# Administrative Review Draft

# Seattle Affordable Housing Nexus Study and Economic Impact Analysis



May 13, 2015



#### SUBMITTED TO:

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# **Executive Summary**

# 1. Background and Introduction

In May 2013, the Seattle City Council adopted Resolution 31444, which sets out a work program for reviewing and potentially revising the current affordable housing incentive program and reviewing best practices for affordable housing production and preservation. Review of national best practices was conducted by Otak and Peninger Consulting.

Pursuant to Resolution 31444, the City of Seattle retained DRA to conduct an economic analysis for the purpose of advising the City on revision and potential expansion of its affordable housing incentive programs for commercial and residential development, currently in place in the Downtown and South Lake Union Urban Centers and other areas of the City that have been upzoned since 2006. The City's current programs provide developers with bonus floor area in exchange for the provision of housing for households with incomes up to 80% of Area Median Income (AMI) for rental housing and up to 100% of AMI for homeownership housing. The payment of a fee in lieu of providing units is allowed in some areas, including the Downtown and South Lake Union Urban Centers. For commercial projects in the Downtown and South Lake Union areas and residential development in South Lake Union the program imposes other requirements, including the purchase of transfer of development rights (TDR) and, for commercial development only, payment of a childcare fee.

DRA worked closely with City staff to develop twelve residential and commercial office development prototypes that reflect current underlying zoning designations in the City. Each prototype is examined in a base case "no incentive" version that reflects the requirements of the underlying zoning, and a "with incentive" version that reflects the additional bonus floor area and other guidelines associated with the incentive program. The prototypes include mid- and high-rise residential and office prototypes appropriate to zoning designations in the Downtown and South Lake Union areas of the City. They also include low- and mid-rise prototypes



consistent with zoning designations found in areas surrounding the Downtown and in target Urban Centers and Villages. These 24 prototypes formed the basis of DRA's economic analysis of the current incentive program and alternative policies, and were examined under several economic scenarios. The findings of the analysis will assist the City in evaluating alternative policy options for the incentive programs that will generate affordable housing and/or in lieu fees while being sensitive to current and future real estate market conditions.

The City of Seattle (City) subsequently retained David Paul Rosen & Associates (DRA) to prepare a study establishing a rational nexus between market-rate residential and non-residential development and the need for affordable housing in the City. To the extent that new market-rate residential and non-residential development in the City increases demand for housing and exacerbates the City's shortage of affordable housing, the City has a strong public interest in, and a legal basis for, causing new affordable housing to be developed to meet this additional demand. The nexus study examined 14 of the original 24 prototypes examined in DRA's 2014 incentive zoning analysis, and added 10 additional low- and mid-rise residential, mixed-use, and non-residential prototypes.

In designing a fee on new residential and non-residential development to assist the provision of affordable housing, the basis for the fee is that such development has a deleterious impact by increasing employment, which also increases the demand for housing for the added employees, because market-rate housing development, with no public assistance, will not provide housing affordable for the additional lower-earning employees. The legal requirement is that a local government charging a fee make some affirmative showing that: (1) those who must pay the fee are contributing to the problem that the fee will address; and (2) the amount of the fee is reasonably justified by the magnitude of the fee-payer's contribution to the problem. This relationship has been well documented and nexus fees have been successfully upheld against legal challenge where the fees met standards set by case law.

# **Target Income Levels**

The nexus analysis uses income limits commonly defined by the U.S. Department of Housing and Urban Development (HUD) and the Low Income Housing Tax Credit program. This study calculates an affordable housing nexus fee for the following income categories in King County in 2015:

• Households with incomes up to 30 percent of area median income (AMI), or approximately \$26,900 for a four-person household;



- Households with incomes between 31 percent and 60 percent of AMI, or between \$26,901 and \$53,760 for a four-person household; and
- Households with incomes between 61 percent and 80 percent of AMI, or between \$53,761 and \$65,800 for a four-person household.

All of these income limits are based on the 2015 median family income (MFI) of \$89,600 for the Seattle-Bellevue HUD Metro FMR Area (HMFA)<sup>1</sup>, adjusted by household size, as provided by the City of Seattle Department of Planning and Development.

**Table 1** shows 2015 income limits for the City of Seattle for these income categories for household sizes of one to six persons.

Table 1 Affordable Housing Income Limits by Household Size City of Seattle Affordable Housing Nexus Study 2015						
Household Size 30% AMI 60% AMI 80% AMI						
One Person	\$18,550	\$37,080	\$46,100			
Two Persons	\$21,550	\$43,020	\$52,650			
Three Persons	\$24,250	\$48,420	\$55,950			
Four Persons	\$26,900	\$53,760	\$65,800			
Five Persons	\$29,100	\$58,080	\$71,100			
Six Persons	\$31,200	\$62,400	\$76,350			

Source: 2015 median household income for the Seattle-Bellevue HMFA of \$89,600, adjusted by household size and income level; City of Seattle Department of Planning and Development; DRA.

# **Affordability Gap Analysis**

The affordability gap analysis compares the cost of housing development in the City to the amount very low and low income households can afford to pay for housing. The affordability gap represents the capital subsidy required to develop housing affordable to families at these target income levels. For the purpose of the nexus analysis, the affordability gap is calculated assuming new construction of

<sup>&</sup>lt;sup>1</sup>FMR stands for Fair Market Rent. The Seattle-Bellevue HMFA is a HUD-defined metropolitan area comprised of King and Snohomish Counties.



low- or mid-rise multifamily units, based on assumptions developed by DRA for the "Affordable Housing Incentive Program Economic Analysis", 2014, updated to 2015.

The per unit subsidy required to make new housing affordable to households at the above income level was calculated by subtracting per unit development costs from the per unit mortgage supportable from affordable rents. No leverage (e.g. use of tax credits) is assumed. The resulting per unit subsidy requirement by unit bedroom count and income level is shown in **Table 2**.

The results of the gap analysis show significant affordability gaps at the above income levels analyzed in this report.

Table 2 Per Unit Affordability Gaps New Construction Multifamily Housing City of Seattle Affordable Housing Nexus Study 2015						
	Per Unit Affordability Gap by Percent of Per Unit Area Median Income <sup>2</sup>					
Unit Bedroom Count	Development Cost <sup>1</sup>	30% AMI <sup>3</sup>	60% AMI	80% AMI		
Studio	\$239,200	\$239,200	\$200,600	\$168,300		
One Bedroom \$294,400 \$294,400 \$245,600 \$2						
Two Bedrooms \$441,600 \$441,600 \$369,400 \$328,000						

<sup>&</sup>lt;sup>1</sup>Assumes average development cost of \$368 per net square foot (NSF) and unit sizes of 650 NSF for a studio unit, 800 NSF for a one-bedroom unit and 1,200 for a two-bedroom unit based on DRA's "Affordable Housing Incentive Program Economic Analysis", 2014, escalated 5% to 2015.

Source: DRA.

# **Residential Nexus Analysis**

The methodology used for the residential nexus analysis begins with the estimated sales prices of a prototypical condominium development, or rents at an apartment



<sup>&</sup>lt;sup>2</sup>Based on per unit supportable mortgage by income level less total development cost, assuming affordable rents at 30% of gross income, utility allowances of \$110 for studio/one-bedroom units and \$160 for a two-bedroom units, annual operating costs of \$6,760 per unit, and a 30-year fixed mortgage at an interest rate of 6.5%.

<sup>&</sup>lt;sup>3</sup>At the 30% AMI level, affordable rents are insufficient to pay full operating costs and there is no cash flow available for debt service.

complex, and moves through a series of linkages to the incomes of the households that purchase or rent the units, the annual expenditures of those households on goods and services, the jobs associated with the delivery of these goods and services, the income of the workers performing those jobs, the household income of those worker households, and finally to the affordability level of the housing needed by those worker households. The steps of the analysis are as follows:

- 1. Define a prototypical market-rate residential development.
- Estimate the household income distribution of the households purchasing or renting these homes.
- 3. Estimate the consumer expenditures of those households.
- 4. Estimate the number of new full-time employees required to provide the goods and services purchased by these households.
- Estimate the number of new households associated with this employment growth.
- 6. Estimate the income distribution of these new employee households.
- 7. Estimate the number of new households requiring affordable housing.
- 8. Estimate the housing affordability gap for these affordable housing units.
- 9. Calculate the maximum supportable residential nexus fee.

For owner housing, DRA estimated the household income distribution of households purchasing the new homes based on the estimated minimum income necessary to afford the mortgage principal and interest, property taxes and property insurance required to purchase the home. For renters, tenant household income is calculated from typical income to rent standards used by apartment owners. This analysis uses the sales prices and rents estimated for these prototypes (under the "middle" cost scenario for the low- and mid-rise prototypes) in DRA's "Affordable Housing Incentive Program Economic Analysis", 2014, escalated to estimated 2015 prices.

The consumer expenditures of these households and the jobs generated by these expenditures are estimated using the IMPLAN model, a model widely used for the past 25 years to quantify employment impacts from personal income. Based on



the employment generation by industry from the IMPLAN model, DRA used its nexus model to quantify the income of worker households by affordability level.

The 2013 wage data for the Seattle-Bellevue-Everett Metropolitan Division from the U.S. Department of Labor used in this analysis do not take into account Seattle's new minimum wage ordinance (Ordinance 124490) adopted by the City Council in June 2014. The \$15 per hour minimum wage for employees in 2017 means that a full-time minimum wage worker will earn an annual wage of approximately \$31,200, which is identical to the 30% of area median income limit in 2015 for a six-person household. This means that virtually all of the full-time 30% AMI employees will move up into the 30% to 50% AMI category, based on today's area median income. To account for this change, DRA calculated a second version of the maximum supportable residential and non-residential nexus with just two income levels (under 60% of AMI, and 60% to 80% of AMI), assuming the households earning less than 30% of AMI move into the 30% to 60% of AMI category. This reduces the nexus fees, since it is more costly to provide an affordable unit at 30% of AMI than at 60% of AMI.

**Table 3** summarizes the estimated maximum supportable residential nexus fee per housing unit and per net square foot for the prototypes analyzed in DRA's incentive zoning analysis based on the 2013 wage data unadjusted for the future increase in the minimum wage. **Table 4** summarizes the estimated maximum supportable non-residential nexus fees per net square foot building area for the same prototypes. **Tables 5** and **6** summarize the estimated maximum supportable nexus fees for these residential and non-residential development, respectively, after adjusting for the estimated effects of the future increase in the minimum wage. As noted above, this analysis uses the "middle" sales price and rent scenario for the low- and mid-rise prototypes. DRA also calculated the maximum nexus fee for these prototypes

These fees are based on the costs to build new multifamily housing in Seattle, the most cost-effective means of housing these very low and low income employee households. Given the average household size of 2.061 persons in the City, the affordability gap for a one-bedroom unit is used to calculate the nexus fees. The results of the nexus analysis show significant supportable nexus fees for all prototypes and income levels.



<sup>&</sup>lt;sup>1</sup>Based on a household population of 583,735 divided by 283,510 households in the City of Seattle as of the 2010 census.

#### Table 3

# Estimated Maximum Residential Nexus Fees Renter and Owner Housing Prototypes Current Minimum Wage Scottle Affordable Housing Nexus Study

**Seattle Affordable Housing Nexus Study** 

2015

		Maxim	um Nexus Fee	per Net Squa	re Foot
Prototype <sup>1</sup>	Prototype Description	Under	30% to	60% to	
		30% AMI	60% AMI	80% AMI	Total
Prototype 1A	DT Rental, 40 Stories	\$12.39	\$27.83	\$9.56	\$49.79
Prototype 2A	DT Owner, 40 Stories	\$14.53	\$32.04	\$10.42	\$56.99
Prototype 4A	SLU Rental, 24 Stories	\$11.60	\$26.62	\$9.35	\$47.57
Prototype 4B	SLU Rental, 7 Stories	\$9.82	\$24.59	\$9.39	\$43.80
Prototype 5A	SLU Owner, 24 Stories	\$12.73	\$27.88	\$9.13	\$49.74
Prototype 5B	SLU Renter, 7 Stories	\$11.07	\$21.55	\$7.94	\$40.56
Prototype 7A	Rental, 7 Stories	\$12.76	\$26.61	\$9.14	\$48.51
Prototype 7B	Rental, 4 Stories	\$13.32	\$22.23	\$9.55	\$45.10
Prototype 9A	Rental, 6 Stories	\$12.82	\$24.95	\$9.19	\$46.96
Prototype 9B	Rental, 4 Stories	\$12.58	\$26.24	\$9.02	\$47.84
Prototype 10A	Owner, 6 Stories	\$8.55	\$21.39	\$6.13	\$36.07
Prototype 10B	Owner, 4 Stories	\$12.60	\$21.02	\$9.03	\$42.64
Prototype 11A	Rental, 7 Stories	\$10.06	\$25.19	\$7.21	\$42.47
Prototype 12A	Owner, 7 Stories	\$6.71	\$16.80	\$4.81	\$28.32

DT = Downtown, SLU = South Lake Union

<sup>1</sup>Based on prototypes from DRA's "Affordable Housing Incentive Program Economic Analysis", 2014, as described in Table 13.

Source: DRA

#### Table 4

### Estimated Maximum Non-Residential Nexus Fees Office and Hotel Prototypes Current Minimum Wage

**Seattle Affordable Housing Nexus Study** 

2015

		Maximum Nexus Fee per Net Square Foot			
Prototype <sup>1</sup>	Prototype Description	Under	30% to	60% to	
		30% AMI	60% AMI	80% AMI	Total
Prototype 3A	DT Office, 8 Stories	\$3.42	\$40.76	\$13.11	\$57.29
Prototype 6A	SLU Office, 8 Stories	\$3.33	\$40.90	\$12.83	\$57.07
Hotel Prototype	DT Hotel, 14 Stories	\$18.78	\$38.22	\$3.59	\$60.58

DT = Downtown, SLU = South Lake Union



<sup>1</sup>Based on prototypes from DRA's "Affordable Housing Incentive Program Economic Analysis", 2014, as described in Table 13.

Source: DRA

#### Table 5

### Estimated Maximum Residential Nexus Fees Renter and Owner Housing Prototypes 2017 Minimum Wage Seattle Affordable Housing Nexus Study

#### 2015

		Maximum Nexus Fee per Net Square Foot			
Prototype <sup>1</sup>	Prototype Description	Under 60%	60% to 80%		
		AMI	AMI	Total	
Prototype 1A	DT Rental, 40 Stories	\$38.17	\$9.56	\$47.73	
Prototype 2A	DT Owner, 40 Stories	\$44.16	\$10.42	\$54.58	
Prototype 4A	SLU Rental, 24 Stories	\$36.30	\$9.35	\$45.65	
Prototype 4B	SLU Rental, 7 Stories	\$32.78	\$9.39	\$42.17	
Prototype 5A	SLU Owner, 24 Stories	\$38.51	\$9.13	\$47.63	
Prototype 5B	SLU Renter, 7 Stories	\$30.79	\$7.94	\$38.73	
Prototype 7A	Rental, 7 Stories	\$37.25	\$9.14	\$46.40	
Prototype 7B	Rental, 4 Stories	\$35.65	\$9.19	\$44.83	
Prototype 9A	Rental, 6 Stories	\$36.74	\$9.02	\$45.75	
Prototype 9B	Rental, 4 Stories	\$36.74	\$9.02	\$45.75	
Prototype 10A	Owner, 6 Stories	\$28.52	\$6.13	\$34.65	
Prototype 10B	Owner, 4 Stories	\$31.53	\$9.03	\$40.56	
Prototype 11A	Rental, 7 Stories	\$33.59	\$7.21	\$40.80	
Prototype 12A	Owner, 7 Stories	\$22.39	\$4.81	\$27.20	

DT = Downtown, SLU = South Lake Union

<sup>1</sup>Based on prototypes from DRA's "Affordable Housing Incentive Program Economic Analysis", 2014, as described in Table 13.

Source: DRA

#### Table 6

#### Estimated Maximum Non-Residential Nexus Fee Office and Hotel Prototypes 2017 Minimum Wage

#### **Seattle Affordable Housing Nexus Study**

#### 2015

		Maximum Nexus Fee per Net Square Foot				
Prototype <sup>1</sup>	Prototype Description	Under 60%	60% to 80%			
		AMI	AMI	Total		
Prototype 3A	DT Office, 8 Stories	\$43.61	\$13.11	\$56.72		
Prototype 6A	SLU Office, 8 Stories	\$43.68	\$12.83	\$56.51		
Hotel Prototype	DT Hotel, 14 Stories	\$53.88	\$3.59	\$57.47		

DT = Downtown, SLU = South Lake Union



<sup>1</sup>Based on prototypes from DRA's "Affordable Housing Incentive Program Economic Analysis", 2014, as described in Table 13.

Source: DRA

**Table 7** summarizes the estimated maximum supportable nexus fee per net square foot for the additional low- and mid-rise residential, mixed-use and non-residential prototypes. **Table 8** summarizes the estimated maximum supportable nexus fees for these prototypes, after adjusting for the estimated effects of the future increase in the minimum wage. The nexus fees in Tables 7 and 8 for the mixed-use prototypes are for the commercial uses within the prototype.

# Table 7 Estimated Maximum Nexus Fees Additional Low- and Mid-Rise Residential Prototypes and Non-Residential Uses Current Minimum Wage Seattle Affordable Housing Nexus and Economic Impact Study

2015

		Maximum Nexus Fee per Net Square Foot				
Prototype/Use	Prototype/Use Description	Under 30% AMI	30% to 60% AMI	60% to 80% AMI	Total	
SF Infill House	Single-Family Home	\$5.94	\$13.16	\$4.46	\$23.56	
Owner TH	6 Townhomes	\$7.81	\$17.47	\$5.83	\$31.11	
Owner Flats	9 Condo Flats	\$7.95	\$17.86	\$5.96	\$31.78	
Rental Flats	12 Apt. Flats	\$10.61	\$23.78	\$7.96	\$42.35	
Grocery Store	50,000 GSF	\$17.43	\$19.13	\$4.58	\$41.14	
Restaurant	3,000 GSF	\$15.70	\$18.83	\$4.22	\$38.75	
Entertainment	15,000 GSF	\$12.07	\$13.26	\$3.59	\$28.92	
Stand-Alone Retail	25,000 GSF	\$17.37	\$19.11	\$4.30	\$40.78	
R&D Laboratory	100,000 GSF	\$17.15	\$62.20	\$38.06	\$117.41	
Medical Office	87,000 GSF	\$5.16	\$18.65	\$11.44	\$35.24	

Source: City of Seattle; DRA.



#### Table 8

# Estimated Maximum Nexus Fees Additional Low- and Mid-Rise Residential Prototypes and Non-Residential Uses 2017 Minimum Wage

**Seattle Affordable Housing Nexus and Economic Impact Study** 

2015

		Maximum Nexus Fee per Net Square Foot				
Prototype/Use	Prototype/Use Description	Under 60% AMI	60% to 80% AMI	Total		
SF Infill House	Single-Family Home	\$16.98	\$3.80	\$20.77		
Owner TH	6 Townhomes	\$22.48	\$4.96	\$27.44		
Owner Flats	9 Condo Flats	\$22.96	\$5.07	\$28.03		
Rental Flats	12 Apt. Flats	\$30.59	\$6.76	\$37.35		
Grocery Store	50,000 GSF	\$33.67	\$4.58	\$38.25		
Restaurant	3,000 GSF	\$31.93	\$4.22	\$36.15		
Entertainment	15,000 GSF	\$23.33	\$3.59	\$26.92		
Stand-Alone Retail	25,000 GSF	\$33.60	\$4.30	\$37.90		
R&D Laboratory	100,000 GSF	\$76.50	\$38.06	\$114.57		
Medical Office	87,000 GSF	\$22.95	\$11.44	\$34.39		

Source: DRA

Detailed calculation of the nexus fees by prototype are shown in **Tables 9** and **10** for the original residential and non-residential nexus fees, respectively, under the current minimum wage, and in **Tables 11** and **12** for these prototypes, respectively, under the 2017 minimum wage. These tables, along with the rest of the tables referenced in this analysis, are presented at the end of the text.

Detailed calculation of the nexus fees by prototype are shown in **Table 13** for the residential uses in the additional residential and mixed-use prototypes and in **Table 14** for the non-residential uses under the current minimum wage, and in **Tables 15** and **16** for these prototypes, respectively, under the 2017 minimum wage. These tables, along with the rest of the tables referenced in this analysis, are presented at the end of the text.

Development impact fee programs may include the cost of administering the program that funds affordable housing, including:



- The administrative costs of assessing, collecting, cost accounting, and public reporting of the fee;
- The cost of justification analyses, legal support, and other costs of annual and/or periodic updates to the fee; and
- Costs of capital planning and programming, including project management costs associated with the share of projects funded by the fee.

Administration charges typically range from 1.0 percent up to 5.0 percent and may be added to the maximum fee level.





### Introduction

The City of Seattle (City) retained David Paul Rosen & Associates (DRA) to prepare a nexus study establishing a rational nexus between residential development and the need for affordable housing in the City.

This report describes the methodology, assumptions and findings of the nexus analysis. The nexus analysis estimates the number of very low and low income households associated with development of new residential and commercial (office and hotel) development in the City, and calculates the maximum nexus fee based on the cost to produce housing affordable to these households. The nexus analysis is based on the demographic and economic characteristics of employees expected to provide goods and services to new residential customers, and for those expected to work in the commercial buildings.

This report is presented in the following major sections:

- Nexus Rationale
- Affordability Gap Analysis
- Residential Nexus Analysis
- Non-Residential Nexus Analysis

# The Nexus Rationale

Job growth does not occur in most industry sectors without buildings to house new workers. Therefore, new buildings are constructed to accommodate the workers associated with job growth.

Any new non-residential building in the City may be occupied partly or wholly by businesses relocating from elsewhere in the City. However, when a business relocates to a new building in the City, it vacates building space in the old location, which in turn is filled by new businesses and employees. Somewhere in



the chain there are jobs new to the City. The net effect is that new buildings accommodate new employees.

Just as new non-residential buildings make room for new firms and their employees relocating to the City, so new residential construction makes room for new population and households moving to the City. Even if the household moving into a new unit is relocating from another house in the City, the household vacates an existing unit that, in turn, is filled with another household. Again, somewhere in the chain new population and households are added to the City.

New market-rate housing development accommodates growth in population and households. The arrival of new population creates demand for additional jobs in retail outlets and services that serve that population. A portion of the income of the residents in new market-rate housing units will be spent to purchase a range of goods and services, such as purchases at local supermarkets and restaurants or services at local dry cleaners. These purchases in the local economy in turn generate employment in a range of different compensation levels.

New housing affordable to lower income households is not added to the supply in sufficient quantities to meet the needs of new lower income employee households. The cost to build new housing, or to acquire and rehabilitate existing housing, is more than the rents or home prices that lower income households can afford to pay.

The methodology for quantifying the nexus relationship for new market rate residential development can be demonstrated in relation to a new family moving into the City. A new residential unit is developed within the City and sold or rented to a family at the going market rate. The family's income can be estimated based on the amount needed to purchase or rent the home, by using current mortgage rates, lending standards, and income/rent ratios used by rental property managers. A portion of a household's income will be used to purchase goods and services, which will generate the need for additional employees at the businesses The additional employees will be paid at different the household frequents. salary levels, based on the industry and type of job. Some of the jobs that are produced will be low paying, especially service industry jobs, and will produce very low, low, and moderate income households, even when there are multiple earners in the households. These households are unable to purchase or rent housing units at market rates, and thus will seek out affordable units.

The nexus methodology used by DRA quantifies the estimated increase in lower income households associated with new non-residential and residential



development, and estimates the costs of providing housing affordable to these new households. These costs are then translated into the maximum nexus fee that may be levied on residential and non-residential development. This methodology is consistent with the standards of reasonable relationship established by Supreme Court case law.

DRA's nexus analyses are designed to demonstrate the economic relationship between residential and non-residential development and the need for affordable housing in the City. DRA employs consistently conservative assumptions, so that the resulting calculations of the maximum fees are likely to understate the maximum nexus calculation for each land use type.

# Affordability Gap Analysis

The affordability gap analysis compares the cost of housing development in the City to the amount very low and low income households can afford to pay for housing. The affordability gap represents the capital subsidy required to develop housing affordable to families at target income levels. The methodology, key assumptions and findings of the affordability gap analysis are summarized below.

The resulting affordability gaps are used in later sections of this report to estimate the maximum residential nexus fees required to mitigate new demand generated by each building type for housing affordable to very low and low income households.

# Methodology

The first step in the gap analysis establishes the amount a tenant or homebuyer can afford to contribute to the cost of renting or owning a dwelling unit. The second step estimates the costs of constructing or preserving affordable housing in the City. For the purposes of the nexus analysis, DRA calculated the affordability gap based on the costs to build new multifamily housing in Seattle, the most cost-effective means of housing these very low and low income employee households. Given the average household size of 2.06¹ persons in the City, the affordability gap for a one-bedroom unit is used to calculate the nexus fees.

The third step in the gap analysis establishes the housing expenses borne by the tenants and owners. These costs can be categorized into operating costs, and



<sup>&</sup>lt;sup>1</sup>Based on a household population of 583,735 divided by 283,510 households in the City of Seattle as of the 2010 census.

financing or mortgage obligations. Operating costs are the maintenance expenses of the unit, including utilities, property maintenance, property taxes, management fees, property insurance, replacement reserve, and insurance. For the rental prototype used in this analysis, DRA assumed that the landlord pays all but certain tenant-paid utilities as an annual operating cost of the unit paid from rental income.

Financing or mortgage obligations are the costs associated with the purchase or development of the housing unit itself. These costs occur when all or a portion of the development cost is financed. This cost is always an obligation of the landlord or owner. Supportable financing is deducted from the total development cost, to determine the capital subsidy required to develop the prototypical housing unit affordable to an eligible family at each income level.

For the rental housing prototype used in this analysis, the gap analysis calculates the difference between total development costs and the conventional mortgage supportable by net operating income from restricted rents.

