

<b>Agency:</b>	Phoenix		<b>Title of Project:</b>	32nd St/Oak St Signal and Lighting Improvements		
<b>Date:</b>	11/4/2019					
<b>Contact Name and Title:</b>		<b>Phone:</b>		<b>E-Mail:</b>		
Carl Langford		602-262-4613		Carl.langford@phoenix.gov		
<b>Roadway Safety Program (RSP) Project Scope</b>						
<b>1.</b>	<b>Describe your safety improvement project in detail: (50 words or less)</b>					
<b>1a.</b>	The project will upgrade all existing signals as part of a complete intersection rebuild at Oak Street and 32nd Street. First countermeasure uses CMF 1430, Improve visibility of signal heads. Second countermeasure is a flashing yellow arrow installation CMF 7695 for all crashes. Third CMF 441 Intersection Illumination.					
<b>2.</b>	<b>Describe the project location, include pertinent demographic and land development information:</b>					
<b>2a.</b>	Intersection of 32nd Street and Oak Street.					
<b>3</b>	<b>For projects on State System:</b>	<b>BMP: (Begin Milepost)</b>		<b>EMP: (End Milepost)</b>		
<b>4.</b>	<b>What network screening method was used to identify this project?</b>			<input type="checkbox"/> MAG	<input type="checkbox"/> ADOT	<input checked="" type="checkbox"/> Other (Below)
<b>4a</b>	City of Phoenix					
<b>5.</b>	<b>Was this project identified as a recommendation in a study? If so, what kind? (check all that apply)</b>					
<b>5a</b>	<input checked="" type="checkbox"/> RSA <input type="checkbox"/> PA <input type="checkbox"/> SRTS Study <input type="checkbox"/> LASS Study <input type="checkbox"/> Other					
<b>6.</b>	<b>Was the project identified using an agency adopted predictive safety analysis?</b>			<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
<b>7.</b>	<b>What is the safety justification for the proposed project?</b>					
<b>7a</b>	The intent of the additional signal heads and larger signal heads is to provide greater visibility and compliance to the traffic signal. The MUTCD Chapter aD.11 states on approaches with two or more lanes for the through movement, one signal face per through lane, centered over each through lane has also been shown to provide safer operation. The additional lighting at the intersection is intended to improve the visibility of bicyclists and pedestrians.					
<b>8.</b>	<b>Is Public outreach required for your project? If "yes" Provide what was done, the date(s) and outcomes. (Attach documentation if applicable)</b>					
<b>8a</b>	No public outreach is required for this project.					
<b>9.</b>	<b>What safety related public education will your agency be providing before placing the safety improvement in service, if applicable?</b>					
<b>9a</b>	There will be no safety related public education for this project.					
<b>10.</b>	<b>Equity: Input the largest percent for each element for the one-mile radius or offset (Click on the hyperlinks in the text to open maps. See directions on side on maps):</b>					
	<a href="#">65 yrs and Older</a>	<a href="#">Minority Groups</a>	<a href="#">No Vehicle Households</a>	<a href="#">Disabled</a>	<a href="#">Living in Poverty</a>	
<b>10a</b>	22	26	69	20	60	
<b>11.</b>	<b>Avg Daily Traffic (ADT) Volume:</b>		40426	<b>Year Collected:</b>		2015
<b>12.</b>	<b>Total Crash Frequency:</b>		56	<b>Crash Rate (MVM or MEV):</b>		0.8/MEV
<b>13.</b>	<b>What is the posted speed limit?</b>		40	<b>Benefit/Cost:</b>		7.5

## PROJECT COST ESTIMATE WORKSHEET

(Cost Estimates Are Required Regardless of Programming)

