	Salt Lake County - Olympia Hills TIS Trip Generation - Phase 1 (2027)													
Weeko	day Da	ily	# of	Unit	Trip	%	%	Trips	Trips	Internal	Transit	Net Trips	Net Trips	Total Daily
Phase	Area	Land Use ¹	Units	Туре	Generation	Entering	Exiting	Entering	Exiting	Capture ²	Reduction	Entering	Exiting	Trips
1	TC	Multifamily Housing (Low-Rise) (220)	400	Dwelling Units	2,984	50%	50%	1,492	1,492	0%	0%	1,492	1,492	2,984
1	тс	Single-Family Detached Housing (210)	60	Dwelling Units	650	50%	50%	325	325	0%	0%	325	325	650
1	тс	General Office Building (710)	622.5	1,000 Sq. Ft. GFA	6,254	50%	50%	3,127	3,127	0%	0%	3,127	3,127	6,254
1	тс	Shopping Center (820)	130	1,000 Sq. Ft. GLA	4,908	50%	50%	2,454	2,454	0%	0%	2,454	2,454	4,908
1	VC-C	Multifamily Housing (Low-Rise) (220)	250	Dwelling Units	1,850	50%	50%	925	925	0%	0%	925	925	1,850
1	VC-C	Single-Family Detached Housing (210)	40	Dwelling Units	448	50%	50%	224	224	0%	0%	224	224	448
1	VC-C	General Office Building (710)	16	1,000 Sq. Ft. GFA	180	50%	50%	90	90	0%	0%	90	90	180
1	VC-C	Shopping Center (820)	20	1,000 Sq. Ft. GLA	756	50%	50%	378	378	0%	0%	378	378	756
1	Other	Multifamily Housing (Low-Rise) (220)	573	Dwelling Units	4,292	50%	50%	2,146	2,146	0%	0%	2,146	2,146	4,292
1	Other	Single-Family Detached Housing (210)	119	Dwelling Units	1,222	50%	50%	611	611	0%	0%	611	611	1,222
		Project Total Daily Trips			23,544			11,772	11,772			11,772	11,772	23,544
Morning Peak Hour		# of	Unit	Trip	%	%	Trips	Trips	Internal	Transit	Net Trips	Net Trips	Total a.m.	
Phase	Area	Land Use ¹	Units	Туре	Generation	Entering	Exiting	Entering	Exiting	Capture ²	Reduction	Entering	Exiting	Trips
1	TC	Multifamily Housing (Low-Rise) (220)	400	Dwelling Units	180	23%	77%	41	139	9%	0%	37	126	163
1	тс	Single-Family Detached Housing (210)	60	Dwelling Units	48	25%	75%	12	36	9%	0%	11	33	44
1	TC	General Office Building (710)	622.5	1,000 Sq. Ft. GFA	612	86%	14%	526	86	9%	0%	479	78	557
1	тс	Shopping Center (820)	130	1,000 Sq. Ft. GLA	124	62%	38%	77	47	9%	0%	70	43	113
1	VC-C	Multifamily Housing (Low-Rise) (220)	250	Dwelling Units	114	23%	77%	26	88	6%	0%	24	83	107
1	VC-C	Single-Family Detached Housing (210)	40	Dwelling Units	34	25%	75%	9	26	6%	0%	8	24	32
1	VC-C	General Office Building (710)	16	1,000 Sq. Ft. GFA	42	86%	14%	36	6	6%	0%	34	6	40
1	VC-C	Shopping Center (820)	20	1,000 Sq. Ft. GLA	20	62%	38%	12	8	6%	0%	11	8	19
1	Other	Multifamily Housing (Low-Rise) (220)	573	Dwelling Units	252	23%	77%	58	194	0%	0%	58	194	252
1	Other	Single-Family Detached Housing (210)	119	Dwelling Units	90	25%	75%	23	68	0%	0%	23	68	91
		Project Total a.m. Peak Hour Trips			1,516			820	698			755	663	1,418
Evenir	ng Pea	k Hour	# of	Unit	Trip	%	%	Trips	Trips	Internal	Transit	Net Trips	Net Trips	Total p.m.
Phase	Area	Land Use ¹	Units	Туре	Generation	Entering	Exiting	Entering	Exiting	Capture ²	Reduction	Entering	Exiting	Trips
1	тс	Multifamily Housing (Low-Rise) (220)	400	Dwelling Units	204	63%	37%	129	75	11%	0%	115	67	182
1	тс	Single-Family Detached Housing (210)	60	Dwelling Units	64	63%	37%	40	24	11%	0%	36	21	57
1	тс	General Office Building (710)	622.5	1,000 Sq. Ft. GFA	648	16%	84%	104	544	11%	0%	93	484	577
1	тс	Shopping Center (820)	130	1,000 Sq. Ft. GLA	496	48%	52%	238	258	11%	0%	212	230	442
1	VC-C	Multifamily Housing (Low-Rise) (220)	250	Dwelling Units	134	63%	37%	84	50	12%	0%	74	44	118
1	VC-C	Single-Family Detached Housing (210)	40	Dwelling Units	44	63%	37%	28	16	12%	0%	25	14	39
1	VC-C	General Office Building (710)	16	1,000 Sq. Ft. GFA	20	16%	84%	3	17	12%	0%	3	15	18
1	VC-C	Shopping Center (820)	20	1,000 Sq. Ft. GLA	78	48%	52%	37	41	12%	0%	33	36	69
1	Other	Multifamily Housing (Low-Rise) (220)	573	Dwelling Units	280	63%	37%	176	104	0%	0%	176	104	280
1	Other	Single-Family Detached Housing (210)	119	Dwelling Units	122	63%	37%	77	45	0%	0%	77	45	122
		Project Total p.m. Peak Hour Trips			2,090			916	1,174			844	1,060	1,904

Land Use Code from the Institute of Transportation Engineers (ITE) <u>Trip Generation</u>, 10th Edition, 2017.
 Internal capture rates based on the NCHRP 684 Internal Trip Capture Estimation Tool, which follows ITE methodologies for internal capture

SOURCE: Hales Engineering, October 2019

Land Use Totals			Targets			Phasing and Land Use Pla
Land Uses	#	Unit Type	#	Unit Type	Δ	
Multifamily Housing (Low-Rise) (220)	1,223	Dwelling Units	1,223	Dwelling Units	0	
Single-Family Detached Housing (210)	219	Dwelling Units	219	Dwelling Units	0	May be modified in the MD
General Office Building (710)	638.5	1,000 Sq. Ft. GFA	638.5	1,000 Sq. Ft. GFA	0.0	
Shopping Center (820)	150.0	1,000 Sq. Ft. GLA	150.0	1,000 Sq. Ft. GLA	0.0	CSPs or Project Plans.

NCHRP 684 Internal Trip Capture Estimation Tool											
Project Name:	Olympia Hills		Organization:	Hales Engineering							
Project Location:	Salt Lake County		Performed By:	Josh Gibbons							
Scenario Description:	Scenario Description: Town Center Area		Date:	10/22/2019							
Analysis Year: 2027			Checked By:	Scott Johnson							
Analysis Period:	AM Street Peak Hour	Date:	10/22/2019								

Table 1-A: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)											
Land Line	Developm	ent Data (<i>For In</i>	formation Only)			Estimated Vehicle-Trips ³					
Land Use	ITE LUCs ¹	Quantity	Units		Total	Entering	Exiting				
Office	710	622.5	1,000 sq ft		612	526	86				
Retail	820	130	1,000 sq ft		124	77	47				
Restaurant					0						
Cinema/Entertainment					0						
Residential	210 & 220	460	dwelling units		228	53	175				
Hotel					0						
All Other Land Uses ²					0						
					964	656	308				

Table 2-A: Mode Split and Vehicle Occupancy Estimates											
		Entering Tri	ps		Exiting Trips						
Land Use	Veh. Occ.4	% Transit	% Non-Motorized	ιΓ	Veh. Occ.4	% Transit	% Non-Motorized				
Office	1.06	0%	0%		1.06	0%	0%				
Retail	1.17	0%	0%		1.17	0%	0%				
Restaurant											
Cinema/Entertainment											
Residential	1.13	0%	0%		1.13	0%	0%				
Hotel											
All Other Land Uses ²											

Table 3-A: Average Land Use Interchange Distances (Feet Walking Distance)												
Origin (From)	Destination (To)											
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel						
Office												
Retail												
Restaurant												
Cinema/Entertainment												
Residential												
Hotel												

Table 4-A: Internal Person-Trip Origin-Destination Matrix*												
Origin (From)	Destination (To)											
Oligili (Fiolil)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel						
Office		25	0	0	0	0						
Retail	16		0	0	1	0						
Restaurant	0	0		0	0	0						
Cinema/Entertainment	0	0	0		0	0						
Residential	4	2	0	0		0						
Hotel	0	0	0	0	0							

Table 5-A	: Computatio	ons Summary		Table 6-A: Internal Trip Capture Percentages by Land Use					
	Total	Entering	Exiting	Land Use	Entering Trips	Exiting Trips			
All Person-Trips	1,052	708	344	Office	4%	27%			
Internal Capture Percentage	9%	7%	14%	Retail	30%	31%			
				Restaurant	N/A	N/A			
External Vehicle-Trips ⁵	878	614	264	Cinema/Entertainment	N/A	N/A			
External Transit-Trips ⁶	0	0	0	Residential	2%	3%			
External Non-Motorized Trips ⁶	0	0 0		Hotel	N/A	N/A			

*Indicates computation that has been rounded to the nearest whole number.

