NOISE DATA WORKSHEET 100512 Job No: I-57 Walnut Ridge to Missouri State Line Job Name: I-57 Hwy 67 Through Corning (Without Bypass) Roadway Reference: County: Lawrence, Randolph, Clay 2040 Design Year: Year(s) To Be Modeled: 2022 DHV = (ADT)(K) DDHV = (ADT)(K)(D) K - Percent of ADT occuring in design hour D - Directional Distribution D 55% Roadway Cross-Sections: Two lanes with center turn lane - 42' wide paved section Note: Operating Speed: 40 Kfactor 9% DHV MT/2 HT/2 Traffic Data: YEAR ADT %TRUCK CARS МТ НТ CARS/2 4.1% 28.1% Existing 2022 8,100 32% 494 30 205 2022 32% 0 0 0 0 0 0 0

Garver									27-Feb-24							
Ryan Mountain and								Т	NM 2.5							
		Calculated with TNM 2.5														
RESULTS: SO																
PROJECT/CC	ONTR		RDOT No. 1													
		wy 67 2022 W/out Bypass														
BARRIER DESIGN		INPUT HEIGHTS								Average pavement type shall be used unless						
										a State h	ighway age	ncy sub	stantiates th	ne use		
ATMOSPHERICS:		68 deg F, 50% RH					of a different type with approval of FHWA.									
Receiver																
Name	No.	#DUs			No Barrier LAeq1h					Туре	With Barr					
			LAeq1h					Increase over existing			Calculated Noise Reduction				Calculated	
		Calculated Crit'r					Cal	culated C		Impact	m					
								S	Sub'l Inc					minus		
														Goal		
			dBA	dE	BA	dBA	dB	d	IB		dBA	dB	dB	dB		
	25	1	1	0	73.8	6	6	73.8	10	Snd Lvl	73.	8	0	8	-8	
	42	2	1	0	71.1	6	6	71.1	10	Snd Lvl	71.	1	0	8	-8	
	75	3	1	0	68.2	6	6	68.2		Snd Lvl	68.	2	0	8	-8	
	105	4	1	0	66.6	6		66.6		Snd Lvl	66.	6	0	8	-8	
	125	5	1	0	65.7	6		65.7	10		65.		0	8	-8	
	150	6	1	0	64.8	6		64.8			64.		0	8	-8	
	180	7	1	0	63.5	6		63.5			63.		0	8	-8	
	200	8	1	0	62.5	6		62.5			62.		0	8	-8	
	250	11	1	0	60.2	6	-	60.2			60.		0	8	-8	
	300	12	1	0	58.5	6		58.5			58.		0	8	-8	
	350	31	1	0	57.0	6	6	57	10		5	7	0	8	-8	
Dwelling Unit	ts	# DU	s Noise	Reduction	n											
			Min		vg	Max										
			dB	dl	3	dB										
All Selected			11	0	0		0									
All Impacted			4	0	0		0									
All that meet	NR Goal		0	0	0		0									

	WORKS	HEET									
Job No: 100512]										
Job Name: I-57 Walnut	Ridge to Missouri State L	.ine									
Roadway Reference:	I-57 Hwy 67 Through Co	orning (With	Bypass)]				
County: Lawrence, R	Randolph, Clay]									
Design Year:	2040										
Year(s) To Be Modeled:	2022										
Roadway Cross-Sections:	Two lanes w	ith center tu	rn lane - 4	12' wide pave	ed section		Note:	DHV = (ADT			
						1		DDHV = (AD K - Percent of D - Directions	of ADT occur	ring in design	hour
Operating Speed:		40				Kfactor	8%	D - Directions	55%	""	
Traffic Data:		YEAR	ADT	%TRUCK	DHV	CARS	мт	нт	CARS/2	MT/2	HT/2
Tranic Bata.		ILAK	ADI	7011KOOK	D111	OAILO	0.30%	6.40%	OAITO/2	1411/2	2
	W/Bypass	2022	4,680	6.7%	358	334	1	23			
			0	7%	0	0	0	0	0	0	0

Garver								7-Feb-24								
Ryan Mountain and								M 2.5	TNIM 0	_						
RESULTS: S PROJECT/CO RUN:			ARDOT No.:				Cal	culated v	vith TNM 2	.5						
BARRIER DESIGN			UT HEIGHTS					Average pavement type shall be used unless a State highway agency substantiates the use								
ATMOSPHERICS:		68 0	leg F, 50% R	Н		of a different type with approval of FHWA.										
Receiver Name No.		#DU	s Existin LAeq1	h LA	Barrier eq1h		With Barrier Increase over existing Type Calculated Noise Reduction									
				Calculated Crit'n		rit'n (Calculated Crit'n Sub'l Inc			LAeq1h	Calculated	Goal	Calculate minus Goal	d		
			dBA	dB	A dE	BA d	dB dB			dBA	dB	dB	dB			
	22	1	1	0	67.2	66	67.2	10	Snd Lvl	67.2	2	0	8	-8		
	28	2	1	0	66.0	66	66		Snd Lvl	66			8	-8		
	75	3	1	0	61.1	66	61.1			61.1			8	-8 -8 -8 -8 -8 -8 -8 -8		
	105	4	1	0	59.4	66	59.4			59.4			8	-8		
	125	5	1	0	58.5	66	58.5			58.5			8	-8		
	150	6	1	0	57.6	66	57.6			57.6			8	-8		
	180	7	1	0	56.3	66	56.3			56.3			8	-8		
	200	8	1	0	55.1	66	55.1			55.1			8	-8		
	250	11	1	0	52.7	66	52.7	10		52.7	7		8	-8		
	300	12	1	0	50.7	66	50.7			50.7			8	-8		
	350	31	1	0	49.1	66	49.1	10		49.1	1	0	8	-8		
Dwelling Uni	ts	# DI	Js Noise	Reductio												
			Min dB	A ¹		lax B										
All Selected			11	0	0	0										
All Impacted			2	0	0	0										
All that meet	NR Goal		0	0	0	0										