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Office of the Controller - Office of Econole Analysis

Hunters Point Shipyard Phase 2/Candlestick Point: Economic Impact Report

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July 12, 2010





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Main Conclusions

The proposed redevelopment of Phase 2 of the Hunters Point Shipyard and Candlestick Point (the "Project") will transform more than 700 acres of mostly vacant, underutilized land in southeast San Francisco into productive areas designed to accommodate significant new employment, housing, parks and open space. The Project will provide a mix of land uses, including market-rate and affordable homes, regional and neighborhood retail, research and development (R&D) and office space, a hotel, a performance arena, community services, and a waterfront park system. In addition, the southern portion of the Shipyard may be developed as a new football stadium for the San Francisco 49ers, or as additional R&D/office space, if the 49ers do not locate within the Project.

The development of the Project will create thousands of construction jobs, and inject an estimated \$4.3 billion into the City's economy during its projected 20+year build-out. The development of either Project alternative will result in significant employment opportunities, with an average of about 2,100 direct and indirect jobs per year during build-out, with about 1,450 of these jobs representing direct employment in the construction trades, equivalent to about 6% of citywide construction jobs projected during the same period.

The Project will create the opportunity for significant job growth from businesses occupying the completed non-residential buildings, with an estimated 11,300 direct employees projected under the Stadium alternative and about 12,200 workers in the Non-Stadium alternative at build-out. A wide range of employment opportunities will be created in either Project alternative in numerous industries and occupations, from entry-level to advanced, with annual average pay ranging from \$25,000 to \$185,000 per year, and aggregate wages of more than \$1 billion per year in either alternative upon full build-out. Of particular note is the fact that nearly half of the direct jobs are in occupations that pay less than the City's current average salary of about \$74,000 per year.

An additional 13,000 indirect and induced jobs are estimated at build-out, that together with direct employment attributed to Project, will contribute about \$6.4 to \$6.6 billion annually to San Francisco's gross city product (a measure of total spending on goods and services produced in San Francisco), in the Stadium and Non-Stadium alternatives, respectively. This represents an expansion of about 1.7% to the City's existing gross product during the projection period.

The impact of new development will not be limited to the economic activity generated by its construction and permanent employment; ultimately, 10,500 new households will make approximately \$287 million per year in retail purchases, supporting businesses in San Francisco and the region, further stimulating the economy.

Build-out of the Project will also increase the City's property tax base by approximately \$11 billion, as buildings are constructed and sold or rented. Much of the property tax increment generated by the Project will be reinvested in the Project, primarily to help pay for community benefits. However, per California Redevelopment Law, a portion of tax increment generated by the Project is "passed-through" to existing taxing entities, including the General Fund, which is anticipated to receive an average of \$4.8 million per year (in 2010 dollars) during the 45-year life of the Redevelopment Areas.

Highlights

- The redevelopment of Phase 2 of the Hunters Point Shipyard and Candlestick Point (the "Project") will transform more than 700 acres of mostly vacant, underutilized land in southeast San Francisco into productive areas designed to accommodate significant new employment, housing, parks and open space.
- The Project will provide a mix of land uses, including 10,500 housing units, over 3,340 of which will be available at below market rates, retail, research and development (R&D) and office space, hotel, performance arena, and an expansive waterfront park system. In addition, the southern portion of the Shipyard may be developed as a new football stadium for the San Francisco 49ers, or as additional R&D/office space, if the 49ers do not locate within the Project.
- The OEA has reviewed the market assumptions in the horizontal pro forma and determined that the rental rates, construction costs, and sales values are reasonable and consistent with the range of market value and cost data indicators maintained by the OEA for the mix of uses proposed
- Construction activity will contribute more than \$200 million per year, and about \$4.3 billion cumulatively at full build-out, to San Francisco's Gross City Product, defined as total spending on goods and services produced in San Francisco.
- The Project will create an estimated 11,000 to 12,000 direct permanent employment opportunities in numerous industries and occupations, from entrylevel to advanced, with a wide range of annual salaries. Of particular note is that nearly half of the jobs are in occupations at, or below, the City's current average salary of about \$74,000 per year.

- The direct permanent employees are estimated to earn an aggregate salary of more than \$1 billion a year upon full build-out.
- An additional 13,000 indirect and induced jobs are projected to be generated by the Project. On average, direct and indirect employment generated by Project will contribute to an expansion of about 1.5% to the City's employment base during the projection period.
- Direct and indirect permanent employment will contribute about \$6.4 to \$6.6 billion annually to San Francisco's Gross City Product at build-out, an average expansion of about 1.7% during the projection period.
- The development of 10,500 housing units will expand the City's existing housing inventory by about 3% and add approximately 24,500 residents to San Francisco. At build-out, household spending on retail purchases are estimated at \$287 million per year, supporting businesses in San Francisco and the region.
- During the 45-year life of the Redevelopment Areas, the City's General Fund is anticipated to receive about \$4.8 million per year from the Project.
- Overall, either the Stadium or Non-Stadium Alternatives of the proposed Project will generate significant onetime and on-going economic impacts to the City.

ECONOMIC SCORECARD: PROPOSED PROJECT AT BUILD-OUT

The table below indicates the anticipated future change in San Francisco's economy resulting from development of the Project in either alternative.

It should be remembered that Project build-out will take about two decades, and that the area will accommodate a significant amount of development under the proposed Project, compared to current conditions.

	Highly Negative Impact	Moderately Negative Impact	Neutral Impact	Moderately Positive Impact	Highly Positive Impact
	(5% +)	(01% to5%)	(-0.1% to 0.1%)	(.1% to .5%)	(,5% +)
Construction Employment					
Permanent Employment					
San Francisco Gross City Product					
Housing Supply					

INTRODUCTION

Summary of Proposed Legislation

The main impact of the proposed legislation is the creation of regulatory conditions that will allow for significant new development in southeast San Francisco

Redevelopment of Hunters Point Shipyard (Phase 2) and Candlestick Point The proposed legislation amends the General Plan, Zoning Map, and Zoning Plan to establish the Candlestick Point Activity Node Special Use District and the Hunters Point Shipyard Phase 2 Special Use District.

The legislation, along with numerous other implementing agreements and documents¹, will enable significant new development in the southeast section of San Francisco through the redevelopment of Phase 2 of the Hunters Point Shipyard and Candlestick Point (the "Project") 2. Once all of the necessary approvals are obtained, the Project will be developed according to the adopted Hunters Point Shipyard and Bayview Hunters Point Redevelopment Plans, and their guiding documents, chief among them the Design for Development. and the Disposition and Development Agreement between the Redevelopment Agency and the Project's master developer, discussed below.

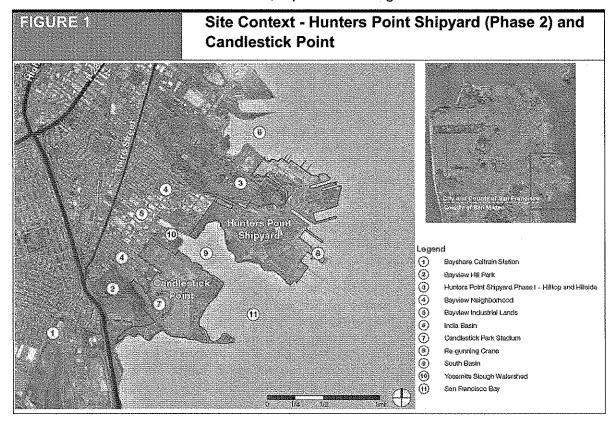
The proposed Project will transform more than 700 acres of mostly vacant, underutilized land in southeast San Francisco into productive areas designed to accommodate significant new employment, housing, parks and open space. The Project will integrate with the existing Bayview / Hunters Point neighborhood, creating a major new mixed-use, transit-oriented district in southeast San Francisco.