The purpose of the gap analysis is to determine the fee amount that would be required to develop housing affordable to the very low and low income households who will need to find housing in the City in connection with new market-rate residential and commercial development in the City. Therefore, no other housing subsidies, or leverage, are assumed.

# **Housing Development Costs**

DRA estimated the costs to build the new rental housing prototype used in the gap analysis based on interviews with developers active in the Seattle Area as part of DRA's "Affordable Housing Incentive Program Economic Analysis," 2014. Based on this analysis, we assume average development costs of \$350 per square foot for low or mid-rise multifamily construction and average unit sizes of 650 net square feet for a studio unit, 800 net square feet for a one-bedroom units, and 1,200 net square feet for a two-bedroom unit.

# **Calculation of Per Unit Subsidy Amounts**

The per unit subsidy required to make new housing affordable to very low and low income residents was calculated by subtracting per unit development costs from



the per unit mortgage supportable from affordable rents. These calculations are shown in **Table 17.** 

The results of the gap analysis show significant affordability gaps for very low and low income households.

# **Residential Nexus Analysis**

# Impact Methodology and Use of the IMPLAN Model

The methodology used for the residential nexus analysis begins with the estimated sales prices of a prototypical residential development and moves through a series of linkages to the incomes of the households that purchased the units, the annual expenditures of those households on goods and services, the jobs associated with the delivery of these goods and services, the income of the workers performing those jobs, the household income of those worker households, and finally to the affordability level of the housing needed by those worker households. The steps of the analysis are as follows:

- 1. Define a prototypical residential development.
- 2. Estimate the household income distribution of the households purchasing ore renting these homes.
- 3. Estimate the consumer expenditures of those households.
- 4. Estimate the number of new full-time employees required to provide the goods and services purchased by these households.
- 5. Estimate the number of new households associated with this employment growth.
- 6. Estimate the income distribution of these new employee households.
- 7. Estimate the number of new households requiring affordable housing.
- 8. Estimate the housing affordability gap for these affordable housing units.
- 9. Calculate the maximum supportable residential nexus fee.



For owner housing, DRA estimated the household income distribution of households purchasing the new homes based on the estimated minimum income necessary to afford the mortgage principal and interest, property taxes and property insurance required to purchase the home. For renters, tenant household income is calculated from typical income to rent standards used by apartment owners. The consumer expenditures of these households and the jobs generated by these expenditures are estimated using the IMPLAN model, a model widely used for the past 25 years to quantify employment impacts from personal income. Based on the employment generation by industry from the IMPLAN model, DRA used its nexus model to quantify the income of worker households by affordability level.

#### THE IMPLAN MODEL

The IMPLAN model is an economic analysis software package now commercially available through the Minnesota IMPLAN Group (MIG). IMPLAN was originally developed by the U.S. Forest Service, the Federal Emergency Management Agency, and the U.S. Department of the Interior Bureau of Land Management. It has been in use since 1979 and refined over time. IMPLAN has become one of the industry standards widely used across the United States to predict economic impacts in a broad range of applications from major construction projects to natural resource programs. IMPLAN's clients include more than 20 federal government agencies, 60 state agencies across the country, and academic, local government, nonprofit and private sector clients numbering in the hundreds (follow theses links to IMPLAN's Client List and Consultants Listing). IMPLAN is also the industry standard in California for use in local residential nexus impact fee analyses.

The IMPLAN model projects the number of employees needed to produce a given amount of goods and services, based on actual 2012 economic data for King County. More specifically, IMPLAN is based on an input-output accounting of commodity flows within an economy from producers to intermediate and final consumers. The model establishes a matrix of supply chain relationships between industries and also between households and the producers of household goods and services. The model tracks changes in purchases for final consumption through the supply chain. Industries that produce goods and services for final consumption must purchase inputs from other producers that, in turn, purchase goods and services. The model tracks these relationships through the economy to the point where leakages from the region stop the cycle.

IMPLAN's industry sectoring scheme is tied to the Bureau of Economic Analysis (BEA) Input-Output Study. The most recent 2007 BEA Benchmark study uses a 440-sector scheme. This scheme approximates 6-digit North American Industrial



Classification System (NAICS) for manufacturing, and is more highly aggregated for service sectors. IMPLAN data sets are available for each county and state, so the model can be tailored to the specific economic conditions of the region being analyzed. This analysis uses the most current 2012 data set for King County.

Economic impacts estimated using the IMPLAN model are divided into three categories:

**Direct impacts** result from the household spending included in the analysis. A relevant example is restaurant employment created when households in new residential buildings spend money dining out. Employment at the restaurant would be considered a direct impact.

**Indirect impacts** result from supplier purchases made by the business operations of the companies included in the analysis. With the restaurant example, indirect impacts would include employment at food wholesalers, kitchen suppliers, and producers of agricultural products.

**Induced impacts** result from increased demand for local-serving retail and services by the new employees. Again using the restaurant example, induced impacts would include employment generated when employees of the restaurant, food wholesaler and kitchen suppliers spend their earnings in the local economy.

The IMPLAN model projections include all three of the impacts listed above. The IMPLAN Pro Guide provides an introduction to input-output analysis and further documentation on the model's assumptions and mathematical equations. (Follow these links to the <u>Version 2 IMPLAN Pro guide</u> and the <u>Version 3.0 Reference Manual.</u>)

# Disposable Income of New Households

The analysis begins with fourteen of the prototypical housing prototypes and the two office prototypes analyzed by DRA in its 2014 "Affordable Housing Incentive Analysis Economic Analysis" prepared for the City of Seattle, as well as one additional hotel prototype provided by City staff. These prototypes are described in **Table 18**. The analysis also examines 10 additional low- and mid-rise residential, mixed-use and non-residential prototypes, described in **Table 19**.

The nexus analysis also uses the sales prices and rents estimated for these prototypes (under the "middle" cost scenario for the low- and mid-rise prototypes)



in the 2014 DRA study, escalated to estimated 2015 prices. The income of the new households moving into these units is estimated based on the estimated average sales price or rent for each prototype.

To estimate the income distribution for the buyers of new for-sale homes, this analysis assumes the average incomes are approximately equal to the minimum qualifying income criteria for a new-home loan. This calculation assumes that the new buyers pay a 10 percent down payment and secure a mortgage equal to 90 percent of the home's sale price. Monthly principal and interest payments on the mortgage are calculated assuming a 30-year fixed rate mortgage at 5.0 percent interest. Qualifying household income is estimated assuming households pay 35 percent of gross household income for principal, income, taxes and insurance (PITI), a typical standard used by mortgage lenders.

For renters, the income distribution of tenants in the new apartments is estimated assuming tenants on average spend 33 percent of their household income for rent.

The IMPLAN model uses disposable household income as the primary upfront input. To arrive at disposable income, gross income for residents of prototypical units must be adjusted downward to account for Federal and State income taxes, Social Security and Medicare (FICA) taxes, and personal savings. Other taxes, including sales tax, gas tax and property tax, are handled internally within the model. Housing expenses are not deducted from disposable income as they are also handled internally with the IMPLAN model. Based on a review of data from the Tax Policy Center (a joint venture of the Brookings Institution and the Urban Institute), and the California Franchise Tax Board, disposable income for households in the income levels projected for the buyers and renters of the prototypical market-rate housing units is estimated at 65 percent of total household income.

**Table 20** shows the estimated average household income, projected total household income, and projected total disposable household income of new homebuyers for each of the original owner prototypes. **Table 21** shows the disposable household income projections for tenants in the original rental prototype. **Tables 22** and **23** project household income of owners and renters in the additional low- and mid-rise owner and renter prototypes, respectively.



## **Projected Employment Generation**

The IMPLAN model has been applied to link household consumption expenditures to job growth occurring in the City. The IMPLAN model distributes spending among various types of goods and services, and therefore industry sectors, based on data from the Consumer Expenditure Survey and the Bureau of Economic Analysis Benchmark Input-Output study to estimate direct, indirect, and induced employment generated. The IMPLAN model also projects total industry output and payroll associated with the direct, indirect and induced impacts.

The IMPLAN model input is the projected disposable income of the renters and homebuyers. The projected economic impacts from each residential development are summarized in **Table 24** for the original residential prototypes and in **Table 25** for the additional residential prototypes.

## **Projected Household Growth**

The next step in this analysis is to translate the number of new employees into the number of employee households in the City. The 2012 Five-Year ACS indicates that the City of Seattle had an average of 1.59 workers per worker household. Therefore, DRA divided the number of new employees by 1.59 to generate the number of new households.

# Projected Very Low and Low Income Households

This step estimates the number of new employee households that will require affordable housing. The IMPLAN model provides information on payroll per employee. To estimate household incomes, DRA multiplied each payroll per employee figure by 1.59, the citywide average number of workers per worker household. This approach assumes that all workers in a household earn similar wages.

The average household size in the City of Seattle as of the 2010 census was 2.06 persons.<sup>2</sup> Therefore, this analysis uses the income limits for a household size of



<sup>&</sup>lt;sup>1</sup> 356,914 employed residents divided by 224,155 households with an least one worker.

<sup>&</sup>lt;sup>2</sup> Total household population of 583,735 divided by 283,510 households.

two and one-half persons<sup>1</sup> of \$22,500 at 30% AMI, \$44,950 at 60% AMI, and \$59,950 at 80% AMI.

The percentage of employee households in each industry category expected to fall into each of the three income categories (less than 30% AMI, 30% to 60% AMI, and 60% to 80% AMI) was estimated based on wage data by occupational grouping for the Seattle-Bellevue-Everett Metropolitan Division from the U.S. Department of Labor, Bureau of Labor Statistics dated May 2013. **Table 32** summarizes this wage data by two-digit Standard Occupational Classification (SOC) code, including mean, 10<sup>th</sup> percentile, 25<sup>th</sup> percentile, median, 75<sup>th</sup> percentile and 90<sup>th</sup> percentile wages for each occupational category. The wage distribution for these occupational groupings are translated into wage distribution by income categories based on the distribution of occupations associated with each industry category from the May 2013 National Industry-Specific Occupational Employment and Wage Estimates.

The 2013 wage data in this analysis do not take into account Seattle's new minimum wage ordinance (Ordinance 124490) adopted by the City Council in June 2014. The \$15 per hour minimum wage for larger employees in 2017 means that a full-time minimum wage worker will earn an annual wage of approximately \$31,200, which substantially exceeds 30% of area median income limit for a 2.5 person household in 2015 of \$22,900. This means that most of the full-time 30% AMI employees will move up into the 30% to 50% AMI category.

**Tables 27** through **47** detail the calculation of very low and low income households that would be expected to move to the City for the original and additional prototypes with residential uses.

# **Total Affordability Gap for New Households**

Using the projected number of households that will require affordable housing, DRA estimated the costs of providing housing to these new households using the results of the affordability gap analysis.

The results of the nexus analysis show significant supportable nexus fees for all prototypes for very low and low income households.



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<sup>&</sup>lt;sup>1</sup> This is more conservative than using an average household size of two persons since it results in higher income limits.

# **Non-Residential Nexus Analysis**

## Overview of Non-Residential Nexus Methodology

The numerical nexus analysis in this report identifies the number of households at very low and low income levels associated with the employees that work in a building of a given size and land use type in the City, and calculates the development impact fee required to make housing affordable to those households.

DRA examined the development of two office prototypes and one hotel prototype.

The nexus analysis employs a tested nexus and gap methodology, described below, that has proven acceptable to the courts. The economic analysis uses a conservative approach to understate the maximum fee amount. Therefore, the housing impacts are likely even greater than indicated in the analysis.

The nexus economic analysis methodology employs the following steps:

- Estimate total new employees;
- 2. Estimate new employees living in the City;
- 3. Adjust for potential future increase in labor force participation;
- 4. Estimate the number of new households represented by the number of new employees;
- 5. Distribute households by industry groupings for each land use; and
- Estimate the number of employee households meeting very low and low income limits, adjusted for household size, based on estimated wages by occupation and industry.

The result of these steps is the estimated number of households by land use living in the City and qualifying as very low and low income based on development in the City. DRA used the results of the housing affordability gap analysis to calculate the development impact fee required to make housing affordable to the very low



and low income households who will need to find housing in the City in connection with new non-residential development in the City.

## Non-Residential Nexus Methodology and Assumptions

The nexus analysis requires a number of assumptions. In all cases, we consistently employ conservative assumptions that serve to understate the nexus calculation. We expect that the cumulative effect of these assumptions understates the maximum nexus fee calculation for each building type. We do not believe, therefore, that changing individual assumptions would fundamentally alter the conclusions of the analysis.

The residential nexus fee calculation estimates affordable housing needs generated by employees meeting the goods and services needs generated by new market rate residential development in the City. This is particularly the case for commercial/retail space (which is not analyzed in the present study). To address the overlap between employees created by new residential development and those created by new non-residential development, DRA recommends that the City establish residential and non-residential nexus fees that are below the maximum level. However, not all of the non-residential employment impact is caused by local employment. For example, typical ratios for community shopping space from the 2008 Urban Land Institute "Retail Development Handbook" and "Dollars & Cents of Shopping Centers," suggest that at least 30 percent of the demand for this space typically comes from sources other than local residents, including visitors, travelers, employees, and others.

Each of the steps in the nexus analysis is described below, along with corresponding assumptions.

#### ESTIMATE TOTAL NEW EMPLOYEES IN PROTOTYPE BUILDINGS

The first step estimates the total number of direct employees who will work at or in the building type being analyzed. This step implicitly assumes that all employees are new employees to the City. When firms and their employees relocate from other buildings in the City, they will have vacated spaces that will likely be filled by other firms and employees. A subsequent step in this analysis adjusts for existing unemployed City residents who may be hired in the building.

The estimate of the number of employees that will be working in each prototype building is based on an employment density factor for each land use (i.e. number



of net square feet per employee). The net square feet of building area is divided by the employment density factor to calculate employment.

The employment density factors used in this analysis are as follows, based on industry standards for typical activities:

Office: 250 net square feet per employee.

**Medical Office:** 350 net square feet per employee.

**R&D Laboratory:** 350 net square feet per employee.

**Grocery Store:** 500 net square feet per employee.

**Restaurant:** 500 net square feet per employee.

**Entertainment:** 750 net square feet per employee.

**Stand-Alone Retail:** 500 net square feet per employee.

**Hotel:** One employee per room and an average of 500 square feet per hotel room.

#### ESTIMATE EMPLOYEES LIVING IN THE CITY OF SEATTLE

This step estimates the number of new employees associated with new employment growth in the City that would live in the City.

The 2012 Five-Year ACS indicates that 73.8 percent of workers in the City aged 16 years and older worked in the City<sup>1</sup>. For the purposes of this analysis, we have assumed that 73.8 percent of new City workers will reside in the City.

#### ADJUST FROM EMPLOYEES TO EMPLOYEE HOUSEHOLDS

The next step in the analysis converts the number of employees living in the City to the number of employee households that will work at or in the building type being analyzed. This step recognizes that there is, on average, more than one worker per household, and thus the number of housing units in demand for new workers must be reduced. The worker per worker household ratio also eliminates all non-working households, including retired persons, students, and those on public assistance.



<sup>&</sup>lt;sup>1</sup> Based 350,673 workers in the City of Seattle and 258,706 workers in the City of Seattle that work in their place of residence.

Based on ACS Five-Year estimates for 2012, the City of Seattle had 356,914 employed residents and 224,155 households with one or more workers, for an average of 1.59 workers per worker households. The total number of employed residents includes part-time and full-time workers. This is a conservative assumption. If only full-time workers were included, the ratio of workers per household would be smaller, leading to a larger estimate of new households created. In addition, wages by occupation and industry assume full-time employment. Household incomes will be lower for households with part-time workers, generating a larger impact than projected in this study.

#### DISTRIBUTE EMPLOYEE HOUSEHOLDS BY OCCUPATION

This step distributes households by occupational groupings for each land use. This step is necessary to estimate new workers' incomes. DRA reviewed data from the May, 2013 U.S. Bureau of Labor Statistics, National Industry-Specific Occupational Employment and Wage Estimates to estimate the percentage distribution of employment by industry occupational category for the non-residential land uses. These distributions are shown in **Table 48** for the original office and hotel prototypes and in **Table 49** for the additional non-residential uses. The calculation of the number of new employee households by occupation and prototype are shown in **Tables 50** through **52**.

#### **ESTIMATE WAGES BY OCCUPATION**

In this step, occupation is translated to income based on May 2013 wage and salary information for the Seattle-Bellevue-Everett Metropolitan Division from the U.S. Department of Labor, Bureau of Labor Statistics. Data on mean, median, 10<sup>th</sup> percentile, 25<sup>th</sup> percentile, 75<sup>th</sup> percentile and 90<sup>th</sup> percentile hourly wages by occupation were used to estimate the percentage of employees earning salaries in the very low and low income categories based on the 2014 HUD income limits for the Seattle-Bellevue HMFA.

#### **ESTIMATE VERY LOW AND LOW INCOME HOUSEHOLDS**

The estimated percentage and number of households earning salaries under 30 percent AMI, between 31 percent and 60 percent AMI, and between 61 percent and 80 percent AMI are shown in **Tables 53** through **58** for the residential and non-residential uses in the development prototypes. These estimates were derived using 2014 income limits for a family of 2.5 persons of \$22,500 for households earning less than 30 percent of AMI, \$44,950 for households at 60 percent of AMI, and



\$59,950 for households at 80 percent of AMI. As noted above, these calculations do not factor in the increase in the City's minimum wage starting in 2017.

Individual employee income data was used to calculate the number of households that fall into these income categories by assuming that multiple earner households are, on average, formed of individuals with incomes within the same income category (very low income or low income).

# Table 9 Calculation of Estimated Maximum Nexus Fees: Renter and Owner Housing Prototypes Current Minimum Wage Seattle Affordable Housing Nexus Study 2015

	Less than 30% AMI	30% to 60% AMI	60% to 80% AMI	Total
Prototype 1A				
Est. No. of New Employee Households	13	35	14	62
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap	\$3,827,200	\$8,596,000	\$2,954,000	
No. of Units in Prototype	426	426	426	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$8,984	\$20,178	\$6,934	\$36,097
Average Square Feet Per Unit in Prototype	725	725	725	
Gap Per Net Square Foot = Supportable Nexus Fee (3)	\$12.39	\$27.83	\$9.56	\$49.79
Prototype 2A				
Est. No. of New Employee Households	14	37	14	65
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap	\$4,121,600	\$9,087,200	\$2,954,000	
No. of Units in Prototype	344	344	344	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$11,981	\$26,416	\$8,587	\$46,985
Average Square Feet Per Unit in Prototype	825	825	825	
Gap Per Net Square Foot = Supportable Nexus Fee (3)	\$14.53	\$32.04	\$10.42	\$56.99
Prototype 4A				
Est. No. of New Employee Households	8	22	9	39
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap	\$2,355,200	\$5,403,200	\$1,899,000	
No. of Units in Prototype	280	280	280	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$8,411	\$19,297	\$6,782	\$34,491
Average Square Feet Per Unit in Prototype	725	725	725	
Gap Per Net Square Foot = Supportable Nexus Fee (3)	\$11.60	\$26.62	\$9.35	\$47.57
Prototype 4B				
Est. No. of New Employee Households	3	9	4	16
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap	\$883,200	\$2,210,400	\$844,000	
No. of Units in Prototype	124	124	124	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$7,123	\$17,826	\$6,806	\$31,755
Average Square Feet Per Unit in Prototype	725	725	725	440.00
Gap Per Net Square Foot = Supportable Nexus Fee (3)	\$9.82	\$24.59	\$9.39	\$43.80
Prototype 5A				
Est. No. of New Employee Households	8	. 21	8	37
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap	\$2,355,200	\$5,157,600	\$1,688,000	
No. of Units in Prototype	218	218	218	¢ 42, 20¢
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$10,804	\$23,659	\$7,743	\$42,206
Average Square Feet Per Unit in Prototype	849	849	849	\$49.74
Gap Per Net Square Foot (3)	\$12.73	\$27.88	\$9.13	\$49.74
Prototype 5B	2	-	ā	10
Est. No. of New Employee Households	3 \$294,400	\$245.600	\$ \$211,000	13
Gap Per Household (1)	. ,	\$245,600	\$211,000	
Total Gap No. of Units in Prototype	\$883,200 94	\$1,719,200 94	\$633,000 94	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$9,396		\$6,734	\$34,419
Average Square Feet Per Unit in Prototype	\$9,396 849	\$18,289 849	\$6,734 849	\$34,419
Gap Per Net Square Foot (3)	\$11.07	\$21.55	\$7.94	\$40.56
Prototype 7A  Est. No. of New Employee Households	2	5	2	9
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	9
Total Gap	\$588,800	\$1,228,000	\$422,000	
No. of Units in Prototype	\$300,000 71	\$1,228,000 71	\$422,000 71	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$8,293	\$17,296	\$5,944	\$31,532
Average Square Feet Per Unit in Prototype	650	650	650	200,100
Gap Per Net Square Foot (3)	\$12.76	\$26.61	\$9.14	\$48.51
Sup refrice square root (3)	ψ12./0	Ψ20.01	ψ2.17	ψ-10.51

# Table 9 Calculation of Estimated Maximum Nexus Fees: Renter and Owner Housing Prototypes Current Minimum Wage Seattle Affordable Housing Nexus Study 2015

	Less than 30% AMI	30% to 60% AMI	60% to 80% AMI	Total
Prototype 7B				
Est. No. of New Employee Households	1	2	1	4
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap	\$294,400	\$491,200	\$211,000	
No. of Units in Prototype	34	34	34	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$8,659	\$14,447	\$6,206	\$29,312
Average Square Feet Per Unit in Prototype	650	650	650	
Gap Per Net Square Foot (3)	\$13.32	\$22.23	\$9.55	\$45.10
Prototype 9A				
Est. No. of New Employee Households	3	7	3	13
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap	\$883,200	\$1,719,200	\$633,000	
No. of Units in Prototype	106	106	106	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$8,332	\$16,219	\$5,972	\$30,523
Average Square Feet Per Unit in Prototype	650	650	650	
Gap Per Net Square Foot (3)	\$12.82	\$24.95	\$9.19	\$46.96
Prototype 9B				
Est. No. of New Employee Households	2	5	2	9
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	,
Total Gap	\$588,800	\$1,228,000	\$422,000	
No. of Units in Prototype	72	72	72	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$8,178	\$17,056	\$5,861	\$31,094
Average Square Feet Per Unit in Prototype	650	650	650	\$51,054
Gap Per Net Square Foot (3)	\$12.58	\$26.24	\$9.02	\$47.84
Cap rei Net Squale root (5)	\$12.50	\$20.24	\$9.02	\$47.04
Prototype 10A	0			4.0
Est. No. of New Employee Households	2	6	2	10
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap	\$588,800	\$1,473,600	\$422,000	
No. of Units in Prototype	84	84	84	400 ===
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$7,010	\$17,543	\$5,024	\$29,576
Average Square Feet Per Unit in Prototype	820	820	820	40.5.0
Gap Per Net Square Foot (3)	\$8.55	\$21.39	\$6.13	\$36.07
Prototype 10B				
Est. No. of New Employee Households	2	4	2	8
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap	\$588,800	\$982,400	\$422,000	
No. of Units in Prototype	57	57	57	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$10,330	\$17,235	\$7,404	\$34,968
Average Square Feet Per Unit in Prototype	820	820	820	
Gap Per Net Square Foot (3)	\$12.60	\$21.02	\$9.03	\$42.64
Prototype 11A				
Est. No. of New Employee Households	3	9	3	15
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap	\$883,200	\$2,210,400	\$633,000	
No. of Units in Prototype	135	135	135	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$6,542	\$16,373	\$4,689	\$27,604
Average Square Feet Per Unit in Prototype	650	650	650	
Gap Per Net Square Foot (3)	\$10.06	\$25.19	\$7.21	\$42.47
Prototype 12A				
Est. No. of New Employee Households	2	6	2	10
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap	\$588,800	\$1,473,600	\$422,000	
No. of Units in Prototype	107	107	107	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$5,503	\$13,772	\$3,944	\$23,219
Average Square Feet Per Unit in Prototype	820	820	820	. ,
Gap Per Net Square Foot (3)	\$6.71	\$16.80	\$4.81	\$28.32
(1) Based on per unit affordability gap by income level for	ur one-hedroom units			

 $<sup>(1) \ \</sup> Based \ on \ per \ unit \ affordability \ gap \ by \ income \ level \ for \ one-bedroom \ units.$ 

Source: DRA

<sup>(2)</sup> Equals total gap divided by the number of units in each prototype.

<sup>(3)</sup> Equals gap per unit divided by average square feet per unit for each prototype.

