## **INPUTS**

Project Information	
Name:	US 90
Application ID Number:	300804
Sponsor ID Number (CSJ, etc.):	
Year Open to Traffic? (Must be >=2018)	2018

Daily Travel Demand	With Project	Without Project		
2018 VHT				
2018 Volume	17,400			
2018 Capacity	27,600			
2025 Volume	15,500			
2025 Capacity	27,600			
2040 Volume	16,400			
2040 Capacity	27,600			

## **OUTPUTS**

Benefit Results	
Annual Discounted Delay Benefits	\$1,773,900

Using the difference in *user cost of delays* per day for each direction of travel from the summary output. See *Summary View Sheet* for more details.

Summary	View											
period length (min) 60				PROJECT INFORMATION			REPORT INFORMATION					
annual traffic growth (%) 3.00% years of growth 0			PROJECT TITLE	US90, FM 5	63 to FM160		REPORT TITLE	DETAILED I SUMMARY	JSER COST	KEPORT		
VEHICLE INPUT cars trucks				C.S.				DIVISION		erty		
design demand (%) 87.0% 13.0%				JOB#				REPORT BY		R		
user cost per hour (\$\mathcal{Y}\text{ hr}) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					TART DATE		n to 4 leas		PORT DATE		/2015	
	er cost per n st per cancel			\$1.81	NOTES: Existing 2 lane, Widen to 4 lanes w/continuous center left turn FM563 to FM160							
					MET	HOD 1	MET	HOD 2	METI	HOD 3	METL	HOD 4
METHOD INPUT method title						g 2 lanes		ed 5 lanes	WEI	1003	WEI	1304
DISTANCE AND SPEED (mi) (mph)					distance	speed	distance	speed	distance	speed	distance	speed
		work zone		ethod travel	2.4	see delay	2.4	see delay		see delay		see delay
normal travel diversion method travel					2.4	50.0	2.4	50.0				
normal travel												
SPEED DELAY					threshold	range	threshold	range	threshold	range	threshold	range
	capacity for speed delay (V/period) speed (when D∼0) (mph)				1500 50		3400 50	1				
			speed (when	150000 .5	35		35					
		EASE TO DE			threshold	range	threshold	range	threshold	range	threshold	range
сар	acity for dec		esign deman cars (with n		2100							
			ucks (with n									
		canceled o	cars (with de	lay) (%/min)								
			cks (with de		0.007							
			cars (with n rucks (with n		0.0%				-			
			cars (with de		5.570							
			cks (with de									
OTHER	USER COST				cars	trucks	cars	trucks	cars	trucks	cars	trucks
	othe		per actual d		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		user	cost per div	ersion (\$/V)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		_	h = -t	-4 -44 00								
direction:	ERIOD INPU	WB	EB	at start (V)	EB	WB .	0 EB	0 WB	0 EB	0 WB	0 EB	0 WB
period	historica			demand		acity		acity		acity		acity
(hr)	(V/period)		(V/period)	(V/period)	(V/period)			(V/period)	(V/period)	(V/period)	(V/period)	(V/period)
12 A	75 75	75 75	75 75	75 75	1500 1500	1500 1500	3400 3400	3400 3400				
1 A 2 A	100	100	100	100	1500	1500	3400	3400				
3 A	100	100	100	100	1500	1500	3400	3400				
4 A	150	150	150	150	1500	1500	3400	3400				
5 A 6 A	300 700	300 700	300 700	300 700	1500 1500	1500 1500	3400 3400	3400 3400				
7 A	1000	1000	1000	1000	1500	1500	3400	3400				
8 A	1300	1300	1300	1300	1500	1500	3400	3400				
9 A 10 A	1200 1000	1200 1000	1200 1000	1200 1000	1500 1500	1500 1500	3400 3400	3400 3400				
10 A	900	900	900	900	1500	1500	3400	3400				
12 P	900	900	900	900	1500	1500	3400	3400				
1 P	900	900	900	900	1500	1500	3400	3400				
2 P 3 P	800 800	800 800	800 800	800 800	1500 1500	1500 1500	3400 3400	3400 3400				
4 P	1200	1200	1200	1200	1500	1500	3400	3400				
5 P	1300	1300	1300	1300	1500	1500	3400	3400				
6 P 7 P	1200 1000	1200 1000	1200 1000	1200 1000	1500 1500	1500 1500	3400 3400	3400 3400				
8 P	800	800	800	800	1500	1500	3400	3400				
9 P	700	700	700	700	1500	1500	3400	3400				
10 P	500 400	500 400	500 400	500 400	1500 1500	1500 1500	3400 3400	3400 3400				
Total	17400	17400	17400	17400	36000	36000	81600	81600	0	0	0	0
	MARY OUT			ffic method	Existing	2 lanes	Propose	d 5 lanes				
			4-4	direction	EB	WB	EB	WB \$587	EB	\$0	EB	WB
				al user cost st of delays	\$3,017 \$3,017	\$3,017 \$3,017	\$587 \$587	\$587 \$587	\$0 \$0	\$0	\$0 \$0	\$0 \$0
user cost of decreases					\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			maximum	backup (V)	0	0	0	0	0	0	0	0
maximum backup length (lane mi) maximum delay (min.)					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	total delay, except diversions (V hr)					157	31	31	0.0	0.0	0.0	0.0
	average delay, except diversions (min)					0.5	0.1	0.1	0.0	0.0	0.0	0.0
total vehicles canceled(V)					0	0	0	0	0	0	0	0
total vehicles diverted (V) total decrease in demand (V)					0	0	0	0	0	0	0	0
% decrease in demand					0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
delay per diverted vehicle (min)					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4-4		al diversion luding diver		0 157	0 157	0 31	31	0	0	0	0
			cluding diver cluding diver		0.5	0.5	0.1	0.1	0.0	0.0	0.0	0.0
	user cost / design demand					\$0.17	\$0.03	\$0.03	\$0.00	\$0.00	\$0.00	\$0.00
• ./	15.7	1	ay cost / act		\$0.17	\$0.17	\$0.03	\$0.03	\$0.00	\$0.00	\$0.00	\$0.00
Auté ON	Print ON	Nov O	valid	lity of output	VALID	VALID	VALID	VALID	NOT VALID	NOT VALID	NOT VALID	NOT VALID