	NCHRP 684 Internal Trip Capture Estimation Tool											
Project Name:	Olympia Hills		Organization:	Hales Engineering								
Project Location:	Salt Lake County		Performed By:	Josh Gibbons								
Scenario Description:	Scenario Description: Town Center Area		Date:	10/22/2019								
Analysis Year: 2027			Checked By:	Scott Johnson								
Analysis Period:	PM Street Peak Hour		Date:	10/22/2019								

Table 1-P: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)											
	Developm	ent Data (<i>For In</i>	formation Only)		Estimated Vehicle-Trips ³						
Land Ose	ITE LUCs ¹	Quantity	Units		Total	Entering	Exiting				
Office	710	622.5	1,000 sq ft		648	104	544				
Retail	820	130	1,000 sq ft		496	238	258				
Restaurant					0						
Cinema/Entertainment					0						
Residential	210 & 220	460	dwelling units		268	169	99				
Hotel					0						
All Other Land Uses ²					0						
					1,412	511	901				

Table 2-P: Mode Split and Vehicle Occupancy Estimates											
Land Line		Entering Tri	ps		Exiting Trips						
Land Ose	Veh. Occ.4	% Transit	% Non-Motorized	. [Veh. Occ.4	% Transit	% Non-Motorized				
Office	1.11	0%	0%		1.11	0%	0%				
Retail	1.21	0%	0%		1.21	0%	0%				
Restaurant											
Cinema/Entertainment											
Residential	1.15	0%	0%		1.15	0%	0%				
Hotel											
All Other Land Uses ²											

Table 3-P: Average Land Use Interchange Distances (Feet Walking Distance)											
Origin (From)	Destination (To)										
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel					
Office		2000			2000						
Retail					2000						
Restaurant											
Cinema/Entertainment											
Residential		2000									
Hotel											

Table 4-P: Internal Person-Trip Origin-Destination Matrix*										
	Destination (To)									
Oligin (From)	Office Retail Restaurant Cinema/Entertainment Residentia		Residential	Hotel						
Office		7	0	0	8	0				
Retail	6		0	0	51	0				
Restaurant	0	0		0	0	0				
Cinema/Entertainment	0	0	0		0	0				
Residential	5	9	0	0		0				
Hotel	0	0	0	0	0					

Table 5-P	: Computatio	ons Summary		Table 6-P: Internal Trip Capture Percentages by Land Use			
Total Entering Exiting		Land Use	Entering Trips	Exiting Trips			
All Person-Trips	1,627	597	1,030	Office	10%	2%	
Internal Capture Percentage	11%	14%	8%	Retail	6%	18%	
				Restaurant	N/A	N/A	
External Vehicle-Trips ⁵	1,265	436	829	Cinema/Entertainment	N/A	N/A	
External Transit-Trips ⁶	0	0	0	Residential	30%	12%	
External Non-Motorized Trips ⁶	0	0	0	Hotel	N/A	N/A	

²Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator.

³Enter trips assuming no transit or non-motorized trips (as assumed in ITE *Trip Generation Manual*).

⁴Enter vehicle occupancy assumed in Table 1-P vehicle trips. If vehicle occupancy changes for proposed mixed-use project, manual adjustments must be ⁵Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P.

⁶Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

NCHRP 684 Internal Trip Capture Estimation Tool								
Project Name:	Olympia Hills		Organization:	Hales Engineering				
Project Location:	Salt Lake County		Performed By:	Josh Gibbons				
Scenario Description:	Village Center C Area		Date:	10/22/2019				
Analysis Year:	2027		Checked By:	Scott Johnson				
Analysis Period:	AM Street Peak Hour		Date:	10/22/2019				

	Table 1-A: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)									
Land Lies	Developm	ent Data (For In	formation Only)		Estimated Vehicle-Trips ³					
Land Use	ITE LUCs ¹	Quantity	Units	1	Total	Entering	Exiting			
Office	710	16	1,000 sq ft		42	36	6			
Retail	820	20	1,000 sq ft		20	12	8			
Restaurant					0					
Cinema/Entertainment					0					
Residential	210 & 220	290	dwelling units		149	35	114			
Hotel					0					
All Other Land Uses ²					0					
					211	83	128			

	Table 2-A: Mode Split and Vehicle Occupancy Estimates									
		Entering Tri	ps		Exiting Trips					
Land Use	Veh. Occ.4	% Transit	% Non-Motorized	ιΓ	Veh. Occ. ⁴	% Transit	% Non-Motorized			
Office	1.06	0%	0%		1.06	0%	0%			
Retail	1.17	0%	0%		1.17	0%	0%			
Restaurant										
Cinema/Entertainment										
Residential	1.13	0%	0%	1 🔽	1.13	0%	0%			
Hotel										
All Other Land Uses ²										

Table 3-A: Average Land Use Interchange Distances (Feet Walking Distance)										
Origin (From)	Destination (To)									
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel				
Office										
Retail										
Restaurant										
Cinema/Entertainment										
Residential										
Hotel										

Table 4-A: Internal Person-Trip Origin-Destination Matrix*										
Origin (From)	Destination (To)									
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel				
Office		2	0	0	0	0				
Retail	2		0	0	1	0				
Restaurant	0	0		0	0	0				
Cinema/Entertainment	0	0	0		0	0				
Residential	1	1	0	0		0				
Hotel	0	0	0	0	0					

Table 5-A	: Computatio	ns Summary		Table 6-A: Internal Trip Capture Percentages by Land Use			
	Total	Entering	Exiting	Land Use	Entering Trips	Exiting Trips	
All Person-Trips	236	92	144	Office	8%	33%	
Internal Capture Percentage	6%	8%	5%	Retail	21%	33%	
				Restaurant	N/A	N/A	
External Vehicle-Trips ⁵	198	77	121	Cinema/Entertainment	N/A	N/A	
External Transit-Trips ⁶	0	0	0	Residential	3%	2%	
External Non-Motorized Trips ⁶	0	0	0	Hotel	N/A	N/A	

¹ Land Use Codes (LUCs) from <i>Trip Generation Manual</i> , published by the Institute of Transportation Engineers.
² Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator.
3 Enter trips assuming no transit or non-motorized trips (as assumed in ITE <i>Trip Generation Manual</i>).
⁴ Enter vehicle occupancy assumed in Table 1-A vehicle trips. If vehicle occupancy changes for proposed mixed-use project, manual adjustments must be made to Tables 5-A, 9-A (O and D). Enter transit, non-motorized percentages that will result with proposed mixed-use project complete.
5 Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-A.
⁶ Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

NCHRP 684 Internal Trip Capture Estimation Tool									
Project Name:	Olympia Hills		Organization:	Hales Engineering					
Project Location:	Salt Lake County		Performed By:	Josh Gibbons					
Scenario Description:	Village Center C Area		Date:	10/22/2019					
Analysis Year:	2027		Checked By:	Scott Johnson					
Analysis Period:	PM Street Peak Hour		Date:	10/22/2019					

Table 1-P: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)								
Land Lise	Development Data (For Information Only)				Estimated Vehicle-Trips ³			
Land Ose	ITE LUCs ¹	ITE LUCs ¹ Quantity Units			Total	Entering	Exiting	
Office	710	16	1,000 sq ft		20	3	17	
Retail	820	20	1,000 sq ft		78	37	41	
Restaurant					0			
Cinema/Entertainment					0			
Residential	210 & 220	290	dwelling units		178	112	66	
Hotel					0			
All Other Land Uses ²					0			
					276	152	124	

Table 2-P: Mode Split and Vehicle Occupancy Estimates								
Land Llas		Entering Tri	ips	1	Exiting Trips			
Land Ose	Veh. Occ.4	% Transit	% Non-Motorized	ıΓ	Veh. Occ.4	% Transit	% Non-Motorized	
Office	1.11	0%	0%	1	1.11	0%	0%	
Retail	1.21	0%	0%	1	1.21	0%	0%	
Restaurant				1				
Cinema/Entertainment				1				
Residential	1.15	0%	0%	1	1.15	0%	0%	
Hotel				1				
All Other Land Uses ²				1				

Table 3-P: Average Land Use Interchange Distances (Feet Walking Distance)											
Origin (From)		Destination (To)									
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel					
Office		1000			1000						
Retail					1000						
Restaurant											
Cinema/Entertainment											
Residential		1000									
Hotel											

Table 4-P: Internal Person-Trip Origin-Destination Matrix*										
Origin (From)	Destination (To)									
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel				
Office		3	0	0	0	0				
Retail	1		0	0	12	0				
Restaurant	0	0		0	0	0				
Cinema/Entertainment	0	0	0		0	0				
Residential	1	3	0	0		0				
Hotel	0	0	0	0	0					

Table 5-P	: Computatio	ons Summary	Table 6-P: Internal Trip Capture Percentages by Land Use			
	Total	Entering	Exiting	Land Use	Entering Trips	Exiting Trips
All Person-Trips	322	177	145	Office	67%	16%
Internal Capture Percentage	12%	11%	14%	Retail	13%	26%
				Restaurant	N/A	N/A
External Vehicle-Trips ⁵	243	135	108	Cinema/Entertainment	N/A	N/A
External Transit-Trips ⁶	0	0	0	Residential	9%	5%
External Non-Motorized Trips ⁶	0	0	0	Hotel	N/A	N/A

²Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator.

³Enter trips assuming no transit or non-motorized trips (as assumed in ITE *Trip Generation Manual*).

⁴Enter vehicle occupancy assumed in Table 1-P vehicle trips. If vehicle occupancy changes for proposed mixed-use project, manual adjustments must be ⁵Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P.