# Table 10 Calculation of Estimated Maximum Nexus Fees: Office and Hotel Prototypes 2017 Minimum Wage Seattle Affordable Housing Nexus Study 2015

	Less than 60% AMI	60% to 80% AMI	Total
Prototype 1A			
Est. No. of New Employee Households	48	14	62
Gap Per Household (1)	\$245,600	\$211,000	
Total Gap	\$11,788,800	\$2,954,000	
No. of Units in Prototype Gap Per Unit in Prototype = Supportable Nexus Fee (2)	426	426 \$6,934	\$34,608
Average Square Feet Per Unit in Prototype	\$27,673 725	30,934 725	\$34,000
Gap Per Net Square Foot (3)	\$38.17	\$9.56	\$47.73
Prototype 2A			
Est. No. of New Employee Households	51	14	65
Gap Per Household (1)	\$245,600	\$211,000	
Total Gap	\$12,525,600	\$2,954,000	
No. of Units in Prototype	344	344	¢ 4.4.000
Gap Per Unit in Prototype = Supportable Nexus Fee (2) Average Square Feet Per Unit in Prototype	\$36,412	\$8,587	\$44,999
Gap Per Net Square Foot (3)	825 \$44.16	825 \$10.42	\$54.58
Gap Fer Net Square 100t (5)	<b>ў</b> 14.10	\$10.42	<b>\$</b> 54.50
Prototype 4A	20	0	20
Est. No. of New Employee Households Gap Per Household (1)	30 \$245,600	9 \$211,000	39
Total Gap	\$7,368,000	\$1,899,000	
No. of Units in Prototype	280	280	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$26,314	\$6,782	\$33,096
Average Square Feet Per Unit in Prototype	725	725	
Gap Per Net Square Foot (3)	\$36.30	\$9.35	\$45.65
Prototype 4B			
Est. No. of New Employee Households	12	4	16
Gap Per Household (1) Total Gap	\$245,600 \$2,947,200	\$211,000 \$844,000	
No. of Units in Prototype	\$2,947,200 124	124	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$23,768	\$6,806	\$30,574
Average Square Feet Per Unit in Prototype	725	725	
Gap Per Net Square Foot (3)	\$32.78	\$9.39	\$42.17
Prototype 5A			
Est. No. of New Employee Households	29	8	37
Gap Per Household (1)	\$245,600	\$211,000	
Total Gap	\$7,122,400 218	\$1,688,000 218	
No. of Units in Prototype Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$32,672	\$7,743	\$40,415
Average Square Feet Per Unit in Prototype	849	849	ψ+0,+13
Gap Per Net Square Foot (3)	\$38.51	\$9.13	\$47.63
Prototype 5B			
Est. No. of New Employee Households	10	3	13
Gap Per Household (1)	\$245,600	\$211,000	
Total Gap	\$2,456,000	\$633,000	
No. of Units in Prototype	94	94	#22.0C2
Gap Per Unit in Prototype = Supportable Nexus Fee (2) Average Square Feet Per Unit in Prototype	\$26,128 849	\$6,734 849	\$32,862
Gap Per Net Square Foot (3)	\$30.79	\$7.94	\$38.73
Prototype 7A  Est. No. of New Employee Households	7	2	9
Gap Per Household (1)	\$245,600	\$211,000	,
Total Gap	\$1,719,200	\$422,000	
No. of Units in Prototype	71	71	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$24,214	\$5,944	\$30,158
Average Square Feet Per Unit in Prototype	650	650	¢46.40
Gap Per Net Square Foot (3)	\$37.25	\$9.14	\$46.40

#### Table 10 Calculation of Estimated Maximum Nexus Fees: Office and Hotel Prototypes 2017 Minimum Wage Seattle Affordable Housing Nexus Study 2015

D. ( ) = TD	Less than 60% AMI	60% to 80% AMI	Total
Prototype 7B Est. No. of New Employee Households	3	1	4
Gap Per Household (1)	\$245,600	\$211,000	7
Total Gap	\$736,800	\$211,000	
No. of Units in Prototype	34	34	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$21,671	\$6,206	\$27,876
Average Square Feet Per Unit in Prototype	650	650	¢42.00
Gap Per Net Square Foot (3)	\$33.34	\$9.55	\$42.89
Prototype 9A			
Est. No. of New Employee Households	10	3	13
Gap Per Household (1)	\$245,600	\$211,000	
Total Gap	\$2,456,000	\$633,000	
No. of Units in Prototype	106	106	¢20.200
Gap Per Unit in Prototype = Supportable Nexus Fee (2) Average Square Feet Per Unit in Prototype	\$23,170	\$5,972 650	\$30,308
Gap Per Net Square Foot (3)	650 \$35.65	\$9.19	\$44.83
Gap Tel Net Squale 100t (5)	\$33.03	\$5.15	О. г. г.
Prototype 9B			
Est. No. of New Employee Households	7	2	9
Gap Per Household (1)	\$245,600	\$211,000	
Total Gap	\$1,719,200	\$422,000	
No. of Units in Prototype Gap Per Unit in Prototype = Supportable Nexus Fee (2)	72 \$23,878	72 \$5,861	\$30,308
Average Square Feet Per Unit in Prototype	\$23,670 650	650	\$30,300
Gap Per Net Square Foot (3)	\$36.74	\$9.02	\$45.75
The second secon	,	,	,
Prototype 10A			
Est. No. of New Employee Households	8	2	10
Gap Per Household (1) Total Gap	\$245,600	\$211,000 \$422,000	
No. of Units in Prototype	\$1,964,800 84	84	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$23,390	\$5,024	\$30,308
Average Square Feet Per Unit in Prototype	820	820	400/000
Gap Per Net Square Foot (3)	\$28.52	\$6.13	\$34.65
Destatore 10D			
Prototype 10B Est. No. of New Employee Households	6	2	8
Gap Per Household (1)	\$245,600	\$211,000	0
Total Gap	\$1,473,600	\$422,000	
No. of Units in Prototype	57	57	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$25,853	\$7,404	\$30,308
Average Square Feet Per Unit in Prototype	820	820	
Gap Per Net Square Foot (3)	\$31.53	\$9.03	\$40.56
Prototype 11A			
Est. No. of New Employee Households	12	3	15
Gap Per Household (1)	\$245,600	\$211,000	
Total Gap	\$2,947,200	\$633,000	
No. of Units in Prototype	135	135	400.000
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$21,831	\$4,689	\$30,308
Average Square Feet Per Unit in Prototype	650 \$22.50	650 \$7.21	\$40.80
Gap Per Net Square Foot (3)	\$33.59	\$7.21	\$40.00
Prototype 12A			
Est. No. of New Employee Households	8	2	10
Gap Per Household (1)	\$245,600	\$211,000	
Total Gap	\$1,964,800	\$422,000	
No. of Units in Prototype Gap Per Unit in Prototype = Supportable Nexus Fee (2)	107 \$18.363	107 \$3.944	\$30,308
Average Square Feet Per Unit in Prototype	\$18,363 820	\$3,944 820	\$30,300
Gap Per Net Square Foot (3)	\$22.39	\$4.81	\$27.20
•			

- (1) Based on per unit affordability gap by income level for one-bedroom units.
- (2) Equals total gap divided by the number of units in each prototype.(3) Equals gap per unit divided by average square feet per unit for each prototype.

Source: DRA

Table 11
Calculation of Estimated Maximum Nexus Fees: Renter and Owner Housing Prototypes
Current Minimum Wage
Seattle Affordable Housing Nexus Study
2014

		Office Prototype 3A	Office Prototype 6A	Hotel Prototype
Net Square Feet by Prototype		249,480	238,400	117,600
Households Earning Up to 30% AMI				
1. Number of Employee Households		2.9	2.7	7.5
2. Estimated Housing Gap Cost at Per Unit Gap of: (1)	\$294,400	\$853,760	\$794,880	\$2,208,000
3. Cost of Housing Gap Per Square Foot Bldg. Area		\$3.42	\$3.33	<b>\$18.78</b>
Households Earning Between 31% and 60% AMI				
1. Number of Employee Households		41	40	18
2. Estimated Housing Gap Cost at Per Unit Gap of: (1)	\$245,600	\$10,167,840	\$9,750,320	\$4,494,480
3. Cost of Housing Gap Per Square Foot Bldg. Area		\$40.76	\$40.90	\$38.22
Households Earning Between 61% and 80% AMI				
1. Number of Employee Households		16	15	2
2. Estimated Housing Gap Cost at Per Unit Gap of: (1)	\$211,000	\$3,270,500	\$3,059,500	\$422,000
3. Cost of Housing Gap Per Square Foot Bldg. Area		\$13.11	\$12.83	\$3.59
Total Fee Per Square Foot		\$57.29	\$57.07	\$60.58

<sup>(1)</sup> Based on per unit affordability gap for one-bedroom units.

Table 12
Calculation of Estimated Maximum Nexus Fees: Office and Hotel Prototypes
2017 Minimum Wage
Seattle Affordable Housing Nexus Study
2014

		Office Prototype 3A	Office Prototype 6A	Hotel Prototype
Net Square Feet by Prototype		249,480	238,400	117,600
Households Earning Up to 60% AMI				
1. Number of Employee Households		44	42	26
2. Estimated Housing Gap Cost at Per Unit Gap of: (1)	\$245,600	\$10,880,080	\$10,413,440	\$6,336,480
3. Cost of Housing Gap Per Square Foot Bldg. Area		\$43.61	\$43.68	\$53.88
Households Earning Between 61% and 80% AM	11			
1. Number of Employee Households		16	15	2
2. Estimated Housing Gap Cost at Per Unit Gap of: (1)	\$211,000	\$3,270,500	\$3,059,500	\$422,000
3. Cost of Housing Gap Per Square Foot Bldg. Area		\$13.11	\$12.83	\$3.59
Total Fee Per Square Foot		\$56.72	\$56.51	\$57.47

 $<sup>(1) \ \</sup> Based \ on \ per \ unit \ affordability \ gap \ for \ one-bedroom \ units.$ 

Table 13

## Calculation of Estimated Maximum Residential Nexus Fee: Additional Low- and Mid-Rise Residential and Mixed-Use Prototypes Current Minimum Wage Low Cost Scenario

Seattle Affordable Housing Nexus and Economic Impact Study 2015

	Less than 30% AMI	30% to 60% AMI	60% to 80% AMI	Total
Single-Family Infill				
Est. No. of New Employee Households	0.044	0.118	0.047	0.209
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap	\$13,072	\$28,947	\$9,820	
No. of Units in Prototype	1	1	1	¢=1.020
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$13,072	\$28,947	\$9,820	\$51,839
Average Square Feet Per Unit in Prototype  Gap Per Net Square Foot = Supportable Nexus Fee (3)	2,200 \$5.94	2,200 \$13.16	2,200 \$4.46	\$23.56
Cap Let Net Square Loot = Supportable Nexus Lee (3)	\$3.94	\$15.10	\$4.40	\$23.30
Owner Townhomes				
Est. No. of New Employee Households	0.223	0.598	0.232	1.053
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap	\$65,583	\$146,788	\$48,968	
No. of Units in Prototype	6	6	6	¢ 42 557
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$10,930	\$24,465	\$8,161	\$43,557
Average Square Feet Per Unit in Prototype Gap Per Net Square Foot = Supportable Nexus Fee (3)	1,400 \$7.81	1,400 \$17.47	1,400 \$5.83	\$31.11
Cap Let Net Square Loot = Supportable Nexus Lee (3)	\$7.01	\$17.47	\$3.03	\$31.11
Owner Flats				
Est. No. of New Employee Households	0.251	0.676	0.263	1.191
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap	\$73,970	\$166,128	\$55,470	
No. of Units in Prototype Gap Per Unit in Prototype = Supportable Nexus Fee (2)	f 9 210	9 ¢10.450	9 ¢c 163	¢22 041
Average Square Feet Per Unit in Prototype	\$8,219 1,033	\$18,459 1,033	\$6,163 1,033	\$32,841
Gap Per Net Square Foot = Supportable Nexus Fee (3)	\$7.95	\$17.86	\$5.96	\$31.78
Cap Fer Net Square Foot = Supportable Nexus Fee (5)	\$7.55	Ψ17.00	ψ3.50	\$31.70
Rental Flats				
Est. No. of New Employee Households	0.342	0.920	0.358	1.620
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap No. of Units in Prototype	\$100,800	\$225,921	\$75,575	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	12 \$8,400	12 \$18,827	12 \$6,298	\$33,525
Average Square Feet Per Unit in Prototype	792	792	792	\$55,525
Gap Per Net Square Foot = Supportable Nexus Fee (3)	\$10.61	\$23.78	\$7.96	\$42.35
		,	·	
Mixed-Use Grocery Store Est. No. of New Employee Households	5	12	F	23
Gap Per Household (1)	\$294,400	13 \$245,600	5 \$211,000	23
Total Gap	\$1,472,000	\$3,192,800	\$1,055,000	
No. of Units in Prototype	173	173	173	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$8,509	\$18,455	\$6,098	\$33,062
Average Square Feet Per Unit in Prototype	650	650	650	
Gap Per Net Square Foot (3)	\$13.09	\$28.39	\$9.38	\$50.87
Mixed-Use Restaurant				
Est. No. of New Employee Households	2	5	2	9
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	,
Total Gap	\$588,800	\$1,228,000	\$422,000	
No. of Units in Prototype	72	72	72	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$8,178	\$17,056	\$5,861	\$31,094
Average Square Feet Per Unit in Prototype	650	650	650	
Gap Per Net Square Foot (3)	\$12.58	\$26.24	\$9.02	\$47.84
Mixed-Use Entertainment				
Est. No. of New Employee Households	2	6	3	11
Gap Per Household (1)	\$294,400	\$245,600	\$211,000	
Total Gap	\$588,800	\$1,473,600	\$633,000	
No. of Units in Prototype	88	88	88	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$6,691	\$16,745	\$7,193	\$30,630
Average Square Feet Per Unit in Prototype	650	650	650	<b>.</b>
Gap Per Net Square Foot (3)	\$10.29	\$25.76	\$11.07	\$47.12

- $(1) \ \ Based \ on \ per \ unit \ affordability \ gap \ by \ income \ level \ for \ one-bedroom \ units.$
- (2) Equals total gap divided by the number of units in each prototype.
- (3) Equals gap per unit divided by average square feet per unit for each prototype.

Table 14

## Calculation of Estimated Maximum Residential Nexus Fees: Additional Low- and Mid-Rise Residential and Mixed-Use Protot 2017 Minimum Wage Low Cost Scenario

Seattle Affordable Housing Nexus and Economic Impact Study 2015

	Less than 60% AMI	60% to 80% AMI	Total
Single-Family Infill			
Est. No. of New Employee Households	0.162	0.047	0.209
Gap Per Household (1)	\$230,200	\$179,400	
Total Gap	\$37,353	\$8,349	
No. of Units in Prototype Gap Per Unit in Prototype = Supportable Nexus Fee (2)	1 \$37,353.21	1 \$8,349	\$45,703
Average Square Feet Per Unit in Prototype	2,200	2,200	\$ <del>4</del> 3,703
Gap Per Net Square Foot = Supportable Nexus Fee (3)	\$16.98	\$3.80	\$20.77
Owner Townhomes	·	·	
Est. No. of New Employee Households	0.820	0.232	1.053
Gap Per Household (1)	\$230,200	\$179,400	
Total Gap	\$188,865	\$41,634	
No. of Units in Prototype	6	6	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$31,478	\$6,939	\$38,417
Average Square Feet Per Unit in Prototype	1,400	1,400	
Gap Per Net Square Foot = Supportable Nexus Fee (3)	\$22.48	\$4.96	\$27.44
Owner Flats			
Est. No. of New Employee Households	0.928	0.263	1.191
Gap Per Household (1)	\$230,200	\$179,400	
Total Gap	\$213,550	\$47,163	
No. of Units in Prototype	¢22.720	9 #5.240	¢20.000
Gap Per Unit in Prototype = Supportable Nexus Fee (2) Average Square Feet Per Unit in Prototype	\$23,728 1,033	\$5,240 1,033	\$28,968
Gap Per Net Square Foot = Supportable Nexus Fee (3)	\$22.96	\$5.07	\$28.03
	Ψ22.90	ψ3.07	Ψ20.03
Rental Flats	1.262	0.250	1.620
Est. No. of New Employee Households Gap Per Household (1)	1.262 \$230,200	0.358 \$179,400	1.620
Total Gap	\$290,573	\$64,257	
No. of Units in Prototype	12	12	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$24,214	\$5,355	\$29,569
Average Square Feet Per Unit in Prototype	792	792	
Gap Per Net Square Foot = Supportable Nexus Fee (3)	\$30.59	\$6.76	\$37.35
Mixed-Use Grocery Store			
Est. No. of New Employee Households	18	5	23
Gap Per Household (1)	\$230,200	\$179,400	
Total Gap	\$4,143,600	\$897,000	
No. of Units in Prototype Gap Per Unit in Prototype = Supportable Nexus Fee (2)	173	173	\$20.126
Average Square Feet Per Unit in Prototype	\$23,951 650	\$5,185 650	\$29,136
Gap Per Net Square Foot (3)	\$36.85	\$7.98	\$44.83
·	ψ30.03	ψ,σ	ψσσ
Mixed-Use Restaurant Est. No. of New Employee Households	7	2	9
Gap Per Household (1)	\$230,200	\$179,400	9
Total Gap	\$1,611,400	\$358,800	
No. of Units in Prototype	72	72	
Gap Per Unit in Prototype = Supportable Nexus Fee (2)	\$22,381	\$4,983	\$27,364
Average Square Feet Per Unit in Prototype	650	650	
Gap Per Net Square Foot (3)	\$34.43	\$7.67	\$42.10
Mixed-Use Entertainment			
Est. No. of New Employee Households	8	3	11
Gap Per Household (1)	\$230,200	\$179,400	
Total Gap	\$1,841,600	\$538,200	
No. of Units in Prototype	88 \$20.027	88 ¢c 116	¢27.042
Gap Per Unit in Prototype = Supportable Nexus Fee (2) Average Square Feet Per Unit in Prototype	\$20,927 650	\$6,116 650	\$27,043
Gap Per Net Square Foot (3)	650 \$32.20	650 \$9.41	\$41.60
Zap 7 or 1 tot oqual o 1 oot (5)	ψ32.20	ψ,σ.τ.ι	ψ11.00

 $<sup>(1) \ \</sup> Based \ on \ per \ unit \ affordability \ gap \ by \ income \ level \ for \ one-bedroom \ units.$ 

 $<sup>\</sup>ensuremath{\text{(2)}}\ \ \text{Equals total gap divided by the number of units in each prototype.}$ 

<sup>(3)</sup> Equals gap per unit divided by average square feet per unit for each prototype.

Table 15
Calculation of Estimated Maximum Non- Residential Nexus Fees: Additional Non-Residential Land Uses
Current Minimum Wage
Seattle Affordable Housing Nexus and Economic Impact Study
2015

	_	Grocery Store	Restaurant	Entertainment	Stand-Alone Retail	R&D Laboratory	Medical Office
Gross Square Feet of Land Use		50,000	3,000	15,000	25,000	100,000	87,000
TOTAL EMPLOYEES BY INCOME LEVEL							
Households Earning Up to 30% AMI Households Earning Between 31% and 60% AMI Households Earning Between 61% and 80% AMI		3.0 3.9 1.1	0.2 0.2 0.1	0.6 0.8 0.3	1.5 1.9 0.5	5.8 25.3 18.0	1.5 6.6 4.7
Total		7.9	0.5	1.7	3.9	49.2	12.8
FEES UNDER MIDDLE COST SCENARIO							
Households Earning Up to 30% AMI							
Est.Total Housing Gap at Per Unit Gap of: (1) Justifiable Fee Per Square Foot Bldg. Area	\$294,400	\$871,424 \$17.43	\$47,104 \$15.70	\$181,056 \$12.07	\$434,240 \$17.37	\$1,714,880 \$17.15	\$448,960 \$5.16
Households Earning Between 31% and 60% AMI							
Est.Total Housing Gap at Per Unit Gap of: (1) Justifiable Fee Per Square Foot Bldg. Area	\$245,600	\$956,612 \$19.13	\$56,488 \$18.83	\$198,936 \$13.26	\$477,692 \$19.11	\$6,219,820 \$62.20	\$1,622,188 \$18.65
Households Earning Between 61% and 80% AMI							
Est.Total Housing Gap at Per Unit Gap of: (1) Justifiable Fee Per Square Foot Bldg. Area	\$211,000	\$228,935 \$4.58	\$12,660 \$4.22	\$53,805 \$3.59	\$107,610 \$4.30	\$3,806,440 \$38.06	\$994,865 \$11.44
<b>Total Fee Per Square FootLow Cost Scenario</b>		\$41.14	\$38.75	\$28.92	\$40.78	\$117.41	\$35.24

<sup>(1)</sup> Based on per unit affordability gap for one-bedroom units under low-, medium- and high-cost scenarios.

Table 16
Calculation of Estimated Maximum Non- Residential Nexus Fees: Additional Non-Residential Land Uses
2017 Minimum Wage
Seattle Affordable Housing Nexus and Economic Impact Study
2015

	Grocery Store	Restaurant	Entertainment	Stand-Alone Retail	R&D Laboratory	Medical Office
Net Square Feet of Land Use	50,000	3,000	15,000	25,000	100,000	87,000
TOTAL EMPLOYEES BY INCOME LEVEL						
Households Earning Up to 60% AMI Households Earning Between 61% and 80% AMI	6.9 1.1	0.4 0.1	1.4 0.3	3.4 0.5	31.2 18.0	8.1 4.7
Total	7.9	0.5	1.7	3.9	49.2	12.8
FEES UNDER MID COST SCENARIO						
Households Earning Up to 60% AMI						
Est. Total Housing Gap at Per Unit Gap of: (1)  Justifiable Fee Per Square Foot Bldg. Area	245,600 \$1,683,588 <b>\$33.67</b>	\$95,784 <b>\$31.93</b>	\$349,980 <b>\$23.33</b>	' '	\$7,650,440 <b>\$76.50</b>	\$1,996,728 <b>\$22.95</b>
Households Earning Between 61% and 80% AMI						
Est. Total Housing Gap at Per Unit Gap of: (1) \$.  Justifiable Fee Per Square Foot Bldg. Area	211,000 \$228,935 <b>\$4.58</b>	\$12,660 <b>\$4.22</b>	\$53,805 <b>\$3.59</b>	' '	\$3,806,440 <b>\$38.06</b>	\$994,865 <b>\$11.44</b>
<b>Total Fee Per Square FootLow Cost Scenario</b>	\$38.25	\$36.15	\$26.92	\$37.90	\$114.57	\$34.39

<sup>(1)</sup> Based on per unit affordability gap for one-bedroom units under low-, medium- and high-cost scenarios.

Table 17 **Rental Affordability Gap Calculations** Low and Mid-Rise Prototypes Low Cost Scenario Seattle Affordable Housing Nexus and Economic Impact Study Economic Analysis 2015

## Assumptions

HUD Median Household Income, Seattle-Bellev Affordable Housing Expense As a % of Income	ue HMFA, 2015		\$89,600 30%				
No. of Bedrooms	Studio	1 Bedroom	2 Bedroom	3 Bedroom	4 Bedroom		
Household Size	1.0 Persons	1.5 Persons	3.0 Persons	4.5 Persons	6.0 Persons		
Household Size Income Adjust. Factor	70%	75%	90%	104%	116%		
Renter Utility Allowance, City of Seattle (1)							
Tenant Pays All Utilities (2)	\$110	\$110	\$160	\$245	\$325		
Tenant Pays Heat and Electricity	\$35	\$35	\$60	\$95	\$155		
Tenant Pays Electricity Only	\$15 *110	\$15	\$20	\$35	\$65		
Assumed for these calculations:	\$110	\$110	\$160	\$245	\$325		
Miscellaneous Income Per Unit Per Year	\$100						
Vacancy Rate	3.00%						
Operating Cost Per Unit Per Year							
Low-Rise/Mid-Rise Prototypes, Citywide	\$6,760						
Mortgage Interest Rate	6.50%						
Mortgage Amortization (Years)	30						
Debt Coverage Ratio	1.00						
Prototype Development Cost per Net SF (3)	\$368						
Income Levels by Family Size	1.0 Persons	1.5 Persons	2.0 Persons	2.5 Persons	3.0 Persons	4.0 Persons	5.0 Persons
Household Size Income Adjust. Factor	70%	75%	80%	85%	90%	100%	108%
30% of Median	\$18,850	\$20,200	\$21,550	\$22,900	\$24,250	\$26,900	\$29,100
60% of Median	\$37,680	\$40,350	\$43,020	\$45,720	\$48,420	\$53,760	\$58,080
80% of Median	\$46,100	\$49,375	\$52,650	\$55,950	\$59,250	\$65,800	\$71,100
Affordability Gap Calculations	Studio	1 Bedroom	2 Bedroom				
Average Unit Size (3)	650	800	1,200				
Average Per Unit Development Cost	\$239,200	\$294,400	\$441,600				
30% of Median							
Annual Income Limit	\$18,850	\$20,200	\$24,250				
Affordable Monthly Housing Expense	\$471	\$505	\$606				
Less: Monthly Utility Allowance	(\$110)	(\$110)	(\$160)				
Affordable Monthly Rent	\$361	\$395	\$446				
Annual Gross Rental Income Per Unit	\$4,332	\$4,740	\$5,352				
Less: Vacancy	(\$130)	(\$142)	(\$161)				
Less: Annual Unit Operating Costs	(\$6,760)	(\$6,760)	(\$6,760)				
Net Operating Income Per Unit	(\$2,558)	(\$2,162)	(\$1,569)				
Available for Debt Service	(\$2,558)	(\$2,162)	(\$1,569)				
Supportable Mortgage Per Unit	(\$33,700)	(\$28,500)	(\$20,700)				
Per Unit Affordability Gap (4)	\$239,200	\$294,400	\$441,600				
CON/ -{ \ \ - \ \ \ - \ \ \ - \ \ \ - \ \ \ - \ \ \ \ \ - \							
60% of Median Annual Income Limit	\$37,680	\$40,350	\$48,420				
Affordable Monthly Housing Expense	\$942	\$1,009	\$1,211				
Less: Monthly Utility Allowance	(\$110)	(\$110)	(\$160)				
Affordable Monthly Rent	\$832	\$899	\$1,051				
Annual Gross Rental Income Per Unit	\$9,984	\$10,788	\$12,612				
Less: Vacancy	(\$300)	(\$324)	(\$378)				
Less: Annual Unit Operating Costs	(\$6,760)	(\$6,760)	(\$6,760)				
Net Operating Income Per Unit	\$2,924	\$3,704	\$5,474				
Available for Debt Service	\$2,924	\$3,704	\$5,474				
Supportable Mortgage Per Unit	\$38,600	\$48,800	\$72,200				
Per Unit Affordability Gap (4)	\$200,600	\$245,600	\$369,400				
000/ -{ A A							
80% of Median	\$46,100	\$40.275	\$50.250				
Annual Income Limit Affordable Monthly Housing Cost	\$46,100 \$1,153	\$49,375 \$1,234	\$59,250 \$1,481				
Less: Monthly Utility Allowance	(\$110)	(\$110)	(\$160)				
Affordable Monthly Rent	\$1,043	\$1,124	\$1,321				
Annual Gross Rental Income Per Unit	\$12,516	\$13,488	\$15,852				
Less: Vacancy	(\$375)	(\$405)	(\$476)				
Less: Annual Unit Operating Costs	(\$6,760)	(\$6,760)	(\$6,760)				
Net Operating Income Per Unit	\$5,381	\$6,323	\$8,616				
Supportable Mortgage Per Unit	\$70,900	\$83,400	\$113,600				
Per Unit Affordability Gap (4)	\$168,300	\$211,000	\$328,000				

Source: City of Seattle Department of Planning and Development; Seattle Housing Authority; DRA

Source: Seattle Housing Authority, effective 11/1/2013.
 Includes electricity, heating, water, and garbage.
 From DRA" Affordable Housing Incentive Program Economic Analysis," 2014. Represents average cost per net SF for low- and mid-rise rental prototypes. Per NSF development costs escalated 5% from \$350 in 2014 to \$368 in 2015.
 Equals per unit development cost less per unit supportable mortgage.

