DRAFT TECHNICAL MEMORANDUM

To:	City of Davis
From:	David Zehnder and Frankie Refuerzo
Subject:	Mace Ranch Innovation Center Land Economics Analysis; EPS #152006
Date:	April 6, 2016

The Economics of Land Use



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Introduction

This draft technical memorandum constitutes a financial analysis of the proposed Mace Ranch Innovation Center (MRIC). The purpose of the analysis is to provide a basic understanding of development economics, so that appropriate public policy regarding the funding of on- and off-site improvements may be better informed.

This draft technical memorandum provides information guiding future policy discussions regarding the funding of project infrastructure in the area controlled by the MRIC master developer (the Applicant). Issues of land economics may affect upcoming Development Agreement negotiations, specifically regarding approaches toward the funding of project backbone infrastructure. This draft technical memorandum discusses the relation between overall project values and supportable infrastructure costs and mechanisms that may be used to fund critical operations and development costs.

EPS worked with the Applicant to gain an improved understanding of project revenue and cost attributes, supplemented by in-house and other industry data sources. EPS has compared estimated costs and values of development to evaluate development feasibility in the context of a cost burden analysis and a discounted cash flow analysis. Appropriate sensitivity analysis is included to provide the reader with a clear understanding of how project results change based on alteration of key assumptions. By identifying and testing several key sensitivities, it is possible to illuminate key issues to inform policy decisions as Development Agreement, tax sharing, and other negotiations move forward.

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Executive Summary

MRIC is planned as a 229-acre project expected to house over 6,000 employees as it develops in coming decades. The Mace Triangle accounts for 16.6 acres of the project. For the purposes of this report, the Mace Triangle has been excluded in this analysis. The remaining 212 acres of land area, which will be referred to simply as MRIC in this report, would be developed by the MRIC Project Applicant (Applicant or MRIC Master Developer). The 212 acres includes 25-acres of city-owned land in the northwest corner of the site¹. Approximately 65 acres of the land controlled by the Master Developer is reserved for green space. Furthermore, approximately 13% percent of the remaining land will be devoted to infrastructure, leaving the Master Developer with approximately 129 acres of developable land accommodating approximately 2.7 million square feet of new construction. The project's land distribution is detailed in **Table 1** below.

Item	MRIC	Mace Triangle [1]	Combined Project
Total Land (acres)	212.40	16.60	229.00
Green Space (acres)	64.60		
Infrastructure (acres)	19.24		
Developable Land (acres)	128.56		
Total Building Square Footage	2,654,000	71,056	2,725,056

Table 1 City of Davis MRIC Land Economics Analysis MRIC Land Distribution Summary

Source: City of Davis; MRIC Project Applicant

Approach to Land Economics Analysis

For this analysis, it is assumed that the Project Applicant serves as a "master developer" of the MRIC project. As the Master Developer, the Applicant purchased the land, is expending predevelopment funds, and will be investing in backbone infrastructure to create buildable parcels that would be sold to third parties. The third parties who buy the land from the master developer are responsible for the vertical development of their respective parcels.²

This analysis uses a combination of three analytical frameworks:

1. **Static Residual Land Value Pro Forma Analysis**. For each major land use prototype EPS has calculated what a rational entity would be willing to pay the Master Developer (Applicant) for a buildable parcel served by backbone infrastructure, green space amenities, and other

¹ For the purposes of this analysis the 25 acres of city-owned land would be developed by the master developer.

² The Project Applicant may also play a role in vertical development, although specific approaches to land development and disposition have not been disclosed to EPS.

master developer improvements. These take the form of "static" analyses which deduct onsite costs from asset value to determine "residual land value" (RLV). These residual land values are supplemented by review of actual comparable land sales (CLS) to provide a range of plausible values for analysis.

- 2. Discounted Cash Flow (DCF) Analysis. The above-referenced land sales provide the revenue to the master development program. This revenue is estimated over a 25-year period and compared to the costs incurred in the process of creating buildable parcels. The estimated minimum internal rate of return (IRR) for a project with the size and complexity of MRIC is 12 percent.³ Overall revenues assume the use of a Community Facilities District to fund infrastructure, as well as other potential sources including the reimbursement of a portion of development impact fees to offset the developer's fronting of costs of backbone infrastructure. In addition, an EIFD is included to indicate the potential need for using property tax increment as a funding source for infrastructure.
- 3. Evaluate implications for public finance and public policy. Based on a range of "stresstest" scenarios evaluating key variables and modification of public finance mechanisms, project returns are analyzed.

Summary of Findings

1. The project's returns are very thin, and require favorable assumptions and inclusion of assertive public financing assumptions in order to approach minimum feasibility thresholds.

The MRIC has an expensive infrastructure improvement program with costs of approximately \$450,000 per developable acre or \$10.16 per net square foot of developable land, while incorporating higher than average levels of green space for this type of development. The project has a base case IRR just under 5 percent which relies on finished land sales averaging \$11.61 per square foot (SF) on average, accompanied by assertive CFD tax rates and development impact fee reimbursements. The use of an EIFD incorporating both City and County property tax increment would push the IRR up to 7.3 percent. For purely illustrative purposes (not an official scenario), the combined effect of using an EIFD mechanism and a substantial 20 percent reduction in backbone infrastructure costs produces an IRR of 11.7 percent, indicating that a combination of cost reductions and public finance strategies could push the project close to an acceptable minimum IRR threshold of 12 percent.

2. The overall efficiency of the plan should be improved by strategically improving the developable "yield."

As currently planned, a significant problem being posed to the project's viability is the developable yield. Out of 212 gross acres, only 129 acres are considered to be developable by the Master Developer. This distribution has implications on project feasibility given that

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³ IRR (Internal Rate of Return): Represents a way of measuring a return on investment, expressed as a compound rate of interest, over the entire investment period. It is the rate that makes the present value of future cash flows equal to the initial investment. The IRR is the chief comparative metric utilized in this analysis. Unless otherwise specified, all discussion of the internal rate of return (IRR) occurs in reference to "unleveraged returns," indicating that private debt and equity financing sources are not included. This is a typical industry approach in early stages of project analysis.

the Master Developer must incur costs associated with the 212 gross acres under its control, yet only has the ability to capture revenue generated from the 129 developable acres. A strategic evaluation to improve efficiency in this regard is recommended.

3. Project infrastructure costs need to be reduced where possible.

The project costs for infrastructure and improving the land are substantially high. Reducing these costs improves the project's feasibility. Although the attached sensitivity analysis indicates a 10% cost reduction, a more substantial reduction of 20% appears to a viable goal for significantly improving returns. As the project moves forward, the City and the Applicant should look to conduct a critical review of planning and development assumptions whereby costs may be reduced while retaining a level of quality and finish consistent with the innovation center concept sought by the City.

4. In addition to the use of a CFD, it will also be necessary to recognize the developer's fronting of backbone infrastructure facilities through the recapture of eligible development impact fees paid by the developers of MRIC buildings over the life of the project.

Many of the backbone infrastructure improvements to be fronted by the Applicant constitute public systems which are funded by impact fees for sewer, water, drainage, parks, and roads. As the buildable parcels created by the Applicant are sold to vertical developers, development impact fees will be paid, including those in these five key categories. As a potential policy option, and based on subsequent discussion and analysis, some of the fees paid by MRIC's vertical builders could appropriately be credited or reimbursed back to the Applicant /master developer over time. This evaluation suggests this could be an important source of revenue offsetting the very high cost of improvements estimated for MRIC.

5. It is likely that supplemental funding will be necessary to push returns closer to minimum industry thresholds. A leading source/mechanism in this regard is property tax increment as delivered through an Enhanced Infrastructure Financing District (EIFD).

Unless major cost reductions or development efficiencies can be put in place, it appears probable that an EIFD will be needed as part of the project's capital funding strategy. The analysis of an EIFD indicated that the use of this mechanism should be considered as an important option for improving the project's financial feasibility. Based on the property tax apportionment factors in place at the MRIC site, it appears likely that both City of Davis and County of Yolo property tax increments will be needed to help offset infrastructure costs. This finding has implications for upcoming tax sharing discussions between the City and County.

6. Returns are sensitive to changes in cost and revenue. Overall improvement in the relationship between costs and revenues is imperative to improving project feasibility.

Table 2 summarizes the results of the sensitivity analysis performed in this study. The sensitivity analysis tests the impact of changes in project assumptions on project returns.

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Table 2
City of Davis
MRIC Land Economics Analysis
Base Case and Sensitivity Analysis Scenarios: IRR Results and Descriptions

Scenario	IRR	Notes
Note: All scenarios reflect char	nge from Base Case ((Scenario A)
A Base Case (BC)	4.78%	Excludes EIFD
3 EIFD Funding	7.26%	Base Case including EIFD funding
C Reduced Land Value	3.69%	Uses lower of either computed residual land value or land sale comparable
D Lower CFD	4.36%	Reduces maximum tax rate by 50% to \$0.27/SF of building
E Reduced Fee Reimbursements	3.69%	Reduces percentage of eligible development impact fee reimbursed to master developer from 50% to 25% [1]
F Reduced Infrastructure Costs	6.88%	Reduces infrastructure costs by 10%
G Additional Mitigation	4.08%	Reflects additional predevelopment costs of \$2.0 million [2]
H Privitized Street Maintenance	4.13%	Reflects fiscal scenario shifting street maintenance away from City.

Source: EPS

[1] Master developer/applicant is fronting the cost of public facilities that are eligible for funding from impact fees. Includes road, water, sewer, parks, and drainage fees. Fees are paid at time that vertical development commences after land sale. It is expected that the City has a need for a portion of these fees in other parts of the City.

[2] Not intended to reflect specific measures, to be determined. Cost is incurred in second year of project and would be of lessor impact if spread over multiple years and/or occuring later in the project.

Project Overview

MRIC is planned as a 229-acre project expected to house over 6,000 employees as it develops in coming decades. The Mace Triangle accounts for 16.6 acres of the project, and is excluded from the analysis presented in this report. The remaining 212 acres of land area, which will be referred to simply as MRIC in this report, would be developed by the MRIC Project Applicant (Applicant or MRIC Master Developer). The 212 acres includes 25 acres of city-owned land in the northwest corner of the site.⁴ Approximately 65 acres of this land is reserved for green space. Furthermore, approximately 13% percent of the remaining land is assumed to be devoted to infrastructure, leaving the Master Developer with approximately 129 acres of developable land. These developable acres accommodate land devoted to buildings as well as parking spaces that support their respective uses. At full build out, MRIC will encompass nearly 2.7 million square feet of new construction across the 129 acres of developable land.

The MRIC is intended to serve a broad range of market segments to foster meaningful economic development and diversification that will support the City's fiscal objectives in the future. The following are opportunities associated with having diverse and eclectic options in this regard:

- Demand for infill projects created by relocation of space-limited users.
- Related to above, provide start-up opportunities for nascent firms.

⁴ For the purposes of this analysis, it is assumed that the 25 acres of city-owned land will be developed by the master developer.

- Contribute to demographic diversification of Davis, including retaining labor base trained at the University of California Davis (UC Davis) as local or nearby residents.
- Support the downtown (essentially, the "fourth innovation center") through increased economic activity.
- Increased fiscal revenue from business-to-business (B2B) and point-of-sale transactions.
- Improve university access to industries aligned with research strengths and offering partnership potential.
- Provide opportunities for support businesses.
- Attract prominent companies aligned with university and regional strengths.
- Enhance the regional innovation ecosystem and expand economic development opportunities.

This environment should strive to provide opportunity for companies at every stage of the firm life cycle to leverage the presence of the university. Several trends of note are prominent in the physical development of university-related research parks, including these:

- Mix of multitenant and single tenant commercial space supportive of research and development (R&D) activities.
- Specific requirements for R&D-oriented buildings, such as increased air handling systems, higher floor heights and loading capacity, chilling and wastewater pretreatment systems, and increased and redundant electrical power systems.
- Specialized and dedicated laboratory facilities, often associated with a specific university research center.
- The emergence of hospitality services such as restaurants, and hotel and conference centers.
- Green and sustainable design.

Development Prototypes

The success of the innovation center concept relies on the ability to develop, as a feasible real estate investment project, a viable land sale and vertical development program geared toward technical users in various fields of biotechnology, engineering, and other key areas.

There are four primary development prototypes that support the types of targeted clusters and companies for the Innovation Centers and are present in the 2nd Street Corridor and Interland University Research Park areas.

The clusters applicable for Davis all demand a comparable mix of office, flex, and industrial space with a few requiring specialized space such as clean rooms and wet labs. Previous analysis examining the pertinent built space in the 2nd Street Corridor and Interland URP areas shows a roughly equal mix of Flex/Office R&D, Industrial, and Office building types. While this space primarily supports the types of targeted users being contemplated for MRIC, several commercial and sales-service entities have also become tenants. Based on the built space and tenants in

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these areas, four broad development prototypes are used as proxies for the types of space that could be built in the Innovation Centers: Office, Flex—R&D/Office, Manufacturing, and Industrial Commercial. The Flex—R&D/Office prototype is likely to be a critical component of the proposed Innovation Centers because of its alignment with targeted clusters and company types and ability to generate assessed values and sales taxes.

