MEMORANDUM

DATE: November 12, 2014

TO: Kurt Seemann, P.E.

City of Redmond

FROM: Jeff Schramm

TENW

SUBJECT: Level 1 Traffic Assessment and Concurrency Application

Terrene Residential – Rose Hill, Redmond

TENW Project No. 4979

This memorandum summarizes the preliminary traffic information for the proposed Terrene residential development on Rose Hill, which includes a project description, trip generation estimate, and transportation concurrency application.

Project Description

The site of the proposed Terrene residential project is located on the east side of 132^{nd} Ave NE just south of NE 111^{th} Court in the City of Redmond, as shown in the vicinity map on **Attachment A**. The project would include the development of up to 22 single-family homes. The existing site currently includes 4 single-family homes, all of which will be removed with the project. Vehicular access to the site would be provided by a single access road onto 132^{nd} Ave NE as shown on the preliminary site plan in **Attachment B**. Plat construction would be in 2016 with an anticipated year of occupancy in 2017.

Trip Generation

The weekday daily, AM and PM peak hour trip generation calculations for the proposed and existing uses were based on trip equations/rates published in the Institute of Transportation Engineers (ITE) *Trip Generation* manual, 9th edition. The resulting net new weekday daily, AM and PM peak hour trips are summarized in **Table 1.** A detailed trip generation estimate is included in **Attachment C**.

Table 1
Terrene Residential – Trip Generation Summary

	Net Nev	Net New Trips Generated				
Time Period	In	Out	Total			
Weekday Daily	103	104	207			
Weekday AM Peak Hour	5	17	22			
Weekday PM Peak Hour	13	8	21			

As shown in **Table 1**, the Terrene residential development is estimated to generate 207 net new weekday daily trips with 22 net new trips occurring during the weekday AM peak hour (5 in, 17 out) and 21 net new trips during the weekday PM peak hour (13 in, 8 out).

Transportation Concurrency

A transportation concurrency application and Mobility Unit calculation is included in **Attachment D**.

Next Steps

Upon your review of our trip generation estimates, please let us know if you need any additional information regarding the project.

If you have any questions, please feel free to contact me at (425) 250-0581 or schramm@tenw.com.

cc: Andy Chow, City of Redmond Mike Walsh, Terrene Ventures Jeff Haynie, P.E. Principal TENW

Attachments: A. Vicinity Map

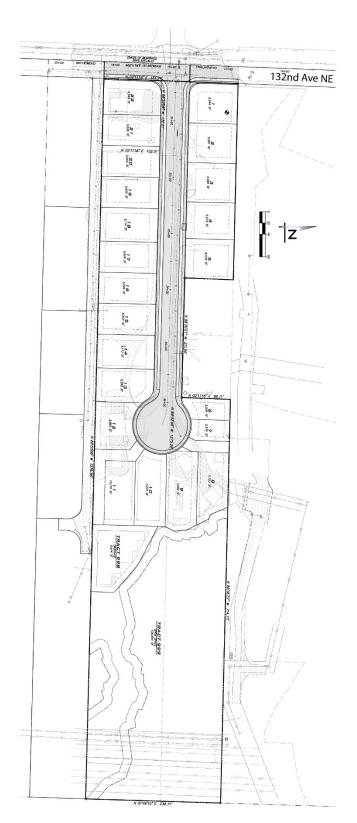
B. Preliminary Site Plan ConceptC. Trip Generation Estimate

D. Transportation Concurrency Application









Attachment B: Preliminary Site Plan

ATTACHMENT C

Trip Generation Calculations

DAILY									
DAILY			ITE	Directional Split		Trip Rate	Trips Generated		rated
Land Use	Units		LUC 1	 In	Out	Total	In	Out	Total
Proposed Use Single-Family	22	Dwelling Units	210	50%	50%	Equation	130	131	261
Less Existing Use Single-Family	4	Dwelling Units	210	50%	50%	Equation	-27	-27	-54
		N	et New \	Weekday	Daily Trip	s Generated =	103	104	207
AM PEAK HO	UR								
		-	ITE	Directional Split		Trip Rate	Trips Generated		rated
Land Use	Units		LUC 1	In	Out	Total	In	Out	Total
Proposed Use Single-Family	22	Dwelling Units	210	25%	75%	Equation	6	19	25
Less Existing Use Single-Family	4	Dwelling Units	210	25%	75%	0.75	-1	-2	-3
		1	let New	AM Peak	Hour Trip	s Generated =	5	17	22
PM PEAK HO	UR								
		_	ITE	Directio	nal Split	Trip Rate	Trips Generated		rated
Land Use	Units		LUC 1	In	Out	Total	In	Out	Total
Proposed Use Single-Family	22	Dwelling Units	210	63%	37%	Equation	17	10	27
Less Existing Use Single-Family	4	Dwelling Units	210	63%	37%	Equation	-4	-2	-6
			Net New	PM Peak	Hour Trip	s Generated =	13	8	21

Notes:

¹ Institute of Transportation Engineers, *Trip Generation* Manual, 9th Edition, 2012 Land Use Codes.