The Project will provide a mix of land uses, including market-rate and affordable homes, regional and neighborhood retail, research and development (R&D) and office space, a hotel, a performance arena, community services, and an expansive waterfront park system that extends along the entire shoreline of Candlestick Point and the Hunters Point Shipyard ("Shipyard"). In addition, the southern portion of the Shipyard may be developed as a new football stadium for the San Francisco 49ers, or as additional R&D/office space, if the 49ers do not locate within the Project.

¹ In addition to the proposed amendments to the General Plan, Zoning Map and Zoning Code, there are numerous other regulatory approvals from various agencies required for redevelopment of the Project. For a full list of Project approvals and documents, see Exhibit G of the Executive Summary referenced in footnote 5.

² The Project, as defined in detail later, is consistent with the Conceptual Framework for integrated development endorsed by the Board of Supervisors and Mayor in May 2007 and approved by San Francisco voters in June 2008 through passage of Proposition G.

A site context map of the proposed Project, showing key landmarks, is presented in Figure 1³.



Because of the uncertainty of the 49ers stadium preference at this time, planning for the Project has included two alternatives: the Stadium Alternative, and the Non-Stadium Alternative, which expands commercial uses on portions of the Shipyard site currently reserved for the stadium and related uses⁴.

Numerous documents have been generated regarding the Project, covering a range of topics, from environmental remediation on the former Navy Shipyard to an executive summary of the proposed Project, highlighting key elements of the public-private partnership, including details of community benefits, the deal structure between the City/Agency and master developer, related Project documents, and other information relating to the proposed project. These and other relevant documents can be found on the Office of Economic and Workforce Development's website: http://www.oewd.org/Development Projects-Candlestick Park Hunters Point Shipyard.aspx. Rather than repeating their content here, the OEA refers readers to this site for detailed information on the background and history of the Project.

⁴ Even though the 49ers were successful in obtaining voter approval for a stadium plan in Santa Clara, uncertainty regarding the financial feasibility of a new stadium in that city remains. As such, it will likely take a number of years before the final stadium location is determined. The Project includes a location for the stadium on the Shipyard site; if certain conditions, including binding commitments from the 49ers to construct a new stadium in San Francisco, are not satisfied by 2014, the non-stadium alternative will prevail. The OEA analyzed the economic impacts of both alternatives, summarized in Table 1.

The Project will be developed through a public-private partnership between the City, through its Redevelopment Agency, and the master developer, led by Lennar. Briefly, the master developer is contributing private capital and its development expertise to construct the infrastructure (roads, parks, utilities, transit, public benefits, etc.) necessary to support the Project. The City's contribution to the partnership is primarily in the form of land from the Shipyard site and a commitment to reinvest a portion of the property tax increment generated by the Project to help fund the significant development costs, including community benefits⁵.

The terms of this partnership are governed by a legally binding Disposition and Development Agreement ("DDA") between the parties, which details obligations such as: the community benefits package and its timing, the financing plan, revenue sharing, and a timeline for development of the horizontal infrastructure, including penalties if this Schedule of Performance is not met.

Included in the DDA is a development pro forma (prepared jointly by the master developer and City), which provides detailed estimates of infrastructure costs, as well as anticipated revenue from the sale of finished land to vertical developers. These revenue and costs figures are projected over time, consistent with the Schedule of Performance, to test the financial feasibility of the Project (considering all infrastructure development costs, community benefit obligations, affordable housing program costs, etc. against anticipated revenue from finished land sales).

The pro forma was developed through an iterative process in which various land use mixes, public benefits, and market assumptions were tested, and refined over time, taking into account input from the community, while still maintaining a financially viable project.

The land use mix and development program which emerged from this process is the basis for the Project alternatives analyzed in this report, and is consistent with the DDA, other implementing documents, and the amendments contemplated by the proposed legislation. Further, the OEA has reviewed the market assumptions in the horizontal pro forma and

⁵Through a community planning process and negotiations between the City and master developer, a public benefits package emerged which includes more than 330 acres of parks, 3,345 affordable housing units (nearly 32% of all units), transportation improvements, small and local business assistance, community facilities, and redeveloped space for existing Shipyard artists. For a detailed summary of public benefits generated by the proposed of the Executive Summary Project see page б of the http://www.oewd.org/media/docs/Draft%20Hunters%20Point%20Shipyard%20Phase%202-Candlestick%20Point%20Executive%20Sumamry%20wlth%20Attachments%202.2.10.pdf

determined that the rental rates, construction costs, and sales values are within the range of market value and cost data indicators maintained by the OEA.

Land Use, Population and Employment Assumptions

10,500 housing units will increase the City's existing housing inventory by more than 3%

Table 1 summarizes the development program, population, and employment assumptions under both the Stadium and Non-Stadium alternatives upon full build-out of the Project, as discussed in the previous section. Appendices 1 and 2 detail the phasing assumptions of vertical construction and associated population and employment growth for both alternatives over time.

Both alternatives provide for the same amount of housing, retail, hotel, arena, and marina uses. The Stadium alternative has about 2,000 more parking spaces to accommodate additional parking demand from the 69,000-seat stadium. The Non-Stadium alternative requires fewer parking spaces, and can accommodate about 500,000 square feet of additional job-generating R&D/Office space, resulting in slightly more and varied employment in this alternative.

The development program and employment assumptions summarized in Table 1 are the basis for the economic impact analysis in the following section of the report⁶.

⁶ Although the Project is anticipated to be developed as described, because of the multiyear build-out of the Project, circumstances affecting such development may change over time, potentially affecting the timing of development and/or the development program. The DDA includes provisions, such as a Schedule of Performance to help ensure that development is timely. However, if market conditions deteriorate, for example, the DDA allows for a delay in the horizontal development (of up to 6 years cumulatively). In addition, the DDA includes a provision to refine select terms of the agreement (such as the land use mix) if the Developer can demonstrate why development is infeasible without the proposed changes, and the City/Agency agree. See Section 3.6 of the DDA for additional information. If a land use change were to be requested, the amendments would be reviewed by the OEA, and the economic impacts analyzed.

TABLE

Hunters Point Shipyard Phase 2/Candlestick Point-Development Program, Population and Direct Employment Assumptions (at Build-out) (1)

	Stadium Al	ternative	Non-Stadium	Alternative
	Development	Population/	Development	Population/
Residential	Program (2)	Jobs(3)	Program (2)	Jobs(3)
Housing (all types) (units)	10,500	24,465	10,500	24,465
Affordable Housing (% of total units) 31.9%	3,345		3,345	
Residential Property Management (jobs)		420		420
Non-Residential				
Neighborhood Retail (gross sq.ft.)	232,500	861	232,500	861
Regional Retail (gross sq.ft.)	635,000	1,814	635,000	1,814
Office (gross sq.ft.)	1,318,000	4,692	1,287,500	4,602
R&D (gross sq.ft.)	1,082,000	2,762	1,630,500	4,120
Hotel (220 rooms) (gross sq.ft.)	150,000	214	150,000	214
49er Stadium (seats)	69,000	359		***
Arena (seats)	10,000	87	10,000	87
Parks and Open Space (acres)	336	87	327	85
Marina (boat slips)	300	5	300	5
Parking (spaces - structured)	8,500	31_	6,439	24
Total Direct Employment		11,334		12,232

Sources and Notes:

- (1) Appendices 1 and 2 detail vertical development phasing and the resulting population and employment generation on a multiyear basis during the 20+ year projection period for the Stadium and Non-Stadium alternatives, respectively.
- (2) Development program is based on Version 27 Base Stadium and Non Stadium Alternative Pro Formas, May 2010, consistent with the Disposition and Development Agreement (DDA) between the City/Agency and Master Developer, and the Zoning Map and code amendments contemplated by the proposed legislation.
- (3) Based on density assumptions in Draft Environmental Impact Report, November 2009 (EIR), pg. III.C-12. Population based on 2.33 people per household. Employment based on the following densities: residential property management = 25 units per job; neighborhood retail = 270 gross sq.ft. per job; regional retail = 350 gross sq.ft. per employee; office = 270 gross sq.ft. per employee; R&D = 400 gross sq.ft. per employee; Hotel = 700 gross sq.ft. per employee (about 1 employee/room); Parks and Open Space = 0.26 jobs per acre; Marina = 5 full time equivalent employees; structured parking = 270 spaces per job. Stadium based on 12 football games and 20 other events per year and 2,915 8-hour shifts per event, or 746,000 total hours annually; Arena employment based on 150 events per year and 300 4-hour shifts per event, or 180,000 total hours annually. Dividing stadium and arena annual hours by 2,080 hours provides an estimate of full time equivalent annual employment.

ECONOMIC IMPACT FACTORS

Introduction

The Project has the potential to produce significant economic impacts on the entire City of San Francisco in general, and to the southeast part of the city in particular. The legislation will allow a major new mixed-use development, increasing the capacity of the City to accommodate employment growth in a variety of sectors and occupations, as well as increasing the City's housing supply and residential population.

The economic impacts can be distinguished as follows:

- One-time impacts associated with construction spending (on infrastructure and buildings), as measured by increases in employment and spending during the 20+ year build-out period;
- On-going impacts resulting from employment in the new commercial buildings, including an estimate of the distribution of employment and wages by industry and occupation, and an estimate of the impact of this employment on total spending in San Francisco;
- On-going impacts resulting from new resident spending captured by San Francisco businesses;
- On-going direct impacts from attendees at stadium events; and,
- A brief analysis of the impact of new development on the City's property tax base⁷.

⁷ Seifel Consulting, provided an estimate of property tax increment generated by the combined Project in its February 2010 "Bayview Hunters Point Redevelopment Plan Amendment - Preliminary Report" and "Hunters Point Shipyard Redevelopment Plan Amendment - Preliminary Report," prepared for the San Francisco Redevelopment Agency. The Seifel report estimated property taxes accruing to various taxing entities, including the 20% set-aside for housing, pass-through payments for the General Fund and other funds, and revenues flowing to other Redevelopment programs. Because the deal is structured so that all but the pass-through payments are reinvested in the Project, only this figure is reported.

One-Time Construction Impacts

The development of the Project will create thousands of construction jobs, and inject billions of dollars into the City's economy during its anticipated 20+year build-out.

Development costs for the Project are comprised of two components: horizontal infrastructure costs needed to support the proposed development (roads, utilities, transit, parks, etc.), and the cost to construct the vertical buildings (residential units, commercial space, etc.). Cost estimates for both alternatives are summarized in Table 2 below. A multi-year, dynamic cost estimate summarizing annual costs during the construction period is presented in Appendix 3 for both alternatives.

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Hunters Point Shipyard Phase 2/Candlestick Point-Vertical and Horizontal Development Cost Assumptions (at Build-out)

	Stac	ium Alter	native	Non - S	itadium A	Iternative
Vertical Costs	Per Unit Cost (1)	Units/GSF	Total Cost (millions)	Per Unit Cost (1)	Units/GSF	Total Cos (millions)
Residential	458,974	10,500	\$4,819	445,151	10,500	\$4,674
Neighborhood Retail	\$227	232,500	\$53	\$227	232,500	\$53
Regional Retail	\$228	635,000	\$145	\$228	635,000	\$145
Office	\$279	1,318,000	\$371	\$279	1,287,500	\$362
R&D	\$341	1,082,000	\$365	\$328	1,630,500	\$533
Hotel	139,284	220	\$31	139,284	220	\$31
Arena	\$1,101	75,000	\$83	\$1,101	75,000	\$83
Parking	\$22,000	8,500	\$187	\$22,000	6,439	\$142
49er Stadium	NA		\$900	NA		\$0
Marina	\$12,333	300	\$4	\$12,333	300	. \$4
Sub-total			\$6,957	•		\$6,025
Horizontal Costs (1)(2) Direct (hard) Costs			\$1,553			\$1,804
Indirect (soft) Costs			\$311			\$328
Sub-total			\$1,864			\$2,131
Total Construction Co	osts (3)		\$8,821			\$8,157

Sources and Notes:

- (1) Average construction cost per unit, gross square foot, room, or space. Excludes land and developer profit. Construction costs are based on development assumptions in May 2010 pro forma (V27), the basis for the Disposition and Development Agreement (DDA) between the City/Agency and Master Developer. Vertical building costs are based on residual land pro formas, by unit type, land use, and location within the Project. These residual analyses are the basis for the finished land values in the horizontal pro forma, taking into account market conditions (for finished building value), and the cost to build the structures. The OEA has reviewed the pro formas and their assumptions and found them to be reasonable.
- (2) Excludes land acquisition cost, financing proceeds, and parking and stadium costs (which are included in the vertical costs). Includes cost for community facilities and artist space.
- (3) In 2010 \$s. See Appendix 3 for a summary of development costs for both alternatives during the 20+ year projection period, consistent with the phasing assumptions in Appendices 1 and 2.

Construction of the Project will generate an annual average of approximately 1,500 direct construction jobs, representing a significant share of citywide construction employment projected during the 20+year build-out.

The impact of the direct construction spending can be modeled using the OEA's econometric model of the San Francisco economy, prepared by Regional Economic Modeling Inc. (REMI).

The REMI model projects two key economic indicators that help explain the impact of constructing the Project: employment and *Gross City Product* (GCP)—an equivalent to Gross National Product (GNP) for San Francisco—which equals the total spending on goods and services produced in San Francisco⁸.

TABLE 3	Hunters Point Shipyard Phase 2/Candlestick Point-
	Construction Period Economic Impacts

	Stadium Al	Iternative	Non - Stadium	Alternative
Summary Output (1)	Total During Buildout	Annual Average (2)	Total During Buildout	Annual Average (2)
Direct Construction Jobs Indirect/Induced Jobs	32,412 14,910	1,473 678	29,845 13,729	1,421 654
Total Employment	47,322	2,151	43,574	2,075
Gross City Product (2010\$) (3)	\$4,462,199,000	\$202,827,000	\$4,251,958,000	\$202,474,000

Sources and Notes:

- (1) San Francisco employment impacts associated with new construction per Regional Economic Modeling Inc. (REMI) run, 6/10/2010, based on development cost in Table 2 and phasing in Appendix 3. Direct construction employment was estimated based on construction multiplier of 1.46 (construction jobs x 1.46 = total jobs), based on previous construction multiplier analyses conducted by the OEA. Total development costs from Appendix 3 are the input source for the REMI model.
- (2) Total during build-out divided by construction period (22 years in Stadium and 21 years in Non-Stadium).
- (3) REMI output inflated to 2010\$s per Consumer Price Index (CPI) increase for the San Francisco MSA, per the US Department of Labor, Bureau of Labor Statistics (BLS).

Table 3 summarizes total employment, direct construction jobs, and spending (GCP) generated by the development of the Project, annually and during the 20+ year build-out.