	Resid. Rental	Downto Resid. Owner	Own/HR Office	Hotel		ake Union ial Rental	Residentia
Prototype Number (1)	Prototype 1A	Prototype 2A	Prototype 3A	Hotel	Prototype 4A	Prototype 4B	Prototype 5A
	With Incentive	With Incentive	With Incentive		With Incentive	No Incentive	With Incentive
Zoning	In DMC 240/290- 400 and HR	In DMC 240/290- 400 and HR	In DOC 2 500/300- 500	In DOC 2 500/300- 500	in SM 160/85-240	in SM 160/85-240	in SM 160/85-240
Zip Code(s)	98121/ 98191 / 98101	98121/98191 / 98101	98121 / 98101	98121 / 98101	98109	98109	98109
Neighborhood/Geographic Subarea	Downtown Urban Center / First Hill	Downtown Urban Center / First Hill	Downtown Urban Center	Downtown Urban Center	SLU Urban Center	SLU Urban Center	SLU Urban Center
Primary Land Use(s)	Residential	Residential	Office	Hotel	Residential	Residential	Residential
Residential Tenure (Renter/Owner)	Renter	Owner			Renter	Renter	Ownership
Total Site Area (Acre) Total Site Area (SF)	0.34 Acres 15,000	0.34 Acres 15,000	0.74 Acres 32,400	0.34 Acres 15,000	0.48 Acres 21,000	0.48 Acres 21,000	0.48 Acres 21,000
Construction Type	Type I	Type I	Type I	Type I	Type I	Type V over Type I	Type I
Approximate Building Stories	40 Stories	40 Stories	8 Stories	14 Stories	24 Stories	7 Stories	24 Stories
Total Gross Building SF, Including Parking (2)	509,500	524,500	447,000	206,000	341,250	153,000	341,250
Total Gross Building SF Above Ground (Incl. Pkg) (3) Floor Area Ratio (Gross Bldg SF, Incl. Pkg.) (3)	449,500 29.97	449,500 29.97	324,000 10.00	206,000 13.73	278,250 13.25	132,000 6.29	278,250 13.25
Total Gross Building SF (Excluding All Parking) (4)	344,500 SF	296,500 SF	201,000 SF	147,000 SF	204,250 SF	99,000 SF	179,250 SF
Total Gross Building SF Above Ground Total Gross Parking SF Above Ground Total Gross SF Above Ground Excluding Parking Total Net Building SF Excluding Parking	449,500 45,000 404,500 311,000	449,500 78,000 371,500 286,000	324,000 0 324,000 249,000	206,000 0 206,000 164,800	278,250 12,000 266,250 205,000	132,000 12,000 120,000 92,000	278,250 36,000 242,250 187,000
Office or Hotel Space (Gross SF) Ground Floor Retail Space (Gross SF) Ground Floor Service/Lobby Space Residential Space (Gross SF)	0 3,000 12,000 389,500	0 3,000 12,000 356,500	324,000 3,000 32,400 0	147,000 2,500 15,000 0	0 3,000 12,750 250,500	0 3,000 0 117,000	0 3,000 12,750 226,500
Building Efficiency Ratio (%) Site Coverage (Bldg. Footprint) (%) Max. Bldg Footprint, Ground Floor (Gross SF) Max. Tower Floor Plate (Gross SF) Assumed Floor Plate for Commercial (Gross SF)	77% 100% 15,000 10,700	77% 100% 15,000 10,700	77% 100% 32,400 N/A 25,000	80% 100% 15,000	77% 75% 15,750 10,500	77% 100% 21,000 N/A	77% 75% 15,750 10,500
Levels Underground Parking Levels Structured Parking Above Grade Stories of Ground Floor Retail/Lobby/Service Space Stories of Office Space Stories of Residential Space Total Stories Above Ground	4.0 3.0 1.0 0.0 36.0 40.0	5.0 5.2 1.0 0.0 33.8 40.0	4.0 0.0 1.0 10.0 0.0 11.0	4.0 0.0 1.0 14.0 0.0 14.0	3.0 0.6 1.0 0.0 22.4 24.0	1.0 0.6 0.1 0.0 5.6 6.3	3.0 1.7 1.0 0.0 21.3 24.0
Net Rentable SF Retail Net Rentable SF Office Net SF Residential Net SF Total	2,100 SF 0 SF 308,900 SF 311,000 SF	2,100 SF 0 SF 283,900 SF 286,000 SF	2,100 SF 249,480 SF 0 SF 251,580 SF	2,000 SF 117,600 SF 0 SF 119,600 SF	2,100 SF 0 SF 202,900 SF 205,000 SF	2,100 SF 0 SF 89,900 SF 92,000 SF	2,100 SF 0 SF 184,900 SF 187,000 SF
Unit Bedroom Count Distribution Studio One Bedroom Two Bedroom Three Bedroom Total	25% 50% 25% 0% 100%	33% 50% 15% 2% 100%	0 0 0 0	0 0 0 0	25% 50% 25% 0% 100%	25% 50% 25% 0% 100%	25% 55% 18% 2% 100%
Units by BR Count Studio One Bedroom Two Bedroom Three Bedroom Total Residential Units Residential Density (units per acre) (1) Unit Size (Net SF)	107 213 106 0 <b>426</b> 1237 du/a	114 172 52 6 344 999 du/a	0 0 0 0 0 0 du/a	0 0 0 0 <b>0</b> <b>0</b>	70 140 70 0 <b>280</b> <b>581 du/a</b>	31 62 31 0 124 257 du/a	55 120 39 4 <b>218</b> <b>452 du/a</b>
Studio One Bedroom Two Bedroom Three Bedroom Average Unit Size	500 SF 700 SF 1,000 SF 0 SF 725 SF	650 SF 800 SF 1,200 SF 1,500 SF 825 SF	0 SF 0 SF 0 SF 0 SF 0 SF	0 SF 0 SF 0 SF 0 SF 0 SF	500 SF 700 SF 1,000 SF 0 SF 725 SF	500 SF 700 SF 1,000 SF 0 SF 725 SF	650 SF 800 SF 1,200 SF 1,500 SF 849 SF
Parking Ratio - Residential (Spaces/Unit) Parking Ratio - Officel (Spaces/1000 GSF)	0.65	1.17 0	0	0	0.70 0	0.70 0	1.20 0
Parking Ratio - Officer (Spaces/1000 GSF)	0	0	0	1	0	0	0
Parking Spaces Per Floor No. of Underground Parking Spaces No. of Above-Ground Parking Spaces Total Parking Spaces Provided Total Parking Spaces Required Gross SF/Parking Spaces (Incl. Circulation) Total Parking SF Total Underground Parking SF Total Parking SF Above Grade	39 Spaces/Floor 158 Spaces 119 Spaces 277 Spaces 277 Spaces 380 SF 105,000 SF 60,000 SF 45,000 SF	39 Spaces/Floor 197 Spaces 205 Spaces 402 Spaces 402 Spaces 380 SF 153,000 SF 75,000 SF 78,000 SF	85 Spaces/Floor 324 Spaces 0 Spaces 324 Spaces 324 Spaces 380 SF 123,000 SF 0 SF	37 Spaces/Floor 147 Spaces 0 Spaces 147 Spaces <b>0 Spaces</b> 400 SF 58,800 SF 58,800 SF 0 SF	55 Spaces/Floor 166 Spaces 30 Spaces 196 Spaces 196 Spaces 380 SF 74,000 SF 63,000 SF 11,000 SF	55 Spaces/Floor 55 Spaces 32 Spaces 87 Spaces 87 Spaces 38 SF 33,000 SF 21,000 SF	55 Spaces/Floor 166 Spaces 95 Spaces 261 Spaces 261 Spaces 380 SF 99,000 SF 63,000 SF 36,000 SF

<sup>(1)</sup> Represents prototype number from DRA's "Affordable Housing Incentive Program Economic Analysis", 2014. That study does not include a hotel prototype.
(2) Includes below-grand and above-grade parking.
(3) Includes above-grade parking; excludes underground parking. Excludes modest ground floor retail for commercial prototypes.
(4) Excludes above-grade and below-grade parking.
Source: City of Seattle Department of Planning and Development; DRA

	South Lake Union			to Midrise				
Prototype Number (1)	Ownership Prototype 5B	Commercial Prototype 6A	Resident Prototype 7A	rial Rental Prototype 7B	Resident Prototype 9A	ial Rental Prototype 9B	Residentia Prototype 10A	
Trodype Number (1)	No Incentive	With Incentive	With Incentive	No Incentive	With Incentive	No Incentive	With Incentive	
Zoning	in SM 160/85-240	in SM 160/85-240	in MR	in LR3	in NC 65	in NC 40	in NC 65	
Zip Code(s)	98109	98109	Zips throughout the city except downtown and SLU. Outside Downtown and Urban Villages	Zips throughout the city except downtown and SLU. Urban Centers Outside Downtown and Urban	Zips throughout the city except downtown and SLU. Outside Downtown and Urban Villages	Zips throughout the city except downtown and SLU. Outside Downtown and Urban Villages	Zips throughout the city except downtown and SLU. Outside Downtown and Urban Villages	
Neighborhood/Geographic Subarea	SLU Urban Center	SLU Urban Center	Citywide	Villages Citywide	Citywide	Citywide	Citywide	
Primary Land Use(s)	Residential	Commercial	Residential	Residential	Res over Retail	Res over Retail	Res over Retail	
Residential Tenure (Renter/Owner)	Ownership	n/a	Renter	Renter	Renter	Renter	Ownership	
Total Site Area (Acre) Total Site Area (SF)	0.48 Acres 21,000	0.99 Acres 43,000	0.33 Acres 14,400	0.33 Acres 14,400	0.46 Acres 20,000	0.46 Acres 20,000	0.46 Acres 20,000	
Construction Type	Type V over Type I	Type I	Type V over Type I	Type V	Type V over Type I	Type V	Type V over Type I	
Approximate Building Stories	7 Stories	8 Stories	7 Stories	4 Stories	6 Stories	4 Stories	6 Stories	
Total Gross Building SF, Including Parking (2)	148,000	414,000	77,200	36,800	119,000	81,000	127,000	
Total Gross Building SF Above Ground (Incl. Pkg) (3) Floor Area Ratio (Gross Bldg SF, Incl. Pkg.) (3)	119,000 5.67	301,000 7.00	61,200 4.25	28,800 2.00	95,000 4.75	65,000 3.25	95,000 4.75	
Total Gross Building SF (Excluding All Parking) (4)	76,000 SF	188,000 SF	45,200 SF	20,800 SF	71,000 SF	49,000 SF	63,000 SF	
Total Gross Building SF Above Ground Total Gross Parking SF Above Ground	119,000 13,000	301,000 0	61,200 0	28,800 0	95,000 0	65,000 0	95,000 0	
Total Gross SF Above Ground Excluding Parking Total Net Building SF Excluding Parking	106,000 82,000	301,000 241,000	61,200 46,000	28,800 22,000	95,000 71,000	65,000 49,000	95,000 71,000	
Office or Hotel Space (Gross SF) Ground Floor Retail Space (Gross SF) Ground Floor Service/Lobby Space	0 3,000 0	298,000 3,000 43,000	0 0	0 0	0 3,000	0 3,000	0 3,000	
Residential Space (Gross SF)	103,000	0	61,200	28,800	92,000	62,000	92,000	
Building Efficiency Ratio (%) Site Coverage (Bldg. Footprint) (%) Max. Bldg Footprint, Ground Floor (Gross SF) Max. Tower Floor Plate (Gross SF) Assumed Floor Plate for Commercial (Gross SF)	77% 100% 21,000 N/A	80% 100% 43,000 N/A 25,000	75% 66% 9,540 N/A	75% 50% 7,200 N/A	75% 100% 20,000 N/A	75% 100% 20,000 N/A	75% 100% 20,000 N/A	
Levels Underground Parking Levels Structured Parking Above Grade Stories of Ground Floor Retail/Lobby/Service Space Stories of Office Space Stories of Residential Space Total Stories Above Ground	1.4 0.6 0.1 0.0 4.9 5.7	3.0 0.0 1.0 6.9 0.0 7.9	1.1 0.0 0.0 0.0 6.4 6.4	0.5 0.0 0.0 0.0 4.0 4.0	1.2 1.0 0.2 0.0 4.6 5.8	0.8 0.0 0.2 0.0 3.1 3.3	1.6 0.0 0.2 0.0 4.6 4.8	
Net Rentable SF Retail Net Rentable SF Office Net SF Residential Net SF Total	2,100 SF 0 SF 79,900 SF 82,000 SF	2,100 SF 238,400 SF 0 SF 240,500 SF	0 SF 0 SF 46,000 SF 46,000 SF	0 SF 0 SF 22,000 SF 22,000 SF	2,100 SF 0 SF 68,900 SF 71,000 SF	2,100 SF 0 SF 46,900 SF 49,000 SF	2,100 SF 0 SF 68,900 SF 71,000 SF	
Unit Bedroom Count Distribution Studio One Bedroom Two Bedroom Three Bedroom Total	25% 55% 18% 2% 100%	0 0 0 0	25% 50% 25% 0% 100%	25% 50% 25% 0% 100%	25% 50% 25% 0% 100%	25% 50% 25% 0% 100%	0% 50% 40% 10% 100%	
Units by BR Count Studio One Bedroom Two Bedroom Three Bedroom Total Residential Units Residential Density (units per acre) (1)	24 52 17 1 <b>94</b> <b>195 du/a</b>	0 0 0 0 0 0 du/a	18 36 17 0 <b>71</b> <b>215 du/a</b>	9 17 8 0 <b>34</b> <b>103 du/a</b>	27 53 26 0 106 231 du/a	18 36 18 0 72 157 du/a	0 42 34 8 <b>84</b> <b>183 du/a</b>	
Unit Size (Net SF) Studio One Bedroom Two Bedroom Three Bedroom Average Unit Size	650 SF 800 SF 1,200 SF 1,500 SF 849 SF	0 SF 0 SF 0 SF 0 SF 0 SF	450 SF 650 SF 850 SF 0 SF 650 SF	450 SF 650 SF 850 SF 0 SF 650 SF	450 SF 650 SF 850 SF 0 SF 650 SF	450 SF 650 SF 850 SF 0 SF 650 SF	0 SF 700 SF 900 SF 1,100 SF 820 SF	
Parking Ratio - Residential (Spaces/Unit)	1.19	0	0.60	0.60	0.60	0.60	1.0	
Parking Ratio - Officel (Spaces/1000 GSF)	0	Max 1	0	0	0	0	0	
Parking Ratio - Hotel (Spaces/Room)  Parking Spaces Per Floor No. of Underground Parking Spaces No. of Above-Ground Parking Spaces  Total Parking Spaces Provided Total Parking Spaces Required Gross SFParking Space (Incl. Circulation) Total Parking SF Total Underground Parking SF Total Underground Parking SF Total Parking SF Above Grade	0 55 Spaces/Floor 77 Spaces 35 Spaces 112 Spaces 112 Spaces 380 SF 43,000 SF 29,000 SF 13,000 SF	0 113 Spaces/Floor 298 Spaces 0 Spaces 298 Spaces 298 Spaces 380 SF 113,000 SF 13,000 SF	0 38 Spaces/Floor 43 Spaces 0 Spaces 43 Spaces 43 Spaces 43 Spaces 380 SF 16,000 SF 16,000 SF 0 SF	0 38 Spaces/Floor 20 Spaces 0 Spaces 20 Spaces 20 Spaces 380 SF 8,000 SF 0 SF	0 53 Spaces/Floor 64 Spaces 0 Spaces 64 Spaces 64 Spaces 380 SF 24,000 SF 0 SF	0 53 Spaces/Floor 43 Spaces 0 Spaces 43 Spaces 43 Spaces 380 SF 16,000 SF 16,000 SF 0 SF	0 53 Spaces/Floor 84 Spaces 0 Spaces 84 Spaces 84 Spaces 380 SF 32,000 SF 32,000 SF 0 SF	

<sup>(1)</sup> Represents prototype number from DRA's \*Affordable (2) Includes below-grand and above-grade parking. (3) Includes above-grade parking; excludes underground p (4) Excludes above-grade and below-grade parking. Source: City of Seattle Department of Planning and Devel

		6 Stories t	o 7 Stories
	Ownership	Residential Rental	Residential Owner
Prototype Number (1)	Prototype 10B No Incentive	Prototype 11A With Incentive	Prototype 12A With Incentive
	140 incentive	With incentive	With incentive
Zoning	in NC 40	in NC 85	in NC 85
Zonnig	III NC 40	III NC 03	III NC 05
	Zips throughout the city except	Zips throughout the city except	Zips throughout the city except
Zip Code(s)	downtown and SLU.	downtown and SLU.	downtown and SLU.
	Outside Downtown	Outside Downtown	Outside Downtown
Neighborhood/Geographic Subarea	and Urban Villages Citywide	and Urban Villages Citywide	and Urban Villages Citywide
Primary Land Use(s)	Res over Retail	Res over Retail	Res over Retail
Residential Tenure (Renter/Owner)	Ownership	Renter	Ownership
Total Site Area (Acre)	0.46 Acres	0.46 Acres	0.46 Acres
Total Site Area (SF)	20,000	20,000	20,000
Construction Type	Type V	Type V over Type I	Type V over Type I
Approximate Building Stories	4 Stories	7 Stories	7 Stories
Total Gross Building SF, Including Parking (2)	87,000	171,000	161,000
Total Gross Building SF Above Ground (Incl. Pkg) (3) Floor Area Ratio (Gross Bldg SF, Incl. Pkg.) (3)	65,000 3.25	120,000 6.00	120,000 6.00
Total Gross Building SF (Excluding All Parking) (4)	43,000 SF	69,000 SF	79,000 SF
Total Gross Building SF Above Ground	65,000	120,000	120,000
Total Gross Parking SF Above Ground Total Gross SF Above Ground Excluding Parking	0 65,000	0 120,000	0 120,000
Total Net Building SF Excluding Parking	49,000	90,000	90,000
Office or Hotel Space (Gross SF) Ground Floor Retail Space (Gross SF)	0 3,000	0 3,000	0 3,000
Ground Floor Service/Lobby Space Residential Space (Gross SF)	62,000	117,000	117,000
Building Efficiency Ratio (%)	75%	75%	75%
Site Coverage (Bldg. Footprint) (%)	100%	100%	100%
Max. Bldg Footprint, Ground Floor (Gross SF) Max. Tower Floor Plate (Gross SF)	20,000 N/A	20,000 N/A	20,000 N/A
Assumed Floor Plate for Commercial (Gross SF)	10/4	IVA	IV/A
Levels Underground Parking	1.1	2.6	2.0
Levels Structured Parking Above Grade Stories of Ground Floor Retail/Lobby/Service Space	0.0 0.2	0.0 0.2	0.0 0.2
Stories of Office Space	0.0	0.0	0.0
Stories of Residential Space Total Stories Above Ground	3.1 3.3	5.9 6.0	5.9 6.0
Net Rentable SF Retail Net Rentable SF Office	2,100 SF 0 SF	2,100 SF 0 SF	2,100 SF 0 SF
Net SF Residential	46,900 SF	87,900 SF	87,900 SF
Net SF Total	49,000 SF	90,000 SF	90,000 SF
Unit Bedroom Count Distribution Studio	0%	25%	0%
One Bedroom	50%	50%	50%
Two Bedroom Three Bedroom	40%	25%	40%
Total	10% 100%	0% 100%	10% 100%
Units by BR Count		_	
Studio One Bedroom	0 29	34 68	0 54
Two Bedroom	23	33	43
Three Bedroom Total Residential Units	5 <b>57</b>	0 135	10 <b>107</b>
Residential Density (units per acre) (1)	124 du/a	294 du/a	233 du/a
Unit Size (Net SF) Studio	0 SF	450 SF	0 SF
One Bedroom	700 SF	650 SF	700 SF
Two Bedroom Three Bedroom	900 SF 1,100 SF	850 SF 0 SF	900 SF 1,100 SF
Average Unit Size	820 SF	650 SF	820 SF
Parking Ratio - Residential (Spaces/Unit)	1.0	1.0	1.0
Parking Ratio - Officel (Spaces/1000 GSF)	0	0	0
Parking Ratio - Hotel (Spaces/Room)	0	0	0
Parking Spaces Per Floor	53 Spaces/Floor	53 Spaces/Floor	53 Spaces/Floor
No. of Underground Parking Spaces No. of Above-Ground Parking Spaces	57 Spaces 0 Spaces	135 Spaces 0 Spaces	107 Spaces 0 Spaces
Total Parking Spaces Provided	57 Spaces	135 Spaces	107 Spaces
Total Parking Spaces Required Gross SF/Parking Space (Incl. Circulation)	57 Spaces 380 SF	135 Spaces 380 SF	107 Spaces 380 SF
Total Parking SF	22,000 SF	51,000 SF	41,000 SF
Total Underground Parking SF	22,000 SF	51,000 SF	41,000 SF
Total Parking SF Above Grade	0 SF	0 SF	0 SF

<sup>(1)</sup> Represents prototype number from DRA's "Affordable (2) Includes below-grand and above-grade parking. (3) Includes above-grade parkin; excludes underground p (4) Excludes sbove-grade and below-grade parking. Source: City of Seattle Department of Planning and Deve

Table 19 Additional Development Prototypes Seattle Affordable Housing Nexus and Economic Impact Study 2015