	REQUESTED PROGRAMMING (Complete if Item will be programmed in the MAG TIP)	Location Description	Intersection at 32nd St and Oak St				
		Work Description	Signal Rebuild and Lighting Improvements				
		Funding Source	Local				
		Preferred Year to Program Work	2020			\$ -	
COST ESTIMATE FOR DESIGN			UNITS	QUANTITY	UNIT COST	TOTAL	
<b>DESIGN</b>	<b>PRELIMINARY ENGINEERING (15% plans) (Required for Budget)</b>	Topographic Survey	LS	0		\$ -	
		Design Concept Report (DCR)	LS	0		\$ -	
		Federal Project Environmental Determination	LS	0		\$ -	
		HAZMAT Assessment	LS	0		\$ -	
		<b>SUBTOTAL - PRELIMINARY ENGINEERING COSTS</b>					<b>\$ -</b>
	<b>FINAL DESIGN (30, 60, 95, 100% plans) (Required for Budget)</b>	Plans, Specifications, Cost Estimates, Bidding	LS	1	45,000.00	\$ 45,000.00	
		Geotechnical Report	LS	1		\$ -	
		Drainage Report	LS	0		\$ -	
		SWPPP	LS	0		\$ -	
		<b>SUBTOTAL - FINAL DESIGN COSTS</b>					<b>\$ 45,000.00</b>
	<b>TOTAL PRELIMINARY ENGINEERING AND DESIGN COST AVAILABLE FOR PROGRAMMING</b>						<b>\$ 45,000.00</b>
	<b>CONSTRUCTION</b>	<b>REQUESTED PROGRAMMING (Complete only if Construction will be programmed in the MAG TIP)</b>	Location Description	Intersection at 32nd St and Oak St			
			Work Description	Signal Rebuild and Lighting Improvements			
	Funding Source		RSP				
	Preferred Year to Program Work		2021				
COST ESTIMATE FOR CONSTRUCTION			UNITS	QUANTITY	UNIT COST	TOTAL	
<b>UTILITY RELOCATIONS (Required for Budget, May be 0 if no Utilities)</b>	The cost of minor utility relocation for the safety improvement project are eligible if the costs/activities involved are directly related to the safety project. Generally, burying overhead utilities is cost prohibitive	Relocate 69 kv (+) Poles	EA	0		\$ -	
		Relocate/Underground 12 kv lines	LF	0		\$ -	
		Relocate/Underground Irrigation Canal	LF	0		\$ -	
		SWG Relocations	LS	0		\$ -	
		Telephone/Cable TV Relocations	LS	0		\$ -	
		Upgrade Railroad Crossings	LS	0		\$ -	
		Power SRP	LS	1	4,500.00	\$ 4,500.00	
		Under Ground conduit	LS	1	75,218.09	\$ 75,218.09	
		<b>SUBTOTAL - UTILITY RELOCATION COSTS</b>					<b>\$ 79,718.09</b>
		<b>CONSTRUCTION (Required for Budget)</b>	Inspection	LS	20	162.00	\$ 3,240.00
Temporary Traffic Control (Barricades)	LS		1	2,500.00	\$ 2,500.00		
Dress All Poles	EA		8	1,296.00	\$ 10,368.00		
Install Controller Cabinet	EA		1	1,296.00	\$ 1,296.00		
Install Field Wire	HR		80	162.00	\$ 12,960.00		
Grouting	LS		1	972.00	\$ 972.00		
Existing Equipment Removal	LS		1	10,368.00	\$ 10,368.00		
Technical Labor	HR		25	162.00	\$ 4,050.00		
LM-Pole-5ft riser	EA		3	353.13	\$ 1,059.39		
LM-Pole w/ 20ft riser	EA		1	1,359.00	\$ 1,359.00		
SM-Pole-25ft thru 35ft Mast Arm	EA		2	2,904.71	\$ 5,809.42		
SR-Pole-40ft thru 50ft Mast Arm	SY		2	4,401.00	\$ 8,802.00		
Observation Camera	EA		1	2,183.44	\$ 2,183.44		
Luminaire Head w/ Photo Cell & Lamp	EA		8	425.00	\$ 3,400.00		
12" 3 Section Head w/ Riser (Type F1)	EA		10	356.00	\$ 3,560.00		
12" 3 Section Head (Type F)	EA		6	229.40	\$ 1,376.40		
12" 4 Section Head Flashing Yellow Arrow (Type FA)	EA		2	385.05	\$ 770.10		
12" 4 Section Head Flashing Yellow w/ Riser (Type FA1)	SF		2	558.05	\$ 1,116.10		
Type "B" Power Service Pedestal w/ Battery Back Up	SF		1	6,486.68	\$ 6,486.68		