⁸ The REMI Policy Insight model is based on a multi-year baseline projection of San Francisco's economy. The model contains a number of policy variables, including construction spending, new employment by industry, and others, which can be modified to reflect changes resulting from proposed legislation, in this case the proposed Project. OEA economists assess the economic impact by re-running the projection under alternative scenarios (in this case, new construction spending and new employment and population in the different alternatives), and comparing the results with the baseline projection.

An additional 650 indirect jobs per year are projected during the 20+ year build-out.

Construction of either alternative will contribute more than \$200 million per year, and about \$4.3 billion during the 20+year build-out, to San Francisco's gross city product.

As indicated, the development of either Project alternative will result in significant employment opportunities, with an average of about 2,100 direct and indirect jobs per year during build-out⁹. Direct employment in the construction trades is estimated to average about 1,450 jobs per year, providing significant employment opportunities in this sector¹⁰. In addition, construction activity will contribute an average of more than \$200 million per year to San Francisco's gross city product, and about \$4.3 to \$4.5 billion during the 20+ year build-out period, as shown in Table 3.

⁹ The REMI Policy Insight model captures not only direct construction jobs, but also the secondary intermediate and induced jobs. Intermediate jobs are created from the manufacturing of materials required for construction. Induced jobs are a result of new employees re-spending their wages.

¹⁰ The annual average construction employment from the Project represents nearly 6% of the 25,300 citywide construction jobs projected annually during build-out, per REMI projections.

On-Going Impacts: Permanent Employment

The 11,000 to 12,000 permanent employees are estimated to earn an aggregate salary of more than \$1 billion a year upon full build-out and absorption.

The Project will create a wide range of employment opportunities in numerous industries and occupations; the direct, induced and indirect employment attributed to the Project is anticipated to expand the City's employment base by an average of about 1.5% during the projection period.

The Project will create the opportunity for significant job growth from businesses occupying the completed non-residential buildings. Table 1 presented an estimate of employment by general land use category, based on typical employment density assumptions and the land use mix of each alternative. As indicated, an estimated 11,300 direct employees are projected under the Stadium alternative, while the Non-Stadium alternative is projected to employ about 12,200 workers at build-out¹¹.

To estimate the distribution of these workers by industry and occupation, including average wages, the OEA first selected the industries likely to occupy each type of space. The first column in the top section of Table 4 includes the industry employment assumptions for each land use category. For example the Retail land use category is assumed to be occupied by those in the retail trade (NAICS code 44-45). The next columns show the distribution of jobs among these industries, as well as average annual wages for these industries in San Francisco, per the U.S. Bureau of Labor Statistics. As indicated, the Non-Stadium alternative has a slightly higher average annual wage of \$95,000 (2010\\$s), compared with \\$92,000 in the Stadium alternative, primarily due to the inclusion of additional space devoted to office/R&D in the Non-Stadium alternative and the higher relative wages from this sector.

The bottom half of Table 4 summarizes employment by occupation for all of the industries in each alternative, based on the state Employment Development Department (EDD) occupational staffing patterns by industry. This database analyzes the specific types of occupations that different industries create as they grow. The OEA created a profile of each industry sector noted above, and then analyzed these occupational staffing patterns to illustrate the types of jobs created by the expansion of each sector of the economy. These sector-wide staffing patterns are shown on the bottom of Table 4, sorted by annual average salary.

¹¹ In addition to the direct employment, an additional 13,000 induced and indirect permanent jobs are estimated, per REMI. During the projection period, the average increase in direct, induced, and indirect employment attributed to the Project was calculated and compared to the average employment projected by REMI for San Francisco as a whole. On average, total Project employment will contribute to an expansion of about 1.5% to the City's employment base during the projection period.

TABLE 4

Hunters Point Shipyard Phase 2/Candlestick Point-Summary of Direct Employment Distribution by Land Use, Industry and Occupation

Land Use	<u>, indu</u>	stry an	a Occup			
	Sta	dium Alter	native	Non-S	itadium Al	ernative
			Average			Average
	% of Total		Annual Wage	% of Total		Annual Wage
I. Employment by Land Use and Industry	Jobs	# of Jobs	(SF)(4)	Jobs	# of Jobs	(SF)(4)
Retail (NAICS 44-45; retail trade)	24%	2,675	\$40,992	22%	2,675	\$40,992
Office (NAICS 51,52,54; info, finance/insurance, prof.& bus.services)	41%	4,692	\$124,881	38%		\$124,875
R&D (NAICS 5417; Scientific Research and Development Services)	24%	2,762	\$102,995	34%	4,120	\$102,995
Hotel (NAICS 721; Accommodation)	2%	214	\$40,145	2%	214	\$40,145
Arena (NAICS 7113 Promoters of Performing Arts and Sports)	1%	87	\$33,176	1%		\$33,176
Parking (NAICS 8129; Parking Lot Attendants)	0%	31	\$28,313	0%	24	\$28,313
Stadium (NAICS 7113 Promoters of Performing Arts and Sports)	3%	359	\$33,176	0%		\$0
Parks/Open Space (NAICS 712; Museums, Parks and Historical Siles)	1%	87	\$36,238	1%	85	\$36,238
Marina (NAICS 7139; Other Amusement and Recreation)	0%	5	\$26,154	0%		\$26,154
Residential (NAICS 53; Real Estate Rental and Leasing)	4%	420	\$81,500	3%	420	\$81,500
TOTAL Employment by Industry/Average Wage	100%	11,334	\$91,950	100%	12,232	\$94,709
	% of		Average	% of		Average
	Industry	# of Industry	Annual Wage	Industry	# of Industry	Annual Wage
II. Employment by Occupation (1)	Jobs (2)	Jobs (3)	(SF)(4)	Jobs (2)	Jobs (3)	(SF)(4)
Personal Care and Service	2%	195	\$24,484	1%	97	\$28,401
Food Preparation and Serving Related	2%	226	\$30,466	2%	201	\$32,013
Transportation and Material Moving	2%	231	\$34,673	2%	215	\$35,694
Building and Grounds Cleaning and Maintenance	2%	210	\$34,933	2%	. 196	\$36,710
Healthcare Support	0%	18	\$42,070	0%	22	\$42,145
Protective Service	1%	62	\$44,700	2%	227	\$46,307
Production Occupations	2%	201	\$45,806	0%	46	\$56,752
Office and Administrative Support	17%	1,895	\$60,465	16%	1,954	\$60,848
Installation, Maintenance, and Repair	3%	301	\$62,018	2%	300	\$63,360
Sales and Related Occupations	19%	2,199	\$63,501	18%	2,185	\$64,063
Construction and Extraction	0%	46	\$78,127	0%	52	\$80,152
Healthcare Practitioners and Technical	1%	102	\$79,010	1%	116	\$78,832
Arts, Design, Entertainment, Sports, and Media	5%	569	\$84,249	4%	520	\$87,964
Life, Physical, and Social Science	10%	1,126	\$92,353	13%	1,599	\$91,916
Architecture and Engineering	4%	485	\$94,126	5%	641	\$93,904
Education, Training, and Library	0%	25	\$105,221	0%	29	\$116,177
Computer and Mathematical Occupations	9%		\$119,359	10%	1,191	\$117,652
Business and Financial Operations	9%	•	\$141,680	9%	•	\$138,141
Legal	2%		\$153,433	2%		\$155,012
Management Vanagement	10%		\$185,671	11%		
TOTAL Employment by Occupation	100%		\$91,950	100%		
Total Wages per Year (Billions \$) (at build-out)			\$1.0421			\$1.1584