There is tension between current economic conditions and relatively high costs of development. If lease rates are too low to capitalize multi-tenant speculative construction, development is far more likely to consist of build-to-suit activity where owner-users commission purpose-built facilities predicated on a need to be in Davis for strategic business reasons. Some types of businesses are highly cost sensitive while others are able to more equally weigh the value of proximity to the university and the quality of place in their site location criteria.

Land Economics of MRIC

Overview: Cost Burden Analysis

As a general indicator, comparing overall asset values and infrastructure costs can be an effective initial indicator of project feasibility. **Table 3** below provides low and high estimates of total assessed value of the project at buildout. For commercial uses, whenever overall cost burdens as measured by infrastructure costs, permits, and fee payments exceed 12 percent of asset value, more careful examination is warranted through more detailed feasibility analysis. As shown, MRIC costs and fees are at the high end or in excess of this threshold, indicating the potential that some degree of cost reduction may be necessary to achieve feasibility.

Table 3 City of Davis MRIC Land Economics Analysis Cost Burden Comparison

Item	High Estimate [1]	Low Estimate [1]
Total Assessed Value at Buildout	\$746,104,705	\$618,345,120
12% Cost Burden	\$111,915,706	\$92,751,768
Predevelopment [2] Infrastructure Cost Estimate Total Permits and Fees [3] Total Costs	\$4,000,000 \$56,900,000 \$29,517,726 \$90,417,726	\$4,000,000 \$56,900,000 \$29,517,726 \$90,417,726
Percent of Estimated Assessed Value	12.12%	14.62%

Source: MRIC Project Applicant; EPS.

- [1] The high estimate assessed value reflects the residual land value as calculated on Table 5 in this report. The low estimate reflects the total project assessed value as calculated in the annualized fiscal impact analysis (refer to Table D-2 of the Annualized Fiscal Impact Analysis dated April, 6 for details).
- [2] The balance of predevelopment costs are land costs and are not included here.
- [3] Excludes fees pertaining to CFDs. Assumes a permit and fee cost per square foot equivalent to light industrial uses for Retail, Manufacturing, and Hotel land uses.

Discounted Cash Flow Analysis

Key Development Prototypes and Land Use Assumptions

Overview of Key Prototypes

The industry clusters applicable for Davis (described in **Appendix E**), all require a comparable mix of industrial, office and retail space, and life science and agricultural biotech firms often have very specialized buildings.

In looking at development prototypes in Davis, there are four primary building types that show up in the City's existing tech clusters located on the 2nd Street Corridor and at Interland URP (see Maps 2 and 3). The four broad classes include the following:

- **Office**. This use has the highest employment density, typically ranging from 175 to 350 square feet per employee. It can be configured as multi-story or single-story space.
- Flex—R&D/Office. Schilling Robotics' main facility in the 2nd Street Corridor and the DMG Mori Innovation Lab are classic examples, showing some similarities to office but having larger workstations, more internal equipment, and often roll-up doors to facilitate equipment and materials delivery. Because of the nature of activity involving larger work stations and

laboratory facilities, employment density is usually lower than office uses. In many cases, these operations generate substantial business to business transactions resulting in sales and use tax receipts for their host jurisdictions. This is a key prototype for Davis, arguably the "workhorse" of the Innovation Center concept as it applies to Davis, and the subject of the pro forma example discussed in the next section. Depending on specific industry niche, specialized needs associated with this prototype include:

- Wet laboratories are ventilated spaces designed for the handling of chemicals and biological materials. They are a necessity for Life Sciences & Health Services, even though this type of space is in very short supply in Davis and the region.
- High-load capacity is a concern for many innovative companies that need to power advanced equipment.
- High-speed broadband is a necessity for Information & Communications Technology companies and many other technology related companies.
- Industrial Commercial. Similar in appearance to low density versions of the above two prototypes, this usually is configured as a basic single story shell without HVAC and other high performance core building infrastructure needed to accommodate specialized operations. These facilities may be used for a very broad array of tenants, ranging from office to sales-service. Examples in Davis include the Strelitzia Flower Company and Hoffman Automotive. The sales-service aspect is capable of generating considerable sales tax, therefore it is important to track this product as a possible generator of fiscal revenue to the City.
- **Manufacturing**. As discussed in the preceding discussion, advanced manufacturing is a strong candidate for future development. These are specialized facilities for specific tenants and while the overall "shell" may be a very basic tilt-up, the foundations, power, specialized HVAC, and specialized manufacturing equipment can lead to high assessed values. These facilities often have the following characteristics:
 - Clean rooms are enclosed spaces that control levels of airborne particulates and contaminants. They are particularly useful for Advanced Manufacturers creating circuits and other electronic hardware.
 - High-load capacity is a concern for many innovative companies that need to power advanced equipment.⁵
 - Floor drains and commercial grade kitchens are necessary for food-related R&D and testing operations.
 - High ceilings are important for many manufacturers; large buildings of this kind in Davis are almost nonexistent beyond DMG Mori.⁶

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⁵ Interview with Bruce White, director of the Engineering Translational Technology Center (ETTC), April 20, 2015.

⁶ Interview with Jim Gray and Nahz Anvary from DTZ, April 21, 2015.

The flex-office/R&D building type is likely to be a critical component of the proposed Innovation Centers. The most notable examples of this prototype are Schilling Robotics and the DMG Mori Innovation Lab. These are facility types that are critically important as they house mature industries related to research strengths of UC Davis, which generate very high assessed values and sales tax. Other prototypes, such as pure office and sales-service are being developed in the market, with some recently built space still awaiting occupancy on the 2nd Street corridor near the Target Center. Manufacturing, as described earlier, is almost always developed by owner-users, but the region has seen strong interest in existing facilities. Demand is driven by a multitude of non-real estate factors beyond the basic need for large sites, fast entitlements, and an absence of onerous costs of occupation (e.g., CFD special taxes making the area more expensive than other competitive areas).

Land Use Program

The land use program consists of four main prototypical land uses: Office/Flex/R&D, Manufacturing, Retail, and Hotel/Conference. The square footages and land acreage devoted to each land use are summarized in the following **Table 4**. Office/Flex/R&D and Manufacturing land uses make up nearly 85% of the project. Retail and hotel uses comprise small portions of the program. For this analysis, Public/Nonprofit land uses, which make up roughly 5% of the total MRIC square footage, are assumed to be occupied by UC Davis and other nonprofits acting as tenants in market-rate Flex: R&D/Office buildings.

Land Sales

Sales Schedule

EPS worked with the City and the Applicant to derive appropriate assumptions pertaining to absorption rates, which were then used to establish an annualized sales schedule and produce a detailed annualized project description across a 25 year buildout period. Demand for each land use is assumed to occur equally across the first 24 years of the assumed 25 year period. **Table A-2** (see **Appendix A**) shows the distribution of the building square footage across the 24 years.

According to the FAR assumed for each land use, the building square footage is converted into land that amounts to the number of acres needed to support the given square footage at the provided FAR (see **Table A-3**). **Table A-4** demonstrates how land is sold over the 25 year period. As demand increases, land is sold in increments of four acres for the office, flex, manufacturing, and public and non-profit land and one acre for retail land uses. Any remaining unsold acreage is divided among land sales occurring within years one through ten. For the Hotel land use, all 5.25 acres of hotel land is sold in year 5 as only a single hotel is planned. It is assumed that land will be developed vertically in the year following the land sale.

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Table 4 City of Davis MRIC Land Economics Analysis Proposed Land Use Program

Land Use	FAR	Land	Land	Building (Square Feet)
	FAR	(Acres)	(Square Feet)	(Square reet)
Commercial Uses				
Office/Flex/R&D				
Office	0.50	38.86	1,692,936	846,468
Flex: R&D/Office	0.40	26.81	1,167,778	467,111
Subtotal Office/Flex/R&D		65.67	2,860,714	1,313,579
Manufacturing	0.50	43.72	1,904,338	952,169
Retail				
Industrial Commercial	0.35	4.10	178,794	62,578
Ancillary Retail	0.35	2.45	106,923	37,423
Subtotal Retail		6.56	285,717	100,001
Hotel/Conference	0.70	5.25	228,571	160,000
Public/Nonprofit				
UC Davis-Owned	0.40	6.62	288,570	115,428
Other Nonprofits	0.40	0.74	32,063	12,825
Total Public/Nonprofit		7.36	320,633	128,253
Total Commercial Uses		128.56	8,460,686	2,654,000
Other Land Uses				
Mace Triangle		16.60		
Green Space		64.60		
MRIC Infrastructure		19.24		
Total Other Land Uses		100.44		
Total		229.00	8,460,686	2,654,000

Source: City of Davis; MRIC Project Applicant; EPS.

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Land Value Assumptions

The price of the developed land determines how much revenue would be generated from each land sale. Broker interviews, comparable sales, assessed values estimated by A. Plescia & Co. as of February 2, 2016 for the Nishi project, and results from a pro forma produced by EPS establish viable finished land parcel values ranging from \$9-\$13 per square foot of land. This land value is the amount a developer of a building would be willing to pay MRIC land owners after the land owners entitle the land, secure financing, conduct pre-development, conduct grading, and install all required infrastructure and utilities. **Table 5** summarizes land value assumptions used in this report.

Table 5 shows that for the Office, Flex: R&D/Office, Industrial Commercial, Ancillary Retail, and Public/Nonprofit land uses a residual land value analysis is performed. A residual land value analysis models the revenues that can be achieved by operating and selling a particular building in order to arrive at an estimated building value. The residual land value analysis also models the cost of constructing the building, including hard construction costs, soft costs, and associated permitting, development impact, and CFD fees. The cost of building parking is included in the vertical construction costs. To arrive at a residual land value, the total costs are subtracted from the total building value, reflecting the portion of the building's total value that can be attributed to the land on which it stands.

Residual land value analyses were not conducted for manufacturing and hotel land uses because of their unique build to suit nature. Although cost structure remains a concern for manufacturing and other build to suit projects, their development results from business decisions that are often separate and apart from real estate feasibility considerations.

Table 5 also shows that comparable land sales were analyzed for all land uses. Comparable land sales provided a wide range of values⁷, with a weighted average of \$11.51. This weighted average was used for comparisons against the results from the residual land value analysis. These land sales were seen as reasonable comparisons for the Office, Flex: R&D/Office, Industrial Commercial, Ancillary Retail, and Public/Nonprofit land uses. Manufacturing land sale is highly variable depending on specific project and company attributes; a land value of \$10 was used to maintain consistency and flexibility with other uses. Comparable land sales for the hotel are drawn from Applicant information regarding a proposed hotel near the intersection of 2nd Street and Mace Boulevard. Land for this hotel is valued at nearly \$15 per square foot.

The pro forma indicates these values may be achievable under favorable conditions including upmarket lease rates, low vacancy, and relatively low hard construction costs. However the pro forma also illustrates how sensitive the land value is to changes in key variables. For example, slight drops in lease rates adversely affect total building values and increases in hard costs can raise total costs, situations which both work to close the gap between the already narrow margin between total building values and total costs, dropping overall project returns.

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⁷ Comparable land sales were drawn from a combination of land currently on the market as well as recently recorded land sales. Comparable properties included those over one acre and under ten acres in size. Land zoned for industrial uses currently on the market were provided by Loopnet for Davis and West Sacramento. CoStar was used to source recent land sales in the City of Davis, those recorded from the year 2010 to present day.