⁶Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

				Salt La Trip (ke County Generation	- Olympi - Phase	a Hills Tl 2 (2032)	s						
Weekd	lay Da	ily	# of	Unit	Trip	%	%	Trips	Trips	Internal	Transit	Net Trips	Net Trips	Total Daily
Phase	Area	Land Use ¹	Units	Туре	Generation	Entering	Exiting	Entering	Exiting	Capture ²	Reduction ³	Entering	Exiting	Trips
1&2	TC	Multifamily Housing (Low-Rise) (220)	795	Dwelling Units	5,970	50%	50%	2,985	2,985	0%	2.5%	2,910	2,910	5,820
1&2	TC	Single-Family Detached Housing (210)	119	Dwelling Units	1,222	50%	50%	611	611	0%	2.5%	596	596	1,192
1&2	TC	General Office Building (710)	1272	1,000 Sq. Ft. GFA	12,506	50%	50%	6,253	6,253	0%	2.5%	6,097	6,097	12,194
1&2	TC	Shopping Center (820)	258.8	1,000 Sq. Ft. GLA	9,770	50%	50%	4,885	4,885	0%	2.5%	4,763	4,763	9,526
182	VC-C	Multifamily Housing (Low-Rise) (220)	498	Dwelling Units	3,726	50%	50%	1,863	1,863	0%	2.5%	1,816	1,816	3,632
182		Single-Family Detached Housing (210)	78	1 000 Sa Et CEA	828	50%	50%	414	414	0%	2.5%	404	404	808
18.2	VC-C	Shopping Center (820)	36.3	1,000 Sq. Ft. GLA	1 372	50%	50%	686	686	0%	2.5%	669	669	1 338
1	Other	Multifamily Housing (Low-Rise) (220)	573	Dwelling Units	4.292	50%	50%	2,146	2.146	0%	2.5%	2.092	2.092	4,184
1	Other	Single-Family Detached Housing (210)	119	Dwelling Units	1,222	50%	50%	611	611	0%	2.5%	596	596	1,192
2	VC-A	Multifamily Housing (Low-Rise) (220)	250	Dwelling Units	1,850	50%	50%	925	925	0%	2.5%	902	902	1,804
2	VC-A	Single-Family Detached Housing (210)	50	Dwelling Units	550	50%	50%	275	275	0%	2.5%	268	268	536
2	VC-A	General Office Building (710)	32.8	1,000 Sq. Ft. GFA	360	50%	50%	180	180	0%	2.5%	176	176	352
2	VC-A	Shopping Center (820)	26.9	1,000 Sq. Ft. GLA	1,016	50%	50%	508	508	0%	2.5%	495	495	990
2	Other	Multifamily Housing (Low-Rise) (220)	486	Dwelling Units	3,634	50%	50%	1,817	1,817	0%	2.5%	1,772	1,772	3,544
2	Other	Single-Family Detached Housing (210)	369	Dwelling Units	3,458	50%	50%	1,729	1,729	0%	2.5%	1,686	1,686	3,372
		Project Total Daily Trips			52,128			26,064	26,064			25,414	25,414	50,828
WORNIN	ig Pea	K HOUR	# of	Unit	Trip			Trips	Trips	Internal	Transit	Net Trips	Net Trips	Total a.m.
1 & 2	Area	Multifamily Housing (Low Rise) (220)	705	Type Dwelling Linite	Generation 342	23%	Exiung	Entering 70	263	Capture 0%	2 5%	Entering 70	233	303
18.2	TC	Single Eamly Detached Housing (210)	195	Dwelling Units	00	25%	75%	79	203	9%	2.5%	20	233	80
182	TC	General Office Building (710)	1272	1 000 Sq. Et GEA	1 224	86%	14%	1 053	171	9%	2.5%	934	152	1 086
182	тс	Shopping Center (820)	258.8	1.000 Sq. Ft. GLA	244	62%	38%	151	93	9%	2.5%	134	83	217
1&2	VC-C	Multifamily Housing (Low-Rise) (220)	498	Dwelling Units	220	23%	77%	51	169	5%	2.5%	47	157	204
1&2	VC-C	Single-Family Detached Housing (210)	78	Dwelling Units	62	25%	75%	16	47	5%	2.5%	15	44	59
1&2	VC-C	General Office Building (710)	31.9	1,000 Sq. Ft. GFA	58	86%	14%	50	8	5%	2.5%	46	7	53
1&2	VC-C	Shopping Center (820)	36.3	1,000 Sq. Ft. GLA	36	62%	38%	22	14	5%	2.5%	20	13	33
1	Other	Multifamily Housing (Low-Rise) (220)	573	Dwelling Units	252	23%	77%	58	194	0%	2.5%	57	189	246
1	Other	Single-Family Detached Housing (210)	119	Dwelling Units	90	25%	75%	23	68	0%	2.5%	22	66	88
2	VC-A	Multifamily Housing (Low-Rise) (220)	250	Dwelling Units	114	23%	77%	26	88	6%	2.5%	24	81	105
2	VC-A	Single-Family Detached Housing (210)	50	Dwelling Units	42	25%	75%	11	32	6%	2.5%	10	29	39
2	VC-A	General Office Building (710)	32.8	1,000 Sq. Ft. GFA	58	80%	14%	50	8	6%	2.5%	40	/ 0	53
2	Other	Multifamily Housing (Low-Rise) (220)	20.9	Dwelling Units	20	23%	30% 77%	50	166	0%	2.5%	15	9	24
2	Other	Single-Eamily Detached Housing (210)	369	Dwelling Units	268	25%	75%	67	201	0%	2.5%	65	196	261
-	0 1101	Project Total a.m. Peak Hour Trips	000	Diffoling office	3,342	2070		1,746	1,600	0,0	2.070	1,574	1,488	3,062
Evenin	ια Pea	k Hour	# of	Unit	Trip	%	%	Trips	Trips	Internal	Transit	Net Trips	Net Trips	Total p.m.
Phase	Area	Land Use ¹	Units	Туре	Generation	Entering	Exiting	Entering	Exiting	Capture ²	Reduction ³	Entering	Exiting	Trips
1&2	TC	Multifamily Housing (Low-Rise) (220)	795	Dwelling Units	374	63%	37%	236	138	11%	2.5%	205	120	325
1&2	TC	Single-Family Detached Housing (210)	119	Dwelling Units	122	63%	37%	77	45	11%	2.5%	67	39	106
1&2	TC	General Office Building (710)	1272	1,000 Sq. Ft. GFA	1,276	16%	84%	204	1,072	11%	2.5%	177	930	1,107
1&2	TC	Shopping Center (820)	258.8	1,000 Sq. Ft. GLA	988	48%	52%	474	514	11%	2.5%	411	446	857
1&2	VC-C	Multifamily Housing (Low-Rise) (220)	498	Dwelling Units	248	63%	37%	156	92	13%	2.5%	132	78	210
1&2	VC-C	Single-Family Detached Housing (210)	78	Dwelling Units	82	63%	37%	52	30	13%	2.5%	44	25	69
18.2		Shopping Center (820)	36.3	1,000 Sq. Ft. GFA	40	10%	64% 52%	67	34 73	13%	2.5%	5 57	29	34
1 04 2	Other	Multifamily Housing (Low-Rise) (220)	573	Dwelling Units	280	40% 63%	37%	176	104	0%	2.5%	172	101	273
1	Other	Single-Family Detached Housing (220)	119	Dwelling Units	122	63%	37%	77	45	0%	2.5%	75	44	119
2	VC-A	Multifamily Housing (Low-Rise) (220)	250	Dwelling Units	134	63%	37%	84	50	15%	2.5%	70	41	111
2	VC-A	Single-Family Detached Housing (210)	50	Dwelling Units	54	63%	37%	34	20	15%	2.5%	28	17	45
2	VC-A	General Office Building (710)	32.8	1,000 Sq. Ft. GFA	40	16%	84%	6	34	15%	2.5%	5	28	33
2	VC-A	Shopping Center (820)	26.9	1,000 Sq. Ft. GLA	104	48%	52%	50	54	15%	2.5%	41	45	86
2	Other	Multifamily Housing (Low-Rise) (220)	486	Dwelling Units	242	63%	37%	152	90	0%	2.5%	148	88	236
2	Other	Single-Family Detached Housing (210)	369	Dwelling Units	356	63%	37%	224	132	0%	2.5%	218	129	347
		Project Total p.m. Peak Hour Trips			4,602			2,075	2,527			1,855	2,222	4,077

Land Use Code from the Institute of Transportation Engineers (ITE) <u>Tran Generation</u>, 10th Edition, 2017.
 Internal capture rates based on the NCHR 684 Internal Trip Capture Estimation Tool, which follows ITE methodologies for internal capture.
 Transit reduction of 2.5% based on the transit ridership of comparable nearby Riverton City, based on 2017 American Community Survey estimates. Assumes bus-only transit and no light-rail.

Δ 0 0.0 0.0

Land Use Totals			Targets	
Land Uses	#	Unit Type	#	Unit Type
Multifamily Housing (Low-Rise) (220)	2,602	Dwelling Units	2,602	Dwelling Units
Single-Family Detached Housing (210)	735	Dwelling Units	735	Dwelling Units
General Office Building (710)	1,336.7	1,000 Sq. Ft. GFA	1,336.7	1,000 Sq. Ft. GFA
Shopping Center (820)	322.0	1,000 Sq. Ft. GLA	322.0	1,000 Sq. Ft. GLA

Phasing and Land Use Plans
are CONCEPT ONLY
May be modified in the MDA,
CSPs or Project Plans.

NCHRP 684 Internal Trip Capture Estimation Tool									
Project Name:	Olympia Hills		Organization:	Hales Engineering					
Project Location:	Salt Lake County		Performed By:	Josh Gibbons					
Scenario Description:	Town Center Area		Date:	10/22/2019					
Analysis Year:	2032		Checked By:	Scott Johnson					
Analysis Period:	AM Street Peak Hour		Date:	10/22/2019					

Table 1-A: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)									
Land Lise	Developm	ent Data (<i>For In</i>	formation Only)		Estimated Vehicle-Trips ³				
Lanu Ose	ITE LUCs ¹	Quantity	Units		Total	Entering	Exiting		
Office	710	1,272	1,000 sq ft		1,224	1,053	171		
Retail	820	258.8	1,000 sq ft		244	151	93		
Restaurant					0				
Cinema/Entertainment					0				
Residential	210 & 220	914	dwelling units		433	102	331		
Hotel					0				
All Other Land Uses ²					0				
					1,901	1,306	595		

	Table 2-A: Mode Split and Vehicle Occupancy Estimates									
Land Use		Entering Tri	ps		Exiting Trips					
	Veh. Occ.4	% Transit	% Non-Motorized	í	Veh. Occ. ⁴	% Transit	% Non-Motorized			
Office	1.06	2.5%	0%	i I	1.06	2.5%	0%			
Retail	1.17	2.5%	0%	i [1.17	2.5%	0%			
Restaurant				i [
Cinema/Entertainment				i [
Residential	1.13	2.5%	0%	i I	1.13	2.5%	0%			
Hotel				i [
All Other Land Uses ²				i l						

Table 3-A: Average Land Use Interchange Distances (Feet Walking Distance)										
Origin (From)		Destination (To)								
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel				
Office										
Retail										
Restaurant										
Cinema/Entertainment										
Residential										
Hotel										

Table 4-A: Internal Person-Trip Origin-Destination Matrix*										
Origin (From)	Destination (To)									
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel				
Office		51	0	0	0	0				
Retail	32		0	0	2	0				
Restaurant	0	0		0	0	0				
Cinema/Entertainment	0	0	0		0	0				
Residential	7	4	0	0		0				
Hotel	0	0	0	0	0					

Table 5-A	: Computatio	ns Summary		Table 6-A: Internal Trip Capture Percentages by Land Use			
	Total	Entering	Exiting	Land Use	Entering Trips	Exiting Trips	
All Person-Trips	2,072	1,408	664	Office	3%	28%	
Internal Capture Percentage	9%	7%	14%	Retail	31%	31%	
				Restaurant	N/A	N/A	
External Vehicle-Trips ⁵	1,685	1,190	495	Cinema/Entertainment	N/A	N/A	
External Transit-Trips ⁶	47	33	14	Residential	2%	3%	
External Non-Motorized Trips ⁶	0	0	0	Hotel	N/A	N/A	

¹Land Use Codes (LUCs) from *Trip Generation Manual*, published by the Institute of Transportation Engineers. ²Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator.

