OEM camera O OEM ultrasonic/radar sensor O OEM combination camera-ultrasonic/radar sensor O OEM Fresnel lens O OEM interior mirrors O Aftermarket camera O Aftermarket ultrasonic/radar sensor O Aftermarket combination camera-ultrasonic radar sensor O Aftermarket Fresnel lens O Aftermarket interior mirrors O Other (specify):	8. Was the camera functioning properly O None present O Yes O No, poor image quality due to glare O No, poor image quality due to atmospheric conditions O No, camera turned off O No, camera inoperable O Unknown ULTRASONIC/RADAR SENSOR Specify object detection range on diagram
CAMERA INFORMATION	System make/model
Specify field of view measurements on diagram	
3. System make/model 4. Video monitor type O None present O LCD (color) O CRT (black & white) O Unknown 5. Video display size cm (Diagonal) 6. Camera location O None present O Bumper O License plate O Trilleto (Latab Trunk	10. Auditory warning illumination O No sensor present O Yes O No O Unknown 11. Number of sensors 12. Sensor locations (Select all that apply) O No sensor present O Left bumper O Center bumper O Right bumper O License plate area O Tailgate/Hatch/Trunk
O Tailgate/Hatch/Trunk O Other (specify):	13. Was warning system functioning properly O No sensor present O Yes, system alerted driver O No, system did not alert driver O No, system turned off O No, system inoperable O Unknown

Spe	ecial Crash Investigations – Not In Traf	fic Surveillanc	e:	Back Up / Parking Ai	d Form	Page 2
14.	Did driver react to warning					
	O No sensor present O Yes O No O Unknown					
15.	Did driver report common false warnings	3				
	O No sensor present O Yes O No O Unknown					

DRIVER FORM

National Flightway Trainic Carety Nathinistration	- Trottin traine darvemanee
1. Case Number	10. Driver entry interruption (Select all that apply)
DRIVER PROFILE 2. Driver's Age 99 = Unknown 3. Driver's Sex O Male O Female O Unknown	O Direct trip from building to vehicle O Loaded items into vehicle O Spoke with family O Spoke with neighbors O Spoke with contacted nonmotorist O Return trip (backing into driveway/lot) O Other (specify): O N/A Unknown
4. Driver's Height cm 999 = Unknown	11. Purpose of backing
5. Driver's Weight kg 999 = Unknown	O Leaving parking space in parking lot O Backing onto roadway from driveway O Entering parking space in parking lot O Backing into driveway from roadway O Other (specify):
6. Driver eyewear worn (Select all that apply) O None O Eyeglasses O Sunglasses O Contacts O Unknown	O N/A Unknown 12. Where was driver going Description:
7. Driver vision deficiency condition (Select all that apply) O None O Near sighted O Far sighted O Astigmatism O Other (specify) O Unknown	13. Driver in a hurry O Yes N/A O No Unknown O Unknown 14. How did driver check behind (rear area of vehicle)
8. Non motorist's relationship to driver O No relationship O Child O Grandchild O Sibling O Neighbor O Friend O Other (specify): O Unknown DRIVER ACTIONS	after vehicle entry (Select all that apply) O Did not look O Checked mirrors O Turned right and looked back O Turned left and looked back Viewed Camera Listened for auditory/visual warning from system
9. Driver approach to vehicle for entry From left front O From left O From left rear O From right rear	O Other (specify): N/A Unknown 15. Estimated time between vehicle entry and start
O From right rear O From right front O Circled vehicle O Return trip (backing into driveway/lot) O Other (specify): O N/A O Unknown	O 0-10 Seconds O 11-30 Seconds O 31-60 Seconds Unknown