ATTACHMENT D

Transportation Concurrency Application

CITY OF REDMOND TRANSPORTATION CONCURRENCY APPLICATION

This application provides the City of Redmond with the information needed to issue a certificate of concurrency for a development. Please complete the entire form and return it to the Redmond Engineering Services Division. After agreement is reached on the mobility unit demand for a development based on the land use type, size of development and table on the back of this application, the City will, if necessary, determine if enough mobility unit supply is available to issue a certificate of concurrency. If determining the mobility unit demand for a development requires an independent calculation a fee for the review will be required, payable at the City Hall Permit Center.

1.	Applica	ant name and address:	errene at RH 13	2nd, LLC				
			20 6th Street S	South				
		K	Lirkland, WA 980	133				
2.	Property location:							
	a.	Property address: 110xx 132nd Ave NE						
	b.	Development name: Rose Hill Residential						
	c.	Assessor's Parcel Number((s): 3426059093, 3	3426059046,	3426059087,	3426059100		
3.	Type of	f development permit to be 1	equested:					

	Land Use Type (ITE Land Use Code)	Development Units	Mobility Unit Rate (see table on back)	Mobility Unit Demand	Notes
Proposed	Single-Family (LUC 210)	22	2.42	53	
		53			
Existing	Single-Family (LUC 210)	4	2.42	10	
		10			
Net No	ew Mobility Unit Demand (Total	43			

Signature of Applicant:	Date:	
For Official Use Only:		
Mobility Unit Demand calculation reviewed:	Initials	Date
Concurrency certificate required: Yes No Application number:	Mobility Units	available: □ Yes □ No

TABLE 1. Development Mobility Unit Calculator

TABLE 1. Development Mobility Unit Calculator Mobility Units/Land Use Unit							
Land Uses		ITE Land USE Code	Standard of Measure	Downtown Overlake Rest of City			
-		Single Family	210	dwelling	Urban Center 1.98	Urban Center 2.05	2.42
		Multiple Family	210	dwelling	1.39	2.05 1.44	1.7
Residential		·		residential			
		Residential Suites	N/A	suite	0.85	0.88	1.04
	<u>Sid</u>	Retirement Community	251	dwelling	0.64	0.66	0.78
	&	Nursing Home	620	bed	0.52	0.54	0.63
		Congregate Care/Asst Living	253	dwelling	0.4	0.41	0.49
-	1	Hotel/Motel	310	room	1.86	1.93	2.28
		Bank/Savings & Loan	912	sq ft/GFA	23.38	24.18	28.61
		Day Care	565	sq ft/GFA	17.81	18.42	21.8
		Library	590	sq ft/GFA	10.53	10.9	12.89
	ces	Post Office	732	sq ft/GFA	16.19	16.75	19.82
	Services	Service Station	944	fuel position	10.67	11.04	13.07
	S	Service Station/Minimart	945	fuel position	7.8	8.07	9.54
		Movie Theater	444,445	seat	0.11	0.12	0.14
		Carwash	947	stall	6.93	7.17	8.48
		Health Club/Racquet Club	492,493	sq ft/GFA	6.85	7.08	8.38
	nal	Elementary School	520	student	0.16	0.17	0.2
	Institutional	High School	530	student	0.16	0.17	0.2
		Church/House of Worship	560	sq ft/GFA	1.06	1.09	1.3
		Hospital	610	sq ft/GFA	1.52	1.57	1.86
	Rest- aurant	Restaurant	931	sq ft/GFA	11.53	11.93	14.11
	Reau	Fast Food Restaurant	934	sq ft/GFA	31.41	32.49	38.45
Commercial		up to 99,999	820	sq ft/GLA	6.34	6.56	7.76
mer	_	100,000-199,999	820	sq ft/GLA	6.05	6.26	7.41
E O	Center	200,000-299,999	820	sq ft/GLA	5.54	5.73	6.78
0		300,000 and over	820	sq ft/GLA	5.34	5.52	6.53
	jujd	Supermarket	850	sq ft/GFA	13.68	14.15	16.74
	hop	Convenience Market	851 813, 815,	sq ft/GFA	45.37	46.94	55.54
	Retail Shopping	Free Standing Discount Store	861, 863, 864	sq ft/GFA	4.51	4.66	5.52
	Ret	Miscellaneous Retail	820	sq ft/GFA	5.35	5.54	6.55
		Furniture Store	890	sq ft/GFA	0.52	0.54	0.64
		Car Sales - New/Used	841	sq ft/GFA	4.03	4.17	4.94
	e e	up to 99,999	710,715, 750	sq ft/GFA	6.58	6.81	8.06
	trati Se	100,000-199,999	710,715, 750	sq ft/GFA	5.66	5.85	6.92
	Administrative Office	200,000-299,999	710,715, 750	sq ft/GFA	4.94	5.11	6.04
		300,000 and over	710,715, 750	sq ft/GFA	4.63	4.79	5.67
		Medical Office/Clinic	720	sq ft/GFA	6.76	6.99	8.28
	ज	Light Industry/Manufacturing	110	sq ft/GFA	3.09	3.2	3.78
	Industrial	Industrial Park	130	sq ft/GFA	2.71	2.8	3.31
	Indt	Warehousing/Storage	150	sq ft/GFA	1.02	1.05	1.25
		Mini Warehouse standard of measure in sq ft, mobi	151	sq ft/GFA	0.61	0.63	0.74

For uses with standard of measure in sq ft, mobility units are given per 1000 sq ft