³Enter trips assuming no transit or non-motorized trips (as assumed in ITE *Trip Generation Manual*).

⁴Enter vehicle occupancy assumed in Table 1-A vehicle trips. If vehicle occupancy changes for proposed mixed-use project, manual adjustments must be made to Tables 5-A, 9-A (O and D). Enter transit, non-motorized percentages that will result with proposed mixed-use project complete.

⁵Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-A

⁶Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

NCHRP 684 Internal Trip Capture Estimation Tool									
Project Name:	Olympia Hills		Organization:	Hales Engineering					
Project Location:	Salt Lake County		Performed By:	Josh Gibbons					
Scenario Description:	Town Center Area		Date:	10/22/2019					
Analysis Year:	2032		Checked By:	Scott Johnson					
Analysis Period:	PM Street Peak Hour		Date:	10/22/2019					

Table 1-P: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)								
	Development Data (For Information Only)				Estimated Vehicle-Trips ³			
Land Ose	ITE LUCs ¹	Quantity	Units		Total	Entering	Exiting	
Office	710	1,272	1,000 sq ft		1,276	204	1,072	
Retail	820	258.8	1,000 sq ft		988	474	514	
Restaurant					0			
Cinema/Entertainment					0			
Residential	210 & 220	914	dwelling units		496	313	183	
Hotel					0			
All Other Land Uses ²					0			
					2,760	991	1,769	

Table 2-P: Mode Split and Vehicle Occupancy Estimates									
Land Use		Entering Tri	ps	1		Exiting Trips			
	Veh. Occ.4	% Transit	% Non-Motorized	ıΓ	Veh. Occ.4	% Transit	% Non-Motorized		
Office	1.11	2.5%	0%	1	1.11	2.5%	0%		
Retail	1.21	2.5%	0%	1	1.21	2.5%	0%		
Restaurant				1					
Cinema/Entertainment				1					
Residential	1.15	2.5%	0%	1	1.15	2.5%	0%		
Hotel				1					
All Other Land Uses ²				1					

Table 3-P: Average Land Use Interchange Distances (Feet Walking Distance)									
Origin (From)		Destination (To)							
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel			
Office		2000			2000				
Retail					2000				
Restaurant									
Cinema/Entertainment									
Residential		2000							
Hotel									

Table 4-P: Internal Person-Trip Origin-Destination Matrix*										
Origin (From)	Destination (To)									
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel				
Office		15	0	0	14	0				
Retail	12		0	0	102	0				
Restaurant	0	0		0	0	0				
Cinema/Entertainment	0	0	0		0	0				
Residential	8	18	0	0		0				
Hotel	0	0	0	0	0					

Table 5-P: Computations Summary				Table 6-P: Internal Trip Capture Percentages by Land Use			
Total Entering Exiting		Land Use	Entering Trips	Exiting Trips			
All Person-Trips	3,182	1,160	2,022	Office	9%	2%	
Internal Capture Percentage	11%	15%	8%	Retail	6%	18%	
				Restaurant	N/A	N/A	
External Vehicle-Trips ⁵	2,409	824	1,585	Cinema/Entertainment	N/A	N/A	
External Transit-Trips ⁶	72	25	47	Residential	32%	12%	
External Non-Motorized Trips ⁶	0	0	0	Hotel	N/A	N/A	

²Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator.

³Enter trips assuming no transit or non-motorized trips (as assumed in ITE *Trip Generation Manual*).

⁴Enter vehicle occupancy assumed in Table 1-P vehicle trips. If vehicle occupancy changes for proposed mixed-use project, manual adjustments must be ⁵Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P.

⁶Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

NCHRP 684 Internal Trip Capture Estimation Tool									
Project Name:	Olympia Hills		Organization:	Hales Engineering					
Project Location:	Salt Lake County		Performed By:	Josh Gibbons					
Scenario Description:	Village Center C Area		Date:	10/22/2019					
Analysis Year:	2032		Checked By:	Scott Johnson					
Analysis Period:	AM Street Peak Hour		Date:	10/22/2019					

Table 1-A: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)								
Land Lies	Development Data (For Information Only)				Estimated Vehicle-Trips ³			
Land Use	ITE LUCs ¹	Quantity	Units		Total	Entering	Exiting	
Office	710	31.9	1,000 sq ft		58	50	8	
Retail	820	36.3	1,000 sq ft		36	22	14	
Restaurant					0			
Cinema/Entertainment					0			
Residential	210 & 220	576	dwelling units		283	67	216	
Hotel					0			
All Other Land Uses ²					0			
					377	139	238	

				_							
	Table 2-A: Mode Split and Vehicle Occupancy Estimates										
Landling		Entering Tri	ps			Exiting Trips					
Land Use	Veh. Occ.4	% Transit	% Non-Motorized		Veh. Occ.4	% Transit	% Non-Motorized				
Office	1.06	2.5%	0%	1	1.06	2.5%	0%				
Retail	1.17	2.5%	0%	1	1.17	2.5%	0%				
Restaurant				1							
Cinema/Entertainment				1							
Residential	1.13	2.5%	0%	1	1.13	2.5%	0%				
Hotel				1							
All Other Land Uses ²				. 🗌							

Table 3-A: Average Land Use Interchange Distances (Feet Walking Distance)									
Origin (From)		Destination (To)							
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel			
Office									
Retail									
Restaurant									
Cinema/Entertainment									
Residential									
Hotel									

Table 4-A: Internal Person-Trip Origin-Destination Matrix*										
Origin (From)	Destination (To)									
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel				
Office		2	0	0	0	0				
Retail	2		0	0	2	0				
Restaurant	0	0		0	0	0				
Cinema/Entertainment	0	0	0		0	0				
Residential	2	2	0	0		0				
Hotel	0	0	0	0	0					

Table 5-A: Computations Summary				Table 6-A: Internal Trip Capture Percentages by Land Use			
	Total	Entering	Exiting	Land Use	Entering Trips	Exiting Trips	
All Person-Trips	423	155	268	Office	8%	25%	
Internal Capture Percentage	5%	6%	4%	Retail	15%	25%	
				Restaurant	N/A	N/A	
External Vehicle-Trips ⁵	350	127	223	Cinema/Entertainment	N/A	N/A	
External Transit-Trips ⁶	10	4	6	Residential	3%	2%	
External Non-Motorized Trips ⁶	0	0	0	Hotel	N/A	N/A	

⁶Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

NCHRP 684 Internal Trip Capture Estimation Tool									
Project Name:	Olympia Hills		Organization:	Hales Engineering					
Project Location:	Salt Lake County		Performed By:	Josh Gibbons					
Scenario Description:	Village Center C Area		Date:	10/22/2019					
Analysis Year:	2032		Checked By:	Scott Johnson					
Analysis Period:	PM Street Peak Hour		Date:	10/22/2019					

Table 1-P: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)								
	Development Data (For Information Only)					Estimated Vehicle-Trips ³		
Land Ose	ITE LUCs ¹	Quantity	Units		Total	Entering	Exiting	
Office	710	31.9	1,000 sq ft		40	6	34	
Retail	820	36.3	1,000 sq ft		140	67	73	
Restaurant					0			
Cinema/Entertainment					0			
Residential	210 & 220	576	dwelling units		330	208	122	
Hotel					0			
All Other Land Uses ²					0			
					510	281	229	

Table 2-P: Mode Split and Vehicle Occupancy Estimates									
Land Lies		Entering Tri	ps			Exiting Trips			
Land Use	Veh. Occ.4	% Transit	% Non-Motorized		Veh. Occ.4	% Transit	% Non-Motorized		
Office	1.11	2.5%	0%	. [1.11	2.5%	0%		
Retail	1.21	2.5%	0%	. [1.21	2.5%	0%		
Restaurant				. [
Cinema/Entertainment				. [
Residential	1.15	2.5%	0%	. [1.15	2.5%	0%		
Hotel									
All Other Land Uses ²				. 7					

Table 3-P: Average Land Use Interchange Distances (Feet Walking Distance)									
Origin (From)		Destination (To)							
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel			
Office		1000			1000				
Retail					1000				
Restaurant									
Cinema/Entertainment									
Residential		1000							
Hotel									

Table 4-P: Internal Person-Trip Origin-Destination Matrix*										
Origin (From)	Destination (To)									
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel				
Office		5	0	0	1	0				
Retail	2		0	0	21	0				
Restaurant	0	0		0	0	0				
Cinema/Entertainment	0	0	0		0	0				
Residential	4	6	0	0		0				
Hotel	0	0	0	0	0					

Table 5-P	Table 5-P: Computations Summary				Table 6-P: Internal Trip Capture Percentages by Land Use		
	Total	Entering	Exiting	Land Use	Entering Trips	Exiting	
All Person-Trips	593	327	266	Office	86%	16%	
Internal Capture Percentage	13%	12%	15%	Retail	14%	26%	
				Restaurant	N/A	N/A	
External Vehicle-Trips ⁵	431	241	190	Cinema/Entertainment	N/A	N/A	
External Transit-Trips ⁶	13	7	6	Residential	9%	7%	
External Non-Motorized Trips ⁶	0	0	0	Hotel	N/A	N/A	

²Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator.

³Enter trips assuming no transit or non-motorized trips (as assumed in ITE *Trip Generation Manual*).

⁴Enter vehicle occupancy assumed in Table 1-P vehicle trips. If vehicle occupancy changes for proposed mixed-use project, manual adjustments must be ⁵Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P.