**PROJECT COST ESTIMATE WORKSHEET**  
**(Cost Estimates Are Required Regardless of Programming)**

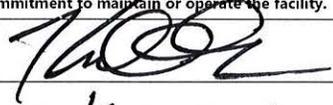
		Audible Push Button	EA	8	600.00	\$	4,800.00	
		Pedestrian Mounting Arms (Pair)	EA	12	57.20	\$	686.40	
		Pedestrian Head	EA	8	218.36	\$	1,746.88	
		Illuminated Street Name Signs	EA	4	3,500.00	\$	14,000.00	
		EVP Equipment	EA	4	2,200.00	\$	8,800.00	
		Video Detection	EA	4	5,700.46	\$	22,801.84	
		#10 THHN Wire	LF	620	0.21	\$	130.20	
		#10 Bond Wire	LF	1,230	0.23	\$	282.90	
		Service Wire	LF	120	0.44	\$	52.80	
		Astro Brackets	EA	8	100.00	\$	800.00	
		#3 Conductor IMSA Cable	LF	1,012	0.33	\$	333.96	
		#5 Conductor IMSA Cable	LF	920	0.56	\$	515.20	
		#25 Conductor IMSA Cable	LF	120	2.60	\$	312.00	
		#42 Conductor IMSA Cable	LF	360	5.38	\$	1,936.80	
		Wireless Radios & Wire Phase Controller	EA	1	5,361.45	\$	5,361.45	
		Phase Controller	EA	1	26,000.00	\$	26,000.00	
		<b>SUBTOTAL - CONSTRUCTION COST</b>					\$	<b>249,955.05</b>
	<b>MOBILIZATION AND ADMINISTRATION COSTS</b>	<b>CONTRACTOR MOBILIZATION (Typically 8% of construction cost)</b>			<b>8%</b>	\$	<b>19,996.40</b>	
		<b>TRAFFIC CONTROL (0-8% of construction cost)</b>			<b>5%</b>	\$	<b>12,497.75</b>	
		<b>CONSTRUCTION CONTINGENCIES (Typically 5% of construction cost)</b>			<b>5%</b>	\$	<b>12,497.75</b>	
		<b>CONSTRUCTION ADMINISTRATION (Averaging 18% of construction cost)</b>			<b>15%</b>	\$	<b>37,493.26</b>	
		<b>SUBTOTAL - MOBILIZATION &amp; ADMINISTRATION COSTS</b>					\$	<b>82,485.17</b>
	<b>TOTAL UTILITIES, CONSTRUCTION AND MOBILIZATION FOR PROGRAMMING</b>						\$	<b>412,158.31</b>
<b>TOTAL COST ESTIMATE</b>							\$	<b>457,158</b>

**Budget and Signature Page**

<p><b>Please describe the agency programming of this project in the agency's CIP</b></p>	<p>Funds are available in our CIP, once award is determined we will submit for formal project funds.</p>				
Phase	Location Description	Work Description	Year to be Programmed	Funding Source	Amount
Design	Intersection at 32nd St and Oak St	Signal Rebuild and Lighting Improvements	2020	Local	\$ 45,000.00
Construction	Intersection at 32nd St and Oak St	Signal Rebuild and Lighting Improvements	2021	RSP	\$ 412,158.31
<b>Total Cost</b>					\$ 457,158

**Signature: To be signed with printed hard copy that is sent to MAG**

As the jurisdiction's manager/administrator or designated representative, I certify that the information contained in this application is accurate and complete and that the local funds for this project will be included in the Lead Agency's local current CIP/TIP or budget document if the project is selected for MAG Roadway Safety Program funding. I also certify the Lead Agency's commitment to maintain or operate the facility.

Signature: 

Name: KINI KNUSON

Title: DIRECTOR OF STREET TRANSPORTATION

Date: 11/6/2019

## RSP Application Benefit-Cost Tabulation Sheet

<b>Agency:</b>	Phoenix	<b>Title of Project:</b>	32nd St/Oak St Signal and Lighting Improvements		
Annual Benefit Tabulation					
Severity	Annual Average	Estimated CRF* Reduction	Total Reduction	Unit Cost	Annual Benefit
Fatal	0.20	16%	0.03	\$9,515,371	\$294,977
Incapacitating Injury	0.40	16%	0.06	\$550,499	\$35,232
Non-Incapacitating	1.20	16%	0.19	\$149,132	\$28,633
Possible Injury	2.20	16%	0.35	\$103,145	\$36,307
Total Annual Benefits					\$395,149
Costs					
Total Project Cost					\$457,158
Project Life (years)					20
Interest Rate (%)					8%
Capital Recovery Factor					0.1019
Annual Construction Cost					\$46,563
Annual Maintenance Cost					\$5,800.00
Total Annual Costs					\$52,363
Benefit / Cost					
Annual Benefit	Annual cost			Benefit / Cost Ratio	
\$395,149	\$52,363			7.5	
<b>List CMF(s) Used in the field below and its associated countermeasure(s)</b>					
<p>CMF 441: Intersection Illumination, CMF 7697: Change 5-section "doghouse" protected/permissive left turn to FYA protected/permissive left turn, CMF 7695: Change 5-section "doghouse" protected/permissive left turn to FYA protected/permissive left turn.</p>					