2015	I	Residential Owner		Resid. Rental				
	Single-Family Infill	Owner Townhomes	Owner Flats	Rental Flats	Mixed-Use / Grocery Store	Mixed-Use / Restaurant	Mixed-Use / Entertainment	Single-Story Stand Alone Retail
Zoning	SF-5000	LR2	LR2	LR2	SM / C / NC - 65	9b in NC 65	SM / C / NC - 65	IG/IC/C
Zip Code(s)  Neighborhood/Geographic Subarea	Many including: 98107, 98103, 98122, 98144, 98106 Ballard, Fremont, Capitol Hill / Central Area, North Beacon Hill,	Many including: 98107, 98103, 98122, 98144, 98106 Ballard, Fremont, Capitol Hill / Central Area, North Beacon Hill,	Many including: 98107, 98103, 98122, 98144, 98106 Ballard, Fremont, Capitol Hill / Central Area, North Beacon Hill,	Many including: 98107, 98103, 98122, 98144, 98106 Ballard, Fremont, Capitol Hill / Central Area, North Beacon Hill, Delridge	Multiple Multiple	Zips throughout the city except downtown and SLU. Urban Centers Outside Downtown and Urban Villages Citywide	Multiple Multiple	Multiple Multiple
Primary Land Use(s)	Delridge Residential	Delridge Residential	Delridge Residential	Residential	Rental Apts.	Rental Apts.	Rental Apts.	Retail
Residential Tenure (Renter/Owner)	Owner	Owner	Owner	Renter	Grocery Store Rental	Restaurant Rental	Entertainment Rental	N/A
Total Site Area (Acre)	0.11 Acres	0.22 Acres	0.22 Acres	0.22 Acres	1.15 Acres	0.46 Acres	0.46 Acres	1.15 Acres
Total Site Area (SF)  Construction Type  Parking Type	5,000 Type VB Above Grade	9,600 Type VB Above Grade	9,600 Type VB Subterranean	9,600 Type VB Subterranean	50,000 Type V over Type I Subterranean	20,000 Type V over Type I Subterranean	20,000 Type V over Type I Subterranean	50,000 Type VB Surface
Approximate Building Stories	Garage 2 Stories	Garage 3 Stories	3 Stories	3 Stories	6 Stories	4 Stories	6 Stories	1 Stories
Total Gross Building SF, Including Subt. Parking (1)	N/A	N/A	N/A	N/A	310,000 SF	81,740 SF	128,200 SF	25,000 SF
Total Gross Building SF Above Ground (Incl. Pkg) Floor Area Ratio (Gross Bldg SF, Incl. Pkg.)	N/A	N/A	N/A	N/A	50,000 6.00	65,000 3.25	95,000 4.75	25,000 0.50
Total Gross Building SF (Excluding Parking) Floor Area Ratio (Gross Bldg SF, Excl. Pkg.)	N/A N/A	N/A N/A	N/A N/A	N/A N/A	210,000 SF 4.20	65,400 SF 3.27	95,000 SF 4.75	25,000 SF 0.50
Total Gross Building SF Above Ground Total Gross Parking SF Above Ground Total Gross SF Above Ground Excluding Parking Total Net Building SF Excluding Parking					200,000	65,000 0 65,000		
Building Efficiency Ratio (%) Site Coverage (Bldg. Footprint) (%) Max. Bldg Footprint, Ground Floor (Gross SF) Average Floor Plate Above Ground Floor Max. Tower Floor Plate (Cross SF) Assumed Floor Plate for Commercial (Gross SF)	100% N/A N/A	100% N/A N/A	80% N/A N/A	80% N/A N/A	75% 100% 50,000	75% 100%	75% 100%	80% 100%
Levels Underground Parking Levels Structured Parking Above Grade Stories of Ground Floor Retal'Idobby/Service Space Stories of Non-Residential Space (2nd Story and Above) Stories of Residential Space Total Stories Above Ground	0.0 0.0 0.0 0.0 2.0 2.0	0.0 0.0 0.0 0.0 3.0 3.0	1.0 0.0 0.0 0.0 3.0 3.0	0.0 0.0 0.0 0.0 0.0 3.0 3.0	2.0 1.0 0.0 0.0 5.0 6.0	0.0 0.0 1.0 0.0 0.0 1.0	2.0 0.0 1.0 0.0 5.0 6.0	0.0 0.0 1.0 0.0 0.0
Net Rentable SF R&D Net Rentable SF General Office Net Rentable SF Medical Office Net Rentable SF Medical Office Net Rentable SF Retail Net Rentable SF Resiaurant Net Rentable SF Resiaurant Net Rentable SF Entertainment Net Rentable SF Entertainment Net Rentable SF Total Net Rentable SF Total Net Rentable SF Total Net SF Community Space Total Net Bild, SF	0 SF 0 SF 0 SF 0 SF 0 SF 0 SF 2,200 SF 2,200 SF 2,200 SF 2,200 SF	0 SF 0 SF 0 SF 0 SF 0 SF 0 SF 0 SF 8,400 SF 8,400 SF 8,400 SF	0 SF 0 SF 0 SF 0 SF 0 SF 0 SF 9,300 SF 9,300 SF 9,300 SF 9,300 SF	0 SF 0 SF 0 SF 0 SF 0 SF 0 SF 9,500 SF 9,500 SF 9,500 SF 9,500 SF	0 SF 0 SF 0 SF 0 SF 37,500 SF 0 SF 112,500 SF 150,000 SF 7,500 SF 157,500 SF	0 SF 0 SF 0 SF 0 SF 0 SF 2,250 SF 0 SF 46,800 SF 49,050 SF 0 SF	0 SF 0 SF 0 SF 0 SF 0 SF 0 SF 11,250 SF 60,000 SF 71,250 SF 0 SF 71,250 SF	0 SF 0 SF 0 SF 20,000 SF 0 SF 0 SF 0 SF 20,000 SF 0 SF 20,000 SF
Gross SF R&D Gross SF Office Gross SF Medical Office Gross SF Retail Gross SF Restail Gross SF Se Grocery Store Gross SF Restaurant Gross SF Residential Gross SF Residential Gross SF Community Space Total Gross BIdg. SF	0 SF 0 SF 0 SF 0 SF 0 SF 0 SF 0 SF 2,200 SF	0 SF 0 SF 0 SF 0 SF 0 SF 0 SF 0 SF 8,400 SF	0 SF 0 SF 0 SF 0 SF 0 SF 0 SF 11,625 SF	0 SF 0 SF 0 SF 0 SF 0 SF 0 SF 11,875 SF	0 SF 0 SF 0 SF 0 SF 50,000 SF 0 SF 150,000 SF 200,000 SF	0 SF 0 SF 0 SF 0 SF 0 SF 3,000 SF 0 SF 62,400 SF	0 SF 0 SF 0 SF 0 SF 0 SF 0 SF 15,000 SF 80,000 SF	0 SF 0 SF 0 SF 25,000 SF 0 SF 0 SF 0 SF 0 SF
Unit Bedroom Count Distribution Studio One Bedroom Two Bedroom Three Bedroom Total	0% 0% 0% 100%	0% 0% 100% 0% 100%	0% 67% 0% 33% 100%	50% 33% 17% 0% 100%	25% 50% 25% 0% 100%	25% 50% 25% 0% 100%	25% 50% 25% 0% 100%	N/A N/A N/A N/A N/A
Units by BR Count Studio One Bedroom Three Bedroom Three Bedroom Total Residential Units Residential Density (units per acre) Unit Size (Net SF) Studio One Bedroom Two Bedroom	0 0 0 1 1 9 du/a 0 SF 0 SF 0 SF	0 6 0 <b>6</b> <b>27 du/a</b> 0 SF 0 SF 1,400 SF	0 6 3 9 <b>41 du/a</b> 0 SF 800 SF 1,500 SF	6 4 2 0 12 54 du/a 650 SF 800 SF 1,200 SF	43 87 43 0 <b>173</b> <b>151 du/a</b> 450 SF 650 SF	18 36 18 0 <b>72</b> <b>157 du/a</b> 450 SF 650 SF 850 SF	22 44 22 0 <b>88</b> <b>192 du/a</b> 450 SF 650 SF 850 SF	N/A N/A N/A N/A N/A N/A N/A N/A
Three Bedroom Average Unit Size Parking Spaces Per Floor No. of Underground Parking Spaces No. of Above-Cround Parking Spaces Total Parking Spaces Provided Total Parking Spaces Provided Total Parking Spaces Required Gross SF/Subt. Parking Space (Incl. Circulation) Total Parking SF Total Underground Parking SF Total Parking SF Total Parking SF	2,200 SF 2,200 SF N/A 0 Spaces 2 Spaces 2 Spaces N/A N/A N/A N/A	0 SF 1,400 SF N/A 0 Spaces 6 Spaces 6 Spaces N/A N/A N/A N/A	0 SF 1,033 SF N/A 9 Spaces 0 Spaces 9 Spaces N/A 400 SF 3,600 SF 0 SF	0 SF 792 SF N/A 5 Spaces 0 Spaces 5 Spaces 5 Spaces 5 N/A 400 SF 2,000 SF 0 SF	0 SF 650 SF 125 Spaces/Floor 250 Spaces 0 Spaces 250 Spaces 400 SF 100,000 SF 100,000 SF 0 SF	0 SF 650 SF 53 Spaces/Floor 43 Spaces 0 Spaces 43 Spaces 380 SF 16,340 SF 16,340 SF	0 SF 650 SF 50 Spaces/Floor 83 Spaces 0 Spaces 83 Spaces 400 SF 33,200 SF 0 SF	N/A N/A N/A O Spaces 105 Spaces 105 Spaces 0 SF 0 SF 0 SF

(1) Includes below-grand and above-grade parking.
Source: City of Seattle Department of Planning and Development; DRA

2015		
	R&D Laboratory	Medical Office
Zoning	SM 85	SM/NC/C-85
Zip Code(s)	98104, 98109, 98105, 98122	98104, 98109, 98105, 98122
Neighborhood/Geographic Subarea	First Hill, South Lake Union, University District, Capitol Hill	First Hill, South Lake Union, University District, Capitol Hill
Primary Land Use(s)	R&D Laboratory	Medical Office Grnd. Floor Retail
Residential Tenure (Renter/Owner)	N/A	N?A
Total Site Area (Acre) Total Site Area (SF)	0.46 Acres 20,000	0.46 Acres 20,000
Construction Type Parking Type	Type I Subterranean	Type I Subterranean
Approximate Building Stories	7 Stories	6 Stories
Total Gross Building SF, Including Subt. Parking (1)	187,000 SF	162,000 SF
Total Gross Building SF Above Ground (Incl. Pkg) Floor Area Ratio (Gross Bldg SF, Incl. Pkg.)	130,000 8.45	90,000 8.00
Total Gross Building SF (Excluding Parking) Floor Area Ratio (Gross Bldg SF, Excl. Pkg.)	130,000 SF 6.50	90,000 SF 4.50
Total Gross Building SF Above Ground Total Gross Parking SF Above Ground Total Gross SF Above Ground Excluding Parking Total Net Building SF Excluding Parking		
Building Efficiency Ratio (%) Site Coverage (Bilg, Footprint) (%) Max. Bilg Footprint, Ground Floor (Gross SF) Average Floor Plate Above Ground Floor Max. Tower Floor Plate (Cross SF) Assumed Floor Plate for Commercial (Gross SF)	80% 100%	80% 100%
Levels Underground Parking Levels Structured Parking Above Grade Stories of Ground Floor Retail/Lobby/Service Space Stories of Non-Residential Space (2nd Story and Above) Stories of Residential Space Total Stories Above Ground	4.0 0.0 1.0 6.0 0.0 7.0	4.0 0.0 1.0 5.0 0.0 6.0
Net Rentable SF R&D Net Rentable SF General Office Net Rentable SF Medical Office Net Rentable SF Medical Office Net Rentable SF Retail Net Rentable SF Restaurant Net Rentable SF Entertainment Net Rentable SF Entertainment Net Rentable SF Entertainment Net Rentable SF Residential Net Rentable SF Total Net SF Community Space Total Net Bflg, SF	80,000 SF 8,000 SF 0 SF 16,000 SF 0 SF 0 SF 0 SF 0 SF 104,000 SF 0 SF	0 SF 0 SF 69,600 SF 2,400 SF 0 SF 0 SF 0 SF 72,000 SF 72,000 SF
Gross SF R&D Gross SF Office Gross SF Medical Office Gross SF Retail Gross SF Grocery Store Gross SF Restaurant Gross SF Residential Gross SF Residential Gross SF Residential Gross SF Community Space Total Gross Bldg. SF	100,000 SF 10,000 SF 0 SF 20,000 SF 0 SF 0 SF 0 SF 130,000 SF	0 SF 0 SF 87,000 SF 3,000 SF 0 SF 0 SF 0 SF 0 SF
Unit Bedroom Count Distribution Studio One Bedroom Two Bedroom Three Bedroom Total	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A
Units by BR Count Studio One Bedroom Two Bedroom Three Bedroom Tlotal Residential Units Residential Density (units per acre)	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A
Unit Size (Net SF) Studio One Bedroom Two Bedroom Three Bedroom Average Unit Size	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A
Parking Spaces Per Floor No. of Underground Parking Spaces No. of Above-Ground Parking Spaces Total Parking Spaces Provided	36.75 Spaces/Floor 147 Spaces 0 Spaces 147 Spaces	45 Spaces/Floor 180 Spaces 0 Spaces 180 Spaces
Total Parking Spaces Required Gross SFSubt. Parking Space (Incl. Circulation) Total Parking SF Total Underground Parking SF Total Parking SF Above Grade	388 SF 57,000 SF 57,000 SF 0 SF	400 SF 72,000 SF 72,000 SF 0 SF

<sup>(1)</sup> Includes below-grand and above-grade parking. Source: City of Seattle Department of Planning and Deve

Table 20 Disposable Household Income of New Homebuyers Owner Housing Prototypes Seattle Residential Nexus Analysis 2014

	Downtown	South La	ke Union		Midrise	
	Prototype 2A With Incentive	Prototype 5A With Incentive	Prototype 5B No Incentive	Prototype 10A With Incentive	Prototype 10B No Incentive	Prototype 12A With Incentive
Average Unit Size (SF)	825	849	849	820	820	820
Average Sales Price Per SF (1)	\$741	\$641	\$538	\$400	\$400	\$400
Average Sales Price Per Unit (2)	\$611,000	\$543,900	\$456,500	\$328,000	\$328,000	\$328,000
Mortgage Amount (3)	\$549,900	\$489,510	\$410,850	\$295,200	\$295,200	\$295,200
Monthly Principal and Interest Payment (4)	\$2,952	\$2,628	\$2,206	\$1,585	\$1,585	\$1,585
Monthly Property Taxes (5)	\$611	\$544	\$457	\$328	\$328	\$328
Monthly HOA Dues Plus Insurance (6)	\$400	\$400	\$275	\$275	\$275	\$275
Total Monthly Housing Cost	\$3,963	\$3,572	\$2,937	\$2,188	\$2,188	\$2,188
Estimated Average Annual Income (7)	\$136,000	\$122,000	\$101,000	\$75,000	\$75,000	\$75,000
Sales Price to Income Ratio	4.49	4.46	4.52	4.37	4.37	4.37
Percent of Income Available for Expenditures (8)	65%	65%	65%	65%	65%	65%
Ave. Disposable Income Available for Expenditures	\$88,400	\$79,300	\$65,650	\$48,750	\$48,750	\$48,750
Number of Units in Prototype	344	218	94	84	57	107
Total Disposable Household Income of Resident HHs	\$30,409,600	\$17,287,400	\$6,171,100	\$4,095,000	\$2,778,750	\$5,216,250

<sup>(1)</sup> For low- and mid-rise prototypes, price based on middle priced scenario of Version B from DRA's "Affordable Housing Incentive Program Economic Analysis", 2014.

<sup>(2)</sup> Estimated average sales price of homes for this prototype, based on Version B from DRA's "Affordable Housing Incentive Program Economic Analysis", 2014.

<sup>(3)</sup> At a 90% loan to value (price) ratio, assuming a 10% buyer downpayment.

<sup>(4)</sup> Monthly mortgage principal and interest payment assuming a 5.0% fixed-rate loan for 30 years.

<sup>(5)</sup> Monthly property taxes estimated at 1.2% annual tax rate.

Table 21 Disposable Household Income of New Renter Households Rental Housing Prototypes Seattle Residential Nexus Analysis 2014

	Downtown	South La	ke Union			Lowrise and Midrise	2	
	Prototype 1A With Incentive	Prototype 4A With Incentive	Prototype 4B No Incentive	Prototype 7A With Incentive	Prototype 7B No Incentive	Prototype 9A With Incentive	Prototype 9B No Incentive	Prototype 11A With Incentive
Average Unit Size (SF)	725	725	725	650	650	650	650	650
Average Monthly Rent Per SF	\$3.25	\$3.20	\$2.85	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60
Average Monthly Rent Per Unit (1)	\$2,400	\$2,300	\$2,100	\$1,700	\$1,700	\$1,700	\$1,700	\$1,700
Average Household Income (2)	\$96,000	\$92,000	\$84,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000
Annual Household Income to Rent Ratio	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Percent of Income Available for Expenditures (3)	65%	65%	65%	65%	65%	65%	65%	65%
Disposable Income Available for Expenditures	\$62,400	\$59,800	\$54,600	\$44,200	\$44,200	\$44,200	\$44,200	\$44,200
Number of Units in Prototype	426	280	124	71	34	106	72	135
Total Disposable Household Income of Resident HHs	\$26,582,400	\$16,744,000	\$6,770,400	\$3,138,200	\$1,502,800	\$4,685,200	\$3,182,400	\$5,967,000
				1				

<sup>(1)</sup> Estimated average rent for each prototype, based on Version B from DRA's "Affordable Housing Incentive Program Economic Analysis", 2014. For low- and mid-rise prototypes, represents middle scenario.

<sup>(2)</sup> Assumes rent at 33% of household income.

<sup>(3)</sup> After deductions forfederal and state income taxes, Social Security and Medicare (FICA) taxes, and person savings. Based on data from the Tax Policy Center for households at the income levels projected for the housing prototypes.

Table 22
Disposable Household Income of New Homebuyers
Additional Owner Housing Prototypes
Seattle Affordable Housing Nexus and Economic Impact Study
2015

	Single-Family Infill	Owner Townhomes	Owner Flats
Average Unit Size (SF)	2,200	1,400	1,033
Average Sales Price Per SF (1)	\$325	\$340	\$350
Average Sales Price Per Unit (2)	\$715,000	\$476,000	\$361,700
Mortgage Amount (3)	\$643,500	\$428,400	\$325,530
Monthly Principal and Interest Payment (4)	\$3,454	\$2,300	\$1,748
Monthly Property Taxes (5)	\$715	\$476	\$362
Monthly HOA Dues Plus Insurance	\$75	\$400	\$275
Total Monthly Housing Cost	\$4,244	\$3,176	\$2,384
Estimated Average Annual Income (6)	\$146,000	\$109,000	\$82,000
Sales Price to Income Ratio	4.90	4.37	4.41
Percent of Income Available for Expenditures (7)	65%	65%	65%
Ave. Disposable Income Available for Expenditures	\$94,900	\$70,850	\$53,300
Number of Units in Prototype	1	6	9
Total Disposable Household Income of Resident HHs	\$94,900	\$425,100	\$479,700

<sup>(1)</sup> Townhome sales price based on median sales price per square foot for new homes sold in Seattle during the first quarter of 2015 of \$340 for an average-sized new unit of 1,300 SF, according to Redfin. Estimated per SF sales prices for single-family infill homes and owner flats estimated at \$325 and \$350, respectively.

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<sup>(3)</sup> At a 90% loan to value (price) ratio, assuming a 10% buyer downpayment.

<sup>(4)</sup> Monthly mortgage principal and interest payment assuming a 5.0% fixed-rate loan for 30 years.

<sup>(5)</sup> Monthly property taxes estimated at 1.2% annual tax rate.

Table 23
Disposable Household Income of New Renter Households
Additional Rental Housing Prototypes
Seattle Affordable Housing Nexus and Economic Impact Study
2015

	Rental Flats	Mixed-Use / Grocery Store	Mixed-Use / Restaurant	Mixed-Use / Entertainment
Average Unit Size (SF)	792	650	650	650
Average Monthly Rent Per SF	\$2.60	\$2.60	\$2.60	\$2.60
Average Monthly Rent Per Unit (1)	\$2,100	\$1 <i>,</i> 700	\$1,700	\$1,700
Average Household Income (2)	\$84,000	\$68,000	\$68,000	\$68,000
Annual Household Income to Rent Ratio	3.3	3.3	3.3	3.3
Percent of Income Available for Expenditures (3)	65%	65%	65%	65%
Disposable Income Available for Expenditures	\$54,600	\$44,200	\$44,200	\$44,200
Number of Units in Prototype	12	173	72	88
Total Disposable Household Income of Resident HHs	\$655,200	\$7,646,600	\$3,182,400	\$3,889,600

<sup>(1)</sup> Estimated average rent for low- and mid-rise prototypes, Version B, Middle Scenario from DRA's "Affordable Housing Incentive Program Economic Analysis", 2014.

<sup>(2)</sup> Assumes rent at 33% of household income.

<sup>(3)</sup> After deductions forfederal and state income taxes, Social Security and Medicare (FICA) taxes, and person savings. Based on data from the Tax at the income levels projected for the housing prototypes.

Table 24 Projected Economic Impact by Prototype Residential Prototypes Seattle Affordable Housing Nexus Study 2013

	Downto	own/HR		South La	ke Union		Lowrise to Midrise		
	Resid. Rental	Resid. Owner	Residenti	al Rental	Residential	Ownership	Residential Rental		
	Prototype 1A   Prototype 2A		Prototype 4A	Prototype 4B	Prototype 5A	Prototype 5B	Prototype 7A	Prototype 7B	
	With Incentive	With Incentive	With Incentive	No Incentive	With Incentive	No Incentive	With Incentive	No Incentive	
Employment (Number of Employees)	129.3	135.4	81.5	32.9	77.0	27.5	17.5	8.4	
Total Industry Output	\$18,721,015	\$19,135,456	\$11,792,189	\$4,768,146	\$10,878,219	\$3,883,208	\$2,531,614	\$1,212,322	
Payroll	\$7,555,910	\$7,813,826	\$4,759,395	\$1,924,451	\$4,442,042	\$1,585,680	\$1,023,152	\$489,960	
Average Payroll Per Employee	\$58,419	\$57,702	\$58,419	\$58,419	\$57,702	\$57,702	\$58,595	\$58,595	

Source: IMPLAN Input/Output Model; DRA.

Table 24
Projected Economic Impact by Prototype
Residential Prototypes
Seattle Affordable Housing Nexus Study
2013

		4 Stories to	o 6 Stories		6 Stories to	o 7 Stories	
	Residenti	al Rental	Residential	Ownership	Resid. Rental	Resid. Owner	
	Prototype 9A	Prototype 9B	Prototype 10A	Prototype 10B	Prototype 11A	Prototype 12A	
	With Incentive	No Incentive	With Incentive	No Incentive	With Incentive	With Incentive	
Employment (Number of Employees)	26.1	17.7	22.8	15.5	33.2	29.0	
Total Industry Output	\$3,779,593	\$2,567,271	\$3,303,473	\$2,241,642	\$4,813,632	\$4,207,996	
Payroll	\$1,527,523	\$1,037,563	\$1,335,099	\$905,960	\$1,945,430	\$1,700,662	
Average Payroll Per Employee	\$58,595	\$58,595	\$58,595	\$58,595	\$58,595	\$58,595	

Table 25 Projected Employment Generation Additional Residential Prototypes Seattle Affordable Housing Nexus and Economic Impact Study 2015

	Single-Family Infill	Owner Townhomes	Owner Flats	Rental Flats	Mixed-Use / Grocery Store	Mixed-Use / Restaurant	Mixed-Use / Entertainment
Total Household Expenditures	\$94,900	\$425,100	\$479,700	\$655,200	\$7,646,600	\$3,182,400	\$3,889,600
Total Jobs Generated by Industry (1)							
Manufacturing	0.01	0.03	0.04	0.05	0.74	0.31	0.37
Wholesale Trade	0.01	0.08	0.09	0.13	1.55	0.64	0.79
Retail Trade	0.08	0.39	0.43	0.59	8.52	3.54	4.33
Transportation	0.01	0.04	0.04	0.06	0.73	0.31	0.37
Warehousing and Storage	0.00	0.00	0.01	0.01	0.08	0.03	0.04
Information and Communication	0.01	0.06	0.07	0.09	1.24	0.52	0.63
Finance and Insurance	0.02	0.10	0.12	0.16	2.17	0.90	1.10
Real Estate, Rentals and Leasing	0.03	0.16	0.18	0.25	4.05	1.69	2.06
Professional, Scientific and Technical	0.02	0.08	0.09	0.13	1.78	0.74	0.91
Management and Administrative Services	0.02	0.10	0.11	0.15	2.04	0.85	1.04
Educational Services	0.01	0.06	0.06	0.09	1.19	0.50	0.61
Health Care and Social Assistance	0.10	0.52	0.59	0.80	11.42	4.75	5.81
Arts, Entertainment and Recreation	0.02	0.09	0.10	0.13	1.74	0.72	0.89
Other Services	0.09	0.45	0.51	0.69	8.97	3.73	4.56
Government	0.01	0.03	0.04	0.05	0.70	0.29	0.36
Total	0.44	2.19	2.48	3.38	46.92	19.52	23.87

<sup>(1)</sup> Includes total employment, full-time and part-time.

Source: IMPLAN Input/Output Model; DRA.

Table 26 Wages by Occupational Grouping Seattle-Bellevue-Everett Metropolitan Division May, 2013

SOC Code Prefix (1)	•	2013 Employ- ment Estimates	% of Total Employ- ment	Mean Hourly Wage	Mean Annual Wage	10th Percentile Hourly Wage	25th Percentile Hourly Wage	Median (50th Percentile) Hourly Wage	75th Percentile Hourly Wage	90th Percentile Hourly Wage
11	Management	78,480	5%	\$59.30	\$123,340	\$28.17	\$39.15	\$54.11	\$72.47	N/A
13	Business and Financial Operations	107,980	7%	\$38.00	\$79,050	\$20.65	\$26.36	\$34.85	\$45.72	\$59.45
15	Computer and Mathematical	115,870	8%	\$49.35	\$102,640	\$26.81	\$37.53	\$49.34	\$59.90	\$70.97
17	Architecture and Engineering	50,710	3%	\$42.51	\$88,420	\$24.94	\$32.28	\$41.52	\$52.40	\$63.40
19	Life, Physical and Social Science	17,990	1%	\$34.54	\$71,840	\$18.08	\$22.38	\$31.04	\$42.34	\$55.14
21	Community and Social Services	19,460	1%	\$21.56	\$44,840	\$12.07	\$15.18	\$20.20	\$26.36	\$33.57
23	Legal	12,690	1%	\$49.49	\$102,950	\$20.79	\$29.08	\$39.22	\$63.40	N/A
25	Education, Training, and Library	73,840	5%	\$26.67	\$55,470	\$13.76	\$17.38	\$23.66	\$32.29	\$40.70
27	Arts, Design, Entertainment, Sports, Media	27,790	2%	\$27.87	\$57,970	\$11.57	\$16.39	\$24.01	\$35.31	\$46.95
29	Healthcare Practitioners and Technical	68,090	5%	\$40.93	\$85,130	\$19.43	\$26.55	\$36.72	\$47.42	\$61.69
31	Healthcare Support	31,940	2%	\$17.43	\$36,260	\$11.52	\$13.29	\$16.29	\$20.39	\$25.52
33	Protective Service	25,600	2%	\$25.27	\$52,550	\$10.48	\$13.21	\$21.27	\$36.13	\$44.56
35	Food Preparation and Serving-Related	114,810	8%	\$12.74	\$26,500	\$9.24	\$9.37	\$10.92	\$14.19	\$18.50
37	Building and Grounds Cleaning and Maintenance	34,380	2%	\$14.84	\$30,870	\$9.42	\$10.86	\$13.80	\$17.55	\$21.74

Table 26 Wages by Occupational Grouping Seattle-Bellevue-Everett Metropolitan Division May, 2013

SOC Code Prefix (1) 39	Occupational Category Personal Care and Service	2013 Employ- ment Estimates 43,790	% of Total Employ- ment 3%	Mean Hourly Wage \$14.53	Mean Annual Wage \$30,210	10th Percentile Hourly Wage \$9.36	25th Percentile Hourly Wage \$10.15	Median (50th Percentile) Hourly Wage \$11.75	75th Percentile Hourly Wage \$16.23	90th Percentile Hourly Wage \$24.67
40	Sales and Related	148,800	10%	\$22.15	\$46,080	\$9.51	\$11.13	\$16.11	\$26.20	\$44.26
43	Office and Administrative Support	196,340	14%	\$19.38	\$40,320	\$11.34	\$14.29	\$18.29	\$23.17	\$28.47
45	Farming, Fishing, Forestry	1,360	0%	\$16.12	\$33,530	\$9.22	\$9.31	\$11.99	\$21.47	\$29.70
47	Construction and Extraction	53,680	4%	\$27.38	\$56,960	\$14.82	\$19.16	\$26.98	\$34.49	\$42.00
49	Installation, Maintenance and Repair	47,390	3%	\$25.58	\$53,210	\$13.79	\$17.82	\$24.63	\$32.33	\$40.16
51	Production	88,040	6%	\$21.04	\$43,770	\$10.50	\$13.52	\$18.70	\$27.53	\$35.59
53	Transportation and Material Moving	90,730	6%	\$19.92	\$41,430	\$9.64	\$12.04	\$16.89	\$23.52	\$33.96
	TOTAL	1,449,770	100%							

