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Date:	July 23, 2024	STANOINSA
То:	Colin Cortes, AICP, City of Woodburn	70661PE
	Jenna Bogert, PE, DKS Associates	Fingh W Beson
From:	Joe Bessman, PE	2 4 200 14, 2001 M
Project Reference No.:	1584	W. EESST
Project Name:	Woodburn US Market	E. IRES 12012025

The purpose of this memorandum is to provide a formal response to review comments received from the City of Woodburn (through their on-call review consultant) dated July 19, 2024, which identify Jenna Bogert as the engineer of record.

Comment #1: Traffic Counts Dates. The City's consultant transportation reviewers commented that traffic counts in the original study were from 2019, and that in February 2024 the reviewer requested that a new study be provided, which was provided to DKS in July 2024 (report is dated April 4, 2023).

Response: None of the traffic counts within the current or prior application were from 2019. To ensure that the consultant reviewer has access to the correct files and that those files are included in the record the relevant materials are provided below for the US Market application:

- June 23, 2023 Transportation Impact Analysis. This report was provided to the City directly, but it is my understanding that without a complete land use application the report was not uploaded to the file. Key revisions within this report include modification of the OR 214 access to right-in only (removing the right-turn out), as well as minor modifications to the site plan. This report was prepared using morning and evening traffic counts that were collected on April 4, 2023.
- August 13, 2021 Transportation Impact Analysis. This report was part of the prior submittal that was not approved by the City of Woodburn due to concerns with compatibility, along with other expressed reservations related to traffic safety (specifically due to the right-turn out onto OR 214 and potential weaving). This report utilized traffic counts that were collected on June 30, 2021. The revised 2023 report includes a comparison to these counts.
- The TIA for "Project Basie" (Amazon) included traffic counts from May 25, 2021. These were also reviewed to ensure that the traffic patterns within the revised TIA were consistent with these historical traffic counts.

There are no traffic counts collected in 2019 within the subject report (or the prior application). References to 2019 on page 11 of the TIA refer to the preparation of seasonal adjustment factors from ODOT's lagging publication of data, noting the impacts that COVID had on nearby Automated Traffic Recorder Stations. In comparison of the 2021 and 2023 counts (see Page 10 of the June TIA) we note that the weekday evening peak hour volumes changed very little within this two-year period. Accordingly, traffic counts and data within this study are based on 2023 data and validated with the historical counts from 2021.

Comment #2: Pass-by Rates. It was questioned where the 76% and 75% pass-by rates cited in the June 2023 TIA were derived from, as data within ITE's *Trip Generation Handbook*, 3rd Edition cites lower pass-by trip rates.

Response: The ITE *Trip Generation Handbook, 3rd Edition* (which was a companion manual to ITE's *Trip Generation, 10th Edition*) is obsolete. This manual was updated with more current pass-by data specific to convenience markets with fuel centers as part of the posted February 6, 2018 errata. This supplement states that the pass-by rates within the *Trip Generation Handbook* should be removed and replaced with this updated information (see Figure 1).

	PUBL	RANSPORTATION ENGINE ICATIONS ERRATA book, Third Edition, Septem ers ISBN-10: 1-933452-91-9 RP-28D	iber 2017	8-1-9334	152-90-6
Posted: 2/06		1 below have been undated (E.15. E.16. E	.35. E.36) or added (E 30
E.40) to refle 2017. Table	g six tables summarized in Revised Table E. ect changes in land use descriptions publishe s E.37 and E.38 have been removed, as there and E.19 should also be removed from the <i>Tr</i>	d in the <i>Trip Generation Mar</i> e is no longer pass-by data fo ip Generation Handbook, Th	ual, 10th Edit or land use co ird Edition, as	<i>tion</i> publi ode 945. s these fig	shed in Septembe Figures E.11, E.12
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Figure 1. ITE Posting on the removal and replacement of pass-by trip rates related to fuel centers. *Source: Trip Generation Handbook Errata 2-6-18.*

Following this publication, the release of ITE's *Trip Generation Manual*, 11th Edition provided a new dataset of pass-by information within its Appendices that includes and further revises the supplemental information released in Errata 2-6-18. The release of the *Trip Generation Manual*, 11th Edition (the current Trip Generation manual) combined many of the separate fuel center and convenience store land use classifications (ITE 853: Convenience Market with Gasoline Pumps, ITE 945: Gasoline/Service Station with Convenience Market, and ITE 960: Super Convenience Market/Gas Station) into a single land use category with subcategories. The revised pass-by data was prepared to correlate to this new combined classification (ITE 945: Convenience Store/Gas Station), aggregating data from the prior subcategories, while maintaining a distinction between sites based on the general number of Vehicle Fueling Positions (VFPs), which are defined below: Vehicle Fueling Position—is defined by the number of vehicles that can be fueled simultaneously at a service station. For example, if a service station has two fuel dispensing pumps with hoses on each side of each pump, where only one vehicle can be fueled at a time on each side, the number of vehicle fueling positions is four. (Source: ITE Trip Generation Manual 11th Edition, Chapter 4: Definition of Terms)