Phoenix 32nd St/Oak St Signal and Lighting Improvements RSP App V1_2019																										
Incident ID	Incident Date & Time	Incident On Road	Incident Crossing Feature	Incident Offset	Incident Injury Severity Description	Incident First Harmful Description	Incident Collision Manner Desc	Incident Light Condition Desc	Incident Weather Desc	Incident Intersection Type Desc	Incident Junction Relation Desc	Incident Traffic Way Type Desc	Unit Travel Direction Desc	Unit Action Desc	Unit Road Condition Desc1	Unit Surface Condition Desc1	Unit Env Condition Desc1	Unit Defect Desc1	Unit Number	Unit Event Sequence Desc1	Person Type Desc	Person Safety Device Desc	Person Violation Desc1			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	25	26	27			
2810135	2/20/2014 12:00:00 AM	32nd St	Oak St	0	1-None	Motor Vehicle	Left Turn	Twilight	Clear	Four-Way Intersection	Intersection Within Non-Controlled	Two-Way NOT Divided (continuous left turn lane)	1 - NORTH	Going Straight Ahead	No Data	DRY	STOPPED_PARKED_VEHICLE	No Data	1	No Data	Driver	Shoulder Lap Belt	Disregarded Signal			
2812321	3/3/2014 12:00:00 AM	Oak St	32nd St	58	1-None	Motor Vehicle	Backing	Light	Clear	Four-Way Intersection	Intersection Related Non-Controlled	Two-Way Divided (unprotected median)	4 - WEST	BACKING	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	No Data	Driver	Shoulder Lap Belt	Other			
2839602	5/18/2014 12:00:00 AM	32nd St	Oak St	0	1-None	Motor Vehicle	Angle	Light	Clear	Four-Way Intersection	Intersection Related Non-Controlled	Two-Way NOT Divided (continuous left turn lane)	4 - WEST	Making Left Turn	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	No Data	Driver	Shoulder Lap Belt	Unknown			
2845338	6/18/2014 12:00:00 AM	32nd St	Oak St	144	4-Serious	Motor Vehicle	Rear End	Light	Clear	Four-Way Intersection	Intersection Related Non-Controlled	Two-Way Divided (unprotected median)	2 - SOUTH	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	No Data	Driver	Shoulder Lap Belt	Speed Too Fast			
2850479	7/3/2014 12:00:00 AM	Oak St	32nd St	0	1-None	Motor Vehicle	Angle	Dark	Blowing Sand, Soil, Dirt	Four-Way Intersection	Intersection Within Non-Controlled	Two-Way Divided (unprotected median)	2 - SOUTH	Going Straight Ahead	OTHER	DRY	OTHER	OTHER	1	No Data	Driver	Shoulder Lap Belt	Unknown			
2860893	7/29/2014 12:00:00 AM	32nd St	Oak St	0	3-Minor	Motor Vehicle	Left Turn	Light	Clear	Four-Way Intersection	Intersection Within Non-Controlled	Two-Way NOT Divided (no median)	8 - SOUTHEAST	Making Left Turn	UNKNOWN	DRY	UNKNOWN	UNKNOWN	1	No Data	Driver	Shoulder Lap Belt	Failed to Yield			
2907740	9/16/2014 12:00:00 AM	32nd St	Oak St	0	1-None	Motor Vehicle	Left Turn	Light	Clear	Four-Way Intersection	Intersection Within Non-Controlled	Unknown	8 - SOUTHEAST	Making Left Turn	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Shoulder Lap Belt	Failed to Yield			
2878660	9/24/2014 12:00:00 AM	32nd St	Oak St	55	1-None	Motor Vehicle	Rear End	Light	Clear	Not Reported	Not Junction Related	Two-Way Divided (unprotected median)	1 - NORTH	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	No Data	Driver	Shoulder Lap Belt	Speed Too Fast			
