Appendix M

Alternatives 2 and 3 Trip Generation Table

IMPERIAL AVALON PROJECT - ALTERNATIVE 2 - GENERAL PLAN AND ZONING CONSISTENT ALTERNATIVE ESTIMATED PROJECT TRIP GENERATION

Land Use	ITE Land	Size	Trip Generation Rates [a]							Estimated Trip Generation							
				Al	AM Peak Hour		PM Peak Hour		our		AM Peak Hour Trips			PM Peak Hour Trips			
	Use Code		Daily	Rate	In%	Out%	Rate	In%	Out%	Daily	In	Out	Total	In	Out	Total	
PROPOSED PROJECT																	
Single-Family Detached Housing	210	120 DU	9.44	0.74	25%	75%	0.99	63%	37%	1,133	22	67	89	75	44	119	
Less: Internal capture			0%		0%	0%		0%	0%	0	0	0	0	0	0	0	
Less: Walk/Bike/Transit Credit [b]			0%	0%			0%			0	0	0	0	0	0	0	
Net External Vehicle Trips										<u>1,133</u>	<u>22</u>	<u>67</u>	<u>89</u>	<u>75</u>	<u>44</u>	<u>119</u>	
Automobile Sales (New)	840	165 KSF	27.84	1.87	73%	27%	2.43	40%	60%	4,594	226	83	309	160	241	401	
Less: Internal capture			0%		0%	0%		0%	0%	0	0	0	0	0	0	0	
Less: Walk/Bike/Transit Credit [b]			0%	0%			0%			0	0	0	0	0	0	0	
Net External Vehicle Trips										<u>4,594</u>	<u>226</u>	<u>83</u>	<u>309</u>	<u>160</u>	<u>241</u>	<u>401</u>	
TOTAL DRIVEWAY TRIPS										<u>5,727</u>	248	<u>150</u>	398	235	285	520	
TOTAL PROJECT EXTERNAL VEHICLE TRIPS										<u>5,727</u>	<u>248</u>	<u>150</u>	<u>398</u>	<u>235</u>	<u>285</u>	<u>520</u>	
EXISTING USE CREDIT																	
Mobile Home Park	-	225 DU	-	-	-	-	-	-	-	1,141	25	49	74	49	38	87	
	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL EXISTING DRIVEWAY TRIPS [c]										<u>1,141</u>	<u>25</u>	<u>49</u>	<u>74</u>	<u>49</u>	<u>38</u>	<u>87</u>	
NET INCREMENTAL EXTERNAL TRIPS			1							4,586	223	101	324	186	247	433	

Notes:

[[]a] Source: Institute of Transportation Engineers (ITE), *Trip Generation*, 10th Edition , 2017.

[[]b] A 0% Walk/Bike/Transit Credit was used based on the site's general suburban context.

[[]c] 24-hour counts were taken at existing driveways at the proposed Project site in lieu of using estimated existing trips from ITE Trip Generation.

IMPERIAL AVALON PROJECT - ALTERNATIVE 3 - REDUCED DENSITY AND SENSITIVE TRANSITION ALTERNATIVE ESTIMATED PROJECT TRIP GENERATION