This manual cites the following pass-by rates for ITE 945: Convenience Store/Gas Station):

- Sites with 2 to 8 vehicle fueling positions: 60% AM, 56% PM
- Sites with 9 to 20 vehicle fueling positions: 76% AM, 75% PM

As the proposed fuel center contains 12 vehicle fueling positions, the cited rates applied within the traffic study match those in the current edition of the ITE Trip Generation Manual. *The specific pass-by rate tables from the appendices are included as an attachment.*

NEXT STEPS

Thank you for the opportunity to provide this clarifying information in response to comments received on this application. If you have any additional questions or need additional information to complete this review I can be reached at (503) 997-4473 or via email at <u>joe@transightconsulting.com</u>.

Attachments:

• ITE 11th Edition Pass-by Tables, ITE 945: Convenience Store/Gas Station

				e Pass-By Ra	,							
		So	urce: ITE 7	rip Generatio	n Manual , 1	11th Edition						
Land Use Code					94	5						
Land Use	Convenience Store/Gas Station											
Setting	General Urban/Suburban											
Time Period						Peak Period						
# Data Sites	16 Sites with between 2 and 8 VFP 28 Sites with between 9 and 20 VFP											
verage Pass-By Rate		10 Sites with between 2 and 8 VFP28 Sites with between 9 and 20 VFP60% for Sites with between 2 and 8 VFP76% for Sites with between 9 and 20 VFP										
	Pass-By Characteristics for Individual Sites											
		State or	Survey		Pass-By	Non-Pass-By Trips Adj Street Peal						
GFA (000)	VFP	Province	, Year	# Interviews	, Trip (%)	Primary (%)	Diverted (%)	Total (%)	, Hour Volume	Soι		
2	8	Maryland	1992	46	87	13	0	13	2235	2		
2.1	6	Maryland	1992	26	58	23	19	42	2080	2		
2.1	6	Maryland	1992	26	58	23	19	42	2080	2		
2.2	8	Maryland	1992	31	47	34	19	53	1785	2		
2.2	< 8	Indiana	1992	79	56	6	38	44	635	2		
2.2	8	Maryland	1993	35	78	9	13	22	7080	2		
2.2	6			35	32	9 41	27	68		2		
		Maryland	1992						2080	_		
2.3	< 8	Kentucky	1993	58	64	5	31	36	1255			
2.3	6	Maryland	1992	37	32	41	27	68	2080	2		
2.4	< 8	Kentucky	1993	_	48	17	35	52	1210			
2.6	< 8	Kentucky	1993	_	72	15	13	28	940			
2.8	< 8	Kentucky	1993	-	54	11	35	46	1240			
3	< 8	Indiana	1993	62	74	10	16	26	790			
3.6	< 8	Kentucky	1993	49	67	4	29	33	1985			
3.7	< 8	Kentucky	1993	49	66	16	18	34	990			
4.694	12	Maryland	2000	—	72	—		28	2440	3		
4.694	12	Maryland	2000	—	78	—		22	1561	3		
4.694	12	Maryland	2000	_	79		_	21	2764	3		
4.848	12	Virginia	2000	—	55		_	45	1398	3		
5.06	12	Pennsylvania	2000	—	84	—	-	16	3219	3		
5.242	12	Virginia	2000	—	74	—	—	26	1160	3		
5.242	12	Virginia	2000	_	71	_	_	29	548	3		
5.488	12	Delaware	2000	_	80	_	_	20	_	3		
5.5	12	Pennsylvania	2000	_	85	_	_	15	2975	3		
4.2	< 8	Kentucky	1993	47	62	19	19	38	1705			
4.694	16	Maryland	2000	_	90	_		10	2278	3		
4.694	16	Delaware	2000	_	74	_	_	26	2185	3		
4.694	16	Delaware	2000	_	58	_		42	962	3		
4.694	16	Delaware	2000	_	84	_		16	2956	3		
4.694	16	New Jersey	2000	_	79	_	_	21	1859	3		
4.694	20	Delaware	2000		84			16	3864	3		
4.848	16	Virginia	2000		68			32	2106	3		
4.848	16	Virginia	2000		85			32 15	2676	3		
4.848	16	_	2000		75	_			3244	_		
	16	Virginia						25		3		
4.848		Virginia	2000	_	71		—	29	1663	3		
4.993	16	Pennsylvania	2000	—	75	_	—	25	1991	3		
5.094	16	New Jersey	2000	_	86	—		14	1260	3		
5.5	16	Pennsylvania	2000	_	82	—	—	18	1570	3		
5.543	16	Pennsylvania	2000	_	84	—	_	16	1933	3		
5.565	16	Pennsylvania	2000		77	_	_	23	2262	3		
5.565	16	Pennsylvania	2000	—	68	—	_	32	2854	3		
5.565	16	New Jersey	2000	_	58	—	_	42	1253	3		
5.565	16	New Jersey	2000		79	_		21	1928	3		
5.565	16	New Jersey	2000		84			16	1953	(7)		