	Land Use Category Industrial Public/Nonprofit												
Item	Office	Flex: R&D/Office	Commercial	Ancillary Retail	Flex [1]	Manufacturing	Hotel/Conference						
DEVELOPMENT PROGRAM ASSUMPTIONS													
tite Acres	38.9	26.8	4.1	2.5	7.4	43.7	5.2						
loor Area Ratio	0.50	0.40	0.35	0.35	0.40	0.50	0.70						
Bross Building Area (Square Feet)	846,468	467,111	62,578	37,423	128,253	952,169	160,000						
ifficiency Ratio iross Leasable Area (Square Feet)	95% 804,145	<mark>95%</mark> 443,755	95% 59,449	95% 35,552	95% 121,840	100% 952,169							
EVENUE ASSUMPTIONS													
Avg. Lease Rate/SF/Year (gross)	\$31.00	\$31.00	\$29.50	\$30.00	\$31.00								
Gross Potential Income/Year	\$24,928,483	\$13,756,419	\$1,753,748	\$1,066,556	\$3,777,051								
Less Vacancy	7.5%	7.5%	7.5%	7.5%	7.5%								
Effective Gross Income (EGI) Less Operating Expenses (% of EGI)	\$23,058,846 25.0%	\$12,724,688 25.0%	\$1,622,217 25.0%	\$986,564 25.0%	\$3,493,772 25.0%								
Total Operating Expenses	(\$5,764,712)	(\$3,181,172)	(\$405,554)	(\$246,641)	(\$873,443)								
Net Operating Income NOI/Gross Building Square Foot	\$17,294,135 \$20.43	\$9,543,516 <i>\$20.43</i>	\$1,216,663 <i>\$19.44</i>	\$739,923 <i>\$19.77</i>	\$2,620,329 \$2 <i>0.43</i>								
U 1													
Capitalization Rate	6.75%	6.75%	6.75%	6.75%	6.75%								
Building Value Disposition Cost	\$256,209,405 3.0%	\$141,385,417 3.0%	\$18,024,637 3.0%	\$10,961,820 3.0%	\$38,819,689 3.0%								
Total Building Value	\$248,523,122	\$137,143,854	\$17,483,898	\$10,632,966	\$37,655,099								
Value/Gross Building Square Foot	\$293.60	\$293.60	\$279.39	\$284.13	\$293.60								
OST ASSUMPTIONS													
lard Costs													
Direct Building Construction Costs/Gross Building SF (shell + parking) Total Direct Building Construction Costs	\$140.00 \$118,505,520	\$140.00 \$65,395,540	\$140.00 \$8,760,920	\$132.50 \$4,958,548	\$140.00 \$17,955,420								
Direct Site Improvement and Intract Costs/Gross Building SF	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00								
Total Direct Site Improvement Costs	\$6,771,744	\$3,736,888	\$500,624	\$299,384	\$1,026,024								
Tenant Improvement Costs/GLA SF (net of tenant responsibility)	\$50.00	\$55.00	\$45.00	\$35.00	\$55.00								
Total Tenant Improvement Costs	\$40,207,230	\$24,406,550	\$2,675,210	\$1,244,315 \$6,502,246	\$6,701,219								
	\$165,484,494	\$93,538,978	\$11,936,754	\$6,302,246	\$25,682,663								
Soft Costs Marketing/Leasing (6% of Hard Costs)	\$9,929,070	\$5,612,339	\$716,205	\$390,135	\$1,540,960								
Other Soft Costs as % of Hard Costs [2]	19.0%	19.0%	19.0%	19.0%	19.0%								
Total Other Soft Costs	\$31,442,054	\$17,772,406	\$2,267,983	\$1,235,427	\$4,879,706								
otal Soft Costs	\$41,371,124	\$23,384,744	\$2,984,188	\$1,625,562	\$6,420,666								
ermit, Development Impact, and CFD Fees		¢14.00	¢14.00	¢20.44	¢14.00	¢14.00	\$30.4 [°]						
All Payments and Fees (per SF) otal Payments/Gross Building SF	\$22.30	\$14.02	\$14.02	\$30.41	\$14.02	\$14.02	\$30.4						
otal Payments/Gross Building SP	\$18,876,464	\$6,549,022	\$877,360	\$1,137,856	\$1,798,142								
otal Costs Cost/Gross Building Square Foot	\$225,732,081.44 \$266.68	\$123,472,743.97 <i>\$264.33</i>	\$15,798,302.26 <i>\$252.4</i> 6	\$9,265,664.19 <i>\$247.59</i>	\$33,901,470.60 <i>\$264.33</i>								
INISHED LAND VALUE CALCULATION													
Residual Land Value (Total Building Value less Total Costs)	\$22,791,041	\$13,671,111	\$1,685,595	\$1,367,302	\$3,753,628								
Per Acre Per SF of Land	\$586,424 \$13.46	\$509,955 \$11.71	\$410,665 \$9.43	\$557,034 \$12.79	\$509,955 \$11.71								
Comparable Land Sales [3]													
Per Acre Per SF of Land	\$501,303 \$11.51	\$501,303 \$11.51	\$501,303 \$11.51	\$501,303 \$11.51	\$501,303 \$11.51	\$435,600 \$10.00	\$653,400 \$15.00						
Active Assumption Used	RLV	RLV	RLV	RLV	RLV	CLS	CLS						
Assumption Used (RLV or CLS)													
Per Acre	\$586,424	\$509,955 \$11.71	\$410,665 \$9.43	\$557,034 \$12.79	\$509,955 \$11.71	\$435,600 \$10.00	\$653,400 \$15.00						

Source: City of Davis; MRIC Project Applicant; EPS

For Public/Nonprofit land uses, UC Davis and other nonprofits are assumed to be tenants in market-rate Flex: R&D/Office buildings.
 Other soft costs are inclusive of costs of financing.
 Manufacturing land sale equated to be highly variable depending on specific property attributes. Land Value of \$10 per square foot used to maintain consistency/fungibility with other uses. Hotel land value based on a recent hotel deal proposed near the corner of 2nd Street and Mace Boulevard in the City of Davis.

Land Revenue

The land value assumptions for each land use are applied to the aforementioned land sales schedule (see **Table A-4**) in order to arrive at an annualized detail of revenue generated from land sales. **Table A-6** depicts the revenue generated for each land use according to the land sold in each year at the finished land value per acre. This revenue stream is directed to the Master Developer.

Master Developer Cash Flow

Table 6 shows the projected cash flows of the Master Developer across the 25 year period. The cash flow is derived from costs expended and revenues generated. These costs and revenues are used to calculate a net cash flow, shown near the bottom of the cash flow model. This net project cash flow is calculated from the total costs and total revenues, both inflated at 3%, along with bond payments inflated at 2%. This net cash flow is shown for each of the 25 years, and used to calculate the project's internal rate of return and net present value discounted at various rates, illustrated at the bottom of **Table 6**. The project IRR for the base case is about 4.8%, representing a return that is far from minimum industry standards, estimated in this case to be 12 percent (unleveraged) based on industry experience in the analysis of business and industrial parks. The 12 percent threshold would be appropriate for a project of this nature even if the site were already annexed to the City. The additional risk associated with the impending Measure R vote implies that even higher discount rates⁸ may be justified. Below is a more detailed outline of the Master Developer's costs and revenues.

⁸ As used here, the term "discount rate" is the compounded annual rate applied to future cash flows. The discount rate is equal to the targeted IRR when the Net Present Value (NPV) is equal to zero.

Table 6 City of Davis MRIC Land Economics Analysis Projected Master Developer Cash Flow: Base Case

Item	Assumption	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25
COSTS																											
Land and Predevelopment Costs [1]		(\$11,400,000)	(\$7,400,000) (\$4,000,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Infrastructure and Site Preparation																											
Backbone Infrastructure (per developable acre) [1] Subtotal Infrastructure and Site Prep Costs (Unir		(\$56,902,000) (\$56,902,000)	(\$22,586,000 (\$22,586,000		+-	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$34,316,000) (\$34,316,000)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Misc. Master Developer Project Admin./Pursuit C	osts [1] 5% of above cos	ts (\$3,415,100)	(\$136,604	4) (\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)
Open Space and Privitized Street Maintenance																											
Open Space Maintenance [2]		(\$3,066,212)	\$0		\$0 \$0	(\$18,018) \$0	(\$18,018) \$0	(\$60,551) \$0	(\$62,556) \$0	(\$71,764) \$0	(\$80,574) \$0) (\$104,073) \$0	(\$116,411)	(\$125,004)	(\$125,004) \$0		(\$147,420) \$0	(\$154,892) \$0	(\$163,485) \$0	(\$172,825) \$0	(\$187,769) \$0	(\$195,241) \$0	(\$210,186)		(\$226,251) \$0	(\$233,723)	
Street Maintenance [3] Priva Subtotal Maintenance Costs (Uninflated)	no no	\$0 (\$3,066,212)	\$0 \$0		\$0 \$0	\$∪ (\$18,018)		۵۵ (\$60,551)		\$0 (\$71,764)	50 (\$80,574)		\$0 (\$116,411)	\$0 (\$125,004)	۵∪ (\$125,004)	\$0 (\$139,948)	\$∪ (\$147,420)	• •	ψu	^{\$0} (\$172,825)	ه∪ (\$187,769)	۵∪ (\$195,241)	\$0 (\$210,186)	\$0 (\$218,779)	• •	هں (\$233,723)	\$0 (\$233,723)
Total Costs (Uninflated)		(\$74,783,312)	(\$30,122,604	4) (\$4,136,604)	(\$136,604)	(\$154,622)	(\$154,622)	(\$197,155)	(\$199,160)	(\$208,368)	(\$217,178)	(\$34,556,677)	(\$253,015)	(\$261,608)	(\$261,608)	(\$276,552)	(\$284,024)	(\$291,496)	(\$300,089)	(\$309,429)	(\$324,373)	(\$331,845)	(\$346,790)	(\$355,383)	(\$362,855)	(\$370,327)	(\$370,327)
Total Costs Inflated	3% inflation	(\$88,916,116)	(\$30,122,604	!) (\$4,260,702)	(\$144,923)	(\$168,960)	(\$174,029)	(\$228,557)	(\$237,807)	(\$256,266)	(\$275,114)	(\$45,088,625)	(\$340,030)	(\$362,126)	(\$372,990)	(\$406,126)	(\$429,612)	(\$454,141)	(\$481,555)	(\$511,439)	(\$552,224)	(\$581,893)	(\$626,341)	(\$661,116)	(\$695,267)	(\$730,872)	(\$752,798)
Tax Payments on CFD Bonds																											
Phase 1 CFD Bonds																											
Total Tax Payments on Phase 1 Bonds [4]	2% escalation		\$0	(**** / -/				(\$652,648)		(\$679,015)	(\$692,595)		(\$720,576)	(\$734,988)	(\$749,688)		(\$779,975)		(\$811,486)	(\$827,716)	(\$844,270)	(\$861,155)	(\$878,378)	(\$895,946)			
Phase 1 Bond Payments paid by Landbuyers		\$16,016,920 (\$2,024,348)	\$0 \$0		÷,=		\$375,483 (\$264,368)	\$397,120 (\$255,528)	\$469,369 (\$196,332)	\$613,422 (\$65,593)	\$692,595 \$0	\$706,447 \$0	\$720,576 \$0	\$734,988 \$0	\$749,688 \$0	\$764,681 \$0	\$779,975 \$0	\$795,574 \$0	\$811,486 \$0	\$827,716 \$0	\$844,270 \$0	\$861,155 \$0	\$878,378 \$0	\$895,946 \$0	\$913,865 \$0	\$932,142 \$0	\$950,785 \$0
Phase 1 Payments paid by Master Developer		(\$2,024,348)	şı) (\$301,473)	(\$496,757)	(\$442,297)	(\$204,300)	(\$255,526)	(\$190,332)	(\$62,293)	φU	\$ 0	φU	φU	φU	φU	φU	\$U	\$U	\$U	φU	\$U	φU	\$ 0	φU	\$U	\$0
Phase 2 CFD Bonds Total Tax Payments on Phase 2 Bonds [4]	2% escalation	(\$14,242,251)	\$0) \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$424,043)	(\$865,047)	(\$882,348)	(\$899,995)	(\$917,995)	(\$936,355)	(\$955,082)	(\$974,184)	(\$993.667)	(\$1.013.541)	(\$1 033 811)	(\$1,054,488)	(\$1.075.577)	(\$1 097 089)	(\$1,119,031)
Phase 2 Bond Payments paid by Landbuyers	2 /// escalation	\$9,738,690	\$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$95,885	\$206,762	\$256,419		\$456,223	\$513,656	\$523,929	\$697,753	\$711,708	\$843,596	\$860,468	\$986,484	\$1,061,705	\$1,097,089	\$1,119,031
Phase 2 Payments paid by Master Developer		(\$4,503,562)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$328,158)	(\$658,285)	(\$625,929)	(\$592,015)	(\$461,771)	(\$422,698)	(\$431,152)	(\$276,430)	(\$281,959)	(\$169,944)	(\$173,343)	(\$68,004)	(\$13,873)	\$0	\$0
Total Bond Payments paid by Master Developer		(\$6,527,910)	\$0	(\$301,473)	(\$498,757)	(\$442,297)	(\$264,368)	(\$255,528)	(\$196,332)	(\$65,593)	\$0	\$0	(\$328,158)	(\$658,285)	(\$625,929)	(\$592,015)	(\$461,771)	(\$422,698)	(\$431,152)	(\$276,430)	(\$281,959)	(\$169,944)	(\$173,343)	(\$68,004)	(\$13,873)	\$0	\$0
REVENUES																											
Bond and Fee Proceeds																											
CFD Bond Proceeds		\$15,139,000	\$6,293,000		**	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Development Impact Fee Reimbursements EIFD Tax Increment Financing In	cluded? no	\$7,147,406 \$0	\$0 \$0			\$111,584 \$0	\$1,990,852 \$0	\$19,955 \$0	\$127,224 \$0	\$531,183 \$0	\$127,224 \$0	\$689,037 \$0	\$185,827 \$0	\$18,067 \$0	\$355,885 \$0	\$103,237 \$0	\$521,065 \$0	\$103,237 \$0	\$0 \$0	\$559,779 \$0	\$0 \$0	\$596,649 \$0	\$0 \$0	\$185,827 \$0	\$355,885 \$0	\$18,067 \$0	\$0 \$0
Total Proceeds from Bonds and Fees	10	\$22,286,406	\$6,293,000		++	• •	\$1,990,852	\$19,955	\$127,224	\$531,183	\$127,224	+-	\$185,827	\$18,067	\$355,885	÷.	\$521,065	\$103,237	\$0 \$0	\$559,779	\$0	\$596,649	\$0	\$185,827	\$355,885	\$18, 0 67	\$0 \$0
Gross Land Sale Revenues		\$65,742,407	\$0	\$0	\$4,912,887	\$2,755,918	\$8,343,237	\$453,601	\$2,147,245	\$5,521,560	\$2,147,245	\$5,289,719	\$3,782,219	\$410,665	\$2,345,695	\$1,742,400	\$6,425,332	\$1,742,400	\$0	\$6,538,578	\$0	\$4,645,129	\$0	\$3,782,219	\$2,345,695	\$410,665	\$0
Selling Costs at 3.0% of Land Value		(\$1,972,272)	\$0	\$0	(\$147,387)	(\$82,678)	(\$250,297)	(\$13,608)	(\$64,417)	(\$165,647)	(\$64,417)	(\$158,692)	(\$113,467)	(\$12,320)	(\$70,371)	(\$52,272)	(\$192,760)	(\$52,272)	\$0	(\$196,157)	\$0	(\$139,354)	\$0	(\$113,467)	(\$70,371)	(\$12,320)	\$0
Closing Costs at 1.0% of Land Value		(\$657,424)	\$0		(* - , - ,			(\$4,536)		(\$55,216)	(\$21,472)		(\$37,822)	(\$4,107)	(\$23,457)		(\$64,253)	(\$17,424)	\$0	(\$65,386)	\$0	(\$46,451)	\$0	(\$37,822)		(\$4,107)	
Net Land Sale Revenues		\$63,112,710	\$0	\$0	\$4,716,371	\$2,645,681	\$8,009,507	\$435,457	\$2,061,355	\$5,300,697	\$2,061,355	\$5,078,130	\$3,630,930	\$394,238	\$2,251,867	\$1,672,704	\$6,168,319	\$1,672,704	\$0	\$6,277,035	\$0	\$4,459,323	\$0	\$3,630,930	\$2,251,867	\$394,238	\$0
Total Revenues (Uninflated)		\$63,112,710	\$6,293,000	\$0	\$5,263,195	\$2,757,265	\$10,000,359	\$455,412	\$2,188,579	\$5,831,880	\$2,188,579	\$14,613,167	\$3,816,757	\$412,305	\$2,607,752	\$1,775,941	\$6,689,383	\$1,775,941	\$0	\$6,836,814	\$0	\$5,055,972	\$0	\$3,816,757	\$2,607,752	\$412,305	\$0
Total Revenues Inflated	3% inflation	\$116,286,115	\$6,293,000	\$0	\$5,583,723	\$3,012,938	\$11,255,493	\$527,947	\$2,613,278	\$7,172,477	\$2,772,427	\$19,066,868	\$5,129,402	\$570,726	\$3,718,031	\$2,608,030	\$10,118,293	\$2,766,859	\$0	\$11,300,211	\$0	\$8,865,678	\$0	\$7,100,292	\$4,996,723	\$813,719	\$0
NET PROJECT CASH FLOW (INFLATED)		\$20,842,089	(\$23,829,604) (\$4,562,175)	\$4,940,043	\$2,401,682	\$10,817,096	\$43,862	\$2,179,139	\$6,850,618	\$2,497,313	(\$26,021,757)	\$4,461,214	(\$449,685)	\$2,719,113	\$1,609,889	\$9,226,910	\$1,890,019	(\$912,707)	\$10,512,342	(\$834,183)	\$8,113,841	(\$799,684)	\$6,371,172	\$4,287,583	\$82,847	(\$752,798)
Internal Rate of Return IRR [5]	project IF	R 4.78%																									
NPV at 10% [6]	project to	al (\$9,769,871)																									
	per developable ad	re (\$75,996)																									
	per developable square fo	ot (\$1.74)																									
NPV at 12% [6]	project to	a/ (\$11,893,570)																									
	per developable ad																										
	per developable square fo	ot (\$2.12)																									
NPV at 14% [6]	project to	a/ (\$13,514,941)																									
	per developable ad																										