- (1) The first two digits of the six digit Standard Occupational Classification (SOC) code.
- (2) Based on the following income limits adjusted for a 2.5 person household: \$22,500 at 30% AMI; \$44,950 at 60% AMI and \$59,950 at 80% AMI. and Wage Estimates, Seattle-Bellevue-Everett,

Source: U.S. Department of Labor, Bureau of Labor Statistics, May 2013 Metropolitan and Nonmetropolitan Area Occupational Employment Washington Metropolitan Division; 2013; DRA

Table 26 Wages by Occupational Grouping Seattle-Bellevue-Everett Metropolitan Division May, 2013

SOC Code Prefix (1)	Occupational Category	2013 Employ- ment Estimates	10th Percentile Annual Wage	25th Percentile Annual Wage	Median (50th Percentile) Annual Wage	75th Percentile Annual Wage	90th Percentile Annual Wage	Est. % of Jobs Below 30% AMI (2)	Est. % of Jobs Between 30%-60% AMI (2)	Est. % of Jobs Between 60%-80% AMI (2)
11	Management	78,480	\$58,594	\$81,432	\$112,549	\$150,738	N/A	0%	0%	10%
13	Business and Financial Operations	107,980	\$42,952	\$54,829	\$72,488	\$95,098	\$123,656	0%	10%	20%
15	Computer and Mathematical	115,870	\$55,765	\$78,062	\$102,627	\$124,592	\$147,618	0%	0%	10%
17	Architecture and Engineering	50,710	\$51,875	\$67,142	\$86,362	\$108,992	\$131,872	0%	0%	15%
19	Life, Physical and Social Science	17,990	\$37,606	\$46,550	\$64,563	\$88,067	\$114,691	5%	10%	25%
21	Community and Social Services	19,460	\$25,106	\$31,574	\$42,016	\$54,829	\$69,826	7%	43%	30%
23	Legal	12,690	\$43,243	\$60,486	\$81,578	\$131,872	N/A	0%	10%	15%
25	Education, Training, and Library	73,840	\$28,621	\$36,150	\$49,213	\$67,163	\$84,656	5%	35%	20%
27	Arts, Design, Entertainment, Sports, Media	27,790	\$24,066	\$34,091	\$49,941	\$73,445	\$97,656	8%	32%	25%
29	Healthcare Practitioners and Technical	68,090	\$40,414	\$55,224	\$76,378	\$98,634	\$128,315	0%	15%	15%
31	Healthcare Support	31,940	\$23,962	\$27,643	\$33,883	\$42,411	\$53,082	10%	70%	20%
33	Protective Service	25,600	\$21,798	\$27,477	\$44,242	\$75,150	\$92,685	10%	40%	25%
35	Food Preparation and Serving-Related	114,810	\$19,219	\$19,490	\$22,714	\$29,515	\$38,480	50%	50%	0%
37	Building and Grounds Cleaning and Maintenance	34,380	\$19,594	\$22,589	\$28,704	\$36,504	\$45,219	25%	60%	15%

Table 26 Wages by Occupational Grouping Seattle-Bellevue-Everett Metropolitan Division May, 2013

SOC Code Prefix (1) 39	Occupational Category Personal Care and Service	2013 Employ- ment Estimates 43,790	10th Percentile Annual Wage \$19,469	25th Percentile Annual Wage \$21,112	Median (50th Percentile) Annual Wage \$24,440	75th Percentile Annual Wage \$33,758	90th Percentile Annual Wage \$51,314	Est. % of Jobs Below 30% AMI (2) 35%	Est. % of Jobs Between 30%-60% AMI (2) 55%	Est. % of Jobs Between 60%-80% AMI (2) 10%
40	Sales and Related	148,800	\$19,781	\$23,150	\$33,509	\$54,496	\$92,061	25%	40%	15%
43	Office and Administrative Support	196,340	\$23,587	\$29,723	\$38,043	\$48,194	\$59,218	10%	50%	30%
45	Farming, Fishing, Forestry	1,360	\$19,178	\$19,365	\$24,939	\$44,658	\$61,776	35%	40%	10%
47	Construction and Extraction	53,680	\$30,826	\$39,853	\$56,118	\$71,739	\$87,360	5%	30%	20%
49	Installation, Maintenance and Repair	47,390	\$28,683	\$37,066	\$51,230	\$67,246	\$83,533	15%	20%	25%
51	Production	88,040	\$21,840	\$28,122	\$38,896	\$57,262	\$74,027	10%	5%	65%
53	Transportation and Material Moving	90,730	\$20,051	\$25,043	\$35,131	\$48,922	\$70,637	20%	45%	15%
	TOTAL	1,449,770								

Table 27
Estimated Qualifying Very Low and Low Income Households
Prototype 1A
Seattle Affordable Housing Nexus Study
2015

Economic Sector	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Average Payroll Per Employee (3)	Estimated Household Income (4)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 31% and 60% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated Households Earning Incomes Below 30% AMI	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	1.80	1.13	\$20,966	\$33,336	10%	5%	65%	0.11	0.06	0.74
Wholesale Trade	4.90	3.08	\$25,838	\$41,083	20%	45%	15%	0.62	1.39	0.46
Retail Trade	22.10	13.90	\$10,428	\$16,580	25%	40%	15%	3.47	5.56	2.08
Transportation	2.60	1.64	\$14,789	\$23,515	20%	45%	15%	0.33	0.74	0.25
Warehousing and Storage	0.20	0.13	\$19,601	\$31,165	20%	45%	15%	0.03	0.06	0.02
Information and Communication	3.80	2.39	\$25,378	\$40,351	10%	50%	30%	0.24	1.19	0.72
Finance and Insurance	7.20	4.53	\$16,313	\$25,937	0%	10%	20%	0.00	0.45	0.91
Real Estate, Rentals and Leasing	7.80	4.91	\$6,509	\$10,350	0%	10%	20%	0.00	0.49	0.98
Professional, Scientific and Technical	5.20	3.27	\$20,611	\$32,772	5%	10%	25%	0.16	0.33	0.82
Management and Administrative Services	5.60	3.52	\$13,954	\$22,187	0%	0%	10%	0.00	0.00	0.35
Educational Services	4.00	2.52	\$6,524	\$10,373	5%	35%	20%	0.13	0.88	0.50
Health Care and Social Assistance	29.30	18.43	\$16,453	\$26,161	10%	70%	20%	1.84	12.90	3.69
Arts, Entertainment and Recreation	5.60	3.52	\$5,948	\$9,457	8%	32%	25%	0.28	1.13	0.88
Other Services	27.20	17.11	\$8,275	\$13,157	35%	55%	10%	5.99	9.41	1.71
Government	2.00	1.26	\$23,475	\$37,325	10%	50%	30%	0.13	0.63	0.38
Total/Average	127.50	80.19	\$13,339	\$21,208				13.21	35.15	13.74

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 28 Estimated Qualifying Very Low and Low Income Households Prototype 2A Seattle Affordable Housing Nexus Study 2015

<b>Economic Sector</b>	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Average Payroll Per Employee (3)	Estimated Household Income (4)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 31% and 60% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated Households Earning Incomes Below 30% AMI	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	1.80	1.13	\$93,349	\$148,426	10%	5%	65%	0.11	0.06	0.74
Wholesale Trade	3.90	2.45	\$103,776	\$165,004	20%	45%	15%	0.49	1.10	0.37
Retail Trade	25.30	15.91	\$46,719	\$74,284	25%	40%	15%	3.98	6.36	2.39
Transportation	2.80	1.76	\$69,824	\$111,020	20%	45%	15%	0.35	0.79	0.26
Warehousing and Storage	0.20	0.13	\$87,247	\$138,723	20%	45%	15%	0.03	0.06	0.02
Information and Communication	3.90	2.45	\$115,359	\$183,421	10%	50%	30%	0.25	1.23	0.74
Finance and Insurance	7.90	4.97	\$74,703	\$118,777	0%	10%	20%	0.00	0.50	0.99
Real Estate, Rentals and Leasing	6.50	4.09	\$24,581	\$39,084	0%	10%	20%	0.00	0.41	0.82
Professional, Scientific and Technical	5.60	3.52	\$91,143	\$144,918	5%	10%	25%	0.18	0.35	0.88
Management and Administrative Services	5.80	3.65	\$60,364	\$95,979	0%	0%	10%	0.00	0.00	0.36
Educational Services	5.00	3.14	\$34,315	\$54,561	5%	35%	20%	0.16	1.10	0.63
Health Care and Social Assistance	30.00	18.87	\$71,056	\$112,980	10%	70%	20%	1.89	13.21	3.77
Arts, Entertainment and Recreation	6.00	3.77	\$27,043	\$42,998	8%	32%	25%	0.30	1.21	0.94
Other Services	28.60	17.99	\$38,840	\$61,755	35%	55%	10%	6.30	9.89	1.80
Government	2.10	1.32	\$99,729	\$158,569	10%	50%	30%	0.13	0.66	0.40
Total/Average	133.60	84.03	\$57,709	\$91,758				14.04	36.87	14.37

Includes full-time equivalent employees from the IMPLAN input/output model.
 Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 29
Estimated Qualifying Very Low and Low Income Households
Prototype 4A
Seattle Affordable Housing Nexus Study
2015

Economic Sector	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Average Payroll Per Employee (3)	Estimated Household Income (4)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Earning Incomes	Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated Households Earning Incomes Below 30% AMI	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	1.10	0.69	\$96,047	\$152,715	10%	5%	65%	0.07	0.03	0.45
Wholesale Trade	3.10	1.95	\$102,408	\$162,829	20%	45%	15%	0.39	0.88	0.29
Retail Trade	13.90	8.74	\$46,782	\$74,384	25%	40%	15%	2.19	3.50	1.31
Transportation	1.60	1.01	\$69,548	\$110,582	20%	45%	15%	0.20	0.45	0.15
Warehousing and Storage	0.20	0.13	\$53,630	\$85,271	20%	45%	15%	0.03	0.06	0.02
Information and Communication	2.40	1.51	\$115,062	\$182,949	10%	50%	30%	0.15	0.75	0.45
Finance and Insurance	4.50	2.83	\$76,435	\$121,532	0%	10%	20%	0.00	0.28	0.57
Real Estate, Rentals and Leasing	4.90	3.08	\$24,339	\$38,699	0%	10%	20%	0.00	0.31	0.62
Professional, Scientific and Technical	3.30	2.08	\$91,666	\$145,749	5%	10%	25%	0.10	0.21	0.52
Management and Administrative Services	3.60	2.26	\$60,380	\$96,004	0%	0%	10%	0.00	0.00	0.23
Educational Services	2.50	1.57	\$34,094	\$54,210	5%	35%	20%	0.08	0.55	0.31
Health Care and Social Assistance	18.50	11.64	\$72,261	\$114,894	10%	70%	20%	1.16	8.14	2.33
Arts, Entertainment and Recreation	3.50	2.20	\$27,090	\$43,073	8%	32%	25%	0.18	0.70	0.55
Other Services	17.10	10.75	\$38,550	\$61,295	35%	55%	10%	3.76	5.92	1.08
Government	1.30	0.82	\$98,992	\$157,397	10%	50%	30%	0.08	0.41	0.25
Total/Average	80.40	50.57	\$58,397	\$92,852				8.32	22.16	8.67

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 30
Estimated Qualifying Very Low and Low Income Households
Prototype 4B
Seattle Affordable Housing Nexus Study
2015

<b>Economic Sector</b>	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Average Payroll Per Employee (3)	Estimated Household Income (4)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Incomes	Percent of HH Earning Incomes Between 61% and 80% AMI	Estimated Households Earning Incomes Below 30% AMI	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	0.46	0.29	\$92,870	\$147,663	10%	5%	65%	0.03	0.01	0.19
Wholesale Trade	1.30	0.82	\$98,744	\$157,002	20%	45%	15%	0.16	0.37	0.12
Retail Trade	5.60	3.52	\$46,953	\$74,655	25%	40%	15%	0.88	1.41	0.53
Transportation	0.70	0.44	\$64,278	\$102,202	20%	45%	15%	0.09	0.20	0.07
Warehousing and Storage	0.10	0.06	\$43,370	\$68,958	20%	45%	15%	0.01	0.03	0.01
Information and Communication	1.00	0.63	\$111,660	\$177,540	10%	50%	30%	0.06	0.31	0.19
Finance and Insurance	1.80	1.13	\$77,266	\$122,853	0%	10%	20%	0.00	0.11	0.23
Real Estate, Rentals and Leasing	2.00	1.26	\$24,111	\$38,337	0%	10%	20%	0.00	0.13	0.25
Professional, Scientific and Technical	1.30	0.82	\$94,088	\$149,599	5%	10%	25%	0.04	0.08	0.20
Management and Administrative Services	1.40	0.88	\$62,780	\$99,821	0%	0%	10%	0.00	0.00	0.09
Educational Services	1.00	0.63	\$34,465	\$54,799	5%	35%	20%	0.03	0.22	0.13
Health Care and Social Assistance	7.50	4.72	\$72,072	\$114,595	10%	70%	20%	0.47	3.30	0.94
Arts, Entertainment and Recreation	1.40	0.88	\$27,384	\$43,541	8%	32%	25%	0.07	0.28	0.22
Other Services	6.90	4.34	\$38,630	\$61,422	35%	55%	10%	1.52	2.39	0.43
Government	0.50	0.31	\$104,070	\$165,472	10%	50%	30%	0.03	0.16	0.09
Total/Average	32.50	20.44	\$58,387	\$92,836				3.37	8.99	3.50

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 31 **Estimated Qualifying Very Low and Low Income Households** Prototype 5A Seattle Affordable Housing Nexus Study

<b>Economic Sector</b>	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Average Payroll Per Employee (3)	Estimated Household Income (4)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	of HH Earning	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	1.00	0.63	\$95,522	\$151,880	10%	5%	65%	0.06	0.03	0.41
Wholesale Trade	2.20	1.38	\$104,583	\$166,286	20%	45%	15%	0.28	0.62	0.21
Retail Trade	14.40	9.06	\$46,663	\$74,194	25%	40%	15%	2.26	3.62	1.36
Transportation	1.60	1.01	\$69,464	\$110,448	20%	45%	15%	0.20	0.45	0.15
Warehousing and Storage	0.10	0.06	\$99,197	\$157,724	20%	45%	15%	0.01	0.03	0.01
Information and Communication	2.20	1.38	\$116,255	\$184,846	10%	50%	30%	0.14	0.69	0.42
Finance and Insurance	4.50	2.83	\$74,554	\$118,540	0%	10%	20%	0.00	0.28	0.57
Real Estate, Rentals and Leasing	3.70	2.33	\$24,549	\$39,033	0%	10%	20%	0.00	0.23	0.47
Professional, Scientific and Technical	3.20	2.01	\$90,674	\$144,171	5%	10%	25%	0.10	0.20	0.50
Management and Administrative Services	3.30	2.08	\$60,313	\$95,898	0%	0%	10%	0.00	0.00	0.21
Educational Services	2.80	1.76	\$34,835	\$55,388	5%	35%	20%	0.09	0.62	0.35
Health Care and Social Assistance	17.10	10.75	\$70,867	\$112,679	10%	70%	20%	1.08	7.53	2.15
Arts, Entertainment and Recreation	3.40	2.14	\$27,130	\$43,136	8%	32%	25%	0.17	0.68	0.53
Other Services	16.20	10.19	\$38,980	\$61,979	35%	55%	10%	3.57	5.60	1.02
Government	1.20	0.75	\$99,215	\$157,752	10%	50%	30%	0.08	0.38	0.23
Total/Average	75.90	47.74	\$58,387	\$92,836				7.97	20.95	8.17

Includes full-time equivalent employees from the IMPLAN input/output model.
 Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 32
Estimated Qualifying Very Low and Low Income Households
Prototype 5B
Seattle Affordable Housing Nexus Study
2015

	Total New FTE Employees				Estimated Percent of HH	Estimated Percent of HH Earning Incomes	· ·	Estimated	Estimated Households	Estimated Households
	Generated by Development	No. of New	Avanaga Davnall	Estimated Household	Earning Incomes Below 30% AMI	Between 31% and 60% AMI	Between 61% and 80% AMI	Households	Earning Incomes Between 31%	Earning Incomes Between 61%
Economic Sector	(1)	Households (2)	Average Payroll Per Employee (3)	Income (4)	(5)(6)	(5)(6)	(5)(6)	Earning Incomes Below 30% AMI	and 60% AMI	and 80% AMI
Manufacturing	0.40	0.25	\$85,246	\$135,542	10%	5%	65%	0.03	0.01	0.16
Wholesale Trade	0.80	0.50	\$102,666	\$163,238	20%	45%	15%	0.10	0.23	0.08
Retail Trade	5.10	3.21	\$47,033	\$74,782	25%	40%	15%	0.80	1.28	0.48
Transportation	0.60	0.38	\$66,124	\$105,138	20%	45%	15%	0.08	0.17	0.06
Warehousing and Storage	0.10	0.06	\$35,411	\$56,303	20%	45%	15%	0.01	0.03	0.01
Information and Communication	0.80	0.50	\$114,124	\$181,458	10%	50%	30%	0.05	0.25	0.15
Finance and Insurance	1.60	1.01	\$74,850	\$119,012	0%	10%	20%	0.00	0.10	0.20
Real Estate, Rentals and Leasing	1.30	0.82	\$24,942	\$39,657	0%	10%	20%	0.00	0.08	0.16
Professional, Scientific and Technical	1.10	0.69	\$94,161	\$149,716	5%	10%	25%	0.03	0.07	0.17
Management and Administrative Services	1.20	0.75	\$59,208	\$94,140	0%	0%	10%	0.00	0.00	0.08
Educational Services	1.00	0.63	\$34,818	\$55,361	5%	35%	20%	0.03	0.22	0.13
Health Care and Social Assistance	6.10	3.84	\$70,916	\$112,757	10%	70%	20%	0.38	2.69	0.77
Arts, Entertainment and Recreation	1.20	0.75	\$27,440	\$43,629	8%	32%	25%	0.06	0.24	0.19
Other Services	5.80	3.65	\$38,866	\$61,796	35%	55%	10%	1.28	2.01	0.36
Government	0.40	0.25	\$106,251	\$168,939	10%	50%	30%	0.03	0.13	0.08
Total/Average	27.10	17.04	\$58,387	\$92,836				2.85	7.49	2.91

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 33
Estimated Qualifying Very Low and Low Income Households
Prototype 7A
Seattle Affordable Housing Nexus Study
2015

Economic Sector	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Average Payroll Per Employee (3)	Estimated Household Income (4)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 31% and 60% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated Households Earning Incomes Below 30% AMI	Between 31%	Estimated Households Earning Incomes Between 61% and 80% AMI
Economic Sector	(1)	riousenoius (2)	rei Employee (3)	mcome (4)	(3)(6)	(3)(6)	(3)(0)	Delow 30 % AMI	aliu 00 % Alvii	and 60 % Aivii
Manufacturing	0.20	0.13	\$113,522	\$180,500	10%	5%	65%	0.01	0.01	0.08
Wholesale Trade	0.70	0.44	\$108,814	\$173,014	20%	45%	15%	0.09	0.20	0.07
Retail Trade	3.00	1.89	\$46,215	\$73,481	25%	40%	15%	0.47	0.75	0.28
Transportation	0.30	0.19	\$77,112	\$122,608	20%	45%	15%	0.04	0.08	0.03
Warehousing and Storage	0.00	0.00	\$0	\$0	20%	45%	15%	0.00	0.00	0.00
Information and Communication	0.50	0.31	\$116,035	\$184,495	10%	50%	30%	0.03	0.16	0.09
Finance and Insurance	0.90	0.57	\$78,513	\$124,835	0%	10%	20%	0.00	0.06	0.11
Real Estate, Rentals and Leasing	1.30	0.82	\$23,497	\$37,360	0%	10%	20%	0.00	0.08	0.16
Professional, Scientific and Technical	0.70	0.44	\$92,115	\$146,462	5%	10%	25%	0.02	0.04	0.11
Management and Administrative Services	0.80	0.50	\$58,766	\$93,439	0%	0%	10%	0.00	0.00	0.05
Educational Services	0.50	0.31	\$31,400	\$49,926	5%	35%	20%	0.02	0.11	0.06
Health Care and Social Assistance	4.00	2.52	\$72,508	\$115,287	10%	70%	20%	0.25	1.76	0.50
Arts, Entertainment and Recreation	0.70	0.44	\$28,627	\$45,517	8%	32%	25%	0.04	0.14	0.11
Other Services	3.50	2.20	\$38,688	\$61,514	35%	55%	10%	0.77	1.21	0.22
Government	0.30	0.19	\$94,153	\$149,704	10%	50%	30%	0.02	0.09	0.06
Total/Average	17.20	10.82	\$58,387	\$92,836				1.74	4.69	1.86

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 34
Estimated Qualifying Very Low and Low Income Households
Prototype 7B
Seattle Affordable Housing Nexus Study
2015

Economic Sector	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Average Payroll Per Employee (3)	Estimated Household Income (4)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 31% and 60% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated Households Earning Incomes Below 30% AMI	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	0.10	0.06	\$108,725	\$172,873	10%	5%	65%	0.01	0.00	0.04
Wholesale Trade	0.40	0.25	\$91,189	\$144,990	20%	45%	15%	0.05	0.11	0.04
Retail Trade	1.40	0.88	\$47,424	\$75,403	25%	40%	15%	0.22	0.35	0.13
Transportation	0.20	0.13	\$55,390	\$88,070	20%	45%	15%	0.03	0.06	0.02
Warehousing and Storage	0.00	0.00	\$0 \$0	\$0	20%	45%	15%	0.00	0.00	0.00
Information and Communication	0.20	0.13	\$138,915	\$220,874	10%	50%	30%	0.01	0.06	0.04
Finance and Insurance	0.50	0.31	\$67,676	\$107,604	0%	10%	20%	0.00	0.03	0.06
Real Estate, Rentals and Leasing	0.60	0.38	\$24,379	\$38,763	0%	10%	20%	0.00	0.04	0.08
Professional, Scientific and Technical	0.30	0.19	\$102,926	\$163,653	5%	10%	25%	0.01	0.02	0.05
Management and Administrative Services	0.40	0.25	\$56,283	\$89,491	0%	0%	10%	0.00	0.00	0.03
Educational Services	0.20	0.13	\$37,592	\$59,771	5%	35%	20%	0.01	0.04	0.03
Health Care and Social Assistance	1.90	1.19	\$73,099	\$116,227	10%	70%	20%	0.12	0.84	0.24
Arts, Entertainment and Recreation	0.40	0.25	\$23,990	\$38,145	8%	32%	25%	0.02	0.08	0.06
Other Services	1.70	1.07	\$38,143	\$60,648	35%	55%	10%	0.37	0.59	0.11
Government	0.10	0.06	\$135,263	\$215,068	10%	50%	30%	0.01	0.03	0.02
Total/Average	8.30	5.22	\$58,387	\$92,836				0.84	2.25	0.89

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 35 **Estimated Qualifying Very Low and Low Income Households** Prototype 9A Seattle Affordable Housing Nexus Study 2015

	Total New FTE Employees Generated by Development		Average Payroll Per Employee	Estimated Household	Estimated Percent of HH Earning Incomes Below 30% AMI	Estimated Percent of HH Earning Incomes Between 31% and 60% AMI	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI	Estimated Households Earning Incomes Below	Estimated Households Earning Incomes Between 31%	Estimated Households Earning Incomes Between 61%
<b>Economic Sector</b>	(1)	Households (2)	(3)	Income (4)	(5)(6)	(5)(6)	(5)(6)	30% AMI	and 60% AMI	and 80% AMI
Manufacturing	0.40	0.25	\$84,742	\$134,740	10%	5%	65%	0.03	0.01	0.16
Wholesale Trade	1.10	0.69	\$103,380	\$164,374	20%	45%	15%	0.14	0.31	0.10
Retail Trade	4.40	2.77	\$47,043	\$74,799	25%	40%	15%	0.69	1.11	0.42
Transportation	0.50	0.31	\$69,075	\$109,829	20%	45%	15%	0.06	0.14	0.05
Warehousing and Storage	0.00	0.00	\$0	\$0	20%	45%	15%	0.00	0.00	0.00
Information and Communication	0.80	0.50	\$108,272	\$172,152	10%	50%	30%	0.05	0.25	0.15
Finance and Insurance	1.40	0.88	\$75,353	\$119,812	0%	10%	20%	0.00	0.09	0.18
Real Estate, Rentals and Leasing	1.90	1.19	\$24,002	\$38,163	0%	10%	20%	0.00	0.12	0.24
Professional, Scientific and Technical	1.00	0.63	\$96,266	\$153,063	5%	10%	25%	0.03	0.06	0.16
Management and Administrative Services	1.10	0.69	\$63,808	\$101,455	0%	0%	10%	0.00	0.00	0.07
Educational Services	0.70	0.44	\$33,485	\$53,241	5%	35%	20%	0.02	0.15	0.09
Health Care and Social Assistance	5.90	3.71	\$73,390	\$116,691	10%	70%	20%	0.37	2.60	0.74
Arts, Entertainment and Recreation	1.10	0.69	\$27,198	\$43,244	8%	32%	25%	0.06	0.22	0.17
Other Services	5.20	3.27	\$38,877	\$61,814	35%	55%	10%	1.14	1.80	0.33
Government	0.40	0.25	\$105,425	\$167,626	10%	50%	30%	0.03	0.13	0.08
Total/Average	25.50	16.04	\$58,387	\$92,836				2.59	6.98	2.76

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.
(2) Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 36 **Estimated Qualifying Very Low and Low Income Households** Prototype 9B Seattle Affordable Housing Nexus Study 2015