⁶Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

NCHRP 684 Internal Trip Capture Estimation Tool									
Project Name:	Olympia Hills		Organization:	Hales Engineering					
Project Location:	Salt Lake County		Performed By:	Josh Gibbons					
Scenario Description:	Village Center A Area		Date:	10/22/2019					
Analysis Year:	2032		Checked By:	Scott Johnson					
Analysis Period:	AM Street Peak Hour		Date:	10/22/2019					

	Table '	1-A: Base Vehi	cle-Trip Generation	n Es	timates (Single-Use Site	Estimate)		
l and l lse	Development Data (For Information Only)				Estimated Vehicle-Trips ³			
Land Ose	ITE LUCs ¹	Quantity	Units		Total	Entering	Exiting	
Office	710	32.8	1,000 sq ft		58	50	8	
Retail	820	26.9	1,000 sq ft		26	16	10	
Restaurant					0			
Cinema/Entertainment					0			
Residential	210 & 220	300	dwelling units		157	37	120	
Hotel					0			
All Other Land Uses ²					0			
					241	103	138	

	Table 2-A: Mode Split and Vehicle Occupancy Estimates									
Land Use		Entering Trip	os		Exiting Trips					
	Veh. Occ.4	% Transit	% Non-Motorized		Veh. Occ. ⁴	% Transit	% Non-Motorized			
Office	1.06	2.5%	0%		1.06	2.5%	0%			
Retail	1.17	2.5%	0%		1.17	2.5%	0%			
Restaurant										
Cinema/Entertainment										
Residential	1.13	2.5%	0%		1.13	2.5%	0%			
Hotel										
All Other Land Uses ²										

Table 3-A: Average Land Use Interchange Distances (Feet Walking Distance)									
Origin (From)		Destination (To)							
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel			
Office									
Retail									
Restaurant									
Cinema/Entertainment									
Residential									
Hotel									

Table 4-A: Internal Person-Trip Origin-Destination Matrix*										
Origin (From)	Destination (To)									
Ongin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel				
Office		2	0	0	0	0				
Retail	2		0	0	1	0				
Restaurant	0	0		0	0	0				
Cinema/Entertainment	0	0	0		0	0				
Residential	2	1	0	0		0				
Hotel	0	0	0	0	0					

Table 5-A: Computations Summary				Table 6-A: Internal Trip Capture Percentages by Land Use		
	Total	Entering	Exiting	Land Use	Entering Trips	Exiting Trips
All Person-Trips	270	114	156	Office	8%	25%
Internal Capture Percentage	6%	7%	5%	Retail	16%	25%
				Restaurant	N/A	N/A
External Vehicle-Trips ⁵	223	94	129	Cinema/Entertainment	N/A	N/A
External Transit-Trips ⁶	5	2	3	Residential	2%	2%
External Non-Motorized Trips ⁶	0	0	0	Hotel	N/A	N/A

¹ Land Use Codes (LUCs) from <i>Trip Generation Manual</i> , published by the Institute of Transportation Engineers.
² Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator.
³ Enter trips assuming no transit or non-motorized trips (as assumed in ITE <i>Trip Generation Manual</i>).
⁴ Enter vehicle occupancy assumed in Table 1-A vehicle trips. If vehicle occupancy changes for proposed mixed-use project, manual adjustments must be made to Tables 5-A, 9-A (O and D). Enter transit, non-motorized percentages that will result with proposed mixed-use project complete.
⁵ Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-A.
⁶ Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

NCHRP 684 Internal Trip Capture Estimation Tool										
Project Name:	Olympia Hills		Organization:	Hales Engineering						
Project Location:	Salt Lake County		Performed By:	Josh Gibbons						
Scenario Description:	Village Center A Area		Date:	10/22/2019						
Analysis Year: 2032			Checked By:	Scott Johnson						
Analysis Period:	PM Street Peak Hour		Date:	10/22/2019						

Table 1-P: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)										
	Developm	ent Data (<i>For In</i>	formation Only)		Estimated Vehicle-Trips ³					
Land Ose	ITE LUCs ¹	Quantity	Units		Total	Entering	Exiting			
Office	710	32.8	1,000 sq ft		40	6	34			
Retail	820	26.9	1,000 sq ft		104	50	54			
Restaurant					0					
Cinema/Entertainment					0					
Residential	210 & 220	300	dwelling units		188	118	70			
Hotel					0					
All Other Land Uses ²					0					
					332	174	158			

Table 2-P: Mode Split and Vehicle Occupancy Estimates										
		Entering Tri	ps	1	Exiting Trips					
Land Ose	Veh. Occ.4	% Transit	% Non-Motorized	ıΓ	Veh. Occ.4	% Transit	% Non-Motorized			
Office	1.11	2.5%	0%	1	1.11	2.5%	0%			
Retail	1.21	2.5%	0%	1	1.21	2.5%	0%			
Restaurant				1						
Cinema/Entertainment				1						
Residential	1.15	2.5%	0%	1	1.15	2.5%	0%			
Hotel				1						
All Other Land Uses ²				1						

Table 3-P: Average Land Use Interchange Distances (Feet Walking Distance)												
Origin (From)		Destination (To)										
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel						
Office		1000			1000							
Retail					1000							
Restaurant												
Cinema/Entertainment												
Residential		1000										
Hotel												

Table 4-P: Internal Person-Trip Origin-Destination Matrix*											
Origin (From)	Destination (To)										
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel					
Office		4	0	0	1	0					
Retail	1		0	0	16	0					
Restaurant	0	0		0	0	0					
Cinema/Entertainment	0	0	0		0	0					
Residential	3	5	0	0		0					
Hotel	0	0	0	0	0						

Table 5-P	: Computatio	ons Summary		Table 6-P: Internal Trip Capture Percentages by Land U				
	Total	Entering	Exiting	Land Use	Entering Trips	Exiting T		
All Person-Trips	388	204	184	Office	57%	13%		
Internal Capture Percentage	15%	15%	16%	Retail	15%	26%		
				Restaurant	N/A	N/A		
External Vehicle-Trips ⁵	276	146	130	Cinema/Entertainment	N/A	N/A		
External Transit-Trips ⁶	8	4	4	Residential	13%	10%		
External Non-Motorized Trips ⁶	0	0	0	Hotel	N/A	N/A		

²Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator.

³Enter trips assuming no transit or non-motorized trips (as assumed in ITE *Trip Generation Manual*).

⁴Enter vehicle occupancy assumed in Table 1-P vehicle trips. If vehicle occupancy changes for proposed mixed-use project, manual adjustments must be ⁵Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P.