Source: MRIC Project Applicant; EPS

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<u>Costs</u>

The MRIC Project Applicant provided figures for the Land and Predevelopment as well as for Infrastructure and Site Preparation cost categories. EPS has assumed a simplified phasing structure regarding the rollout of backbone infrastructure. The construction of backbone infrastructure is divided into phases, with roughly 43% built in Year 1 and the remaining 57% built in Year 10. The backbone infrastructure costs represent the bulk of the Master Developer's overall cost, and these estimates reflect CEQA-related mitigations such as the inclusion of on-site and off-site recycled water infrastructure (i.e. "purple pipe"). EPS has reviewed and vetted the cost estimates provided by the Project Applicant; however, it may benefit the city to further review the numbers, potentially through its own engineering consultant if necessary. **Table 7** details what is included in the backbone infrastructure. A more in depth outline of backbone infrastructure costs can be found in **Appendix D**.

Table 7 City of Davis MRIC Land Economics Analysis Project Backbone Infrastructure Cost Estimates (2016\$)

Item	Phase 1 [1] Year 1	Phase 2 [1] Year 10	Full Buildout
Construction Costs			
On-site Street Costs	\$5,811,400	\$8,834,700	\$14,646,100
On-site Other Costs	\$10,192,620	\$11,775,430	\$21,968,050
Off-site Costs	\$1,975,000	\$2,815,000	\$4,790,000
Subtotal Construction Costs	\$17,979,020	\$23,425,130	\$41,404,150
10% Contigency	\$1,797,902	\$2,342,513	\$4,140,415
Total Construction Costs	\$19,776,922	\$25,767,643	\$45,544,565
25% Soft Costs	\$4,944,231	\$6,441,911	\$11,386,141
Total Project Infrastructure (Rounded) Percent of Total	\$24,700,000 43%	\$32,200,000 57%	\$56,900,000 100.00%

project costs

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Source: MRIC Project Applicant; EPS.

[1] Assumes a simplified phasing structure regarding the development of backbone infrastructure.

The Master Developer Project administrative and pursuit costs represent expenses incurred over the lifetime of the 25 year buildout. These costs are calculated as 5% of the total Land and Predevelopment and Backbone Infrastructure Costs spread evenly over 25 years. Recurring Costs account for the maintenance of green space conducted by the Master Developer. It is assumed that the Master Developer will conduct maintenance of green space. The model also analyzes the privatization of street maintenance as a sensitivity scenario, testing the viability of the Master Developer street maintenance responsibility. Altogether these comprise the main costs of the Master Developer, and are further outlined in the cash flow model provided in the previously mentioned **Table 6**. The last cost category shows tax payments that are to be made on CFD bonds issued for the financing of the project's infrastructure. Bonds will be issued in two phases according to the phasing of the backbone infrastructure, and bond payments are shown separately for the two bonds. While the bonds are being paid in full every year, the obligation of the Master Developer to pay the bond payments is transferred as each acre of land is sold to prospective land buyers. This model shows the distribution of responsibility for the bond payments between the master developer and the future land buyer according to how much of the land is owned in a given year. CFD Bond Financing will be discussed in greater detail in the next section.

<u>Revenues</u>

The vast majority of revenues stem from the finished land sales, taken from **Table A-6** which is reflected in the cash flow model. Selling and Closing costs associated with the land sales are subtracted from this revenue to arrive at the net land sale revenues. In addition to this revenue stream, this analysis considers other sources of potential revenue so as to offset the large sums of front-ended infrastructure costs incurred by the master developer. Specifically, CFD bonds, Development Impact reimbursements, and EIFD bonds are analyzed. These revenue streams are discussed below.

CFD Bond proceeds are proposed as a funding source for new infrastructure within MRIC. These bonds are issued in two rounds, concurrent with the phasing of backbone infrastructure. The bond sizing is calculated from the funds that can be recovered from the maximum taxing capacity of the land in a given phase as shown in **Table A-8**. This amount is then used to determine the size of the bonds and the actual bond proceeds that can be redirected into the project. The bond sizing calculation is shown in **Table A-9**. These bond proceeds are shown as revenue to the Master Developer in the cash flow model presented in **Table 6**.

Another source of revenue for the project comes from the potential reimbursement of Development Impact Fees. It is assumed that the development impact fees for sewer, water, parks, drainage, and roads are eligible for reimbursements for eligible infrastructure built by the Master Developer. Of these eligible categories, it is assumed that 50% of fees paid by vertical builders can be directed to reimburse expenses previously incurred by the Master Developer building of backbone infrastructure. **Table -12** demonstrates the development impact fees that would be reimbursed back into the project as land is sold across the 25 year buildout period. **Table A-10** and **Table A-11** outline various fees and payments, including development impact fees, in greater detail.

A third source of potential revenue comes in the form of proceeds from Enhanced Infrastructure Financing District (EIFD) bonds. Local agencies can establish an EIFD for a given project or geographic area of the jurisdiction. The EIFD captures incremental increases in property tax revenue from future development otherwise accruing to the county's General Fund that can be used for to finance public capital facilities or other specified projects of communitywide significance, including, but not limited to, brownfield restoration and other environmental mitigation; the acquisition, construction, or repair of industrial structures for private use; transit priority projects; and projects implementing a sustainable communities strategy. **Table C-1** (see **Appendix C**) provides greater detail on EIFD calculations and the resulting EIFD funds available to finance the project. EIFD funding is not included in the Base Case, but is further analyzed as a scenario in the sensitivity analysis in the following section of this report.

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Project Results and Sensitivity Analyses: Key Dynamics and Funding Mechanism Options

Table 8 provides a summary of results for the base case project as well as seven additional sensitivity analyses which are also described in greater detail in the table. It should be noted that these returns pertain to a program of improving land for sale to vertical developers. It is possible that the Applicant may also be a vertical developer, however specific business planning elements are not known to EPS at this time. However, even in that case, the dynamics described in this memo are relevant, as the Applicant would internally reflect the purchase of improved land in its vertical development pro formas, similar to those presented as a basis for land value in this memo. Full cash flow models for each scenario can be found in the attached **Appendix B**.

Table 8 City of Davis MRIC Land Economics Analysis Base Case and Sensitivity Analysis Scenarios: IRR Results and Descriptions

Scenario	IRR	Notes
Note: All scenarios reflect change from	Base Case ((Scenario A)
A Base Case (BC)	4.78%	Excludes EIFD
3 EIFD Funding	7.26%	Base Case including EIFD funding
C Reduced Land Value	3.69%	Uses lower of either computed residual land value or land sale comparable
D Lower CFD	4.36%	Reduces maximum tax rate by 50% to \$0.27/SF of building
E Reduced Fee Reimbursements	3.69%	Reduces percentage of eligible development impact fee reimbursed to master developer from 50% to 25% [1]
F Reduced Infrastructure Costs	6.88%	Reduces infrastructure costs by 10%
G Additional Mitigation	4.08%	Reflects additional predevelopment costs of \$2.0 million [2]
H Privitized Street Maintenance	4.13%	Reflects fiscal scenario shifting street maintenance away from City.

Source: EPS

 Master developer/applicant is fronting the cost of public facilities that are eligible for funding from impact fees. Includes road, water, sewer, parks, and drainage fees. Fees are paid at time that vertical development commences after land sale. It is expected that the City has a need for a portion of these fees in other parts of the City.
 Not intended to reflect specific measures, to be determined. Cost is incurred in second year of project and would be of lessor impact if spread over multiple years and/or occuring later in the project.

As discussed previously, an unleveraged IRR⁹ of 12 percent may be a reasonable target based on the size and complexity of the project, although many developers would prefer a higher return. On the other hand, many developers are more interested in cash flow volume as opposed to metrics such as IRR and may accept lower returns for larger projects likely to generate substantial annual cash flow. It is not known whether a 12 percent unleveraged IRR is acceptable to the Applicant; nevertheless, it is EPS's assumption that this figure represents a workable minimum feasibility threshold for the MRIC project. The following **Table 9** shows a comparison of cash flow totals for each of the scenarios analyzed.

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⁹ In this context the term "unleveraged" indicates that master developer internal equity and debt resources are not factored in. At this preliminary stage, basic feasibility testing without private sector master developer financing is appropriate.