Land Use	ITE Land				Trip G	eneration R	ates [a]			Estimated Trip Generation							
	Use Code	Size	AM Peak			our	PM Peak Hour		our		AM Peak Hour Trips			PM	PM Peak Hour Trips		
	Ose Code		Daily	Rate	In%	Out%	Rate	In%	Out%	Daily	In	Out	Total	ln	Out	Total	
PROPOSED PROJECT																	
Multifamily Housing (Mid-Rise) Less: Internal capture Less: Walk/Bike/Transit Credit [b] Net External Vehicle Trips	221	1,033 DU	5.44 5% 0%	0.36 <i>0</i> %	26% 5%	74% 9%	0.44 0%	61% <i>4</i> %	39% <i>7</i> %	5,620 (281) 0 5,339	97 (5) 0 <u>92</u>	275 (25) 0 250	372 (30) 0 <u>342</u>	278 (11) 0 <u>267</u>	177 (12) 0 <u>165</u>	455 (23) 0 432	
Single-Family Detached Housing Less: Internal capture Less: Walk/Bike/Transit Credit [b] Net External Vehicle Trips	210	28 DU	9.44 0% 0%	0.74 <i>0%</i>	25% <i>0</i> %	75% 0%	0.99 0%	63% <i>0</i> %	37% 0%	264 0 0 264	5 0 0 <u>5</u>	16 0 0 16	21 0 0 21	18 0 0 18	10 0 0 10	28 0 0 28	
Quality Restaurant Less: Internal capture Less: Walk/Bike/Transit Credit [b] Total Driveway Trips Less: Pass-by Net External Vehicle Trips	931	8.47 KSF	83.84 11% 0% 43%	0.73 0% 43%	55% 20%	45% <i>4%</i>	7.8 0% 43%	67% 14%	33% 18%	710 (78) 0 <u>632</u> (272) <u>360</u>	3 (1) 0 <u>2</u> (1) <u>1</u>	3 0 0 <u>3</u> (1) <u>2</u>	6 (1) 0 <u>5</u> (2) <u>3</u>	44 (6) 0 <u>38</u> (16) <u>22</u>	22 (4) 0 <u>18</u> (8) 10	66 (10) 0 <u>56</u> (24) 32	
Coffee/Donut Shop without Drive-Through Window [c] Less: Internal capture Less: Walk/Bike/Transit Credit [b] Total Driveway Trips Less: Pass-by Net External Vehicle Trips	936	1.882 KSF	346.23 10% 0% 43%	101.14 0% 43%	51% 20%	49% 4%	36.31 0% 43%	50% 14%	50% 18%	652 (65) 0 587 (252) 335	97 (19) 0 <u>78</u> (34) <u>44</u>	93 (4) 0 89 (38) 51	190 (23) 0 167 (72) 95	34 (5) 0 <u>29</u> (12) 17	34 (6) 0 <u>28</u> (12) 16	68 (11) 0 <u>57</u> (24) <u>33</u>	
Senior Adult Housing - Attached Less: Internal capture Less: Walk/Bike/Transit Credit [b] Net External Vehicle Trips	252	83 DU	3.85 0% 0%	0.2 0%	35% <i>0</i> %	65% <i>0%</i>	0.26 0%	55% <i>0%</i>	45% <i>0</i> %	320 0 0 320	6 0 0 <u>6</u>	11 0 0 11	17 0 0 17	12 0 0 12	10 0 0 10	22 0 0 22	
TOTAL DRIVEWAY TRIPS										<u>7,142</u>	<u>183</u>	<u>369</u>	<u>552</u>	<u>364</u>	<u>231</u>	<u>595</u>	
TOTAL PROJECT EXTERNAL VEHICLE TRIPS			 							<u>6,618</u>	<u>148</u>	<u>330</u>	<u>478</u>	<u>336</u>	211	<u>547</u>	
EXISTING USE CREDIT																	
Mobile Home Park		225 DU		- -	- -	- -	- -	- -	-	1,141 - -	25 - -	49 - -	74 - -	49 - -	38 - -	87 - -	
TOTAL EXISTING DRIVEWAY TRIPS [d]										<u>1,141</u>	<u>25</u>	<u>49</u>	<u>74</u>	<u>49</u>	<u>38</u>	<u>87</u>	
NET INCREMENTAL EXTERNAL TRIPS										5,477	123	281	404	287	173	460	
Notes:	1			1			l			3, 1, 1	.25	_01	.0-1		.,,	700	

Notes

- [a] Source: Institute of Transportation Engineers (ITE), Trip Generation, 10th Edition, 2017 and NCHRP 8-51, Internal Trip Capture Estimation Tool, Texas Transportation Institute.
- [b] A 0% Walk/Bike/Transit Credit was used based on the site's general suburban context.
- [c] ITE use 933 Fast-Food Restaurant without Drive-Through Window used for daily rate due to lack of daily rate data for ITE use 936 Coffee/Donut Shop without Drive-Through Window.
- [d] 24-hour counts were taken at existing driveways at the proposed Project site in lieu of using estimated existing trips from ITE Trip Generation.