2879002	10/6/2014 12:00:00 AM	Oak St	32nd St	0	1-None	Motor Vehicle	Angle	Light	Clear	Four-Way Intersection	Intersection Related Non-Controlled	Two-Way NOT Divided (continuous left turn lane)	6 - NORTHEAST	Crossing Road	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	No Data	Driver	Shoulder Lap Belt	Failed to Yield			
2938112	12/30/2014 12:00:00 AM	32nd St	Oak St	101	3-Minor	Motor Vehicle	Rear End	Dark	Cloudy	Four-Way Intersection	Intersection Related Non-Controlled	Two-Way NOT Divided (continuous left turn lane)	2 - SOUTH	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Unknown	Inattention			
2928920	3/6/2015 12:00:00 AM	Oak St	32nd St	0	1-None	Motor Vehicle	Left Turn	Light	Clear	Four-Way Intersection	Intersection Within Non-Controlled	Two-Way Divided (unprotected median)	3 - EAST	Making Left Turn	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	No Data	Driver	Shoulder Lap Belt	Failed to Yield			
2931214	3/12/2015 12:00:00 AM	32nd St	Oak St	125	1-None	Motor Vehicle	Rear End	Light	Cloudy	Four-Way Intersection	Intersection Related Non-Controlled	Two-Way NOT Divided (no median)	2 - SOUTH	Going Straight Ahead	UNKNOWN	DRY	UNKNOWN	UNKNOWN	1	No Data	Driver	Unknown	Unknown			
2953840	3/20/2015 12:00:00 AM	32nd St	Oak St	0	2-Possible	Motor Vehicle	Angle	Light	Clear	Four-Way Intersection	Intersection Within Non-Controlled	Two-Way NOT Divided (no median)	4 - WEST	Going Straight Ahead	UNKNOWN	DRY	UNKNOWN	UNKNOWN	1	No Data	Driver	Shoulder Lap Belt	Unknown			
2972895	5/21/2015 12:00:00 AM	32nd St	Oak St	60	1-None	Motor Vehicle	Sideswipe	Dark	Clear	Not Reported	Not Junction Related	Two-Way Divided (unprotected median)	2 - SOUTH	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	No Data	Driver	Shoulder Lap Belt	Unsafe Lane Change			
2981427	8/6/2015 12:00:00 AM	32nd St	Oak St	120	2-Possible	Bicyclist	Bike	Dusk	Clear	Not Reported	Not Junction Related	Two-Way Divided (unprotected median)	1 - NORTH	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	No Data	Bicyclist	Unknown	Traveling in Opposing Lane			
2996705	9/28/2015 12:00:00 AM	32nd St	Oak St	36	1-None	Motor Vehicle	Rear End	Dark	Clear	Four-Way Intersection	Intersection Within Non-Controlled	Two-Way Divided (unprotected median)	2 - SOUTH	Going Straight Ahead	UNKNOWN	DRY	UNKNOWN	UNKNOWN	1	No Data	Driver	Unknown	Speed Too Fast			
2996176	9/29/2015 12:00:00 AM	32nd St	Oak St	50	2-Possible	Motor Vehicle	Sideswipe	Light	Clear	Four-Way Intersection	Intersection Within Non-Controlled	Two-Way NOT Divided (continuous left turn lane)	2 - SOUTH	Making Right Turn	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	No Data	Driver	Shoulder Lap Belt	Improper Turn			
3001197	10/15/2015 12:00:00 AM	32nd St	Oak St	0	2-Possible	Motor Vehicle	Left Turn	Light	Clear	Four-Way Intersection	Intersection Within Non-Controlled	Two-Way Divided (unprotected median)	1 - NORTH	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	No Data	Driver	Shoulder Lap Belt	Disregarded Signal			
3015503	11/5/2015 12:00:00 AM	Oak St	32nd St	0	2-Possible	Motor Vehicle	Angle	Light	Clear	Four-Way Intersection	Intersection Related Controlled	Two-Way NOT Divided (no median)	3 - EAST	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Air Bag	Disregarded Signal			