16.	What direction was the driver looking during backing maneuver	19.	Did driver see struck non motorist prior to impact (Select all that apply)
	(Select all that apply) O Straight ahead O Right O Left O Rearward		O No, never saw non motorist O Saw non motorist prior to entering vehicle O Saw non motorist after entering vehicle O Other (specify): O N/A Unknown
	O At object inside the car O At mirrors	20.	Est time between start of backing and impact
17.	O Other (specify):O N/A Unknown Was the driver distracted during back up maneuver (Select all that apply)		O <2 or = 1 second O 2-5 seconds O 6-10 seconds O > 10 seconds O N/A Unknown
	O No non-driving activities External	21.	Driver interior sightline obstructions (Select all that apply)
	O Looking at other vehicles O Looking at other non motorist O Looking at intended turn destination O External focus, not specified		O Pillar O Other occupant O Headrest O Other (specify) O Cargo O Unknown None
	O Other external focus (specify): Internal	22.	Recent experience driving this vehicle
	 O Looking at other occupant O Talking to passenger O Dialing phone O Talking on phone O Listening to radio/cd/portable playback device O Adjusting radio/cd player O Adjusting climate controls O Using a device/controls integral to vehicle 	23.	O More than 10 times the last three months O 6-10 times the last three months O 2-5 times the last three months O Less than 2 times the last three months O First time driving this vehicle O N/A Unknown Frequency of driving in this parking lot/driveway
	(specify): O Reading/adjusting navigation system O Eating or drinking O Smoking related O Retrieving fallen object (specify): O Internal focus, not specified O Focused on other internal object		O Daily O Weekly O Several times a month O Monthly O Rarely O First time in lot/driveway O N/A Unknown
	(specify): O N/A Unknown	24.	Driver Impairment (Select all that apply)
18.	Driver avoidance actions prior to impact (Select all that apply) O None O Braking		O No drugs or alcohol present O Alcohol present (specify BAC): O Drugs present (specify): O Unknown
	O Steering left O Steering right	25.	Source of alcohol/drug results
	O Accelerating O Other (specify): O N/A Unknown		O Police reported O Medical record O Other (specify) O Not Tested Unknown if tested

Non Motorist Form

1. Case Number	11. Non-motorist motion
NON-MOTORIST PROFILE 2. Non-motorist's Age Months 99 = Unknown	O Skipping/Hopping/Jumping O Falling/Stumbling/Rising
3. Non-motorist's Sex O Male O Female O Unknown	O On skates/skateboard O On bike/scooter O Other (specify): O Unknown
4. Non-motorist's Height cm 999 = Unknown	12. Non-motorist approach relative to rear of vehicle
5. Non-motorist's Weight kg 999 = Unknown 6. Medical outcome	O Stationary O From left O From right O From behind O Other (specify):
O Not injured O ER only O Hospitalized 1-4 days O Hospitalized 5 days or more O Treatment later O Fatal O Unknown	O Unknown 13. Non-motorist first avoidance action O No avoidance actions O Stopped O Accelerated pace O Ran away (along vehicle path)
7. Source of most severe injury Bumper O Tire O Undercarriage O Other Specify: O Ground	O Jumped O Turned away from vehicle O Turned toward vehicle and braced O Dove or fell away from vehicle O Other (specify): O Unknown
O N/A Unknown 8. Non-motorist impairment (Select all that apply) O No drugs or alcohol present O Positive for alcohol (specify BAC): O Positive for drugs (specify): O Unknown	O Striking vehicle O Play object O Person O Surrounding traffic O Animal O Handheld electronic (phone, MP3 player, etc.)
9. Source of alcohol/drug results Police reported Medical Report O Other (specify) O Not Tested O Unknown if tested	O Other Object (specify) O Unknown 15. Were any other Non-motorists present? (Select all that apply) O Alone
NON-MOTORIST ACTIONS	O One adult present O One other child present
10. Non-motorist attitude	O Multiple adults present O Multiple children present O Unknown
O Standing O On skates/skateboard O Bending at waist O On bike/scooter O Sitting O Other (specify) O Crouching O Unknown O Kneeling	

NON MOTORIST CLOTHING

NOTES:

White

• Specify Color, Fabric and Texture/Weight for outermost layer only

Other (specify)

- Indicate "NONE" if applicable
- Available codes:

<u>Colors</u>		<u>Fabrics</u>	<u>Textures</u>	<u>Weights</u>
Black	Charcoal gray	Natural	Soft	Heavy
Lt gray/silver	Brown	Synthetic	Slick	Medium
Gold/tan	Purple	Blend	Coarse	Light
Dark blue	Light blue			-
Dark green	Light green			
Maroon	Red			
Orange	Yellow			

	Clothing	Color	Fabric	Texture	Weight
H E A	Hat				
	Helmet				
D W	Hood				
E A R	Other (specify):				
U	Short Sleeve				
P P	Long Sleeve				
E R	Light Jacket				
В	Heavy Jacket				
O D	Other (Specify):				
Y					
L O	Shorts				
W	Pants				
E R	Shoes				
В О	Other (specify):				
D Y	_				