Table 9 City of Davis MRIC Land Economics Analysis Sensitivity Analysis Results of Projected Master Developer Cash Flow Scenarios

		Scenario A Base	Scenario B EIFD	Scenario C Reduced	Scenario D Lower	Scenario E Reduced DIF	Scenario F Reduced	
tem	Assumption	Case	Funding	Land Value	CFD	Reimbursements	Infrastructure Costs	
COSTS								
and and Predevelopment Costs [1]		(\$11,400,000)	(\$11,400,000)	(\$11,400,000)	(\$11,400,000)	(\$11,400,000)	(\$11,400,000)	
frastructure and Site Preparation								
Backbone Infrastructure (per developable acre) [1]	\$442,603	(\$56,902,000)	(\$56,902,000)	(\$56,902,000)	(\$56,902,000)	(\$56,902,000)	(\$51,211,000)	
ubtotal Infrastructure and Site Prep Costs (Uninflated)		(\$56,902,000)	(\$56,902,000)	(\$56,902,000)	(\$56,902,000)	(\$56,902,000)	(\$51,211,000)	
lisc. Master Developer Project Admin./Pursuit Costs [1]	5% of above costs	(\$3,415,100)	(\$3,415,100)	(\$3,415,100)	(\$3,415,100)	(\$3,415,100)	(\$3,130,550)	
pen Space and Privitized Street Maintenance								
Open Space Maintenance [2]		(\$3,066,212)	(\$3,066,212)	(\$3,066,212)	(\$3,066,212)	(\$3,066,212)	(\$3,066,212)	
Street Maintenance [3] ubtotal Maintenance Costs (Uninflated)		\$0 (\$3,066,212)	\$0 (\$3,066,212)	\$0 (\$3,066,212)	\$0 (\$3,066,212)	\$0 (\$3,066,212)	\$0 (\$3,066,212)	
otal Costs (Uninflated)		(\$74,783,312)	(\$74,783,312)	(\$74,783,312)	(\$74,783,312)	(\$74,783,312)	(\$68,807,762)	
otal Costs Inflated	3% inflation	(\$88,916,116)	(\$88,916,116)	(\$88,916,116)	(\$88,916,116)	(\$88,916,116)	(\$81,764,155)	
ax Payments on CFD Bonds								
Phase 1 Bonds								
Total Tax Payments on Phase 1 Bonds [4] Phase 1 Bond Payments paid by Landbuyers	2% escalation	(\$18,041,268) \$16,016,920	(\$18,041,268) \$16,016,920	(\$18,041,268) \$16,016,920	(\$9,088,014) \$8,068,280	(\$18,041,268) \$16,016,920	(\$18,041,268) \$16,016,920	
Phase 1 Payments paid by Master Developer		(\$2,024,348)	(\$2,024,348)	(\$2,024,348)	\$8,068,280 (\$1,019,735)	(\$2,024,348)	(\$2,024,348)	
		(+=,+= 1,+ 10)	(+=,+= 1,+ 10)	(+=,+= 1,+ 10)	(+1,010,100)	(+=,0= 1,0 10)	(+=,+= 1,+ 10)	
Phase 2 Bonds Total Tax Payments on Phase 1 Bonds [4]	2% escalation	(\$14,242,251)	(\$14,242,251)	(\$14,242,251)	(\$7,174,318)	(\$14,242,251)	(\$14,242,251)	
Phase 2 Bond Payments paid by Landbuyers	2% escalation	\$9,738,690	\$9,738,690	\$9,738,690	\$4,905,717	\$9,738,690	\$9,738,690	
Phase 2 Payments paid by Master Developer		(\$4,503,562)	(\$4,503,562)	(\$4,503,562)	(\$2,268,601)	(\$4,503,562)	(\$4,503,562)	
Fotal Bond Payments paid by Master Developer		(\$6,527,910)	(\$6,527,910)	(\$6,527,910)	(\$3,288,335)	(\$6,527,910)	(\$6,527,910)	
REVENUES								
Bond and Fee Proceeds CFD Bond Proceeds		\$15,139,000	\$15,139,000	\$15,139,000	\$7,661,000	\$15,139,000	\$15,139,000	
Development Impact Fee Reimbursements		\$7,147,406	\$7,147,406	\$7,147,406	\$7,147,406	\$3,573,703	\$7,147,406	
EIFD Tax Increment Financing		\$0	\$9,506,950	\$0	\$0	\$0	\$0	
Total Proceeds from Bonds and Fees		\$22,286,406	\$31,793,357	\$22,286,406	\$14,808,406	\$18,712,703	\$22,286,406	
Gross Land Sale Revenues		\$65,742,407	\$65,742,407	\$62,001,802	\$70,149,923	\$65,742,407	\$65,742,407	
Selling Costs at 3.0% of Land Value		(\$1,972,272)	(\$1,972,272)	(\$1,860,054)	(\$2,104,498)	(\$1,972,272)	(\$1,972,272)	
Closing Costs at 1.0% of Land Value		(\$657,424)	(\$657,424)	(\$620,018)	(\$701,499)	(\$657,424)	(\$657,424)	
Net Land Sale Revenues		\$63,112,710	\$63,112,710	\$59,521,730	\$67,343,926	\$63,112,710	\$63,112,710	
Total Revenues (Uninflated)		\$63,112,710	\$63,112,710	\$59,521,730	\$67,343,926	\$63,112,710	\$63,112,710	
Total Revenues Inflated	3% inflation	\$116,286,115	\$130,581,780	\$111,168,633	\$113,513,362	\$111,411,723	\$116,286,115	
NET PROJECT CASH FLOW (INFLATED)		\$20,842,089	\$35,137,754	\$15,724,607	\$21,308,910	\$15,967,697	\$27,994,050	
Internal Rate of Return IRR [5]	project IRR	4.78%	7.26%	3.69%	4.36%	3.69%	6.88%	
NPV at 10% [6]	project total	(\$9,769,871)	(\$5,612,139)	(\$11,617,765)	(\$11,791,905)	(\$11,788,311)	(\$5,468,534)	
	per developable acre per developable square foot	(\$75,996) (\$1.74)	(\$43,655) (\$1.00)	(\$90,370) (\$2.07)	(\$91,725) (\$2.11)	(\$91,697) (\$2.11)	(\$42,538) (\$0.98)	
	per developable square root	(\$1.74)	(\$1.00)	(\$2.07)	(\$2.11)	(\$2.11)	(40.30)	
NPV at 12% [6]	project total	(\$11,893,570)	(\$8,518,444)	(\$13,477,024)	(\$14,037,621)	(\$13,662,059)	(\$7,896,633)	
	per developable acre	(\$92,515)	(\$66,262)	(\$104,833)	(\$109,193)	(\$106,272)	(\$61,425)	
	per developable square foot	(\$2.12)	(\$1.52)	(\$2.41)	(\$2.51)	(\$2.44)	(\$1.41)	
NPV at 14% [6]	project total	(\$13,514,941)	(\$10,746,144)	(\$14,889,507)	(\$15,740,846)	(\$15,081,037)	(\$9,771,346)	
	per developable acre	(\$105,127)	(\$83,590)	(\$115,820)	(\$122,442)	(\$117,309)	(\$76,007)	
	per developable square foot	(\$2.41)	(\$1.92)	(\$2.66)	(\$2.81)	(\$2.69)	(\$1.74)	

Source: MRIC Project Applicant; EPS

[1] Figure provided by MRIC Project Applicant.

[2] Parks and open space are assumed to be maintained by the Master Developer. These maintenance costs increase on the basis of percentage of buildout (see Fiscal Analysis Table 1).

[3] Street maintenance is privitized as one scenario in the fiscal analysis (see Fiscal Analysis Appendix E Table E-1).

[4] Represents the total tax payments due on issued bonds, independent of who is paying them. Assumes an annual 2% payment escalation. Assumes 18 months of capitalized interest, and thus no payments are made for 18 months. No payment in the first year and 50% of the second year payment are shown to account for the 18 months of capitalized interest.

[5] For this analysis, XIRR is used to calculate the internal rate of return in order to account for the irregular cash flows over the 25 year period.

[6] For this analysis, XNPV is used to calculate the net present value in order to account for the irregular cash flows over the 25 year period.

Scenario G Additional Mitigation	Scenario H Privitized Street Maintenance
(\$13,400,000)	(\$11,400,000)
(\$56,902,000) (\$56,902,000)	(\$56,902,000) (\$56,902,000)
(\$3,515,100)	(\$3,415,100)
(\$3,066,212) \$0	(\$3,066,212) (\$2,280,758)
(\$3,066,212)	(\$5,346,970)
(\$76,883,312)	(\$77,064,070)
(\$91,121,953)	(\$92,676,235)
(\$18,041,268)	(\$18,041,268)
\$16,016,920 (\$2,024,348)	\$16,016,920 (\$2,024,348)
(\$14,242,251)	(\$14,242,251)
\$9,738,690	\$9,738,690
(\$4,503,562)	(\$4,503,562)
(\$6,527,910)	(\$6,527,910)
\$15,139,000	\$15,139,000
\$7,147,406	\$7,147,406
\$0	\$0
\$22,286,406	\$22,286,406
\$65,742,407	\$65,742,407
(\$1,972,272)	(\$1,972,272)
(\$657,424)	(\$657,424)
\$63,112,710	\$63,112,710
\$63,112,710	\$63,112,710
\$116,286,115	\$116,286,115
\$18,636,252	\$17,081,970
4.08%	4.13%
(\$11,693,284)	(\$10,594,964)
(\$90,957)	(\$82,414)
(\$2.09)	(\$1.89)
(\$13,776,480)	(\$12,533,605)
(\$107,162)	(\$97,494)
(\$2.46)	(\$2.24)
(\$15,360,113)	(\$14,018,897)
(\$119,480)	(\$109,048)
(\$2.74)	(\$2.50)

CF comparison

The Base Case (Scenario A) returns an IRR of approximately 4.8 percent. However, as described in earlier sections of this memorandum, this result factors in assertive CFD tax rates and fee reimbursements. Key sensitivities included in the analysis are as follows:

- Scenario B includes the use of the EIFD. As discussed earlier, the EIFD relies on both City and County shares of property tax due to very low AB8 apportionment factors on the MRIC land. Including EIFD funding, all other things remaining the same, raises the IRR to 7.3 percent, indicating the use of this mechanism as an important option for additional revenue that would improve the project's financial feasibility.
- Scenario C uses somewhat lower land values than assumed in the base case, reducing the weighted average land value for all uses (excluding hotel) from \$11.61/SF for developed and buildable pads to \$10.88/SF, a lower figure that remains within range of comparable land sale values for similar properties sold in Davis and West Sacramento since 2000. This adjustment, in isolation, cuts returns from the 4.8 percent IRR base case result to a 3.7 percent IRR.
- Scenario D uses a more conservative maximum CFD tax rate, similar to that applied to commercial property in both the Nishi and Cannery project examples. By reducing the maximum tax rate from \$0.54/building SF to \$0.27/building SF, all other things remaining equal, a 4.4 percent IRR is produced.¹⁰
- Scenario E provides a more modest reimbursement of impact fees related to infrastructure eligible for impact fee funding that is fronted by the Applicant and paid by vertical developers. If the City elects to use this approach, funds would be returned to the master developer as pads are sold and vertical development commences. The baseline analysis assumes 50 percent of eligible fees related to backbone infrastructure categories fronted by the master developer are reimbursed. If reduced to 25 percent, the resulting IRR is 3.7 percent when this change to the base case is made in isolation.
- Scenario F cuts infrastructure costs by 10 percent. The resulting improvement of IRR to 6.9 percent is indicative of the importance of ensuring that substantial review and reduction of costs is conducted, where possible.
- Scenario G assumes additional mitigation measures, shown as \$2 million in additional predevelopment costs incurred in the second year of the cash flow analysis. The resulting 4.1 percent IRR is indicative of the project's sensitivity to front end costs; to the extent possible, mitigation measures for agricultural land consumption and/or other measures under consideration in anticipation of Development Agreement negotiations have less of an impact to project financials if spread over a longer period.

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¹⁰ Potential cost savings achieved through lower CFD tax payments should, in theory, improve finished property values. However, based on discussions with the Applicant and review of comparable land sales, residual land values applied in this analysis may be characterized as somewhat assertive. Therefore, this dynamic is not reflected in this scenario. Further evaluation of CFD and other public financing approaches should build on this evaluation to further define an optimal infrastructure financing strategy related to the Project

• Scenario H assumes street maintenance is privatized per Fiscal Scenario 10, becoming the responsibility of the master developer instead of the City of Davis. In this scenario, the additional costs have a slight impact on project economics, pushing returns down from the 4.8 percent base case IRR to a 4.1 percent IRR.

Considerations for Improving Project Returns

Based on the foregoing analysis, the Applicant and the City share a vested interest in reducing costs to the project without diminishing its ability to provide a high quality environment supportive of the innovation ecosystem described in previous EPS reports. It is recommended that upcoming discussions be based on continued analysis and refinements thereof where specific public policy measures and potential project adaptations combine to strengthen the financial outlook for the MRIC project. As a component of a larger strategy for improving the economics of the project, it is recommended that the City and MRIC Developer evaluate the potential that project-related improvements may benefit other nearby uses, as a basis for potential cost sharing and related reimbursements (as necessary and appropriate).