3016211	11/20/2015 12:00:00 AM	32nd St	Oak St	0	1-None	Motor Vehicle	Left Turn	Dusk	Clear	Four-Way Intersection	Intersection Related Controlled	Two-Way Divided (unprotected median)	5 - NORTHWEST	Making Left Turn	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Shoulder Lap Belt	Failed to Yield			
3053902	11/20/2015 12:00:00 AM	32nd St	Oak St	0	5-Fatal	Motor Vehicle	Left Turn	Dark	Unknown	Four-Way Intersection	Intersection Within Non-Controlled	Unknown	2 - SOUTH	Making Left Turn	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Shoulder Lap Belt	Failed to Yield			
3018247	11/30/2015 12:00:00 AM	32nd St	Oak St	30	1-None	Motor Vehicle	Sideswipe	Dusk	Clear	Not Reported	Not Junction Related	Two-Way NOT Divided (continuous left turn lane)	1 - NORTH	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Shoulder Lap Belt	Failed to Yield			
3033704	12/29/2015 12:00:00 AM	Oak St	32nd St	-130	1-None	Motor Vehicle	Rear End	Light	Clear	Four-Way Intersection	Intersection Related Non-Controlled	Two-Way NOT Divided (no median)	3 - EAST	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	No Data	Driver	Shoulder Lap Belt	Failed to Yield			
3044947	1/24/2016 12:00:00 AM	32nd St	Oak St	140	1-None	Motor Vehicle	Left Turn	Dark	Clear	Not Reported	Not Junction Related	Two-Way NOT Divided (continuous left turn lane)	2 - SOUTH	Making Left Turn	UNKNOWN	DRY	UNKNOWN	UNKNOWN	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Shoulder Lap Belt	Failed to Yield			
3041105	1/26/2016 12:00:00 AM	32nd St	Oak St	0	1-None	Motor Vehicle	Rear End	Light	Clear	Not Reported	Not Junction Related	Two-Way Divided (unprotected median)	1 - NORTH	Going Straight Ahead	No Data	DRY	MOVING_VEHICLE	No Data	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Shoulder Lap Belt	Speed Too Fast			
3044955	2/2/2016 12:00:00 AM	Oak St	32nd St	0	3-Minor	Motor Vehicle	Left Turn	Light	Clear	Four-Way Intersection	Intersection Within Controlled	Two-Way NOT Divided (no median)	1 - NORTH	Making Left Turn	UNKNOWN	DRY	UNKNOWN	UNKNOWN	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Shoulder Lap Belt	Failed to Yield			
3053003	2/24/2016 12:00:00 AM	Oak St	32nd St	0	2-Possible	Motor Vehicle	Left Turn	Light	Clear	T-Intersection	Intersection Within Controlled	Two-Way Divided (unprotected median)	Not Reported	Going Straight Ahead	UNKNOWN	DRY	UNKNOWN	UNKNOWN	1	No Data	Driver	Unknown	Disregarded Signal			
3062120	3/18/2016 12:00:00 AM	32nd St	Oak St	0	2-Possible	Motor Vehicle	Left Turn	Dark	Clear	Not Reported	Not Junction Related	Two-Way NOT Divided (continuous left turn lane)	5 - NORTHWEST	Making Left Turn	UNKNOWN	DRY	UNKNOWN	UNKNOWN	1	No Data	Driver	Unknown	Unknown			
3069990	3/31/2016 12:00:00 AM	Oak St	32nd St	50	1-None	Motor Vehicle	Rear End	Light	Clear	Not Reported	Not Junction Related	Two-Way NOT Divided (no median)	3 - EAST	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Shoulder Lap Belt	Followed Too Close			
3082301	4/29/2016 12:00:00 AM	Oak St	32nd St	102	1-None	Motor Vehicle	Angle	Light	Clear	Four-Way Intersection	Intersection Related Non-Controlled	Two-Way NOT Divided (no median)	1 - NORTH	Making Right Turn	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Shoulder Lap Belt	Failed to Yield			