⁶Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

	Salt Lake County - Olympia Hills TIS Trip Generation - Phase 3 (2037)													
Weekd	ay Dai	ily _	# of	Unit	Trip	%	%	Trips	Trips	Internal	Transit	Net Trips	Net Trips	Total Daily
Phase	Area	Land Use'	Units	Type	Generation	Entering	Exiting	Entering	Exiting	Capture ²	Reduction [°]	Entering	Exiting	Trips
1&2	TC	Single-Family Detached Housing (210)	119	Dwelling Units	1.222	50%	50%	611	2,303	0%	2.5%	596	596	1.192
1&2	TC	General Office Building (710)	1272	1,000 Sq. Ft. GFA	12,506	50%	50%	6,253	6,253	0%	2.5%	6,097	6,097	12,194
1&2	TC	Shopping Center (820)	258.8	1,000 Sq. Ft. GLA	9,770	50%	50%	4,885	4,885	0%	2.5%	4,763	4,763	9,526
1&2	VC-C	Multifamily Housing (Low-Rise) (220)	498	Dwelling Units	3,726	50%	50%	1,863	1,863	0%	2.5%	1,816	1,816	3,632
1&2	VC-C	Single-Family Detached Housing (210)	78	Dwelling Units	828	50%	50%	414	414	0%	2.5%	404	404	808 344
182	VC-C	Shopping Center (820)	36.3	1.000 Sq. Ft. GLA	1.372	50%	50%	686	686	0%	2.5%	669	669	1.338
1	Other	Multifamily Housing (Low-Rise) (220)	573	Dwelling Units	4,292	50%	50%	2,146	2,146	0%	2.5%	2,092	2,092	4,184
1	Other	Single-Family Detached Housing (210)	119	Dwelling Units	1,222	50%	50%	611	611	0%	2.5%	596	596	1,192
2&3	VC-A	Multifamily Housing (Low-Rise) (220)	570	Dwelling Units	4,270	50%	50%	2,135	2,135	0%	2.5%	2,082	2,082	4,164
2&3	VC-A	Single-Family Detached Housing (210)	60	Dwelling Units	650	50%	50%	325	325	0%	2.5%	317	317	634
283	VC-A	General Office Building (710)	90.1	1,000 Sq. Ft. GFA	960	50%	50%	480	480	0%	2.5%	468	468	936
2013	Other	Multifamily Housing (Low-Rise) (220)	43.4	Dwelling Units	3 634	50%	50%	1 817	1 817	0%	2.5%	1 772	1 772	3 544
2	Other	Single-Family Detached Housing (210)	369	Dwelling Units	3,458	50%	50%	1,729	1,729	0%	2.5%	1,686	1,686	3,372
3	VC-B	Multifamily Housing (Low-Rise) (220)	900	Dwelling Units	6,764	50%	50%	3,382	3,382	0%	2.5%	3,297	3,297	6,594
3	VC-B	Single-Family Detached Housing (210)	72	Dwelling Units	770	50%	50%	385	385	0%	2.5%	375	375	750
3	VC-B	Shopping Center (820)	40.5	1,000 Sq. Ft. GLA	1,530	50%	50%	765	765	0%	2.5%	746	746	1,492
3	Other	Multifamily Housing (Low-Rise) (220)	449	Dwelling Units	3,354	50%	50%	1,677	1,677	0%	2.5%	1,635	1,635	3,270
3	Other	Project Total Daily Trips	43	Dweiling Units	480 68.844	50%	50%	240 34.422	240 34.422	0%	2.5%	234 33.563	234 33.563	400 67.126
Mornin	ig Pea	k Hour	# of	Unit	Trin	%	%	Trins	Trips	Internal	Transit	Net Trins	Net Trips	Total a m
Phase	Area	Land Use ¹	Units	Туре	Generation	Entering	Exiting	Entering	Exiting	Capture ²	Reduction ³	Entering	Exiting	Trips
1&2	TC	Multifamily Housing (Low-Rise) (220)	795	Dwelling Units	342	23%	77%	79	263	9%	2.5%	70	233	303
1&2	TC	Single-Family Detached Housing (210)	119	Dwelling Units	90	25%	75%	23	68	9%	2.5%	20	60	80
1&2	TC	General Office Building (710)	1272	1,000 Sq. Ft. GFA	1,224	86%	14%	1,053	171	9%	2.5%	934	152	1,086
182	VCC	Shopping Center (820) Multifemily Housing (Low Rise) (220)	258.8	1,000 Sq. Ft. GLA	244	62%	38%	151	93	9%	2.5%	134	83	217
1&2	VC-C	Single-Family Detached Housing (210)	490	Dwelling Units	62	25%	75%	16	47	5%	2.5%	47	44	204 59
1&2	VC-C	General Office Building (710)	31.9	1,000 Sq. Ft. GFA	58	86%	14%	50	8	5%	2.5%	46	7	53
1&2	VC-C	Shopping Center (820)	36.3	1,000 Sq. Ft. GLA	36	62%	38%	22	14	5%	2.5%	20	13	33
1	Other	Multifamily Housing (Low-Rise) (220)	573	Dwelling Units	252	23%	77%	58	194	0%	2.5%	57	189	246
1	Other	Single-Family Detached Housing (210)	119	Dwelling Units	90	25%	75%	23	68	0%	2.5%	22	66	88
283	VC-A	Multifamily Housing (Low-Rise) (220) Single Family Detached Housing (210)	570	Dwelling Units	250	23%	77%	58	193	7%	2.5%	53	1/5	228
283	VC-A	General Office Building (710)	90.1	1.000 Sq. Ft. GFA	112	86%	14%	96	30 16	7%	2.5%	87	15	102
2&3	VC-A	Shopping Center (820)	45.4	1,000 Sq. Ft. GLA	44	62%	38%	27	17	7%	2.5%	24	15	39
2	Other	Multifamily Housing (Low-Rise) (220)	486	Dwelling Units	216	23%	77%	50	166	0%	2.5%	49	162	211
2	Other	Single-Family Detached Housing (210)	369	Dwelling Units	268	25%	75%	67	201	0%	2.5%	65	196	261
3	VC-B	Multifamily Housing (Low-Rise) (220)	900	Dwelling Units	386	23%	77%	89	297	2%	2.5%	85	284	369
3	VC-B	Single-Family Detached Housing (210)	72 40 E	Dwelling Units	56	25%	75%	14	42	2%	2.5%	13	40	53
3	Other	Multifamily Housing (Low-Rise) (220)	40.5	Dwelling Units	200	23%	77%	25 46	154	2%	2.5%	24 45	14	195
3	Other	Single-Family Detached Housing (210)	43	Dwelling Units	36	25%	75%	9	27	0%	2.5%	9	26	35
		Project Total a.m. Peak Hour Trips		5	4,274			2,019	2,259			1,830	2,114	3,944
Evenin	ig Pea	k Hour	# of	Unit				Trips	Trips	Internal	Transit	Net Trips	Net Trips	Total p.m.
Phase	Area	Land Use ¹	Units	Туре	Generation	Entering	Exiting	Entering	Exiting	Capture ²	Reduction ³	Entering	Exiting	Trips
1&2	TC	Multitamily Housing (Low-Rise) (220)	795	Dwelling Units	374	63%	37%	236	138	11%	2.5%	205	120	325
1&2 1&2	TC	General Office Building (210)	1272	1.000 Sc Ft GFA	1.276	16%	37% 84%	204	40 1.072	11%	2.5%	177	39 930	1.107
1&2	TC	Shopping Center (820)	258.8	1,000 Sq. Ft. GLA	988	48%	52%	474	514	11%	2.5%	411	446	857
1 & 2	VC-C	Multifamily Housing (Low-Rise) (220)	498	Dwelling Units	248	63%	37%	156	92	13%	2.5%	132	78	210
1&2	VC-C	Single-Family Detached Housing (210)	78	Dwelling Units	82	63%	37%	52	30	13%	2.5%	44	25	69
1&2	VC-C	General Office Building (710)	31.9	1,000 Sq. Ft. GFA	40	16%	84%	6	34	13%	2.5%	5	29	34
1&2 1	VC-C	Snopping Center (820) Multifamily Housing (Law Pice) (220)	36.3	1,000 Sq. Ft. GLA	140	48%	52%	67 179	/3 104	13%	2.5%	57	62 101	119 272
1	Other	Single-Family Detached Housing (210)	110	Dwelling Units	122	63%	37%	77	45	0%	2.5%	75	44	119
2&3	VC-A	Multifamily Housing (Low-Rise) (220)	570	Dwelling Units	278	63%	37%	175	103	11%	2.5%	152	89	241
2&3	VC-A	Single-Family Detached Housing (210)	60	Dwelling Units	64	63%	37%	40	24	11%	2.5%	35	21	56
2&3	VC-A	General Office Building (710)	90.1	1,000 Sq. Ft. GFA	104	16%	84%	17	87	11%	2.5%	15	75	90
2&3	VC-A	Shopping Center (820)	45.4	1,000 Sq. Ft. GLA	174	48%	52%	84	90	11%	2.5%	73	78	151
2	Other	Multifamily Housing (Low-Rise) (220)	486	Dwelling Units	242	63%	37%	152	90	0%	2.5%	148	88	236
2	Uther	Single-Family Detached Housing (210) Multifamily Housing (Low-Rise) (220)	369	Dwelling Units	356	63%	37% 37%	224	132	0% 7%	2.5%	218	129	347 379
3	VC-B	Single-Family Detached Housing (210)	72	Dwelling Units	76	63%	37%	48	28	7%	2.5%	44	25	69
3	VC-B	Shopping Center (820)	40.5	1,000 Sq. Ft. GLA	156	48%	52%	75	81	7%	2.5%	68	73	141
3	Other	Multifamily Housing (Low-Rise) (220)	449	Dwelling Units	226	63%	37%	142	84	0%	2.5%	138	82	220
3	Other	Single-Family Detached Housing (210)	43	Dwelling Units	46	63%	37%	29	17	0%	2.5%	28	17	45
1 Jandth	no Codo-f	Project I otal p.m. Peak Hour Trips) Trin Com	eration 10th Edition 00	5,812			2,/74	3,038	_		2,502	2,692	5,194
T. Land Us	se code l	ion memorialitie of mansponation Engineers (ITE	-) - тир таел	, Toun Edition,20"	IT .									

nal capture rates based on the NCHRP 684 Internal Trip Capture Estimation Tool, which follows ITE methodologies for internal capture. sit reduction of 2.5% based on the transit ridership of comparable nearby Riverton City, based on 2017 American Community Survey estimates. Assumes bus-only transit and no light-rail

Land Use Totals			Targets		
Land Uses	#	Unit Type	°#	Unit Type	Δ
Multifamily Housing (Low-Rise) (220)	4,271	Dwelling Units	4,271	Dwelling Units	0
Single-Family Detached Housing (210)	860	Dwelling Units	860	Dwelling Units	0
General Office Building (710)	1,394.0	1,000 Sq. Ft. GFA	1,394.0	1,000 Sq. Ft. GFA	0.0
Shopping Center (820)	381.0	1,000 Sq. Ft. GLA	381.0	1,000 Sq. Ft. GLA	0.0

Phasing and Land Use Plans are CONCEPT ONLY May be modified in the MDA, CSPs or Project Plans.

NCHRP 684 Internal Trip Capture Estimation Tool										
Project Name:	Olympia Hills		Organization:	Hales Engineering						
Project Location:	Salt Lake County		Performed By:	Josh Gibbons						
Scenario Description:	Village Center A Area		Date:	10/22/2019						
Analysis Year:	2037		Checked By:	Scott Johnson						
Analysis Period:	AM Street Peak Hour		Date:	10/22/2019						

Table 1-A: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)										
Land Line	Developm	ent Data (<i>For In</i>	formation Only)			Estimated Vehicle-Trips ³				
Land Use	ITE LUCs ¹	Quantity	Units		Total	Entering	Exiting			
Office	710	90.1	1,000 sq ft		112	96	16			
Retail	820	45.4	1,000 sq ft		44	27	17			
Restaurant					0					
Cinema/Entertainment					0					
Residential	210 & 220	630	dwelling units		299	70	229			
Hotel					0					
All Other Land Uses ²					0					
					455	193	262			

Table 2-A: Mode Split and Vehicle Occupancy Estimates										
Land Lies		Entering Trip	os		Exiting Trips					
Land Use	Veh. Occ.4	% Transit	% Non-Motorized		Veh. Occ. ⁴	% Transit	% Non-Motorized			
Office	1.06	2.5%	0%		1.06	2.5%	0%			
Retail	1.17	2.5%	0%		1.17	2.5%	0%			
Restaurant										
Cinema/Entertainment										
Residential	1.13	2.5%	0%		1.13	2.5%	0%			
Hotel										
All Other Land Uses ²										

Table 3-A: Average Land Use Interchange Distances (Feet Walking Distance)										
Origin (From)	Destination (To)									
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel				
Office										
Retail										
Restaurant										
Cinema/Entertainment										
Residential										
Hotel										

Table 4-A: Internal Person-Trip Origin-Destination Matrix*										
Origin (From)	Destination (To)									
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel				
Office		5	0	0	0	0				
Retail	4		0	0	2	0				
Restaurant	0	0		0	0	0				
Cinema/Entertainment	0	0	0		0	0				
Residential	3	3	0	0		0				
Hotel	0	0	0	0	0					

Table 5-A	: Computatio	ons Summary		Table 6-A: Internal Trip Capture Percentages by Land Use			
	Total	Entering	Exiting	Land Use	Entering Trips	Exiting Trips	
All Person-Trips	509	213	296	Office	7%	29%	
Internal Capture Percentage	7%	8%	6%	Retail	25%	30%	
				Restaurant	N/A	N/A	
External Vehicle-Trips ⁵	416	174	242	Cinema/Entertainment	N/A	N/A	
External Transit-Trips ⁶	11	5	6	Residential	3%	2%	
External Non-Motorized Trips ⁶	0	0	0	Hotel	N/A	N/A	

⁶Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

NCHRP 684 Internal Trip Capture Estimation Tool									
Project Name:	Olympia Hills		Organization:	Hales Engineering					
Project Location:	Salt Lake County		Performed By:	Josh Gibbons					
Scenario Description:	Village Center A Area		Date:	10/22/2019					
Analysis Year:	Analysis Year: 2037		Checked By:	Scott Johnson					
Analysis Period:	PM Street Peak Hour		Date:	10/22/2019					

Table 1-P: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)									
	Developm	ent Data (<i>For In</i>	formation Only)		Estimated Vehicle-Trips ³				
Land Ose	ITE LUCs ¹	Quantity	Units		Total	Entering	Exiting		
Office	710	90.1	1,000 sq ft		104	17	87		
Retail	820	45.4	1,000 sq ft		174	84	90		
Restaurant					0				
Cinema/Entertainment					0				
Residential	210 & 220	630	dwelling units		342	215	127		
Hotel					0				
All Other Land Uses ²					0				
					620	316	304		