Sources and Notes

- (1) This exhibit summarizes employment by occupation for ALL industries in both alternatives, based on each scenario's land use plan. The following NAICS codes were used to determine average wages in San Francisco: Retail (NAICS 44-45, Retail Trade); Office (NAICS 51, Information; NAICS 52, Finance and Insurance; and NAICS 54, Professional and Business Services); R&D (NAICS 5417, Scientific Research and Development); Hotel (NAICS 721, Accommodation); Parking (NAICS 8129, Parking Lot Attendants); Parks and Open Space (NAICS 712, Parks and Historical Sites); Marina (NAICS 7139, Other Amusement and Recreation); Property Management (NAICS 53 Real Estate Rental and Leasing); Stadium and Arena (NAICS 7112-13, Sports Teams and Promoters of Sports and Events). The clean-tech sector is emerging and comprises many industries; Moody's Economy.com is studying the potential for this sector in San Francisco. Although the report has not been released, a preliminary review of the occupational distribution of businesses in this sector is similar to the R&D industry, and is used as a proxy for purposes of this analysis.
- (2) Source: California Employment Development Department (EDD), Occupational Employment Survey (OES), San Francisco MSA, 1Q 2009. Figure represents summation of employment for all industries by occupation.
- (3) See Table 1 for total estimated employment generated by Project. Distribution by occupation based on "% of Industry Jobs" ratio applied to total estimated direct employment generated by the Project.
- (4) Source: US Bureau of Labor Statistics Quarterly Census of Employment and Wages (QCEW) for average San Francisco wage as of 2008, inflated to 2010\$s by CPI. San Francisco wage by occupation estimated based on MSAlevel wage distribution by occupation applied to average San Francisco industry wage. May not total due to rounding.
- (5) See Appendices 4 and 5 for estimated phasing of employment and wages for each alternative.

As shown, a wide range of employment opportunities will be created in either Project alternative in numerous industries and occupations, from entry-level to advanced, with annual average pay ranging from \$25,000 to \$185,000 per year, and aggregate wages of more than \$1 billion per year in either alternative upon build-out.

The following table summarizes the occupational employment distribution by wage quintile presented in Table 4. As indicated, employment by wage is fairly evenly distributed, providing jobs for a wide range of workers with varying skills and education levels. Of particular note is the fact that nearly half of the jobs are at, or below, the City's current average salary of about \$74,000 per year, in occupations that include: personal care, food preparation, transportation, building and grounds maintenance, office and administrative support, and sales occupations, among others (See Table 4).

	Sta	idium Alti	ernative	Non-S	Stadium /	Alternative
Income Range	% of Jobs	# of Jobs	Average Annual Wage	% of Jobs	# of Jobs	Average Annual Wage
\$0 - \$37,000	8%	862	\$31,328	6%	709	\$33,931
\$37,001 - \$74,000	41%	4,677	\$61,078	39%	4,734	\$61,668
\$74,001 - \$111,000	21%	2,354	\$90,032	24%	2,957	\$91,170
\$111,001 - \$148,000	18%	2,082	\$130,161	19%	2,264	\$127,367
\$148,001 - \$185,000	12%	1,358	\$181,476	13%	1,568	\$181,479
	100%	11,334	\$91,950	100%	12,232	\$94,709

Upon build-out, direct, indirect, and induced employment attributed to the Project will contribute \$6.4 to \$6.6 billion annually to San Francisco's Gross City Product, expanding the City's economy by about 1.7%.

The impact of the Project's permanent employment on San Francisco's GCP was estimated by inputting the direct permanent employment estimates, by industry (as summarized in Appendices 5 and 6), into the REMI model. REMI calculated the indirect and induced employment (summarized in Table 6; an additional 13,000 jobs) from the Project. Together, the total employment will contribute about \$6.6 billion annually to the City's GCP in the Non-Stadium Alternative, and about \$6.4 billion annually in the Stadium Alternative (2010\$s), upon build-out.

During the projection period, the average increase in GCP attributed to the Project was calculated and compared to the San Francisco's average baseline city product projected by REMI absent the Project. On average, the Project will contribute to an expansion of about 1.7% to the City's GCP during the projection period.

On-Going Impacts: Resident Spending

Aggregate household retail spending in both alternatives is estimated at \$287 million per year at build-out

The impact of new development will not be limited to the economic activity generated by its construction and permanent employment; ultimately, 10,500 new housing units will raise the city's population by approximately 24,500 people (about 3% of the existing population of about 800,000) (see Table 1).

The new household population at the Project will make retail purchases, supporting businesses in San Francisco and the region. Average retail spending per household was estimated at \$27,300 per year¹². Thus upon build-out, residents in both alternatives will spend an aggregate of \$286.6 million per year on retail purchases, further stimulating the economy.

On-Going Impacts: Stadium Spending

The impact of direct concession spending by attendees of Stadium events was also estimated. As discussed in Table 1, an estimated 12 football games (at 100% occupancy) and 20 other events (at 50% occupancy) are anticipated annually at the 69,000-seat stadium, based on information provided by the 49ers. This equates to about 1.5 million fans attending stadium events annually. Assuming concession spending of \$10 per attendee, annual spending of about \$15 million is indicated in the Stadium alternative¹³.

¹² Based on the weighted average household expenditures by affordability level in the following retail categories: Apparel, General Merchandise, Food Stores, Eating and Drinking Places, Home Furnishings and Appliances, Building Materials, Motor Vehicles and Parts, Service Stations, and other retail stores. Source: CBRE retail analysis: EIR Appendix U, Exhibit 29.Average household spending is multiplied by the cumulative completed housing units to derive total retail spending per year.

¹³ Other than direct employment and stadium spending, the OEA did not analyze other potential economic impacts associated with the Stadium Alternative, such as out-of-town visitor spending on non-stadium purchases or accommodations, or the impact of potentially hosting the Superbowl, for example. Per capita concessions sales estimates per 49ers.

Property Tax Increment to General Fund

During the 45-year life of the Redevelopment Areas, the City's General Fund is anticipated to receive about \$220 million on a present value basis from the Project, or an average of about \$4.8 million per year Build-out of the Project will also increase the City's property tax base, as buildings are constructed and sold or rented. Upon build-out, the Project will add more than \$11 billion in assessed value to the property tax rolls, generating significant property tax revenue¹⁴.

As previously mentioned, much of the property tax increment generated by the Project will be reinvested in the Project, primarily to help pay for the community benefit package. However, per California Redevelopment Law, a portion of tax increment generated in a Redevelopment Area is "passed-through" to existing taxing entities, including the school and community college districts, BART, and the City's General Fund. During the 45-year life of both Redevelopment Areas, approximately 21% of property tax increment generated by the Project will be passed through, with about 85% of this amount flowing to the General Fund.

During the 45-year projection period, the City's General Fund is anticipated to receive about \$220 million in current 2010 dollars, or an average of about \$4.8 million per year.

¹⁴ Source: Seifel Consulting Inc. "Bayview Hunters Point Redevelopment Plan Amendment - Preliminary Report" and "Hunters Point Shipyard Redevelopment Plan Amendment - Preliminary Report," prepared for the San Francisco Redevelopment Agency, February 2010, Tables F-3,b,c, and d, and Tables D-3b, c, and d. Excludes value of 1,649 property tax exempt affordable housing units (Agency and Alice Griffith housing).