		So		e Pass-By Ra	-							
Land Use Code					04	E						
Land Use Code	945 Convenience Store/Gas Station											
	General Urban/Suburban											
Setting Time Period		Weekday PM Peak Period										
# Data Sites												
verage Pass-By Rate		12 Sites with between 2 and 8 VFP28 Sites with between 9 and 20 VFP56% for Sites with between 2 and 8 VFP75% for Sites with between 9 and 20 VFP										
Verage Pass-by hale	Pass-By Characteristics for Individual Sites											
		State or	Survey	Pass-By		Non-Pass-By Trips			Adj Street Peak	T		
GFA (000)	VFP	Province	Year	# Interviews	Trip (%)	Primary (%)	Diverted (%)	Total (%)	Hour Volume	Sou		
2.1	8	Maryland	1992	31	52	13	35	48	1785	2		
2.1	6	Maryland	1992	30	53	20	27	40	1060	2		
2.2	< 8	Indiana	1993	115	48	16	36	52	820			
2.3	< 8	Kentucky	1993	67	57	16	27	43	1954			
2.3	6	Maryland	1993	55	40	10	49	43 60	2760	2		
2.3	< 8	Kentucky	1992	- 55	58	11	29	42	2655	2		
2.6	< 8	Kentucky	1993	68	67	15	18	33	950			
2.8	< 8	Kentucky	1993	- 00	62	15	27	38	2875			
3	< 8	Indiana	1993	80	65	11	20	35	1165			
3.6	< 8	Kentucky	1993	60	56	17	20	44	2505			
3.7	< 8	Kentucky	1993	70	61	16	23	39	2175			
4.2	< 8	Kentucky	1993	61	58	26	16	42	2300			
4.694	12	Maryland	2000	-	78			22	3549	3		
4.694	12	Maryland	2000	_	67	_		33	2272	3		
4.694	12	Maryland	2000		66			33	3514	3		
4.848	12	Virginia	2000		71			29	2350	3		
5.06	12	Pennsylvania	2000	_	91			9	4181	3		
5.242	12	Virginia	2000	_	70			30	2445	3		
5.242	12	Virginia	2000		56			30 44	950	3		
5.488	12	Delaware	2000		73			27		3		
5.5	12	Pennsylvania	2000	_	84	_		16		3		
4.694	12		2000	—	89			10	2755	3		
4.694	16	Maryland	2000	—	73			27	1858	3		
4.694	16	Delaware Delaware	2000		59			41		3		
4.694	16	Delaware	2000	—	59 72	_		28	1344 3434	3		
4.694		_								-		
4.694	16 20	New Jersey	2000 2000		81 76	_		19 24	1734 1616	3		
4.694	20 16	Delaware	2000	—	67	_		33		3		
4.848	16	Virginia Virginia	2000	—	78	_		22	2.954 3086	3		
4.848	16		2000		83			17	3086 4143	3		
4.848	16	Virginia Virginia	2000		73			27	2534	3		
4.993	16	Pennsylvania	2000		73	_		27	2534	3		
5.094	16	New Jersey	2000		86			 14	1730	3		
5.5	16	Pennsylvania	2000		90			14	2616	3		
5.543	16	Pennsylvania	2000	_	90 87	_		10	2363	3		
5.565	16	-	2000		87			13	2363	3		
	16	Pennsylvania			76		_			3		
5.565	16	Pennsylvania	2000 2000	—	61	_		24 39	3362	-		
5.565		New Jersey		—					1713	3		
5.565 5.565	16 16	New Jersey New Jersey	2000 2000		86 81			14 19	1721 2227	3		