Phoenix 32nd St/Oak St Signal and Lighting Improvements RSP App V1_2019																										
Incident ID	Incident Date & Time	Incident On Road	Incident Crossing Feature	Incident Offset	Incident Injury Severity Description	Incident First Harmful Description	Incident Collision Manner Desc	Incident Light Condition Desc	Incident Weather Desc	Incident Intersection Type Desc	Incident Junction Relation Desc	Incident Traffic Way Type Desc	Unit Travel Direction Desc	Unit Action Desc	Unit Road Condition Desc1	Unit Surface Condition Desc1	Unit Env Condition Desc1	Unit Defect Desc1	Unit Number	Unit Event Sequence Desc1	Person Type Desc	Person Safety Device Desc	Person Violation Desc1			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	25	26	27			
3082302	4/29/2016 12:00:00 AM	32nd St	Oak St	105	1-None	Motor Vehicle	Rear End	Light	Clear	Four-Way Intersection	Intersection Related Non-Controlled	Two-Way NOT Divided (no median)	1 - NORTH	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Lap Belt Air Bag	Speed Too Fast			
3106663	7/6/2016 12:00:00 AM	Oak St	32nd St	0	2-Possible	Motor Vehicle	Angle	Light	Clear	Four-Way Intersection	Intersection Within Non-Controlled	Two-Way NOT Divided (no median)	1 - NORTH	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Lap Belt Air Bag	Disregarded Signal			
3110787	7/25/2016 12:00:00 AM	32nd St	Oak St	-50	2-Possible	Motor Vehicle	Sideswipe	Dark	Clear	Four-Way Intersection	Intersection Related Controlled	Two-Way NOT Divided (continuous left turn lane)	1 - NORTH	Changing Lanes	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	No Data	Driver	Shoulder Lap Belt	Unsafe Lane Change			
3141624	9/4/2016 12:00:00 AM	32nd St	Oak St	-30	1-None	Motor Vehicle	Rear End	Dusk	Clear	Four-Way Intersection	Intersection Related Controlled	Two-Way NOT Divided (continuous left turn lane)	1 - NORTH	Slowing In Trafficway	No Data	DRY	GLARE_SUNLIGHT	No Data	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Shoulder Lap Belt	Speed Too Fast			
3126111	9/6/2016 12:00:00 AM	32nd St	Oak St	-62	1-None	Motor Vehicle	Sideswipe	Dark	Clear	Four-Way Intersection	Intersection Related Controlled	Two-Way NOT Divided (continuous left turn lane)	3 - EAST	Making Right Turn	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Shoulder Lap Belt	Improper Turn			
3126584	9/10/2016 12:00:00 AM	Oak St	32nd St	30	3-Minor	Bicyclist	Bike	Dark	Clear	Four-Way Intersection	Intersection Within Non-Controlled	Two-Way NOT Divided (continuous left turn lane)	3 - EAST	Making Left Turn	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	PEDALCYCLE	Driver	Unknown	Failed to Yield			
3152344	11/16/2016 12:00:00 AM	32nd St	Oak St	-140	1-None	Motor Vehicle	Sideswipe	Light	Cloudy	Not Reported	Not Junction Related	Two-Way NOT Divided (continuous left turn lane)	1 - NORTH	Going Straight Ahead	UNKNOWN	DRY	UNKNOWN	UNKNOWN	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Unknown	Unsafe Lane Change			
3182166	1/19/2017 12:00:00 AM	32nd St	Oak St	19	1-None	Motor Vehicle	Rear End	Light	Cloudy	Four-Way Intersection	Intersection Within Controlled	Two-Way Divided (unprotected median)	2 - SOUTH	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Shoulder Lap Belt	Followed Too Close			
3218278	4/21/2017 12:00:00 AM	Oak St	32nd St	0	1-None	Motor Vehicle	Left Turn	Light	Clear	Four-Way Intersection	Intersection Within Non-Controlled	Two-Way NOT Divided (no median)	1 - NORTH	Making Left Turn	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	No Data	Driver	Shoulder Lap Belt	Failed to Yield			
3218279	4/21/2017 12:00:00 AM	32nd St	Oak St	-130	1-None	Motor Vehicle	Rear End	Light	Clear	Not Reported	Not Junction Related	Two-Way NOT Divided (no median)	2 - SOUTH	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	No Data	Driver	Shoulder Lap Belt	Failed to Yield			
3219919	4/29/2017 12:00:00 AM	Oak St	32nd St	64	2-Possible	Motor Vehicle	Rear End	Light	Clear	Four-Way Intersection	Intersection Related Controlled	Two-Way NOT Divided (continuous left turn lane)	3 - EAST	Slowing In Trafficway	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Shoulder Lap Belt	Speed Too Fast			
3270409	9/14/2017 12:00:00 AM	32nd St	Oak St	0	1-None	Motor Vehicle	Angle	Light	Clear	Four-Way Intersection	Intersection Within Controlled	Two-Way NOT Divided (continuous left turn lane)	1 - NORTH	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Shoulder Lap Belt	Disregarded Signal			