As discussed in the earlier phases of the project, continued improvements in fundamental economic conditions supporting continued lease rate growth will improve the ability to provide a full spectrum of uses contributing to the innovation center vision. To the extent that certain products may need to wait for continued market improvement, more activity on the site can be expected to be comprised of owner-user and build-to-suit projects. A key to project success is the ability to tie infrastructure phases to market opportunity, so every effort should be made to maximize the Applicant's ability to respond to evolving market conditions.

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APPENDICES:

Appendix A: Base Case Supporting Tables
Appendix B: Sensitivity Analysis
Appendix C: Sensitivity Analysis Supporting Tables
Appendix D: Detailed Infrastructure Cost Estimates
Appendix E: Innovation Cluster Dynamics



APPENDIX A:

Base Case Supporting Tables

Land Llas Du

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Table A-1 City of Davis MRIC Land Economics Analysis Proposed Land Use Program

Land Use	FAR	Land (Acres)	Land (Square Feet)	Building (Square Feet
Commercial Uses				
Office/Flex/R&D				
Office	0.50	38.86	1,692,936	846,468
Flex: R&D/Office	0.40	26.81	1,167,778	467,111
Subtotal Office/Flex/R&D		65.67	2,860,714	1,313,579
Manufacturing	0.50	43.72	1,904,338	952,169
Retail				
Industrial Commercial	0.35	4.10	178,794	62,578
Ancillary Retail	0.35	2.45	106,923	37,423
Subtotal Retail		6.56	285,717	100,001
Hotel/Conference	0.70	5.25	228,571	160,000
Subtotal Taxable Uses				
Public/Nonprofit				
UC Davis-Owned	0.40	6.62	288,570	115,428
Other Nonprofits	0.40	0.74	32,063	12,825
Total Public/Nonprofit		7.36	320,633	128,253
Total Commercial Uses		128.56	8,460,686	2,654,000
Other Land Uses				
Mace Triangle		16.60		
Green Space		64.60		
MRIC Infrastructure		19.24		
Total Other Land Uses		100.44		
		229.00	8,460,686	2,654,000

Source: EPS.

Table A-2 City of Davis MRIC Land Economics Analysis Annualized MRIC Land Use Demand Summary

	Full Build Out											c	Commercial B	uilding Square	Feet per vear											
Land Use	(square feet)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25
Office/Flex/R&D																										
Office	846,468	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	35,270	0
Flex: R&D/Office	467,111	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	19,463	0
Total Office/Flex/R&D	1,313,579	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	54,732	0
Manufacturing	952,169	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	39,674	0
Retail																										
Industrial Commercial	62,578	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	2,607	0
Ancillary Retail	37,423	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	1,559	0
Total Retail	100,001	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	0
Hotel/Conference	160,000	0	0	0	0	160,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Public/Nonprofit																										
UC Davis-Owned	115,428	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	0
Other Nonprofits	12,825	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	0
Total Public/Nonprofit	115.428	5.344	5.344	5.344	5.344	5,344	5.344	5.344	5.344	5,344	5.344	5.344	5.344	5.344	5,344	5.344	5.344	5.344	5,344	5,344	5,344	5.344	5.344	5.344	5,344	0

Source: City of Davis; Yolo 101 JV and R&B delta, LLc; Nishi Gateway; EPS.

[1] It is assumed that the Hotel/Conference land use will be developed in Year 5.

demand sf

Table A-3 City of Davis MRIC Land Economics Analysis Acreage Demanded Annually

	Total												A	cres Demande	d											
Land Use	(acres)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25
Office/Flex/R&D																										
Office	38.86	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	0.00
Flex: R&D/Office	26.81	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	0.00
Subtotal Office/Flex/R&D	65.67	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	0.00
Manufacturing	43.72	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	0.00
Retail																										
Industrial Commercial	4.10	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.00
Ancillary Retail	2.45	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.00
Subtotal Retail	6.56	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.00
Hotel/Conference	5.25	0.00	0.00	0.00	0.00	5.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public/Nonprofit																										
UC Davis-Owned	6.62	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.00
Other Nonprofits	0.74	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00
Subtotal Public/Nonprofit	7.36	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.00

Source: EPS.

demand acres

T-61- A 4
Table A-4
City of Davis
MRIC Land Economics Analysis
Land Sale and Absorption Schedule

														Acres Sold												
and Use	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 2
and Sales	Acres																									
Office/Flex/R&D																										
Office	38.86	0.00	0.00	4.72	0.00	4.72	0.00	0.00	4.72	0.00	4.72	0.00	0.00	4.00	0.00	4.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00	4.00	0.00	0.00
Flex: R&D/Office	26.81	0.00	0.00	0.00	5.40	0.00	0.00	0.00	5.40	0.00	0.00	4.00	0.00	0.00	0.00	4.00	0.00	0.00	4.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00
Subtotal Office/Flex/R&D	65.67	0.00	0.00	4.72	5.40	4.72	0.00	0.00	10.12	0.00	4.72	4.00	0.00	4.00	0.00	8.00	0.00	0.00	8.00	0.00	4.00	0.00	4.00	4.00	0.00	0.00
lanufacturing	43.72	0.00	0.00	4.93	0.00	4.93	0.00	4.93	0.00	4.93	0.00	4.00	0.00	0.00	4.00	0.00	4.00	0.00	4.00	0.00	4.00	0.00	4.00	0.00	0.00	0.00
Retail																										
Industrial Commercial	4.10	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Ancillary Retail	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Subtotal Retail	6.56	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	1.45	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
lotel/Conference	5.25	0.00	0.00	0.00	0.00	5.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Public/Nonprofit																										
UC Davis-Owned	6.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.62	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Nonprofits	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal Public/Nonprofit	7.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.36	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
otal Land Sold Annually	128.56	0.00	0.00	9.65	5.40	14.90	1.10	4.93	10.12	4.93	9.53	8.00	1.00	4.00	4.00	12.00	4.00	0.00	13.00	0.00	9.00	0.00	8.00	4.00	1.00	0.00
umulative Land Sold	.10.00	0.00	0.00	9.65	15.05	29.95	31.05	35.98	46.10	51.03	60.56	68.56	69.56	73.56	77.56	89.56	93.56	93.56	106.56	106.56	115.56	115.56	123.56	127.56	128.56	128.56
unulative Lanu 3010		0.00	0.00	3.05	13.05	23.95	51.05	33.90	40.10	51.05	00.00	00.00	03.30	13.30	11.30	09.00	53.30	53.30	100.00	100.00	113.30	113.30	123.00	127.30	120.00	120.00

Source: EPS.

land sales

		Land Use (Category				
Item	Office	Flex: R&D/Office	Industrial Commercial	Ancillary Retail	Public/Nonprofit Flex [1]	Manufacturing	Hotel/Conference
DEVELOPMENT PROGRAM ASSUMPTIONS							
Site Acres	38.9	26.8	4.1	2.5	7.4	43.7	5.
Floor Area Ratio Gross Building Area (Square Feet)	0.50 846,468	0.40 467,111	0.35 62,578	0.35 37,423	0.40 128,253	0.50 952,169	0.7 160,00
Efficiency Ratio	95%	95%	95%	95%	95%	100%	100,00
Gross Leasable Area (Square Feet)	804,145	443,755	59,449	35,552	121,840	952,169	
REVENUE ASSUMPTIONS							
Avg. Lease Rate/SF/Year (gross)	13.46 \$31.00	11.71 \$31.00	9.43 \$29.50	12.79 \$30.00	11.71 \$31.00		
Gross Potential Income/Year	\$24,928,483	\$13,756,419	\$1,753,748	\$1,066,556	\$3,777,051		
Less Vacancy	7.5%	7.5%	7.5%	7.5%	7.5%		
Effective Gross Income (EGI)	\$23,058,846	\$12,724,688	\$1,622,217	\$986,564	\$3,493,772 25.0%		
Less Operating Expenses (% of EGI) Total Operating Expenses	25.0% (\$5,764,712)	25.0% (\$3,181,172)	25.0% (\$405,554)	25.0% (\$246,641)	(\$873,443)		
Net Operating Income NOI/Gross Building Square Foot	\$17,294,135 <i>\$20.43</i>	\$9,543,516 <i>\$20.43</i>	\$1,216,663 <i>\$19.44</i>	\$739,923 \$19.77	\$2,620,329 \$2 <i>0.43</i>		
Capitalization Rate	6.75%	6.75%	6.75%	6.75%	6.75%		
Building Value	\$256,209,405	\$141,385,417	\$18,024,637	\$10,961,820	\$38,819,689		
Disposition Cost	3.0%	3.0%	3.0%	3.0%	3.0%		
Total Building Value Value/Gross Building Square Foot	\$248,523,122 \$293.60	\$137,143,854 \$293.60	\$17,483,898 \$279.39	\$10,632,966 <i>\$284.13</i>	\$37,655,099 <i>\$293.60</i>		
COST ASSUMPTIONS							
lard Costs							
Direct Building Construction Costs/Gross Building SF (shell + parking) Total Direct Building Construction Costs	\$140.00 \$118,505,520	\$140.00 \$65,395,540	\$140.00 \$8,760,920	\$132.50 \$4,958,548	\$140.00 \$17,955,420		
Direct Site Improvement and Intract Costs/Gross Building SF	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00		
Total Direct Site Improvement Costs	\$6,771,744	\$3,736,888	\$500,624	\$299,384	\$1,026,024		
Tenant Improvement Costs/GLA SF (net of tenant responsibility)	\$50.00	\$55.00	\$45.00 \$2.075.040	\$35.00	\$55.00 \$C 704 240		
Total Tenant Improvement Costs	\$40,207,230 \$165,484,494	\$24,406,550 \$93,538,978	\$2,675,210 \$11,936,754	\$1,244,315 \$6,502,246	\$6,701,219 \$25,682,663		
oft Costs					. , ,		
Marketing/Leasing (6% of Hard Costs)	\$9,929,070	\$5,612,339	\$716,205	\$390,135	\$1,540,960		
Other Soft Costs as % of Hard Costs	19.0%	19.0%	19.0%	19.0%	19.0%		
Total Other Soft Costs	\$31,442,054	\$17,772,406	\$2,267,983	\$1,235,427	\$4,879,706		
Fotal Soft Costs	\$41,371,124	\$23,384,744	\$2,984,188	\$1,625,562	\$6,420,666		
Permit, Development Impact, and CFD Fees All Payments and Fees (per SF)	\$22.30	\$14.02	\$14.02	\$30.41	\$14.02	\$14.02	\$30.4
otal Payments/Gross Building SF	\$18,876,464	\$6,549,022	\$877,360	\$1,137,856	\$1,798,142	•	•
Total Costs Cost/Gross Building Square Foot	\$225,732,081.44 \$266.68	\$123,472,743.97 \$264.33	\$15,798,302.26 \$252.46	\$9,265,664.19 \$247.59	\$33,901,470.60 \$264.33		
	<i>\$</i> 200.00	φ204.33	<i>\$</i> 202. 1 0	φ247.00	<i>\$</i> 204.00		
		•					
Residual Land Value (Total Building Value less Total Costs) Per Acre	\$22,791,041 \$586, <i>4</i> 24	\$13,671,111 <i>\$509,955</i>	\$1,685,595 <i>\$410,665</i>	\$1,367,302 <i>\$557,034</i>	\$3,753,628 \$509,955		
Per SF of Land	\$386,424 \$13.46	۶۵09,955 \$11.71	\$410,665 \$9.43	۵۵۶7,034 \$12.79	۶۵۵۹,955 \$11.71		
Comparable Land Sales		4	A	a	,	A	.
Per Acre Per SF of Land	\$501,303 \$11.51	\$501,303 \$11.51	\$501,303 \$11.51	\$501,303 \$11.51	\$501,303 \$11.51	\$435,600 \$10.00	\$653,400 \$15.00
Active Assumption Used Assumption Used (RLV or CLS)	RLV	RLV	RLV	RLV	RLV	CLS	CLS
Per Acre	\$586,424	\$509,955	\$410,665	\$557,034	\$509,955	\$435,600	\$653,400
	۵۵۵,424 \$13.46	ຈວ09,9ວວ \$11.71	\$410,665 \$9.43	557,034 \$12.79	ە509,955 \$11.71	¢435,600 \$10.00	۵۵3,400 \$15.00

Source: City of Davis; MRIC Project Applicant; EPS

For Public/Nonprofit land uses, UC Davis and other nonprofits are assumed to be tenants in market-rate Flex: R&D/Office buildings.
 Manufacturing land sale equated to be highly variable depending on specific property attributes. Land Value of \$10 per square foot used to maintain consistency/fungibility with other uses. Hotel land value based on a