Economic Sector	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Average Payroll Per Employee (3)	Estimated Household Income (4)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 31% and 60% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated Households Earning Incomes Below 30% AMI	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	0.20	0.13	\$115,121	\$183,042	10%	5%	65%	0.01	0.01	0.08
Wholesale Trade	0.80	0.50	\$96,553	\$153,519	20%	45%	15%	0.10	0.23	0.08
Retail Trade	3.00	1.89	\$46,866	\$74,516	25%	40%	15%	0.47	0.75	0.28
Transportation	0.30	0.19	\$78,198	\$124,335	20%	45%	15%	0.04	0.08	0.03
Warehousing and Storage	0.00	0.00	\$0	\$0	20%	45%	15%	0.00	0.00	0.00
Information and Communication	0.50	0.31	\$117,669	\$187,094	10%	50%	30%	0.03	0.16	0.09
Finance and Insurance	1.00	0.63	\$71,657	\$113,934	0%	10%	20%	0.00	0.06	0.13
Real Estate, Rentals and Leasing	1.30	0.82	\$23,828	\$37,886	0%	10%	20%	0.00	0.08	0.16
Professional, Scientific and Technical	0.70	0.44	\$93,412	\$148,525	5%	10%	25%	0.02	0.04	0.11
Management and Administrative Services	0.80	0.50	\$59,594	\$94,755	0%	0%	10%	0.00	0.00	0.05
Educational Services	0.50	0.31	\$31,842	\$50,629	5%	35%	20%	0.02	0.11	0.06
Health Care and Social Assistance	4.00	2.52	\$73,529	\$116,911	10%	70%	20%	0.25	1.76	0.50
Arts, Entertainment and Recreation	0.80	0.50	\$25,402	\$40,389	8%	32%	25%	0.04	0.16	0.13
Other Services	3.50	2.20	\$39,233	\$62,381	35%	55%	10%	0.77	1.21	0.22
Government	0.30	0.19	\$95,480	\$151,812	10%	50%	30%	0.02	0.09	0.06
Total/Average	17.50	11.01	\$58,387	\$92,836				1.76	4.75	1.90

 <sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.
 (2) Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 37
Estimated Qualifying Very Low and Low Income Households
Prototype 10A
Seattle Affordable Housing Nexus Study
2015

Economic Sector	Total New FTE Employees Generated by Development (1)		U	Estimated Household Income (4)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 31% and 60% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated Households Earning Incomes Below 30% AMI	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	0.30	0.19	\$98,756	\$157,022	10%	5%	65%	0.02	0.01	0.12
Wholesale Trade	1.00	0.63	\$98,744	\$157,002	20%	45%	15%	0.13	0.28	0.09
Retail Trade	3.90	2.45	\$46,953	\$74,655	25%	40%	15%	0.61	0.98	0.37
Transportation	0.40	0.25	\$64,278	\$102,202	20%	45%	15%	0.05	0.11	0.04
Warehousing and Storage	0.00	0.00	\$43,370	\$68,958	20%	45%	15%	0.00	0.00	0.00
Information and Communication	0.70	0.44	\$111,660	\$177,540	10%	50%	30%	0.04	0.22	0.13
Finance and Insurance	1.20	0.75	\$77,266	\$122,853	0%	10%	20%	0.00	0.08	0.15
Real Estate, Rentals and Leasing	1.70	1.07	\$24,111	\$38,337	0%	10%	20%	0.00	0.11	0.21
Professional, Scientific and Technical	0.90	0.57	\$94,088	\$149,599	5%	10%	25%	0.03	0.06	0.14
Management and Administrative Services	1.00	0.63	\$62,780	\$99,821	0%	0%	10%	0.00	0.00	0.06
Educational Services	0.60	0.38	\$34,465	\$54,799	5%	35%	20%	0.02	0.13	0.08
Health Care and Social Assistance	5.20	3.27	\$72,072	\$114,595	10%	70%	20%	0.33	2.29	0.65
Arts, Entertainment and Recreation	1.00	0.63	\$27,384	\$43,541	8%	32%	25%	0.05	0.20	0.16
Other Services	4.60	2.89	\$38,630	\$61,422	35%	55%	10%	1.01	1.59	0.29
Government	0.40	0.25	\$104,070	\$165,472	10%	50%	30%	0.03	0.13	0.08
Total/Average	22.60	14.21	\$58,387	\$92,836				2.30	6.18	2.45

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 38 **Estimated Qualifying Very Low and Low Income Households** Prototype 10B Seattle Affordable Housing Nexus Study 2015

Economic Sector	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Average Payroll Per Employee (3)	Estimated Household Income (4)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 31% and 60% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated Households Earning Incomes Below 30% AMI	Between 31%	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	0.20	0.13	\$92,870	\$147,663	10%	5%	65%	0.01	0.01	0.08
Wholesale Trade	0.70	0.44	\$98,744	\$157,002	20%	45%	15%	0.09	0.20	0.07
Retail Trade	2.60	1.64	\$46,953	\$74,655	25%	40%	15%	0.41	0.65	0.25
Transportation	0.30	0.19	\$64,278	\$102,202	20%	45%	15%	0.04	0.08	0.03
Warehousing and Storage	0.00	0.00	\$43,370	\$68,958	20%	45%	15%	0.00	0.00	0.00
Information and Communication	0.40	0.25	\$111,660	\$177,540	10%	50%	30%	0.03	0.13	0.08
Finance and Insurance	0.80	0.50	\$77,266	\$122,853	0%	10%	20%	0.00	0.05	0.10
Real Estate, Rentals and Leasing	1.10	0.69	\$24,111	\$38,337	0%	10%	20%	0.00	0.07	0.14
Professional, Scientific and Technical	0.60	0.38	\$94,088	\$149,599	5%	10%	25%	0.02	0.04	0.09
Management and Administrative Services	0.70	0.44	\$62,780	\$99,821	0%	0%	10%	0.00	0.00	0.04
Educational Services	0.40	0.25	\$34,465	\$54,799	5%	35%	20%	0.01	0.09	0.05
Health Care and Social Assistance	3.50	2.20	\$72,072	\$114,595	10%	70%	20%	0.22	1.54	0.44
Arts, Entertainment and Recreation	0.70	0.44	\$27,384	\$43,541	8%	32%	25%	0.04	0.14	0.11
Other Services	3.10	1.95	\$38,630	\$61,422	35%	55%	10%	0.68	1.07	0.19
Government	0.20	0.13	\$104,070	\$165,472	10%	50%	30%	0.01	0.06	0.04
Total/Average	15.10	9.50	\$58,387	\$92,836				1.54	4.13	1.63

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.
(2) Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 39
Estimated Qualifying Very Low and Low Income Households
Prototype 11A
Seattle Affordable Housing Nexus Study
2015

Economic Sector	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Average Payroll Per Employee (3)	Estimated Household Income (4)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Incomes	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated Households Earning	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	0.50	0.31	\$92,870	\$147,663	10%	5%	65%	0.03	0.02	0.20
Wholesale Trade	1.40	0.88	\$98,744	\$157,002	20%	45%	15%	0.18	0.40	0.13
Retail Trade	5.60	3.52	\$46,953	\$74,655	25%	40%	15%	0.88	1.41	0.53
Transportation	0.60	0.38	\$64,278	\$102,202	20%	45%	15%	0.08	0.17	0.06
Warehousing and Storage	0.00	0.00	\$43,370	\$68,958	20%	45%	15%	0.00	0.00	0.00
Information and Communication	1.00	0.63	\$111,660	\$177,540	10%	50%	30%	0.06	0.31	0.19
Finance and Insurance	1.80	1.13	\$77,266	\$122,853	0%	10%	20%	0.00	0.11	0.23
Real Estate, Rentals and Leasing	2.40	1.51	\$24,111	\$38,337	0%	10%	20%	0.00	0.15	0.30
Professional, Scientific and Technical	1.30	0.82	\$94,088	\$149,599	5%	10%	25%	0.04	0.08	0.20
Management and Administrative Services	1.50	0.94	\$62,780	\$99,821	0%	0%	10%	0.00	0.00	0.09
Educational Services	0.90	0.57	\$34,465	\$54,799	5%	35%	20%	0.03	0.20	0.11
Health Care and Social Assistance	7.60	4.78	\$72,072	\$114,595	10%	70%	20%	0.48	3.35	0.96
Arts, Entertainment and Recreation	0.80	0.50	\$27,384	\$43,541	8%	32%	25%	0.04	0.16	0.13
Other Services	6.60	4.15	\$38,630	\$61,422	35%	55%	10%	1.45	2.28	0.42
Government	0.50	0.31	\$104,070	\$165,472	10%	50%	30%	0.03	0.16	0.09
Total/Average	32.00	20.13	\$58,387	\$92,836				3.27	8.78	3.44

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 40
Estimated Qualifying Very Low and Low Income Households
Prototype 12A
Seattle Affordable Housing Nexus Study
2015

Economic Sector	Total New FTE Employees Generated by Development (1)		Average Payroll Per Employee (3)	Estimated Household Income (4)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 31% and 60% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated Households Earning Incomes Below 30% AMI	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	0.30	0.19	\$92,870	\$147,663	10%	5%	65%	0.02	0.01	0.12
Wholesale Trade	1.00	0.63	\$98,744	\$157,002	20%	45%	15%	0.13	0.28	0.09
Retail Trade	3.90	2.45	\$46,953	\$74,655	25%	40%	15%	0.61	0.98	0.37
Transportation	0.40	0.25	\$64,278	\$102,202	20%	45%	15%	0.05	0.11	0.04
Warehousing and Storage	0.00	0.00	\$43,370	\$68,958	20%	45%	15%	0.00	0.00	0.00
Information and Communication	0.70	0.44	\$111,660	\$177,540	10%	50%	30%	0.04	0.22	0.13
Finance and Insurance	1.20	0.75	\$77,266	\$122,853	0%	10%	20%	0.00	0.08	0.15
Real Estate, Rentals and Leasing	1.70	1.07	\$24,111	\$38,337	0%	10%	20%	0.00	0.11	0.21
Professional, Scientific and Technical	0.90	0.57	\$94,088	\$149,599	5%	10%	25%	0.03	0.06	0.14
Management and Administrative Services	1.00	0.63	\$62,780	\$99,821	0%	0%	10%	0.00	0.00	0.06
Educational Services	0.60	0.38	\$34,465	\$54,799	5%	35%	20%	0.02	0.13	0.08
Health Care and Social Assistance	5.20	3.27	\$72,072	\$114,595	10%	70%	20%	0.33	2.29	0.65
Arts, Entertainment and Recreation	1.00	0.63	\$27,384	\$43,541	8%	32%	25%	0.05	0.20	0.16
Other Services	4.60	2.89	\$38,630	\$61,422	35%	55%	10%	1.01	1.59	0.29
Government	0.40	0.25	\$104,070	\$165,472	10%	50%	30%	0.03	0.13	0.08
Total/Average	22.60	14.21	\$58,387	\$92,836				2.30	6.18	2.45

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 41
Estimated Qualifying Very Low and Low Income Households
Single-Family Infill
Seattle Affordable Housing Nexus and Economic Impact Study
2015

Economic Sector	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 31% and 60% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated Households Earning Incomes Below 30% AMI	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	0.01	0.01	10%	5%	65%	0.00	0.00	0.00
Wholesale Trade	0.01	0.01	20%	45%	15%	0.00	0.00	0.00
Retail Trade	0.08	0.05	25%	40%	15%	0.01	0.02	0.01
Transportation	0.01	0.01	20%	45%	15%	0.00	0.00	0.00
Warehousing and Storage	0.00	0.00	20%	45%	15%	0.00	0.00	0.00
Information and Communication	0.01	0.01	10%	50%	30%	0.00	0.00	0.00
Finance and Insurance	0.02	0.01	0%	10%	20%	0.00	0.00	0.00
Real Estate, Rentals and Leasing	0.03	0.02	0%	10%	20%	0.00	0.00	0.00
Professional, Scientific and Technical	0.02	0.01	5%	10%	25%	0.00	0.00	0.00
Management and Administrative Services	0.02	0.01	0%	0%	10%	0.00	0.00	0.00
Educational Services	0.01	0.01	5%	35%	20%	0.00	0.00	0.00
Health Care and Social Assistance	0.10	0.06	10%	70%	20%	0.01	0.04	0.01
Arts, Entertainment and Recreation	0.02	0.01	8%	32%	25%	0.00	0.00	0.00
Other Services	0.09	0.06	35%	55%	10%	0.02	0.03	0.01
Government	0.01	0.01	10%	50%	30%	0.00	0.00	0.00
Total/Average	0.43	0.27				0.04	0.12	0.05

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 42
Estimated Qualifying Very Low and Low Income Households
Owner Townhomes
Seattle Affordable Housing Nexus and Economic Impact Study
2015

Economic Sector	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 31% and 60% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated Households Earning Incomes Below 30% AMI	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	0.03	0.02	10%	5%	65%	0.00	0.00	0.01
Wholesale Trade	0.08	0.05	20%	45%	15%	0.01	0.02	0.01
Retail Trade	0.39	0.25	25%	40%	15%	0.06	0.10	0.04
Transportation	0.04	0.03	20%	45%	15%	0.01	0.01	0.00
Warehousing and Storage	0.00	0.00	20%	45%	15%	0.00	0.00	0.00
Information and Communication	0.06	0.04	10%	50%	30%	0.00	0.02	0.01
Finance and Insurance	0.10	0.06	0%	10%	20%	0.00	0.01	0.01
Real Estate, Rentals and Leasing	0.16	0.10	0%	10%	20%	0.00	0.01	0.02
Professional, Scientific and Technical	0.08	0.05	5%	10%	25%	0.00	0.01	0.01
Management and Administrative Services	0.10	0.06	0%	0%	10%	0.00	0.00	0.01
Educational Services	0.06	0.04	5%	35%	20%	0.00	0.01	0.01
Health Care and Social Assistance	0.52	0.33	10%	70%	20%	0.03	0.23	0.07
Arts, Entertainment and Recreation	0.09	0.06	8%	32%	25%	0.00	0.02	0.01
Other Services	0.45	0.28	35%	55%	10%	0.10	0.16	0.03
Government	0.03	0.02	10%	50%	30%	0.00	0.01	0.01
Total/Average	2.16	1.36				0.22	0.60	0.23

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 43
Estimated Qualifying Very Low and Low Income Households
Owner Flats
Seattle Affordable Housing Nexus and Economic Impact Study
2015

	Total New FTE Employees Generated by	No. of New Households	Estimated Percent of HH Earning Incomes Below 30% AMI	Earning Incomes	Percent of HH Earning Incomes Between 61% and 80% AMI	Estimated Households Earning Incomes Below 30%	Estimated Households Earning Incomes Between 31%	Estimated Households Earning Incomes Between 61%
Economic Sector	Development (1)	(2)	(5)(6)	(5)(6)	(5)(6)	AMI	and 60% AMI	and 80% AMI
Manufacturing Wholesale Trade	0.04 0.09	0.03 0.06	10% 20%	5% 45%	65% 15%	0.00 0.01	0.00 0.03	0.02 0.01
Retail Trade	0.43	0.27	25%	40%	15%	0.07	0.11	0.04
Transportation	0.04	0.03	20%	45%	15%	0.01	0.01	0.00
Warehousing and Storage	0.01	0.01	20%	45%	15%	0.00	0.00	0.00
Information and Communication	0.07	0.04	10%	50%	30%	0.00	0.02	0.01
Finance and Insurance	0.12	0.08	0%	10%	20%	0.00	0.01	0.02
Real Estate, Rentals and Leasing	0.18	0.11	0%	10%	20%	0.00	0.01	0.02
Professional, Scientific and Technical	0.09	0.06	5%	10%	25%	0.00	0.01	0.01
Management and Administrative Services	0.11	0.07	0%	0%	10%	0.00	0.00	0.01
Educational Services	0.06	0.04	5%	35%	20%	0.00	0.01	0.01
Health Care and Social Assistance	0.59	0.37	10%	70%	20%	0.04	0.26	0.07
Arts, Entertainment and Recreation	0.10	0.06	8%	32%	25%	0.01	0.02	0.02
Other Services	0.51	0.32	35%	55%	10%	0.11	0.18	0.03
Government	0.04	0.03	10%	50%	30%	0.00	0.01	0.01
Total/Average	2.44	1.53				0.25	0.68	0.26

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 44
Estimated Qualifying Very Low and Low Income Households
Rental Flats
Seattle Affordable Housing Nexus and Economic Impact Study
2015

Economic Sector	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Percent of HH Earning Incomes Between 31% and 60% AMI (5)(6)	Percent of HH Earning Incomes Between 61% and 80% AMI	Estimated Households Earning Incomes Below 30% AMI	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	0.05	0.03	10%	5%	65%	0.00	0.00	0.02
Wholesale Trade	0.13	0.03	20%	45%	15%	0.02	0.04	0.02
Retail Trade	0.59	0.37	25%	40%	15%	0.09	0.15	0.06
Transportation	0.06	0.04	20%	45%	15%	0.01	0.02	0.01
Warehousing and Storage	0.01	0.01	20%	45%	15%	0.00	0.00	0.00
Information and Communication	0.09	0.06	10%	50%	30%	0.01	0.03	0.02
Finance and Insurance	0.16	0.10	0%	10%	20%	0.00	0.01	0.02
Real Estate, Rentals and Leasing	0.25	0.16	0%	10%	20%	0.00	0.02	0.03
Professional, Scientific and Technical	0.13	0.08	5%	10%	25%	0.00	0.01	0.02
Management and Administrative Services	0.15	0.09	0%	0%	10%	0.00	0.00	0.01
Educational Services	0.09	0.06	5%	35%	20%	0.00	0.02	0.01
Health Care and Social Assistance	0.80	0.50	10%	70%	20%	0.05	0.35	0.10
Arts, Entertainment and Recreation	0.13	0.08	8%	32%	25%	0.01	0.03	0.02
Other Services	0.69	0.43	35%	55%	10%	0.15	0.24	0.04
Government	0.05	0.03	10%	50%	30%	0.00	0.02	0.01
Total/Average	3.33	2.09				0.34	0.92	0.36

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 45
Estimated Qualifying Very Low and Low Income Households
Mixed-Use / Grocery Store
Seattle Affordable Housing Nexus and Economic Impact Study
2015

Economic Sector	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	of HH Earning	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	0.74	0.47	10%	5%	65%	0.05	0.02	0.30
Wholesale Trade	1.55	0.97	20%	45%	15%	0.19	0.44	0.15
Retail Trade	8.52	5.36	25%	40%	15%	1.34	2.14	0.80
Transportation	0.73	0.46	20%	45%	15%	0.09	0.21	0.07
Warehousing and Storage	0.08	0.05	20%	45%	15%	0.01	0.02	0.01
Information and Communication	1.24	0.78	10%	50%	30%	0.08	0.39	0.23
Finance and Insurance	2.17	1.36	0%	10%	20%	0.00	0.14	0.27
Real Estate, Rentals and Leasing	4.05	2.55	0%	10%	20%	0.00	0.25	0.51
Professional, Scientific and Technical	1.78	1.12	5%	10%	25%	0.06	0.11	0.28
Management and Administrative Services	2.04	1.28	0%	0%	10%	0.00	0.00	0.13
Educational Services	1.19	0.75	5%	35%	20%	0.04	0.26	0.15
Health Care and Social Assistance	11.42	7.18	10%	70%	20%	0.72	5.03	1.44
Arts, Entertainment and Recreation	1.74	1.09	8%	32%	25%	0.09	0.35	0.27
Other Services	8.97	5.64	35%	55%	10%	1.97	3.10	0.56
Government	0.70	0.44	10%	50%	30%	0.04	0.22	0.13
Total/Average	46.18	29.04				4.63	12.67	5.01

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 46
Estimated Qualifying Very Low and Low Income Households
Mixed-Use / Restaurant
Seattle Affordable Housing Nexus and Economic Impact Study
2015

Economic Sector	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 31% and 60% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated Households Earning Incomes Below 30% AMI	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	0.31	0.19	10%	5%	65%	0.02	0.01	0.13
Wholesale Trade	0.64	0.40	20%	45%	15%	0.08	0.18	0.06
Retail Trade	3.54	2.23	25%	40%	15%	0.56	0.89	0.33
Transportation	0.31	0.19	20%	45%	15%	0.04	0.09	0.03
Warehousing and Storage	0.03	0.02	20%	45%	15%	0.00	0.01	0.00
Information and Communication	0.52	0.33	10%	50%	30%	0.03	0.16	0.10
Finance and Insurance	0.90	0.57	0%	10%	20%	0.00	0.06	0.11
Real Estate, Rentals and Leasing	1.69	1.06	0%	10%	20%	0.00	0.11	0.21
Professional, Scientific and Technical	0.74	0.47	5%	10%	25%	0.02	0.05	0.12
Management and Administrative Services	0.85	0.53	0%	0%	10%	0.00	0.00	0.05
Educational Services	0.50	0.31	5%	35%	20%	0.02	0.11	0.06
Health Care and Social Assistance	4.75	2.99	10%	70%	20%	0.30	2.09	0.60
Arts, Entertainment and Recreation	0.72	0.45	8%	32%	25%	0.04	0.14	0.11
Other Services	3.73	2.35	35%	55%	10%	0.82	1.29	0.23
Government	0.29	0.18	10%	50%	30%	0.02	0.09	0.05
Total/Average	19.21	12.08				1.93	5.27	2.08

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 47
Estimated Qualifying Very Low and Low Income Households
Mixed-Use / Entertainment
Seattle Affordable Housing Nexus and Economic Impact Study
2015

Economic Sector	Total New FTE Employees Generated by Development (1)	No. of New Households (2)	Estimated Percent of HH Earning Incomes Below 30% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 31% and 60% AMI (5)(6)	Estimated Percent of HH Earning Incomes Between 61% and 80% AMI (5)(6)	Estimated Households Earning Incomes Below 30% AMI	Estimated Households Earning Incomes Between 31% and 60% AMI	Estimated Households Earning Incomes Between 61% and 80% AMI
Manufacturing	0.37	0.23	10%	5%	65%	0.02	0.01	0.15
Wholesale Trade	0.79	0.50	20%	45%	15%	0.10	0.22	0.07
Retail Trade	4.33	2.72	25%	40%	15%	0.68	1.09	0.41
Transportation	0.37	0.23	20%	45%	15%	0.05	0.10	0.03
Warehousing and Storage	0.04	0.03	20%	45%	15%	0.01	0.01	0.00
Information and Communication	0.63	0.40	10%	50%	30%	0.04	0.20	0.12
Finance and Insurance	1.10	0.69	0%	10%	20%	0.00	0.07	0.14
Real Estate, Rentals and Leasing	2.06	1.30	0%	10%	20%	0.00	0.13	0.26
Professional, Scientific and Technical	0.91	0.57	5%	10%	25%	0.03	0.06	0.14
Management and Administrative Services	1.04	0.65	0%	0%	10%	0.00	0.00	0.07
Educational Services	0.61	0.38	5%	35%	20%	0.02	0.13	0.08
Health Care and Social Assistance	5.81	3.65	10%	70%	20%	0.37	2.56	0.73
Arts, Entertainment and Recreation	0.89	0.56	8%	32%	25%	0.04	0.18	0.14
Other Services	4.56	2.87	35%	55%	10%	1.00	1.58	0.29
Government	0.36	0.23	10%	50%	30%	0.02	0.11	0.07
Total/Average	23.50	14.78				2.36	6.44	2.55

<sup>(1)</sup> Includes full-time equivalent employees from the IMPLAN input/output model.

<sup>(2)</sup> Number of FTE conversion employees divided by 1.59 employees per worker household.

<sup>(3)</sup> From IMPLAN input/output model.

<sup>(4)</sup> Average payroll per employee multiplied by 1.59 employees per worker household.

<sup>(5)</sup> Based on 2.5 persons per household and income limits of \$22,500 at 30% AMI, \$44,950 at 60% AMI and \$59,950 at 80% AMI.

<sup>(6)</sup> Percentage of employees by income category estimated based on IMPLAN average payroll figures, and BLS wage by occupation survey.

Table 48
National Office and Hotel Worker Distribution by Occupation 2015

Industry/Occupation Category	Office Workers	<b>Hotel Workers</b>
Management	9%	5%
Business and Financial Operations	10%	0%
Computer and Mathematical	3%	0%
Architecture and Engineering	5%	0%
Life, Physical and Social Science	0%	0%
Community and Social Services	0%	0%
Legal	4%	0%
Education, Training, and Library	0%	0%
Arts, Design, Entertainment, Sports and Media	0%	0%
Healthcare Practitioners and Technical	9%	0%
Healthcare Support	4%	0%
Protective Service	0%	0%
Food Preparation and Serving Related	0%	27%
Building and Grounds Cleaning and Maintenance	0%	29%
Personal Care and Service	0%	7%
Sales and Related	7%	3%
Office and Administrative Support	37%	17%
Farming, Fishing and Forestry	0%	0%
Construction and Extraction	0%	0%
Installation, Maintenance and Repair	4%	4%
Production	0%	0%
Transportation and Material Moving	0%	0%
All Other Office Related Occupations	8%	8%
Industry Total	100%	100%

Source: Bureau of Labor Statistics, Occupational Employment Statistics, May 2013 National Industry-Specific Occupational Employment and Wage Estimates.