Table 2-P: Mode Split and Vehicle Occupancy Estimates									
		Entering Tri	ps	1	Exiting Trips				
Land Ose	Veh. Occ.4	% Transit	% Non-Motorized	ıΓ	Veh. Occ.4	% Transit	% Non-Motorized		
Office	1.11	2.5%	0%	1	1.11	2.5%	0%		
Retail	1.21	2.5%	0%	1	1.21	2.5%	0%		
Restaurant				1					
Cinema/Entertainment				1					
Residential	1.15	2.5%	0%	1	1.15	2.5%	0%		
Hotel				1					
All Other Land Uses ²				1					

Table 3-P: Average Land Use Interchange Distances (Feet Walking Distance)											
Origin (From)		Destination (To)									
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel					
Office		1750			1750						
Retail					1750						
Restaurant											
Cinema/Entertainment											
Residential		1750									
Hotel											

Table 4-P: Internal Person-Trip Origin-Destination Matrix*											
Origin (From)	Destination (To)										
Oligin (Fiolit)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel					
Office		4	0	0	1	0					
Retail	2		0	0	20	0					
Restaurant	0	0		0	0	0					
Cinema/Entertainment	0	0	0		0	0					
Residential	6	5	0	0		0					
Hotel	0	0	0	0	0						

Table 5-P	Table 5-P: Computations Summary				Table 6-P: Internal Trip Capture Percentages by Land U		
	Total	Entering	Exiting	Land Use	Entering Trips	Exiting	
All Person-Trips	720	368	352	Office	42%	5%	
Internal Capture Percentage	11%	10%	11%	Retail	9%	20%	
				Restaurant	N/A	N/A	
External Vehicle-Trips ⁵	542	276	266	Cinema/Entertainment	N/A	N/A	
External Transit-Trips ⁶	15	8	7	Residential	9%	8%	
External Non-Motorized Trips ⁶	0	0	0	Hotel	N/A	N/A	

²Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator.

³Enter trips assuming no transit or non-motorized trips (as assumed in ITE *Trip Generation Manual*).

⁴Enter vehicle occupancy assumed in Table 1-P vehicle trips. If vehicle occupancy changes for proposed mixed-use project, manual adjustments must be ⁵Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P.

⁶Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

NCHRP 684 Internal Trip Capture Estimation Tool									
Project Name:	Olympia Hills		Organization:	Hales Engineering					
Project Location:	Salt Lake County		Performed By:	Josh Gibbons					
Scenario Description:	Village Center B Area		Date:	10/22/2019					
Analysis Year:	2037		Checked By:	Scott Johnson					
Analysis Period:	AM Street Peak Hour		Date:	10/22/2019					

Table 1-A: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)								
Land Line	Developm	ent Data (<i>For In</i>	formation Only)		Estimated Vehicle-Trips ³			
Land Use	ITE LUCs ¹	Quantity	Units		Total	Entering	Exiting	
Office					0			
Retail	820	40.5	1,000 sq ft		40	25	15	
Restaurant					0			
Cinema/Entertainment					0			
Residential	210 & 220	972	dwelling units		442	103	339	
Hotel					0			
All Other Land Uses ²					0			
					482	128	354	

		Table 2-A:	Mode Split and Veh	icle Occupancy Estimate	es s			
		Entering Tri	ps		Exiting Trips			
Land Use	Veh. Occ.4	% Transit	% Non-Motorized	Veh. Occ. ⁴	% Transit	% Non-Motorized		
Office								
Retail	1.17	2.5%	0%	1.17	2.5%	0%		
Restaurant								
Cinema/Entertainment								
Residential	1.13	2.5%	0%	1.13	2.5%	0%		
Hotel								
All Other Land Uses ²								

	Table 3-A: Average Land Use Interchange Distances (Feet Walking Distance)									
Origin (From)	Destination (To)									
Oligili (Fioliti)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel				
Office										
Retail										
Restaurant										
Cinema/Entertainment										
Residential										
Hotel										

	Table 4-A: Internal Person-Trip Origin-Destination Matrix*									
Origin (From)				Destination (To)						
Oligili (Fiolil)	Office	Office Retail Restaurant Cinema/Entertainment		Residential	Hotel					
Office		0	0	0	0	0				
Retail	0		0	0	2	0				
Restaurant	0	0		0	0	0				
Cinema/Entertainment	0	0	0		0	0				
Residential	0	4	0	0		0				
Hotel	0	0	0	0	0					

Table 5-A	: Computatio	ns Summary		Table 6-A: Internal Trip Capture Percentages by Land Use			
	Total	Entering	Exiting	Land Use	Entering Trips	Exiting Trips	
All Person-Trips	546	145	401	Office	N/A	N/A	
Internal Capture Percentage	2%	4%	1%	Retail	14%	11%	
				Restaurant	N/A	N/A	
External Vehicle-Trips ⁵	460	119	341	Cinema/Entertainment	N/A	N/A	
External Transit-Trips ⁶	13	4	9	Residential	2%	1%	
External Non-Motorized Trips ⁶	0	0	0	Hotel	N/A	N/A	

⁶Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

	NCHRP 684 Internal Trip Capture Estimation Tool									
Project Name:	Olympia Hills	Organization:		Hales Engineering						
Project Location:	Salt Lake County		Performed By:	Josh Gibbons						
Scenario Description:	Village Center B Area		Date:	10/22/2019						
Analysis Year:	2037		Checked By:	Scott Johnson						
Analysis Period:	PM Street Peak Hour		Date:	10/22/2019						

	Table 1	-P: Base Vehic	le-Trip Generation	ו Es	timates (Single-Use Site	e Estimate)		
Land Lico	Developm	ent Data (<i>For In</i>	formation Only)		Estimated Vehicle-Trips ³			
Lanu Use	ITE LUCs ¹	Quantity	Units		Total	Entering	Exiting	
Office					0			
Retail	820	40.5	1,000 sq ft		156	75	81	
Restaurant					0			
Cinema/Entertainment					0			
Residential	210 & 220	972	dwelling units		494	311	183	
Hotel					0			
All Other Land Uses ²					0			
					650	386	264	

	Table 2-P: Mode Split and Vehicle Occupancy Estimates							
Land Lies	Entering Trips					Exiting Trips		
Land Ose	Veh. Occ.4	% Transit	ansit % Non-Motorized		Veh. Occ. ⁴	% Transit	% Non-Motorized	
Office								
Retail	1.21	2.5%	0%		1.21	2.5%	0%	
Restaurant								
Cinema/Entertainment								
Residential	1.15	2.5%	0%		1.15	2.5%	0%	
Hotel								
All Other Land Uses ²								

	Table 3-P: Average Land Use Interchange Distances (Feet Walking Distance)									
Origin (From)	Destination (To)									
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel				
Office										
Retail					1500					
Restaurant										
Cinema/Entertainment										
Residential		1500								
Hotel										

	Table 4-P: Internal Person-Trip Origin-Destination Matrix*									
Origin (From)				Destination (To)						
Ongin (From)	Office Retail Restaurant Cinema/Entertainment		Residential	Hotel						
Office		0	0	0	0	0				
Retail	0		0	0	20	0				
Restaurant	0	0		0	0	0				
Cinema/Entertainment	0	0	0		0	0				
Residential	0	6	0	0		0				
Hotel	0	0	0	0	0					

Table 5-P	: Computatio	ons Summary		Table 6-P: Internal Trip Capture Percentages by Land Use			
	Total	Entering	Exiting	Land Use	Entering Trips	Exiting Trips	
All Person-Trips	757	449	308	3 Office N/A		N/A	
Internal Capture Percentage	7%	6%	8%	Retail	7%	20%	
				Restaurant	N/A	N/A	
External Vehicle-Trips ⁵	592	356	236	Cinema/Entertainment	N/A	N/A	
External Transit-Trips ⁶	17	10	7	Residential	6%	3%	
External Non-Motorized Trips ⁶	0	0	0	Hotel	N/A	N/A	

²Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator.

³Enter trips assuming no transit or non-motorized trips (as assumed in ITE *Trip Generation Manual*).

⁴Enter vehicle occupancy assumed in Table 1-P vehicle trips. If vehicle occupancy changes for proposed mixed-use project, manual adjustments must be ⁵Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P.