Table A-6 City of Davis MRIC Land Economics Analysis Revenue from Land Sales

	Finished														Value of Acres	Sold											
d Use	Land Value	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 2
	Table A-5																										
fice/Flex/R&D	Per Acre																										
Office	\$586,424	\$22,791,041	\$0	\$0	\$2,765,642	\$0	\$2,765,642	\$0	\$0	\$2,765,642	\$0	\$2,765,642	\$0	\$0	\$2,345,695	\$0	\$2,345,695	\$0	\$0	\$2,345,695	\$0	\$2,345,695	\$0	\$0	\$2,345,695	\$0	9
Flex: R&D/Office	\$509,955	\$13,671,111	\$0	\$0	\$0	\$2,755,918	\$0	\$0	\$0	\$2,755,918	\$0	\$0	\$2,039,819	\$0	\$0	\$0	\$2,039,819	\$0	\$0	\$2,039,819	\$0	\$0	\$0	\$2,039,819	\$0	\$0	\$
Subtotal Office/Flex/R&D		\$36,462,151	\$0	\$0	\$2,765,642	\$2,755,918	\$2,765,642	\$0	\$0	\$5,521,560	\$0	\$2,765,642	\$2,039,819	\$0	\$2,345,695	\$0	\$4,385,513	\$0	\$0	\$4,385,513	\$0	\$2,345,695	\$0	\$2,039,819	\$2,345,695	\$0	\$
lanufacturing	\$435,600	\$19,043,380	\$0	\$0	\$2,147,245	\$0	\$2,147,245	\$0	\$2,147,245	\$0	\$2,147,245	\$0	\$1,742,400	\$0	\$0	\$1,742,400	\$0	\$1,742,400	\$0	\$1,742,400	\$0	\$1,742,400	\$0	\$1,742,400	\$0	\$0	\$
etail																											
Industrial Commercial	\$410,665	\$1,685,595	\$0	\$0	\$0	\$0	\$0	\$453,601	\$0	\$0	\$0	\$0	\$0	\$410,665	\$0	\$0	\$0	\$0	\$0	\$410,665	\$0	\$0	\$0	\$0	\$0	\$410,665	\$
Ancillary Retail	\$557.034	\$1,367,302	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$810,268	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$557,034	\$0	\$0	\$0	\$0	\$
Subtotal Retail		\$3,052,897	\$0	\$0	\$0	\$0	\$0	\$453,601	\$0	\$0	\$0	\$810,268	\$0	\$410,665	\$0	\$0	\$0	\$0	\$0	\$410,665	\$0	\$557,034	\$0	\$0	\$0	\$410,665	\$
lotel/Conference	\$653,400	\$3,430,350	\$0	\$0	\$0	\$0	\$3,430,350	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$
ublic/Nonprofit																											
UC Davis-Owned	\$509,955	\$3,378,274	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,338,455	\$0	\$0	\$0	\$0	\$2,039,819	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$
Other Nonprofits	\$509,955	\$375,354	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$375,354	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$
Total Public/Nonprofit		\$3,753,628	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,713,809	\$0	\$0	\$0	\$0	\$2,039,819	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$
otal		\$61,988,779	\$0	\$0	\$4,912,887	\$2,755,918	\$8,343,237	\$453,601	\$2.147.245	\$5,521,560	\$2,147,245	\$5,289,719	\$3,782,219	\$410,665	\$2.345.695	\$1,742,400	\$6,425,332	\$1,742,400	\$0	\$6,538,578	\$0	\$4,645,129	\$0	\$3,782,219	\$2,345,695	\$410,665	\$

Source: EPS.

land revenue

Table A-7 City of Davis MRIC Land Economics Analysis Projected Master Developer Cash Flow: Base Case

Item	Assumption	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25
COSTS																											
Land and Predevelopment Costs [1]		(\$11,400,000)	(\$7,400,000)	(\$4,000,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Infrastructure and Site Preparation Backbone Infrastructure (per developable acre) [1] Subtotal Infrastructure and Site Prep Costs (Unir		(\$56,902,000) (\$56,902,000)	(\$22,586,000) (\$22,586,000)		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$34,316,000) (\$34,316,000)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Misc. Master Developer Project Admin./Pursuit C	Costs [1] 5% of above costs	(\$3,415,100)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)
Open Space and Privitized Street Maintenance																											
Open Space Maintenance [2] Street Maintenance [3] Priva	vatized? no	(\$3,066,212) \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$18,018) \$0	(\$18,018) \$0	(\$60,551) \$0	(\$62,556) \$0	(\$71,764) \$0	(\$80,574) \$0	(\$104,073) \$0	(\$116,411) \$0	(\$125,004) \$0	(\$125,004) \$0	(\$139,948) \$0	(\$147,420) \$0	(\$154,892) \$0	(\$163,485) \$0	(\$172,825) \$0	(\$187,769) \$0	(\$195,241) \$0	(\$210,186) \$0	(\$218,779) \$0	(\$226,251) \$0	(\$233,723)	(\$233,723) \$0
Subtotal Maintenance Costs (Uninflated)	10	(\$3,066,212)	\$0 \$0	\$0	\$0	(\$18,018)	**	(\$60,551)	(\$62,556)	(\$71,764)	(\$80,574)	+-	(\$116,411)	(\$125,004)	(\$125,004)	(\$139,948)	(\$147,420)	+-	(\$163,485)	(\$172,825)	(\$187,769)	(\$195,241)	(\$210,186)	**	+-	(\$233,723)	
Total Costs (Uninflated)		(\$74,783,312)	(\$30,122,604)	(\$4,136,604)	(\$136,604)	(\$154,622)	(\$154,622)	(\$197,155)	(\$199,160)	(\$208,368)	(\$217,178)	(\$34,556,677)	(\$253,015)	(\$261,608)	(\$261,608)	(\$276,552)	(\$284,024)	(\$291,496)	(\$300,089)	(\$309,429)	(\$324,373)	(\$331,845)	(\$346,790)	(\$355,383)	(\$362,855)	(\$370,327)	(\$370,327)
Total Costs Inflated	3% inflation	(\$88,916,116)	(\$30,122,604)	(\$4,260,702)	(\$144,923)	(\$168,960)	(\$174,029)	(\$228,557)	(\$237,807)	(\$256,266)	(\$275,114)	(\$45,088,625)	(\$340,030)	(\$362,126)	(\$372,990)	(\$406,126)	(\$429,612)	(\$454,141)	(\$481,555)	(\$511,439)	(\$552,224)	(\$581,893)	(\$626,341)	(\$661,116)	(\$695,267)	(\$730,872)	(\$752,798)
Tax Payments on CFD Bonds																											
Phase 1 CFD Bonds		(0.10.0.11.000)	A 2	(0004 470)	(0015 005)	(0007.005)	(*********	(0050.040)	(0005 704)		(0000 505)	(*****	(*****	(070 4 000)	(07.40.000)	(0704.004)	(\$770.075)	(0705 57 ()	(0044.400)	(0007 740)	(0044070)	(0004 455)	(0070.070)	(0005 0 10)	(0010.005)	(0000.4.40)	(0050 705)
Total Tax Payments on Phase 1 Bonds [4] Phase 1 Bond Payments paid by Landbuyers	2% escalation	(\$18,041,268) \$16,016,920	\$0 \$0	(\$301,473) \$0	(\$615,005) \$116,248	(\$627,305) \$185,008	(\$639,851) \$375,483	(\$652,648) \$397,120	(\$665,701) \$469,369	(\$679,015) \$613,422	(\$692,595) \$692,595	(\$706,447) \$706,447	(\$720,576) \$720,576	(\$734,988) \$734,988	(\$749,688) \$749,688	(\$764,681) \$764,681	(\$779,975) \$779,975	(\$795,574) \$795,574	(\$811,486) \$811,486	(\$827,716) \$827,716	(\$844,270) \$844,270	(\$861,155) \$861,155	(\$878,378) \$878,378	(\$895,946) \$895,946	(\$913,865) \$913,865	(\$932,142) \$932,142	
Phase 1 Payments paid by Master Developer	r	(\$2,024,348)	\$0	(\$301,473)	(\$498,757)	(\$442,297)	(\$264,368)	(\$255,528)	(\$196,332)	(\$65,593)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Phase 2 CFD Bonds Total Tax Payments on Phase 2 Bonds [4]	2% escalation	(\$14,242,251)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$424,043)	(\$865,047)	(\$882,348)	(\$899,995)	(\$917,995)	(\$936,355)	(\$955,082)	(\$974,184)	(\$993.667)	(\$1 013 541)	(\$1.033.811)	(\$1 054 488)	(\$1,075,577)	(\$1 097 089)	(\$1,119,031)
Phase 2 Bond Payments paid by Landbuyers Phase 2 Payments paid by Master Developer		\$9,738,690 (\$4,503,562)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$95,885 (\$328,158)	\$206,762 (\$658,285)	\$256,419 (\$625,929)	\$307,980 (\$592,015)	\$456,223 (\$461,771)	\$513,656 (\$422,698)	\$523,929 (\$431,152)	\$697,753 (\$276,430)	\$711,708 (\$281,959)	\$843,596 (\$169,944)	\$860,468 (\$173,343)	\$986,484 (\$68,004)	\$1,061,705 (\$13,873)	\$1,097,089 \$0	
Total Bond Payments paid by Master Developer		(\$6,527,910)	\$0	(\$301,473)	(\$498,757)	(\$442,297)	(\$264,368)	(\$255,528)	(\$196,332)	(\$65,593)	\$0	\$0	(\$328,158)	(\$658,285)	(\$625,929)	(\$592,015)	(\$461,771)	(\$422,698)	(\$431,152)	(\$276,430)	(\$281,959)	(\$169,944)	(\$173,343)	(\$68,004)	(\$13,873)	\$0	\$0
REVENUES																											
Bond and Fee Proceeds																											
CFD Bond Proceeds Development Impact Fee Reimbursements		\$15,139,000 \$7,147,406	\$6,293,000 \$0		\$0 \$546,823	\$0 \$111,584	\$0 \$1,990,852	\$0 \$19,955	\$0 \$127,224	\$0 \$531,183	\$0 \$127,224	\$8,846,000 \$689,037	\$0 \$185,827	\$0 \$18,067	\$0 \$355,885	\$0 \$103,237	\$0 \$521,065	\$0 \$103,237	\$0 \$0	\$0 \$559,779	\$0 \$0	\$0 \$596,649	\$0 \$0	\$0 \$185,827	\$0 \$355,885	\$0 \$18,067	\$0 \$0
	ncluded? no	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$030,043 \$0	\$0	\$0	\$0	\$0	\$0
Total Proceeds from Bonds and Fees		\$22,286,406	\$6,293,000	\$0	\$546,823	\$111,584	\$1,990,852	\$19,955	\$127,224	\$531,183	\$127,224	\$9,535,037	\$185,827	\$18,067	\$355,885	\$103,237	\$521,065	\$103,237	\$0	\$559,779	\$0	\$596,649	\$0	\$185,827	\$355,885	\$18,067	\$0
Gross Land Sale Revenues		\$65,742,407	\$0	\$0	\$4,912,887	\$2,755,918	\$8,343,237	\$453,601	\$2,147,245	\$5,521,560	\$2,147,245	\$5,289,719	\$3,782,219	\$410,665	\$2,345,695	\$1,742,400	\$6,425,332	\$1,742,400	\$0	\$6,538,578	\$0	\$4,645,129	\$0	\$3,782,219	\$2,345,695	\$410,665	\$0
Selling Costs at 3.0% of Land Value Closing Costs at 1.0% of Land Value		(\$1,972,272) (\$657,424)	\$0 \$0		(\$147,387) (\$49,129)	(\$82,678) (\$27,559)		(\$13,608) (\$4,536)	(\$64,417) (\$21,472)	(\$165,647) (\$55,216)	(\$64,417) (\$21,472)	(\$158,692) (\$52,897)	(\$113,467) (\$37,822)	(\$12,320) (\$4,107)	(\$70,371) (\$23,457)	(\$52,272) (\$17,424)	(\$192,760) (\$64,253)	(\$52,272) (\$17,424)	\$0 \$0	(\$196,157) (\$65,386)	\$0 \$0	(\$139,354) (\$46,451)	\$0 \$0	(\$113,467) (\$37,822)	(\$70,371) (\$23,457)	(\$12,320) (\$4,107)	
Net Land Sale Revenues		\$63,112,710	\$0		\$4,716,371	\$2,645,681	\$8,009,507	\$435,457	\$2,061,355	\$5,300,697	\$2,061,355	\$5,078,130	\$3,630,930	\$394,238	\$2,251,867	\$1,672,704	\$6,168,319	\$1,672,704	\$0	\$6,277,035		\$4,459,323	\$0	\$3,630,930	\$2,251,867	\$394,238	\$0
Total Revenues (Uninflated)		\$63,112,710	\$6,293,000	\$0	\$5,263,195	\$2,757,265	\$10,000,359	\$455,412	\$2,188,579	\$5,831,880	\$2,188,579	\$14,613,167	\$3,816,757	\$412,305	\$2,607,752	\$1,775,941	\$6,689,383	\$1,775,941	\$0	\$6,836,814	\$0	\$5,055,972	\$0	\$3,816,757	\$2,607,752	\$412,305	\$0
Total Revenues Inflated	3% inflation	\$116,286,115	\$6,293,000	\$0	\$5,583,723	\$3,012,938	\$11,255,493	\$527,947	\$2,613,278	\$7,172,477	\$2,772,427	\$19,066,868	\$5,129,402	\$570,726	\$3,718,031	\$2,608,030	\$10,118,293	\$2,766,859	\$0	\$11,300,211	\$0	\$8,865,678	\$0	\$7,100,292	\$4,996,723	\$813,719	\$0
NET PROJECT CASH FLOW (INFLATED)		\$20,842,089	(\$23,829,604)	(\$4,562,175)	\$4,940,043	\$2,401,682	\$10,817,096	\$43,862	\$2,179,139	\$6,850,618	\$2,497,313	(\$26,021,757)	\$4,461,214	(\$449,685)	\$2,719,113	\$1,609,889	\$9,226,910	\$1,890,019	(\$912,707)	\$10,512,342	(\$834,183)	\$8,113,841	(\$799,684)	\$6,371,172	\$4,287,583	\$82,847	(\$752,798)
Internal Rate of Return IRR [5]	project IRR	4.78%																									
NPV at 10% [6]	project total	(\$9,769,871)																									
	per developable acre	(\$75,996)																									
	per developable square foot	(\$1.74)																									
NPV at 12% [6]	project total	(\$11,893,570)																									
	and the tr																										
	per developable acre per developable square foot	(\$92,515) (\$2.12)																									
NPV at 14% [6]	per developable square foot	(\$2.12)																									
NPV at 14% [6]	<i>p</i> · · · · · <i>p</i> · · · · · ·	,																									