Summary conclusions

Overall, either the Stadium or Non-Stadium Alternatives of the proposed Project will generate significant one-time and on-going economic impacts to the City. As indicated in Table 6, the Stadium Alternative, with its slightly higher construction costs, will generate marginally more employment during the build-out phase. In addition, this alternative includes additional impacts associated with spending at Stadium events. On the other hand, the Non-Stadium Alternative, which can accommodate additional buildings for employment generating uses, is anticipated to support about 900 more direct permanent jobs, generating about \$250 million more per year in gross city product, compared to the Stadium Alternative.

TABLE 6 Hunters Point Sh Economic Impac	• •	andlestick Point-
	Stadium	Non-Stadium
<u> </u>	Alternative	Alternative
One-Time Impacts		
Construction Period Impacts (1)		
Annual Average Employment	2,151	2,075
Annual Direct Construction Employment	1,473	1,421
Annual Gross City Product (2010\$s)	\$202,827,000	\$202,474,000
On-Going Impacts (at build-out) Permanent Employment (2)		
Direct Project Employment	11,334	12,232
Indirect and Induced Employment	12,738	13,438_
Total Employment	24,072	25,670
Average Annual Wage (2010\$s)	\$91,950	\$94,709
Direct Aggregate Wages per Year (2010\$s)	\$1,042,185,884	\$1,158,444,912
Annual Gross City Product (2010\$s)	\$6,376,026,000	\$6,632,137,000
Resident Spending (3)		
Aggregate Retail Spending per Year (2010\$s)	\$286,640,000	\$286,640,000
Stadium Spending (3)		
Concession Spending per Year (2010\$s)	\$15,180,000	\$0
Sources and Notes: (1) Annual averages during 20+ year build-out period. Employment	nt includes direct and indire	ct jobs. See Table 3.

See Tables 1, 4, and Appendices 4 and 5 for direct employment detail. Indirect and induced employment, and gross city product per 6.30.10 REMI run. See text for detail.

Controller's Office of Economic Analysis

APPENDIX 1: VERTICAL COMPLETION SCHEDULE AND POPULATION AND EMPLOYMENT ESTIMATES STADIUM ALTERNATIVE

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Controller's Office of Economic Analysis

APPENDIX 2: VERTICAL COMPLETION SCHEDULE AND POPULATION AND EMPLOYMENT ESTIMATES **NON-STADIUM ALTERNATIVE**

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Residential (housing units) Residential (all unit types)	Total 10,500 units		,	535	376	394	442	1,403	490	132	363	270	828	1,066	808	884	451	1,280	, 623	354
Non-Residential Retail													•		4					
Neighborhood Regional	220,875 NSF 603,250 NSF			. ,	1 1						23,750	, ,				34,042				
Sub-total	824,125				1		8,550 60	60,800 17	17,100 8	8,550 23	23,750	,	÷.	34,042 68	637,292	34,042	ŧ			
Commercial (R&D & Office) OFFICE					,	,		,			207,867 22	222,913 64	68,546 35	358,333	275,691			•	4	
R&D B&D/OFFICE (50% each)	1,459,200 NSF 179,550 NSF			1 1	. 11	179.550	٠.	79,800		131,160 148						550,050	4 4			
	2,772,100		,		- 178	179,550		3,800	ľ			380,000 116	116,850 61	610,850 36	ł	550,050	,	,	,	3
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Parking 49er STADIUM	0,439 spaces				ı	5		2	\$	8	2	3	3	}		5				
Parks and Open Space	327.0 acres		10	27	10	11	56	23 '	29 '	된 '	48	, ,	72 ,	92 ,	. '	, '	, '	φ.	, '	300
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B. Population and Employment Estimates (2)	timates (2)																			
Residential Population	Total															,				
Residential Population	24,465 people		1										- 1		ļ	2,060	1,051	2,982	1,452	825
Cumulative Residential Population	ŗ			1,247 2	2,123	3,041 4	4,071	7,340 8	8,481 8	8,789 9	9,635 10	10,264 12	12,195 1	14,679	16,096	18,155	19,206	22,189	23,640	24,465
Employment	Total																			
Neighborhood	361		1				33	237	29	33	26		;	133	133	133	1	,	•	
Regional	1,814			,			,	1		-	,		,	-	1,814			-	,	,
Sub-total	2,675		,	,	,		33	237	29	æ	93		-	133	1,947	133	-		,	
Cumulative Retail Employment			,		,		83	270	337	370	463	463	463	286	2,543	2,675	2,675	2,675	2,675	2,675
Commercial (R&D & Office) Office Employment	4,322				,				4		793	850	261	1,367	1,851		ł	,	,	•
R&D Employment B&DiOffice Employment	3,840		, ,			559		210	. ,	345	382	. 413	127	. 665	247	1,448		1 :		
Sub-total	8,722			,	,	559		210	,	345 1	1,178	1,264	389	2,031	1,298	1,448		-	,	
Cumulative Office/R&D Employment					,	559	559	769	769 1					5,976	7,274	8,722	8,722	8,722	8,722	8,722
Hotel	214		,	,		•		,	•	ŧ		,		,	214	,	,	,	,	•
Cumulative Hotel Employment			1	,			,			,	*				214	214	214	214	214	214
Arena Employment	87		,	,		1	,	1	**	•			87	•		•	,		,	*
Cumulative Arena Employment	Ŧ							+	ŗ			,	87	87	87	87	87	87	87	87
Parking	3					¢	c	*			·			c	7	,	,			,
Patking Employment	42	-				7 6		- 6) e.	- 4	7 65	7	- 00	10	22	24	24	24	24	24
Parks and Open Space						ı	ı)						: :				(
Parks and Open Space Employme	88		3	7	3	4	7	9	5	9	12		3	28	,	-	, 8	2 2	.	- 1
Cumulative Parks and Open Space Employment	Employment		ო	9	12	9	S	₹3	\$	94	75	76	8	ğ	3	3	3	8	8	8
<u>Marina</u> Marina Employment	S					,	٠	,		*	1	1		+	1		,	ŧ		5
Cumulative Marina Employment	1						-			,	'1					•	,		,	tO.
Residential Property Management	007		į	7	ñ	ŧ	\$	8	8	ĸ	55	4	88	43	24	35	8	20	25	<u> </u>
Cumulative Residential Employm	; 27			2 2	36	52	02	126	146	151	165	176	209	252	276	312	330	381	406	420
CIMIL ATIVE FUEL OVIGENT	12.232		3	ង	49	629									10,499	12,116	12,134	12,188	12,213	12,232

CUMULATIVE EMPLOYMENT 12,232 3 31 49 629 687 1,197 1,289 1,519 2,

(1) Nobe: Assumes 2 yeardeley from finished lot delivery for finished vertical development Source: DDA pro formas Version 27. Timing is consistent with DDA schedule of performance.

(2) Bassed on density assumptions in ER; see Table 1 in report for detail.