Table 49
Estimated Distribution of Employees by Occupation
Additional Non-Residential Land Uses
2015

Industry/Occupation Category	Grocery Store	Restaurant	Entertainment	Retail	R&D Laboratory	<b>Medical Office</b>
Management	2.2%	2.2%	2.2%	2.2%	8.9%	8.9%
Business and Financial Operations	0.0%	0.0%	0.0%	0.0%	9.7%	9.7%
Computer and Mathematical	0.0%	0.0%	0.0%	0.0%	3.4%	3.4%
Architecture and Engineering	0.0%	0.0%	0.0%	0.0%	4.9%	4.9%
Life, Physical and Social Science	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Community and Social Services	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Legal	0.0%	0.0%	0.0%	0.0%	3.6%	3.6%
Education, Training, and Library	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arts, Design, Entertainment, Sports and Media	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Healthcare Practitioners and Technical	0.0%	0.0%	0.0%	0.0%	8.9%	8.9%
Healthcare Support	0.0%	0.0%	0.0%	0.0%	4.4%	4.4%
Protective Service	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Food Preparation and Serving Related	40.0%	40.0%	40.0%	40.0%	0.0%	0.0%
Building and Grounds Cleaning and Maintenance	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Personal Care and Service	2.6%	2.6%	2.6%	2.6%	0.0%	0.0%
Sales and Related	29.1%	29.1%	29.1%	29.1%	6.6%	6.6%
Office and Administrative Support	8.9%	8.9%	8.9%	8.9%	37.4%	37.4%
Farming, Fishing and Forestry	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Construction and Extraction	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Installation, Maintenance and Repair	4.1%	4.1%	4.1%	4.1%	3.8%	3.8%
Production	2.9%	2.9%	2.9%	2.9%	0.0%	0.0%
Transportation and Material Moving	5.8%	5.8%	5.8%	5.8%	0.0%	0.0%
All Other Office Related Occupations	4.4%	4.4%	4.4%	4.4%	8.4%	8.4%
Industry Total	100%	100%	100%	100.0%	100%	100%

Notes: Based on 2012 national industry occupation distributions from the BLS for office and retail workers. The retail distribution is used for grocery store, restaurant and entertainment uses. The office distribution is

Source: Bureau of Labor Statistics, Occupational Employment Statistics, May 2013 National Industry-Specific Occupational Employment and Wage Estimates; DRA.

Table 50
Projected Occupational Distribution of New Employee Households
Non-Residential Nexus Fee Analysis
Seattle Affordable Housing Nexus Study

		P	Office rototype 3A		P	Office rototype 6A		Hotel Prototype		
Steps	Factor	%	No.	Units	%	No.	Units	%	No.	Units
1. Grost Square Feet			249,480			238,400			117,600	
2. Employment Density Factor			250	GSF/Emp.		250	GSF/Emp.			Emp./Rm. GSF/Room
Number of Employees			998	Emp.		954	Emp.		235	Emp.
3. Employees Living in Seattle (1)	50.6%		505	Emp.		483	Emp.		119	Emp.
4. Adjustment for Number of Employees Per Household	1.59 Emp/HH		318	НН		304	НН		75	НН
5. Household Occupational Distribution (2)										
Management		9%	28.3	HH	9%	27.1	HH	5%	3.7	НН
Business and Financial Operations		10%	31.0	HH	10%	29.6	HH	0%	0.0	HH
Computer and Mathematical		3%	10.8	HH	3%	10.3	HH	0%	0.0	HH
Architecture and Engineering		5%	15.6	HH	5%	14.9	HH	0%	0.0	HH
Life, Physical and Social Science		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Community and Social Services		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Legal		4%	11.5	HH	4%	11.0	HH	0%	0.0	HH
Education, Training, and Library		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Arts, Design, Entertainment, Sports and										
Media		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Healthcare Practitioners and Technical		9%	28.2	HH	9%	26.9	HH	0%	0.0	HH
Healthcare Support		4%	14.1	HH	4%	13.4	HH	0%	0.0	HH
Protective Service		0%	0.0	HH	0%	0.0	HH HH	0%	0.0	HH
Food Preparation and Serving-Related		0%	0.0	HH	0%	0.0	нн	27%	20.3	HH
Building/Grounds Cleaning and Maintenance		0%	0.0	НН	0%	0.0	НН	29%	21.7	НН
Personal Care and Service		0%	0.0	HH	0%	0.0	HH	29 % 7%	5.5	HH
Sales and Related		7%	20.8	HH	7%	19.9	HH	3%	2.3	HH
Office and Administrative Support		37%	118.7	HH	37%	113.5	HH	17%	12.6	HH
Farming, Fishing and Forestry		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Construction and Extraction		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Installation, Maintenance and Repair		4%	12.1	HH	4%	11.5	HH	4%	2.9	HH
Production		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Transportation and Material Moving		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
All Other Occupations		8%	26.5	HH	8%	25.4	HH	8%	5.9	HH
Total		100%	317.6		100%	303.5		100%	74.9	
10001		.0070	317.0		. 50 /0	303.3		. 50 /0	, 1	

Legend: HH = households; SF = square feet; Emp = employees.

<sup>(1)</sup> Source: American Community Survey, five-year estimates, 2006-2010.

<sup>(2)</sup> From Bureau of Labor Statistics, Occupational Employment Statistics, May 2013 National Industry-Specific Occupational Employment and Wage Estimates. Source: American Community Survey; Bureau of Labor Statistics; DRA.

Table 51
Projected Occupational Distribution of New Employee Households
Non-Residential Uses in Mixed-Use Prototypes
Seattle Affordable Housing Nexus and Economic Impact Study
2015

		(	Grocery Store			Restaurant		Entertainment		
Steps	Factor	%	No.	Units	%	No.	Units	%	No.	Units
Gross Square Feet			50,000			3,000			15,000	
2. Employment Density Factor			500	GSF/Emp.		500	GSF/Emp.		750	GSF/Emp
Number of Employees			100	Emp.		6	Emp.		20	Emp.
3. Employees Living in										
Seattle (1)	50.6%		51	Emp.		3	Emp.		10	Emp.
4. Adjustment for Number of Employees Per Household	1.59 Emp/HH		32	НН		2	НН		6	НН
5. Adjustment for Overlap with Residential Nexus Fee: Retail Uses (2)	70%		10	НН		1	НН		2	НН
6. Household Occupational Distribution (3)										
Management		2%	0.2	HH	2%	0.0	HH	2%	0.0	НН
Business and Financial Operations		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Computer and Mathematical		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Architecture and Engineering		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Life, Physical and Social Science		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Community and Social Services		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Legal		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Education, Training, and Library		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Arts, Design, Entertainment, Sports and										
Media		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Healthcare Practitioners and Technical		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Healthcare Support		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Protective Service		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Food Preparation and Serving-Related Building/Grounds Cleaning and		40%	3.8	HH	40%	0.2	HH	40%	0.8	НН
Maintenance		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Personal Care and Service		3%	0.2	HH	3%	0.0	HH	3%	0.0	HH
Sales and Related		29%	2.8	HH	29%	0.2	HH	29%	0.6	HH
Office and Administrative Support		9%	0.8	HH	9%	0.1	HH	9%	0.2	HH
Farming, Fishing and Forestry		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Construction and Extraction		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Installation, Maintenance and Repair		4%	0.4	HH	4%	0.0	HH	4%	0.1	HH
Production		3%	0.3	HH	3%	0.0	HH	3%	0.1	HH
Transportation and Material Moving		6%	0.6	HH	6%	0.0	HH	6%	0.1	HH
All Other Occupations		4%	0.4	HH	4%	0.0	HH	4%	0.1	HH
Total		100%	9.5		100%	0.5		100%	2.0	

Legend: HH = households; SF = square feet; Emp = employees.

<sup>(1)</sup> Source: American Community Survey, five-year estimates, 2006-2010.

<sup>(2)</sup> Adjustment to eliminate potential overlap with residential nexus fee in retail and medical office uses. Assumes 70% overlap, with 30% of demand coming from sources other than local residents.

<sup>(3)</sup> From Bureau of Labor Statistics, Occupational Employment Statistics, May 2013 National Industry-Specific Occupational Employment and Wage Estimates. Source: American Community Survey; Bureau of Labor Statistics; DRA.

Table 52
Projected Occupational Distribution of New Employee Households
Additional Non-Residential Uses
Seattle Affordable Housing Nexus and Economic Impact Study
2015

		Stan	d-Alone Reta	il	R&	D Laboratory	,	Medical Office		
Steps	Factor	%	No.	Units	%	No.	Units	%	No.	Units
1. Gross Square Feet			25,000			100,000			87,000	
2. Employment Density Factor			500	GSF/Emp.		350	GSF/Emp.		350	GSF/Emp.
Number of Employees			50	Emp.		286	Emp.		249	Emp.
3. Employees Living in Seattle (1)	50.6%		25	Emp.		145	Emp.		126	Emp.
Adjustment for Number of Employees Per Household	1.59 Emp/HH		16	НН		91	НН		79	НН
5. Adjustment for Overlap with Residential Nexus Fee: Retail Uses (2)	70%		5	НН		91	НН		24	НН
6. Household Occupational Distribution (3)										
Management Business and Financial Operations		2% 0%	0.1 0.0	HH HH	9% 10%	8.1 8.8	HH HH	9% 10%	2.1 2.3	HH HH
Computer and Mathematical		0%	0.0	HH	3%	3.1	HH	3%	0.8	HH
Architecture and Engineering		0%	0.0	HH	5%	4.5	HH	5%	1.2	HH
Life, Physical and Social Science		0% 0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Community and Social Services		0% 0%	0.0	HH HH	0% 4%	0.0 3.3	HH HH	0% 4%	0.0 0.9	HH HH
Legal		0%	0.0	пп НН	4% 0%	0.0	пп НН	0%	0.9	HH
Education, Training, and Library Arts, Design, Entertainment, Sports and		076	0.0	пп	076	0.0	пп	076	0.0	пп
Media		0%	0.0	НН	0%	0.0	НН	0%	0.0	НН
Healthcare Practitioners and Technical		0%	0.0	HH	9%	8.1	HH	9%	2.1	HH
Healthcare Support		0%	0.0	HH	4%	4.0	HH	4%	1.0	HH
Protective Service		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Food Preparation and Serving-Related		40%	1.9	HH	0%	0.0	HH	0%	0.0	HH
Building/Grounds Cleaning and		10 /0	1.5		0 70	0.0		0 70	0.0	
Maintenance		0%	0.0	HH	0%	0.0	НН	0%	0.0	НН
Personal Care and Service		3%	0.1	НН	0%	0.0	НН	0%	0.0	НН
Sales and Related		29%	1.4	HH	7%	6.0	НН	7%	1.6	НН
Office and Administrative Support		9%	0.4	HH	37%	34.0	НН	37%	8.9	HH
Farming, Fishing and Forestry		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Construction and Extraction		0%	0.0	HH	0%	0.0	HH	0%	0.0	HH
Installation, Maintenance and Repair		4%	0.2	HH	4%	3.5	HH	4%	0.9	HH
Production		3%	0.1	HH	0%	0.0	HH	0%	0.0	HH
Transportation and Material Moving		6%	0.3	HH	0%	0.0	HH	0%	0.0	HH
All Other Occupations		4%	0.2	HH	8%	7.6	HH	8%	2.0	HH
Total		100%	4.7		100%	91.0		100%	23.8	

Legend: HH = households; SF = square feet; Emp = employees.

<sup>(1)</sup> Source: American Community Survey, five-year estimates, 2006-2010.

<sup>(2)</sup> Adjustment to eliminate potential overlap with residential nexus fee in retail and medical office uses. Assumes 70% overlap, with 30% of demand coming from sources other than local residents.

<sup>(3)</sup> From Bureau of Labor Statistics, Occupational Employment Statistics, May 2013 National Industry-Specific Occupational Employment and Wage Estimates. Source: American Community Survey; Bureau of Labor Statistics; DRA.

Table 53
Estimated Households Earning Up to 30% AMI
Seattle Affordable Housing Nexus Study

	% of Employees Earning Up to	Offi Prototy		Offi Prototy		Ho Proto	
Steps	30% AMI	Percent (1)	No. (2)	Percent (1)	No. (2)	Percent (1)	No. (2)
6. Households Earning Up to 30% AMI							
Management	0%	0%	0.0	0%	0.0	0%	0.0
Business and Financial Operations	0%	0%	0.0	0%	0.0	0%	0.0
Computer and Mathematical	0%	0%	0.0	0%	0.0	0%	0.0
Architecture and Engineering	0%	0%	0.0	0%	0.0	0%	0.0
Life, Physical and Social Science	5%	0%	0.0	0%	0.0	0%	0.0
Community and Social Services	7%	0%	0.0	0%	0.0	0%	0.0
Legal	0%	0%	0.0	0%	0.0	0%	0.0
Education, Training, and Library	5%	0%	0.0	0%	0.0	0%	0.0
Arts, Design, Entertainment, Sports and Media	8%	0%	0.0	0%	0.0	0%	0.0
Healthcare Practitioners and Technical	0%	0%	0.0	0%	0.0	0%	0.0
Healthcare Support	10%	0%	0.1	0%	0.1	0%	0.0
Protective Service	10%	0%	0.0	0%	0.0	0%	0.0
Food Preparation and Serving Related	50%	0%	0.0	0%	0.0	14%	5.1
Building and Grounds Cleaning and Maintenance	25%	0%	0.0	0%	0.0	7%	1.4
Personal Care and Service	35%	0%	0.0	0%	0.0	3%	0.7
Sales and Related	25%	2%	1.3	2%	1.2	1%	0.1
Office and Administrative Support	10%	4%	1.2	4%	1.1	2%	0.1
Farming, Fishing and Forestry	35%	0%	0.0	0%	0.0	0%	0.0
Construction and Extraction	5%	0%	0.0	0%	0.0	0%	0.0
Installation, Maintenance and Repair	15%	1%	0.3	1%	0.3	1%	0.1
Production	10%	0%	0.0	0%	0.0	0%	0.0
Transportation and Material Moving	20%	0%	0.0	0%	0.0	0%	0.0
Total		6%	2.9	6%	2.7	26%	7.5

<sup>(1)</sup> Percent distribution of households by occupation by land use multiplied by estimated percent of occupation earning less than 30% AMI.

<sup>(2)</sup> Percent of occupation earning less than 30% AMI by land use multiplied by total employee households generated by land use. Source: Bureau of Labor Statistics; DRA

Table 54
Estimated Households Earning Between 31% and 60% AMI
Seattle Affordable Housing Nexus Study

	% of Employees	Off		Offi		Hotel		
C.	Earning 31%	Prototy		Prototy		Prototype (2)		
Steps	to 60% AMI	Percent (1)	No. (2)	Percent (1)	No. (2)	Percent (1)	No. (2)	
6. Households Earning Between 31% AMI and 60% AMI								
Management	0%	0%	0.0	0%	0.0	0%	0.0	
Business and Financial Operations	10%	1%	0.3	1%	0.3	0%	0.0	
Computer and Mathematical	0%	0%	0.0	0%	0.0	0%	0.0	
Architecture and Engineering	0%	0%	0.0	0%	0.0	0%	0.0	
Life, Physical and Social Science	10%	0%	0.0	0%	0.0	0%	0.0	
Community and Social Services	43%	0%	0.0	0%	0.0	0%	0.0	
Legal	10%	0%	0.1	0%	0.1	0%	0.0	
Education, Training, and Library	35%	0%	0.0	0%	0.0	0%	0.0	
Arts, Design, Entertainment, Sports and Media	32%	0%	0.0	0%	0.0	0%	0.0	
Healthcare Practitioners and Technical	15%	1%	0.6	1%	0.6	0%	0.0	
Healthcare Support	70%	3%	6.9	3%	6.6	0%	0.0	
Protective Service	40%	0%	0.0	0%	0.0	0%	0.0	
Food Preparation and Serving Related	50%	0%	0.0	0%	0.0	14%	5.1	
Building and Grounds Cleaning and Maintenance	60%	0%	0.0	0%	0.0	17%	7.8	
Personal Care and Service	55%	0%	0.0	0%	0.0	4%	1.7	
Sales and Related	40%	3%	3.3	3%	3.2	1%	0.4	
Office and Administrative Support	50%	19%	29.7	19%	28.4	8%	3.2	
Farming, Fishing and Forestry	40%	0%	0.0	0%	0.0	0%	0.0	
Construction and Extraction	30%	0%	0.0	0%	0.0	0%	0.0	
Installation, Maintenance and Repair	20%	1%	0.5	1%	0.5	1%	0.1	
Production	5%	0%	0.0	0%	0.0	0%	0.0	
Transportation and Material Moving	45%	0%	0.0	0%	0.0	0%	0.0	
Total		28%	41.4	28%	39.7	45%	18.3	

<sup>(1)</sup> Percent distribution of households by occupation by land use multiplied by estimated percent of occupation earning between 31% and 60% AMI.

<sup>(2)</sup> Percent of occupation earning between 31% and 60% AMI by land use multiplied by total households generated by land use. Source: Bureau of Labor Statistics; DRA

Table 55
Estimated Households Earning Between 61% and 80% AMI
Seattle Affordable Housing Nexus Study

	% of Employees Earning 61%	Off Prototy		Offi Prototy		Hotel Prototype		
Steps	to 80% AMI	Percent (1)	No. (2)	Percent (1)	No. (2)	Percent (1)	No. (2)	
6. Households Earning Between 61% AMI and 80% AMI								
Management	10%	1%	0.3	1%	0.3	0%	0.0	
Business and Financial Operations	20%	2%	1.2	2%	1.2	0%	0.0	
Computer and Mathematical	10%	0%	0.1	0%	0.1	0%	0.0	
Architecture and Engineering	15%	1%	0.4	1%	0.3	0%	0.0	
Life, Physical and Social Science	25%	0%	0.0	0%	0.0	0%	0.0	
Community and Social Services	30%	0%	0.0	0%	0.0	0%	0.0	
Legal	15%	1%	0.3	1%	0.2	0%	0.0	
Education, Training, and Library	20%	0%	0.0	0%	0.0	0%	0.0	
Arts, Design, Entertainment, Sports and Media	25%	0%	0.0	0%	0.0	0%	0.0	
Healthcare Practitioners and Technical	15%	1%	0.6	1%	0.6	0%	0.0	
Healthcare Support	20%	1%	0.6	1%	0.5	0%	0.0	
Protective Service	25%	0%	0.0	0%	0.0	0%	0.0	
Food Preparation and Serving Related	0%	0%	0.0	0%	0.0	0%	0.0	
Building and Grounds Cleaning and Maintenance	15%	0%	0.0	0%	0.0	4%	0.5	
Personal Care and Service	10%	0%	0.0	0%	0.0	1%	0.1	
Sales and Related	15%	1%	0.5	1%	0.4	0%	0.1	
Office and Administrative Support	30%	11%	10.7	11%	10.2	5%	1.1	
Farming, Fishing and Forestry	10%	0%	0.0	0%	0.0	0%	0.0	
Construction and Extraction	20%	0%	0.0	0%	0.0	0%	0.0	
Installation, Maintenance and Repair	25%	1%	0.8	1%	0.7	1%	0.2	
Production	65%	0%	0.0	0%	0.0	0%	0.0	
Transportation and Material Moving	15%	0%	0.0	0%	0.0	0%	0.0	
Total		20%	15.5	20%	14.5	12%	2.0	

<sup>(1)</sup> Percent distribution of households by occupation by land use multiplied by estimated percent of occupation earning between 61% and 80% AMI.

<sup>(2)</sup> Percent of occupation earning between 61% and 80% AMI by land use multiplied by total households generated by land use.

## Table 56 Estimated Households Earning Up to 30% AMI Additional Non-Residential Land Uses Seattle Affordable Housing Nexus and Economic Impact Study

2015

	% of Employees Earning Up to	Grocery Store		Restaurant		Entertainment		Stand-Alone Retail		R&D Laboratory		Medical Office	
Steps	30% AMI	Percent (1)	No. (2)	Percent (1)	No. (2)	Percent (1)	No. (2)	Percent (1)	No. (2)	Percent (1)	No. (2)	Percent (1)	No. (2)
зієря		reiceit (1)	140. (2)	reiceit (1)	140. (2)	reiceit (1)	140. (2)	reiceit (1)	140. (2)	reiceiii (1)	140. (2)	reiceit (1)	140. (2)
6. Households Earning Up to 30% AMI													
Management	0%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Business and Financial Operations	0%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Computer and Mathematical	0%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Architecture and Engineering	0%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Life, Physical and Social Science	5%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Community and Social Services	7%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Legal	0%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Education, Training, and Library	5%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Arts, Design, Entertainment, Sports and Media	8%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Healthcare Practitioners and Technical	0%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Healthcare Support	10%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.4	0%	0.1
Protective Service	10%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Food Preparation and Serving-Related	50%	20%	1.9	20%	0.1	20%	0.4	20%	1.0	0%	0.0	0%	0.0
Building/Grounds Cleaning and Maintenance	25%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Personal Care and Service	35%	1%	0.1	1%	0.0	1%	0.0	1%	0.0	0%	0.0	0%	0.0
Sales and Related	25%	7%	0.7	7%	0.1	7%	0.2	7%	0.4	2%	1.5	2%	0.4
Office and Administrative Support	10%	1%	0.1	1%	0.0	1%	0.0	1%	0.0	4%	3.4	4%	0.9
Farming, Fishing and Forestry	35%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Construction and Extraction	5%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Installation, Maintenance and Repair	15%	1%	0.1	1%	0.0	1%	0.0	1%	0.0	1%	0.5	1%	0.1
Production	10%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Transportation and Material Moving	20%	1%	0.1	1%	0.0	1%	0.0	1%	0.1	0%	0.0	0%	0.0
Total		31%	3.0	31%	0.2	31%	0.6	31%	1.5	6%	5.8	6%	1.5

<sup>(1)</sup> Percent distribution of households by occupation by land use multiplied by estimated percent of occupation earning less than 30% AMI.
(2) Percent of occupation earning less than 30% AMI by land use multiplied by total employee households generated by land use.

Table 57
Estimated Households Earning Between 31% and 60% AMI
Additional Non-Residential Land Uses
Seattle Affordable Housing Nexus and Economic Impact Study

% of

	% of Employees												
	Earning 31%	Grocer	y Store	Restau	ırant	Enterta	inment	Stand-Alo	ne Retail	R&D Lal	oratory	Medical	Office
Steps	to 60% AMI	Percent (1)	No. (2)	Percent (1)	No. (2)	Percent (1)	No. (2)						
6. Households Earning Between 31% AMI and 60% AMI													
Management	0%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Business and Financial Operations	10%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	1%	0.9	1%	0.2
Computer and Mathematical	0%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Architecture and Engineering	0%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Life, Physical and Social Science	10%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Community and Social Services	43%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Legal	10%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.3	0%	0.1
Education, Training, and Library	35%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Arts, Design, Entertainment, Sports and Media	32%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Healthcare Practitioners and Technical	15%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	1%	1.2	1%	0.3
Healthcare Support	70%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	3%	2.8	3%	0.7
Protective Service	40%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Food Preparation and Serving-Related	50%	20%	1.9	20%	0.1	20%	0.4	20%	1.0	0%	0.0	0%	0.0
Building/Grounds Cleaning and Maintenance	60%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Personal Care and Service	55%	1%	0.1	1%	0.0	1%	0.0	1%	0.1	0%	0.0	0%	0.0
Sales and Related	40%	12%	1.1	12%	0.1	12%	0.2	12%	0.6	3%	2.4	3%	0.6
Office and Administrative Support	50%	4%	0.4	4%	0.1	4%	0.1	4%	0.2	19%	17.0	19%	4.5
Farming, Fishing and Forestry	40%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Construction and Extraction	30%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Installation, Maintenance and Repair	20%	1%	0.1	1%	0.0	1%	0.0	1%	0.0	1%	0.7	1%	0.2
Production	5%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Transportation and Material Moving	45%	3%	0.3	3%	0.0	3%	0.0	3%	0.1	0%	0.0	0%	0.0
Total		41%	3.9	41%	0.2	41%	0.8	41%	1.9	28%	25.3	28%	6.6

<sup>(1)</sup> Percent distribution of households by occupation by land use multiplied by estimated percent of occupation earning between 31% and 60% AMI.

<sup>(2)</sup> Percent of occupation earning between 31% and 60% AMI by land use multiplied by total households generated by land use.

Table 58 Estimated Households Earning Between 61% and 80% AMI Additional Non-Residential Land Uses Seattle Affordable Housing Nexus and Economic Impact Study

% of

	Employees												
	Earning 61%	Grocery Store			Restaurant		inment	Stand-Alone Retail		R&D Laboratory		Medical Office	
Steps	to 80% AMI	Percent (1)	No. (2)	Percent (1)	No. (2)	Percent (1)	No. (2)	Percent (1)	No. (2)	Percent (1)	No. (2)	Percent (1)	No. (2)
6. Households Earning Between 61% AMI and 80% AMI													
Management	10%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	1%	0.8	1%	0.2
Business and Financial Operations	20%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	2%	1.8	2%	0.5
Computer and Mathematical	10%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.3	0%	0.1
Architecture and Engineering	15%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	1%	0.7	1%	0.2
Life, Physical and Social Science	25%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Community and Social Services	30%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Legal	15%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	1%	0.5	1%	0.1
Education, Training, and Library	20%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Arts, Design, Entertainment, Sports and Media	25%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Healthcare Practitioners and Technical	15%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	1%	1.2	1%	0.3
Healthcare Support	20%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	1%	0.8	1%	0.2
Protective Service	25%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Food Preparation and Serving-Related	0%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Building/Grounds Cleaning and Maintenance	15%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Personal Care and Service	10%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Sales and Related	15%	4%	0.4	4%	0.0	4%	0.1	4%	0.2	1%	0.9	1%	0.2
Office and Administrative Support	30%	3%	0.2	3%	0.0	3%	0.1	3%	0.1	11%	10.2	11%	2.7
Farming, Fishing and Forestry	10%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Construction and Extraction	20%	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Installation, Maintenance and Repair	25%	1%	0.1	1%	0.0	1%	0.0	1%	0.1	1%	0.9	1%	0.2
Production	65%	2%	0.2	2%	0.0	2%	0.1	2%	0.1	0%	0.0	0%	0.0
Transportation and Material Moving	15%	1%	0.1	1%	0.0	1%	0.0	1%	0.0	0%	0.0	0%	0.0
Total		11%	1.1	11%	0.1	11%	0.3	11%	0.5	20%	18.0	20%	4.7

<sup>(1)</sup> Percent distribution of households by occupation by land use multiplied by estimated percent of occupation earning between 61% and 80% AMI. (2) Percent of occupation earning between 61% and 80% AMI by land use multiplied by total households generated by land use.