3279292	9/30/2017 12:00:00 AM	32nd St	Oak St	48	1-None	Motor Vehicle	Rear End	Dark	Clear	Four-Way Intersection	Intersection Related Controlled	Two-Way NOT Divided (continuous left turn lane)	2 - SOUTH	Going Straight Ahead	OTHER	DRY	OTHER	OTHER	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Unknown	Disregarded Signal			
3347630	11/14/2017 12:00:00 AM	32nd St	Oak St	85	4-Serious	Motor Vehicle	Sideswipe	Dark	Clear	Not Reported	Not Junction Related	Two-Way NOT Divided (continuous left turn lane)	3 - EAST	Making Right Turn	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	No Data	Driver	Unknown	Improper Turn			
3302479	11/30/2017 12:00:00 AM	32nd St	Oak St	0	1-None	Motor Vehicle	Rear End	Dark	Cloudy	Four-Way Intersection	Intersection Within Controlled	Two-Way NOT Divided (continuous left turn lane)	2 - SOUTH	Going Straight Ahead	No Contributing Circumstances	DRY	NO_CONTRIBUTING_CIRCUMSTANCES	NO_CONTRIBUTING_CIRCUMSTANCES	1	MOTOR_VEHICLE_IN_TRANSPORT	Driver	Lap Belt Air Bag	Speed Too Fast			
3371087	5/19/2018 12:00:00 AM	Oak St	32nd St	0	1-None	Motor Vehicle	Left Turn	Light	Clear	Four-Way Intersection	Intersection Within Controlled	Two-Way NOT Divided (continuous left turn lane)	8 - Southeast	Making Left Turn	Unknown	Dry	Unknown	Unknown	1	Motor Vehicle In Transport	Driver	Shoulder Lap Belt	Failed to Yield			
3400022	8/5/2018 12:00:00 AM	Oak St	32nd St	0	1-None	Motor Vehicle	Angle	Dark	Clear	Four-Way Intersection	Intersection Within Non-Controlled	Two-Way Divided Positive Median Barrier	1 - North	Going Straight Ahead	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1	Motor Vehicle In Transport	Driver	Shoulder Lap Belt	Other			
3402533	8/9/2018 12:00:00 AM	32nd St	Oak St	48	1-None	Motor Vehicle	Rear End	Dark	Clear	Not Reported	Not Junction Related	Two-Way Divided (unprotected median)	2 - South	Going Straight Ahead	-	Dry	-	Brakes	1	Motor Vehicle In Transport	Driver	Shoulder Lap Belt	Speed Too Fast			
3401259	8/12/2018 12:00:00 AM	Oak St	32nd St	-80	2-Possible	Pedestrian	Pedestrian	Light	Clear	Not Reported	Not Junction Related	Two-Way Divided (unprotected median)	4 - West	Going Straight Ahead	Unknown	Dry	Unknown	Unknown	1	Pedestrian	Driver	Shoulder Lap Belt	None			
3406782	9/3/2018 12:00:00 AM	32nd St	Oak St	12	3-Minor	Pedestrian	Pedestrian	Light	Clear	Not Reported	Not Junction Related	Two-Way Divided Positive Median Barrier	6 - Northeast	Making Left Turn	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1	Pedestrian	Driver	Shoulder Lap Belt	Failed to Yield			
3409581	9/11/2018 12:00:00 AM	Oak St	32nd St	0	1-None	Motor Vehicle	Angle	Light	Clear	Four-Way Intersection	Intersection Within Controlled	Two-Way NOT Divided (continuous left turn lane)	4 - West	Making Right Turn	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1	-	Driver	Shoulder Lap Belt	Failed to Yield			
3416616	9/17/2018 12:00:00 AM	32nd St	Oak St	53	1-None	Motor Vehicle	Rear End	Light	Clear	Four-Way Intersection	Intersection Related Non-Controlled	Two-Way Divided (unprotected median)	2 - South	Going Straight Ahead	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1	Motor Vehicle In Transport	Driver	Shoulder Lap Belt	Speed Too Fast			
3415900	9/24/2018 12:00:00 AM	32nd St	Oak St	-29	3-Minor	Pedestrian	Pedestrian	Light	Clear	Four-Way Intersection	Intersection Related Controlled	Two-Way Divided (unprotected median)	2 - South	Making Left Turn	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1	-	Driver	Shoulder Lap Belt	Failed to Yield			
3433406	10/31/2018 12:00:00 AM	32nd St	Oak St	125	1-None	Motor Vehicle	Rear End	Dark	Clear	Four-Way Intersection	Thru Road	Two-Way NOT Divided (continuous left turn lane)	2 - South	Going Straight Ahead	Unknown	Dry	Unknown	Unknown	1	-	Driver	Shoulder Lap Belt	Speed Too Fast			
3449710	12/14/2018 12:00:00 AM	32nd St	Oak St	107	1-None	Motor Vehicle	Left Turn	Dark	Clear	Not Reported	Not Junction Related	Two-Way NOT Divided (continuous left turn lane)	4 - West	Making Left Turn	Unknown	Dry	Unknown	Unknown	1	-	Driver	Unknown	Failed to Yield			
3454262	12/28/2018 12:00:00 AM	32nd St	Oak St	-50	1-None	Motor Vehicle	Sideswipe	Light	Clear	Not Reported	Not Junction Related	Two-Way Divided (unprotected median)	Not Reported	Changing Lanes	No Contributing Circumstances	Dry	No Contributing Circumstances	No Contributing Circumstances	1	Motor Vehicle In Transport	Driver	Shoulder Lap Belt	Unsafe Lane Change			