Controller's Office of Economic Analysis

APPENDIX 3: HORIZONTAL AND VERTICAL CONSTRUCTION COST SUMMARY - STADIUM AND NON-STADIUM ALTERNATIVES

Hunters Point Phase Z/Candlestick Point
TOTAL HORIZONTAL AND VERTICAL CONSTRUCTION COST SUMMARY (1)
Stadium and Non-Stadium Alternatives
June 2010

	2031			62,429,329	62,429,329		,		
	2030		193,902,108	238,511,675 6.	432,413,783 6,		53,061,687	87,758,178	140,819,865
	2029		46,209,089	264,385,427	310,594,516		146,446,348	238,947,002	385,393,351
	2028		38,472,185	- 1			97,781,973 146,446,348		558,099,923
	2027		57,729,052	470,049,550 434,394,190	207,409,918 527,778,603 472,868,375		68,345,276	367,542,567 406,500,096 460,317,950	474,845,372
	2026		41,975,778	165,434,139	207,409,918		75,933,239	367,542,557	463,475,806
	2025		41,406,830	287,582,084 165,434,139	328,988,914		128,584,847	645,989,530	377,578,282 631,764,763 912,859,385 858,285,424 774,574,377 463,475,806 474,845,372 558,089,823 385,383,351 140,819,885
	2024		52,808,252	577,224,665			163,309,102	695,076,322	858,385,424
	2023		56,087,034	507,350,880	563,437,914 630,032,907		109,461,612 278,077,195 373,645,547 163,309,102	539,204,838	912,850,385
	2022		54,606,797	576,927,569	526,657,576 631,534,365		278,077,195	268,116,670 323,687,568	601,764,763
	2021		63,375,181	463,282,395	526,657,576		109,461,612	268.116.670	377,578,282
	2020		138,621,103	186,076,342 135,350,381			105,506,265	199,631,233	305,137,498
	2019		270,537,447 138,621,103		456,613,789 273,971,484		55,719,143	444,067,432 156,358,926	222,088,069
	2018		143,205,201 198,097,103	764,978,919 780,215,057	908,184,120 978,312,161		66,612,038	444,067,432	510,679,470 222,088,069 305,137,498
	2017		143,205,201	764,978,919	908,184,120		52,483,353	430,378,712	482,872,065
	2016		96,005,084	522,365,418	618,371,502		49,147,465	216,760,457	265,907,923
	2015		81,821,562 102,788,757	115,946,684 198,067,799 206,409,273 522,365,418	309,198,030		63,651,294	201,372,398	265,023,692
	2014		81,821,562	198,067,799	279,889,351		59,637,977	115,843,777 197,880,242	257,518,219
	2013		50,811,668	115,946,684	166,758,353		49,801,311	115,843,777	165,645,088
	2012		18,615,758	,	18,615,758		17,218,442		17,218,442
	2011		34,662,718		34,862,718		34,667,646	•	34,667,646
	2010		82,167,981	٠	82,167,981		82,067,767	,	82,067,767
	Total		1,863,907,690 82,167,981 34,662,718 18,615,758 50,811,668	6,956,981,766	8,820,889,456 82,167,981 34,862,718 18,615,758 166,754,353 279,869,361 309,198,030	W[Horizontal 2,131,169,527 82,067,767 34,667,646 17,218,442 49,801,311 59,637,977	6 025 443,898	Total Cost 8,156,613,425 82,067,767 34,867,646 17,218,442 165,645,088 257,518,219 265,023,692 265,907,923
200	_	STADIUM	Honzontal	Vertical	Total Cost	NON-STADIUM	Horizontal	Vertical	Total Cost

Note:
(1) See Table 2 in the text for detailed assumptions and source notes. Cost phasing based on development program and fining in Appendices 1 and 2. The total cost for each alternative is the basis for the REMs model run to estimate construction period economic impacts.

APPENDIX 4: SUMMARY OF EMPLOYMENT AND WAGE ESTIMATES - STADIUM ALTERNATIVE

Land Use	Average Annual Wage	2014	2015	2016	2017	2018	2019	. 5020	2021	2022	2023	2024	2025	2026	2027	2028	5029	2030	2031	2032
Retail Annual Employment		,	1	1	·	37	274	æ	89	•	728	1,223	188	7.4	ŧ	•		,		
Cumulative Employment		4		,	ų	37	311	404	463	463	1,191	2,413	2,601	2,675	2,675	2,675	2,675	2,675	2,675	2,675
Aggregate Annual Wages	\$39,980					1480,741	2,438,222	E, HO, 074	16,509,259	18,509,259	47,605,576	96,487,655	103,994,531	106,962,385	16,962,365 1	106,962,365	106,962,365	106,962,365	106,962,365	106,962,365
Office Americal Employment		,	:		37	,			27.0	736	1 136	439	1268	471	1		,		•	•
Camalative Employment					370	370	370	370	642	1,378	2,514	2,953	4,221	4,692	4,692	4,692	4,692	4,692	4,692	4,692
Aggregate Annual Wages	\$121,797	-		,	45,043.278	45,043,218	i	45,043,218	78.194,085		306,55,413	359,628,448 5	5 H.092.274 S	57.1505,733 \$	57,1505,733 5	57,505,733 (57,505,733 (57.1505,733	ı	571505,733
R&D		,			370		210		157	425	456	140	732	272	1	,				
Cumulative Employment				, ,	370	370	280	580	737	1,162	1,618	1,758	2,490	2,762	2,762	2,762	2,762	2,762	2,762	2,762
Aggregate Annual Wages	\$100,452	1	,		37,49,408	1			74,034,848	1		1	250,133,469 2	277,480,816 2	277,480,816 2	277,480,815	277,480,878	277,480,815	277,480,818	277,480,818
Hotel											497	‡				,	ı		,	
Amual Employment			, ,				1 1	. ,	. ,		137	7. 7.	214	214	214	214	214	214	214	214
Aggregate Annual Wages	\$39,154			1			1				5,357,561	8,390,143	8,390,143	8,390,443	8,390,133	8,350,143	6,390,143	8,390,543	8,390.43	8,350,43
Arena																				
Annual Employment		•			,		,			,	,	87		•		•			. !	, ;
Cumulative Employment		-	٠		1		*	,		,	,	87	87	87	282	87	87	82	87	87
Aggregate Annual Wages	\$32,357			•			•		,	•		2,800,125	2,800,125	2,600,725	2,890,125	2,800,25	2,800,25	2,800,125	2,800,25	2,800,125
Parking						c	ç	•	•	c		ч	c	*	1				,	,
Annual Employment				1		-	ž t	- 5	- 5	4 t	- 6	, %	۷ %	~ \$**	. 2	. 5	ě	m	8	33
Acceptate Applied Mage	427.614		. .			2208	339.76	357.059	38035	429 908	621.51	771749	837.511	869.267	869,287	869,287	869.287	869,287	869,287	869,287
Aggregate Amusi magas Stadium		•	ı			}			}							•				
Annual Employment		٠	4			328					•	•		*	•		**	•	•	
Cumulative Employment		•	1	1	•	328	329	359	326	359	359	359	359	359	359	359	359	359	359	359
Aggregate Annual Wages	\$32,357		1	,	,	11608,696	11608,696	1668,696	1(608,696	1(608,696	11508,596	11608,696	11,608,596	1,608,695	11,608,696	1,608,896	1,508,696	11608,596	11608,696	14808,896
Parks and Open Space	٠	r	1	r	7	1	4	u	ď	\$		c.	Ş	,	,		^	1	•	•
Annual Employment		ን ሮ	~ Ç	o č	1,	7 7	9 9	s K	. 1	2 2	, g	, 12	} ·\$. se	\$2	88	2 28	87	78	87
Accredate Annual Wages	\$35,343	95.583	352,120	446,586	605,549	858,533	1064,220	1248,571	1448,467	1892,160	1892,180	2,001031	3,018,554	3,018,554	3,015,654	3,018,554	3,091,249	3,091249	3,091249	3,091249
Marina																				
Annual Employment				,	1	,		•				,	,	•					S	,
Cumulative Employment		•	,	,	,	7	1	,	٠	•	•		۱ ا	,					S	5
Aggregate Annual Wages	\$25,508	,	1	4	,	,	•	,	1			,	•	•	•		:	,	27.540	27,540
Residential Property Management	nent	1	22	15	16	\$	g	8	ø		4	1.	37	92	7	24	88	\$	83	Ξ
Cumulative Employment		•	23	98	52	70	126	941	3 5	\$ 5	195	202	244	279	286	307	365	380	409	420
Aggregate Annual Wages	\$79,487	The second secon	1701022	2,596,536	4,49,221	5,554,552	10,015,362	11573,307	2,260,075	5.250,075	5,534,939	15,434,732	9,334,828	22, 151437	22,74,205	24,396,50	29,031,832	30,214,598	32,548,337	33,384,540
TOTAL EMPLOYMENT Annual Employment		en e	29	\$5	760	421	558 1 788	118	504	1,175	2,504	1,986	2,257	854 11.185	7	21	60	15.289	34	11,334
Cumulative Employment Acorecate Wades (\$M)	\$89,679	0.1	2.1	3.3	86.9	101.7	138.8	144.2	196.4	329.2	551.3	674.7		1		1,007.0	1	ì	ı	1,016.2
() 1.50																				

Note: based on phasing and development program in Appendices 1 and 2. See Table 4 for detailed assumptions.