⁶Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

				Salt La	ke County	- Olympi	a Hills Ti 4 (2042)	IS						
Weekd	lay Da	ily	# of	Unit	Trip	- Filase %	4 (2042) %	Trips	Trips	Internal	Transit	Net Trips	Net Trips	Total Daily
Phase	Area	Land Use ¹	Units	Туре	Generation	Entering	Exiting	Entering	Exiting	Capture ²	Reduction ³	Entering	Exiting	Trips
1&2	TC	Multifamily Housing (Low-Rise) (220)	795	Dwelling Units	5,970	50%	50%	2,985	2,985	0%	2.5%	2,910	2,910	5,820
182	TC	Single-Family Detached Housing (210) General Office Building (710)	1272	1 000 Sg. Et GEA	1,222	50%	50%	6 253	6 253	0%	2.5%	596 6.097	590 6.097	1,192
1&2	тс	Shopping Center (820)	258.8	1.000 Sq. Ft. GLA	9.770	50%	50%	4.885	4.885	0%	2.5%	4,763	4.763	9.526
1 & 2	VC-C	Multifamily Housing (Low-Rise) (220)	498	Dwelling Units	3,726	50%	50%	1,863	1,863	0%	2.5%	1,816	1,816	3,632
1&2	VC-C	Single-Family Detached Housing (210)	78	Dwelling Units	828	50%	50%	414	414	0%	2.5%	404	404	808
1 & 2	VC-C	General Office Building (710)	31.9	1,000 Sq. Ft. GFA	352	50%	50%	176	176	0%	2.5%	172	172	344
1&2	VC-C	Shopping Center (820)	36.3	1,000 Sq. Ft. GLA	1,372	50%	50%	686	686	0%	2.5%	669	669	1,338
1	Other	Multifamily Housing (Low-Rise) (220)	573	Dwelling Units	4,292	50%	50%	2,146	2,146	0%	2.5%	2,092	2,092	4,184
1	Other	Single-Family Detached Housing (210)	119	Dwelling Units	1,222	50%	50%	611	611	0%	2.5%	596	596	1,192
2&3	VC-A	Multifamily Housing (Low-Rise) (220)	570	Dwelling Units	4,270	50%	50%	2,135	2,135	0%	2.5%	2,082	2,082	4,164
203	VC-A	General Office Building (710)	90.1	1 000 Sg. Et GEA	960	50%	50%	480	480	0%	2.5%	468	468	936
283	VC-A	Shopping Center (820)	45.4	1,000 Sq. Ft. GLA	1,714	50%	50%	857	857	0%	2.5%	836	836	1.672
2	Other	Multifamily Housing (Low-Rise) (220)	486	Dwelling Units	3,634	50%	50%	1,817	1,817	0%	2.5%	1,772	1,772	3,544
2	Other	Single-Family Detached Housing (210)	369	Dwelling Units	3,458	50%	50%	1,729	1,729	0%	2.5%	1,686	1,686	3,372
3	VC-B	Multifamily Housing (Low-Rise) (220)	900	Dwelling Units	6,764	50%	50%	3,382	3,382	0%	2.5%	3,297	3,297	6,594
3	VC-B	Single-Family Detached Housing (210)	72	Dwelling Units	770	50%	50%	385	385	0%	2.5%	375	375	750
3	VC-B	Shopping Center (820)	40.5	1,000 Sq. Ft. GLA	1,530	50%	50%	765	765	0%	2.5%	746	746	1,492
3	Other	Multifamily Housing (Low-Rise) (220)	449	Dwelling Units	3,354	50%	50%	1,677	1,677	0%	2.5%	1,635	1,635	3,270
3	Other	Single-Family Detached Housing (210) Multifemily Housing (Low Rise) (220)	43	Dwelling Units	480 8 344	50%	50%	240	240	0%	2.5%	234	234	468
4	Other	Single-Family Detached Housing (210)	90	Dwelling Units	944	50%	50%	4,172	4,172	0%	2.5%	460	460	920
·	01101	Project Total Daily Trips	00	Differing of its	78,132	0070	0070	39,066	39,066	0,0	2.070	38,091	38,091	76,182
Mornir	ia Pea	k Hour	# of	Unit	Trip	%	%	Trips	Trips	Internal	Transit	Net Trips	Net Trips	Total a.m.
Phase	Area	Land Use ¹	Units	Туре	Generation	Entering	Exiting	Entering	Exiting	Capture ²	Reduction ³	Entering	Exiting	Trips
1&2	TC	Multifamily Housing (Low-Rise) (220)	795	Dwelling Units	342	23%	77%	79	263	9%	2.5%	70	233	303
1 & 2	TC	Single-Family Detached Housing (210)	119	Dwelling Units	90	25%	75%	23	68	9%	2.5%	20	60	80
1&2	TC	General Office Building (710)	1272	1,000 Sq. Ft. GFA	1,224	86%	14%	1,053	171	9%	2.5%	934	152	1,086
1&2	TC	Shopping Center (820)	258.8	1,000 Sq. Ft. GLA	244	62%	38%	151	93	9%	2.5%	134	83	217
1&2	VC-C	Multifamily Housing (Low-Rise) (220)	498	Dwelling Units	220	23%	77%	51	169	5%	2.5%	47	157	204
182	VC-C	Single-Family Detached Housing (210)	78	1 000 Sa Et CEA	62	25%	1404	16	47	5%	2.5%	15	44	59
182	VC-C	Shopping Center (820)	36.3	1,000 Sq. Ft. GFA	36	62%	38%	22	0 14	5%	2.5%	20	13	33
1	Other	Multifamily Housing (Low-Rise) (220)	573	Dwelling Units	252	23%	77%	58	194	0%	2.5%	57	189	246
1	Other	Single-Family Detached Housing (210)	119	Dwelling Units	90	25%	75%	23	68	0%	2.5%	22	66	88
2&3	VC-A	Multifamily Housing (Low-Rise) (220)	570	Dwelling Units	250	23%	77%	58	193	7%	2.5%	53	175	228
2&3	VC-A	Single-Family Detached Housing (210)	60	Dwelling Units	48	25%	75%	12	36	7%	2.5%	11	33	44
2&3	VC-A	General Office Building (710)	90.1	1,000 Sq. Ft. GFA	112	86%	14%	96	16	7%	2.5%	87	15	102
2&3	VC-A	Shopping Center (820)	45.4	1,000 Sq. Ft. GLA	44	62%	38%	27	17	7%	2.5%	24	15	39
2	Other	Multifamily Housing (Low-Rise) (220)	486	Dwelling Units	216	23%	77%	50	166	0%	2.5%	49	162	211
2	Uther	Single-Family Detached Housing (210)	369	Dwelling Units	268	25%	75%	67	201	0%	2.5%	05	196	261
3	VC-B	Single-Family Detached Housing (210)	900 72	Dwelling Units	56	25%	75%	14	42	2%	2.5%	13	204 40	53
3	VC-B	Shopping Center (820)	40.5	1.000 Sq. Ft. GLA	40	62%	38%	25	15	2%	2.5%	24	14	38
3	Other	Multifamily Housing (Low-Rise) (220)	449	Dwelling Units	200	23%	77%	46	154	0%	2.5%	45	150	195
3	Other	Single-Family Detached Housing (210)	43	Dwelling Units	36	25%	75%	9	27	0%	2.5%	9	26	35
4	Other	Multifamily Housing (Low-Rise) (220)	1109	Dwelling Units	470	23%	77%	108	362	0%	2.5%	105	353	458
4	Other	Single-Family Detached Housing (210)	90	Dwelling Units	70	25%	75%	18	53	0%	2.5%	18	52	70
	_	Project Total a.m. Peak Hour Trips			4,814			2,145	2,674			1,953	2,519	4,472
Evenin	ig Pea	k Hour	# of	Unit	Trip			Trips	Trips	Internal	Transit	Net Trips	Net Trips	Total p.m.
Phase	Area	Land Use'	Units	Туре	Generation	Entering	Exiting	Entering	Exiting	Capture ²	Reduction	Entering	Exiting	Trips
182	TC	Single Family Detached Housing (220)	795	Dwelling Units	374	63%	37%	236	138	11%	2.5%	205	120	325
1&2	TC	General Office Building (710)	1272	1.000 Sa. Ft GFA	1.276	16%	84%	204	1.072	11%	2.5%	177	930	1.107
1 & 2	TC	Shopping Center (820)	258.8	1,000 Sq. Ft. GLA	988	48%	52%	474	514	11%	2.5%	411	446	857
1&2	VC-C	Multifamily Housing (Low-Rise) (220)	498	Dwelling Units	248	63%	37%	156	92	13%	2.5%	132	78	210
1 & 2	VC-C	Single-Family Detached Housing (210)	78	Dwelling Units	82	63%	37%	52	30	13%	2.5%	44	25	69
1&2	VC-C	General Office Building (710)	31.9	1,000 Sq. Ft. GFA	40	16%	84%	6	34	13%	2.5%	5	29	34
1&2	VC-C	Shopping Center (820)	36.3	1,000 Sq. Ft. GLA	140	48%	52%	67	73	13%	2.5%	57	62	119
1	Other	Multifamily Housing (Low-Rise) (220)	573	Dwelling Units	280	63%	37%	176	104	0%	2.5%	172	101	273
1 28.3		Single-Family Detached Housing (210) Multifamily Housing (Low Pise) (220)	119	Dwelling Units	122	03% 63%	31%	175	45	U%	2.5%	/5 152	44 80	119
283	VC-A	Single-Family Detached Housing (220)	60	Dwelling Units	64	63%	37%	40	24	11%	2.5%	35	21	56
2&3	VC-A	General Office Building (710)	90.1	1,000 Sq. Ft. GFA	104	16%	84%	17	87	11%	2.5%	15	75	90
2&3	VC-A	Shopping Center (820)	45.4	1,000 Sq. Ft. GLA	174	48%	52%	84	90	11%	2.5%	73	78	151
2	Other	Multifamily Housing (Low-Rise) (220)	486	Dwelling Units	242	63%	37%	152	90	0%	2.5%	148	88	236
2	Other	Single-Family Detached Housing (210)	369	Dwelling Units	356	63%	37%	224	132	0%	2.5%	218	129	347
3	VC-B	Multifamily Housing (Low-Rise) (220)	900	Dwelling Units	418	63%	37%	263	155	7%	2.5%	238	141	379
3	VC-B	Single-Family Detached Housing (210)	72	Dwelling Units	76	63%	37%	48	28	7%	2.5%	44	25	69
3	VC-B	Shopping Center (820)	40.5	1,000 Sq. Ft. GLA	156	48%	52%	75	81	7%	2.5%	68	73	141
3	Other	single Family Detached Housing (220)	449	Dwelling Units	226	63%	37%	142	84 17	0%	2.5%	138	82 17	220
3 4	Other	Multifamily Housing /Low-Rise) (220)	43 1100	Dwelling Units	40 504	63%	37%	29	186	0%	2.5%	20 310	181	40
4	Other	Single-Family Detached Housing (210)	90	Dwelling Units	92	63%	37%	58	34	0%	2.5%	57	33	90
		Project Total p.m. Peak Hour Trips			6,408			3,150	3,258			2,869	2,906	5,775
1. Land U	se Code I	rom the Institute of Transportation Engineers (I	TE) <i>Trip Gen</i>	eration, 10th Edition, 201	17.									
 Internal Transit r 	capture ra eduction	ates based on the NCHRP 684 Internal Trip Ca of 2.5% based on the tr <u>ansit ridership of compa</u>	pture Estimation arable n <u>earby l</u>	on Tool, which follows I Riverton City, based on	TE methodologi 2017 American	es for interr Communit	hal capture. y Sur <u>vey es</u>	timates. Assu	mes bus-only	/ transit and r	no light-rail.			
SOURCE:	Hales En	gineering, October 2019												

Land Use Totals			Targets			Phasing and Land Use Plans
Land Uses	#	Unit Type	#	Unit Type	Δ	
Multifamily Housing (Low-Rise) (220)	5,380	Dwelling Units	5,380	Dwelling Units	0	
Single-Family Detached Housing (210)	950	Dwelling Units	950	Dwelling Units	0	May be modified in the MDA
General Office Building (710)	1,394.0	1,000 Sq. Ft. GFA	1,394.0	1,000 Sq. Ft. GFA	0.0	
Shopping Center (820)	381.0	1,000 Sq. Ft. GLA	381.0	1,000 Sq. Ft. GLA	0.0	CSPs or Project Plans.