APPENDIX 5: SUMMARY OF EMPLOYMENT AND WAGE ESTIMATES - NON- STADIUM ALTERNATIVE

nployment e Employment c Employment the Employment	Land Use	Average Annual Wage	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	3029	2030	2031	2032
State Stat					-] g	237	. 29	33	93	######################################	***************************************	133	1,947	133			***************************************	,	,
Component Comp	Cumulative Employment						33	270	337	370	463	463	463	596	2,543	2,675	2,675	2,675	2,675	2,675	2,675
Employment Emp	Aggregate Annual Wages	\$39,980		ı	# A P P P P P P P P P P P P P P P P P P	, 1,	١.	ŀ		{			l		1	ļ.					106,962,365
Participation Participatio	Office		,	,	,	080	·				793	850	£	1.367	1.051		,		t	,	١
Page Armain Wages 912179	Cumulative Employment					280	280	280	280	280	1.072	1.923	2.184	3,551	4,602	4,602	4,602	4,602	4,602	4,602	4,602
A		\$121,791		,		1	1				3,604,141 23	ţ	35,385,676 4		1	ł	1	ı			560,487,031
	R&D																				
	Annual Employment		+		,	280		210	,	345	386	413	127	999	247	1,448		,			,
Regile Annuel Wages 5100,422 auakos anakas dutratri					ı	280	280	490	490	1	1,220	- 1			2,672	4,120		4,120	4,120	4,120	4,120
Part	Aggregate Annual Wages	\$100,452		•	٠										268,416,363 4	13,820,633 4		413,820,633	413,820,633	113,820,633	113,820,633
Employment Emp	Hotel													,	270	,	,		•	•	
Size Part	Annual Employment			•		٠	L	•		,					1 7						246
Employment S25.515 S25.516 S	Cumulative Employment			-	,	,	٠	,	,	,	٠		•	,	417	417	412	437	*157	*17	417
SECONOMINE SEC	Aggregate Annual Wages	\$39,154	٠	•		ı		•		ı	,		•	,	8,390,743	8,580,143	8,390,143	8,390,143	6,350,143	8,380,143	8,390,143
Include Employment S22,557 S. S. S. S. S. S. S. S	rena Annual Fmotovment		•	,	,	,	ı			,	ŀ	i.	87		,	t	١	,	•	•	,
932.357 1	Sumulative Employment		•	r		,	,			,	ı	ı	87	87	2/8	87	£8	87	83	87	87
Employment St. 544 S	Aggregate Annual Wages	\$32,357	,		1	,			-				2,800,125	2,800,125	2,800,125	2,800,125	2,800,125	2,800,125	2,800,125	2,800,125	2,800,125
Employment S7/614 S87.614 S8	arking																				
ligitive Employment \$27,514	Vnnual Employment	,		•		2	0	~	0	•	6	₹~		61	Ξ	7	E	•	٠.	•	•
gate Annual Wages \$27 (514) 4,2875 7,682 61,682 61,683 686,383 686,383 686,383 686,383 686,383 686,383 686,383 686,383 686,383 686,383 686,383 686,383 686,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383 688,383	Sumulative Employment	,	F	,	•	2	74	8	3	4	ထ	2	80	92	22	24	**	22	25	22	24
Employment 2,6 7 3 4 7 6 5 5 12 5 6 5 5 12 6 5 5 12 6 6 6 6 6 6 6 6 6	Aggregate Annual Wages	\$27,614	F	•	•	42,525	45,287	76,092		102,724	159,987	200,897	217,250	283,012	599,366	658,583	658,583	658,583	658,583	658,583	658,583
Employment 26 7 3 4 7 6 5 5 5 5 5 5 5 5 5	arks and Open Space																				
lative Employment 3 510.343	Annual Employment		2.6	7	eo	4	1	(C)	ĸ	ŝ	12	t	es	88		•	r	KI.	t .		F
gate Annual Wages \$35,343 91704 337,829 430,384 682,885 825,611 1,031,286 1,215,649 1,489,087 1,845,761 1,894,717 2,892,175 2,892,175 2,892,175 2,892,175 2,892,175 2,892,175 2,892,175 2,892,175 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,004,871 3,00	Sumulative Employment	. '	ဗ	10	12	16	83	28	34	40	52	62	95	8	83	8	83	85	88	88	88
Il Employment state Emp	Aggregate Annual Wages	\$35,343	91,704	337,829	430,384								1,954,611	2,932,175	2,932,175	2,932,175	2,932,175	3,004,871	3,004,871	3,004,871	3,004,871
\$25.508	arina Annual Employment			ı	ı			,	,		,	•			,	ı			. •	, ro	•
\$25.506	Sumulative Employment		,	٠	,					,					,				,	4Đ	vo
579,487	Agranate Applied Wages	\$25 50R	***************************************					,	,		,		***************************************	,	,	ı	,	,	1	127,540	127.540
\$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 \$7.0 <th< td=""><td>esidential Property Management</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	esidential Property Management			1																	
9mt	Annual Employment		,	21	15	16	55	56	20	ď	15	7	33	43	23	88	\$	5	52	14	
ges \$79,487	Cumulative Employment		,	21	38	52	20	126	146	151	165	176	209	252	276	312	330	381	406	420	420
3 28 18 581 58 510 92 350 1,300 1,276 512 2,237 3,496 1,618 18 53 25 19 12.23 3,496 1,618 18 53 25 19 3,23 3,496 1,618 12,134 12,188 12,134 12,138 12,232 10,003 0.1 2.0 3,3 66.9 69.9 105.2 109.6 146.2 2,86.8 432.8 483.0 725.9 967.2 1,120.8 1,122.4 1,128.4 1,128.4 1,129.6	Aggregate Annual Wages	\$79,487	•															30,278,188	32,259,004	33,384,540	33,384,540
M) \$0 0.1 2.0 3.3 66.9 69.9 105.2 109.6 146.2 286.8 432.8 483.0 725.9 967.2 1,120.8 1,125.3 1,126.4 1,128.4 1,129.6	OTAL EMPLOYMENT Annual Employment		ოო	88 55	18	581 629	58 687	510	92	390	1,300	1,276	512	2,237	3,496	1,618	18,134	53 12,188	25 12,213	19,12,232	- 12,232
	Aggregate Wages (\$M)	. 0\$	0.1	2.0	3.3	6.99	6.69	105.2	109.6	146.2	286.8	432.8	483.0	725.9	967.2	1,120.8	1,122.3	1,126.4	1,128.4	1,129.6	1,129.6

Note: based on phasing and development program in Appendices 1 and 2. See Table 4 for detailed assumptions.

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