Source: MRIC Project Applicant; EPS

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Table A-8 City of Davis MRIC Land Economics Analysis CFD Taxing Capacity Calculation

		Building SF	CFD Taxing	l	Phase 1	l	Phase 2
Land Use	FAR	per acre	Capacity per acre	Site Acres	Taxing Capacity	Site Acres	Taxing Capacity
CFD Rate per Building SF	\$0.54						
Office	0.50	21,780	\$11,674	14.15	\$165,168	24.72	\$288,536
Flex R&D	0.40	17,424	\$9,339	10.81	\$100,943	16.00	\$149,427
Manufacturing	0.50	21,780	\$11,674	19.72	\$230,183	24.00	\$280,176
Retail Light Industrial	0.35	15,246	\$8,172	1.10	\$9,026	3.00	\$24,515
Ancillary Retail	0.35	15,246	\$8,172	0.00	\$0	2.45	\$20,059
Hotel	0.70	30,492	\$16,344	5.25	\$85,804	0.00	\$0
Public/nonprofit	0.40	17,424	\$9,339	0.00	\$0	7.36	\$68,743
Total				51.03	\$591,124	77.53	\$831,456

Source: EPS

cfd capacity

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Table A-9 City of Davis MRIC Land Economics Analysis Estimated CFD Bond Sizing at Buildout

Item	Assumption	Phase 1	Phase 2
Assumptions			
Interest Rate		6.00%	6.00%
Term		30 years	30 years
Annual Tax Escalation		2.00%	2.00%
Maximum Special Taxes			
Project Total		\$591,124	\$831,456
Estimated Annual Maximum Special Taxes		\$591,124	\$831,456
Less Estimated Administration Costs	5%	(\$29.556)	(\$41.573)
Less Delinquency Coverage	10%	(\$59,112)	(\$83,146)
Adjustment for Rounding		(\$455)	\$262
Estimated Maximum Special Taxes Available			
for Gross Debt Service (Rounded)		\$502,000	\$707,000
Bond Size			
Total Bond Size		\$6,910,000	\$9,732,000
Adjustment for Rounding		(\$10,000)	(\$32,000)
Total Bond Size (Rounded)		\$6,900,000	\$9,700,000
Increase for Annual Tax Escalation [2]	20%	\$1,380,000	\$1,940,000
Total Bond Size (Rounded)		\$8,280,000	\$11,640,000
Estimated Bond Proceeds			
Rounded Bond Proceeds		\$8,280,000	\$11,640,000
Less Capitalized Interest [3]	18 months	(\$745,000)	(\$1,048,000)
Less Bond Reserve Fund	10%	(\$828,000)	(\$1,164,000)
Less Issuance Cost	5.0%	(\$414,000)	(\$582,000)
Estimated Bond Proceeds		\$6,293,000	\$8,846,000
Bond Proceeds Back to Project	100%	\$6,293,000	\$8,846,000
			CFD bond sizi

CFD bond sizing

Table A-10 City of Davis MRIC Land Economics Analysis Light Industrial Development Infrastructure Burden Comparison

		Davis		West Sacr	amento	Folsom	Roseville	Vacaville
	Base	South	Mace	Riverside Centre	· · · · ·	Broadstone	Westpark	VacaValley
Item	(no CFD)	(Interland)	(MRIC)	Business Park	Southport	Unit III	(Phase 4)	Industrial Park
Assumptions								
Building Valuation	\$22,554,000	\$22,554,000	\$22,554,000	\$22,554,000	\$22,554,000	\$22,554,000	\$22,554,000	\$22,554,000
Building Square Feet	350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000
Acres	20	20	20	20	20	20	20	20
Floor Area Ratio	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
City/County Fees per Sq. Ft.								
Processing Fees per Sq. Ft. [1]								
Building Permit	\$0.41	\$0.41	\$0.41	\$0.30	\$0.30	\$0.33	\$0.14	\$0.17
Plan Check	\$0.27	\$0.27	\$0.27	\$0.24	\$0.24	\$0.33	\$0.15	\$0.15
Energy	-	-	-	\$0.00	\$0.00	-	-	\$0.04
Technology Surcharge	-	-	-	\$0.04	\$0.04	-	\$0.01	-
Seismic/Strong Motion	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02
California Building Standards Commission Fee	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Fire Review Fee	\$0.07	\$0.07	\$0.07	\$0.00	\$0.00	-	-	\$0.03
Long Range Planning Fee	\$0.13	\$0.13	\$0.13	-	-	-	-	-
Construction Tax	\$3.10	\$3.10	\$3.10	-	-	-	-	-
CAL Green Fee	\$0.03	\$0.03	\$0.03	-	-	-	-	-
Commercial Plan Check	-	-	-	-	-	\$0.03	-	-
General Plan Update Fee	-	-	-	-	-	\$0.02	-	-
Landscape Plan Fee	-	-	-	-	-	-	-	\$0.08
Total Processing Fees per Sq. Ft.	\$4.03	\$4.03	\$4.03	\$0.61	\$0.61	\$0.72	\$0.32	\$0.49
Development Impact Fees per Sq. Ft.					• • •		• • • •	
Sewer	\$0.77	\$0.77	\$0.77	\$0.49	\$0.67	\$0.53	\$2.46	\$0.77
Water [2]	\$0.85	\$0.85	\$0.85	\$0.72	\$0.72	\$0.52	\$0.83	\$1.74
Traffic/Roadways/Transportation (Local and Regional)	\$0.48	\$0.41	\$0.41	\$11.27	\$15.17	\$4.77	\$4.30	\$2.76
Drainage	\$0.12	\$0.12	\$0.12	-	\$2.53	\$0.32	\$0.32	\$0.48
School	\$0.47	\$0.47	\$0.47	\$0.54	\$0.54	\$0.54	\$0.50	\$0.33
Parks/Open Space	\$0.22	\$0.22	\$0.22	\$0.88	\$0.88	\$0.36	-	-
Fire/Police	\$0.28	\$0.27	\$0.26	\$0.92	\$0.92	\$1.04	\$0.32	\$0.27
In-Lieu Flood Protection Fees	-	-	-	\$1.32	\$1.32	-	-	-
Housing Trust Fund	-	-	-	-	-	\$1.35	-	-
Habitat/Greenbelt Preservation	\$0.49	\$0.49	\$0.49	-	-	-	-	-
Capital Improvements/Public Facilities	\$0.24	\$0.24	\$0.23	-	-	\$0.45	\$0.42	\$0.21
Other General Fees/One-Time Taxes [3]	-	-	-	\$0.78	\$0.78	\$0.02	\$1.48	-
Countywide Fee	\$0.40	\$0.40	\$0.40	-	-	-	\$0.25	\$0.60
Total Development Impact Fees per Sq. Ft.	\$4.33	\$4.25	\$4.23	\$16.91	\$23.52	\$9.90	\$10.88	\$7.17
Total City/County Fees	\$8.36	\$8.28	\$8.26	\$17.52	\$24.13	\$10.62	\$11.19	\$7.66

Table A-10 City of Davis MRIC Land Economics Analysis Light Industrial Development Infrastructure Burden Comparison

Item	Davis			West Sacramento		Folsom	Roseville	Vacaville
	Base (no CFD)	South (Interland)	Mace (MRIC)	Riverside Centre Business Park	Southport	Broadstone Unit III	Westpark (Phase 4)	VacaValley Industrial Park
Assumptions								
Building Valuation	\$22,554,000	\$22,554,000	\$22,554,000	\$22,554,000	\$22,554,000	\$22,554,000	\$22,554,000	\$22,554,000
Building Square Feet	350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000
Acres	20	20	20	20	20	20	20	20
Floor Area Ratio	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Plan Area Fees [4]	-	-	-	-	\$0.02	-	\$0.03	\$0.00
Annual Special Taxes and Assessments			.		.	.		
Infrastructure CFD	-	\$0.86	\$5.76	-	\$3.58	\$2.15	\$2.68	-
Infrastructure Assessment District	-	-	-	\$0.16	-		-	\$0.11
School CFD	\$1.13	\$1.13	-	-	-	-	-	-
West Sacramento Area Flood Control	-	-	-	\$0.72	\$0.72	-	-	-
Total Annual Special Taxes and Assessments	\$1.13	\$1.99	\$5.76	\$0.88	\$4.30	\$2.15	\$2.68	\$0.11
Total Fees per Sq. Ft.	\$9.49	\$10.27	\$14.02	\$18.40	\$28.45	\$12.77	\$13.90	\$7.77
Fees per Acre	\$166,097	\$179,742	\$245,346	\$321,987	\$497,851	\$223,463	\$243,272	\$135,982

Source: City of Davis; City of Roseville; City of West Sacramento; Yolo County; EPS.

[1] Processing fees exclude mechanical, electrical, plumbing and other similar review fees.

[2] Assumes two 4-inch water meters.

[3] Roseville: Includes the electric installation fee and solid waste fee. West Sacramento: Includes the corp yard, city hall, and childcare impact fees.

Folsom: Includes solid waste capital fee, school impact mitigation fee, and business license fee.

[4] Westpark: West Roseville Specific Plan air quality program fee. Southport: Southport framework plan area fee.

ind fees

Page 2 of 2

Table A-11 City of Davis MRIC Land Economics Analysis Office/Business Park Development Infrastructure Burden Comparison

ltem	Davis			West Sacramento		Folsom	Roseville	Vacaville
	Base (no CFD)	South (Interland)	Mace (MRIC)	Riverside Centre Business Park	Southport	Broadstone Unit III	North Central	VacaValley Business Park
Assumptions								
Building Valuation	\$9,282,000	\$9,282,000	\$9,282,000	\$9,282,000	\$9,282,000	\$9,282,000	\$9,282,000	\$9,282,00
Building Square Feet	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,00
Acres	5	5	5	5	5	5	5	
Floor Area Ratio	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.3
City/County Fees per Sq. Ft.								
Processing Fees per Sq. Ft. [1]								
Building Permit	\$0.83	\$0.83	\$0.83	\$0.59	\$0.59	\$0.63	\$0.28	\$0.3
Plan Check	\$0.54	\$0.54	\$0.54	\$0.49	\$0.49	\$0.63	\$0.31	\$0.3
Energy	-	-	-	\$0.00	\$0.00	-	-	\$0.
Technology Surcharge	-	-	-	\$0.09	\$0.09	-	\$0.02	
Seismic/Strong Motion	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.
California Building Standards Commission Fee	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0
Fire Review Fee	\$0.13	\$0.13	\$0.13	\$0.00	\$0.00	-	-	\$0
Long Range Planning Fee	\$0.25	\$0.25	\$0.25	-	-	-	-	
Construction Tax	\$3.10	\$3.10	\$3.10	-	-	-	-	
CAL Green Fee	\$0.07	\$0.07	\$0.07	-	-	-	-	
Commercial Plan Check	-	-	-	-	-	\$0.06	-	
General Plan Update Fee	-	-	-	-	-	\$0.04	-	
Landscape Plan Fee	-	-	-	-	-	-	-	\$0
Total Processing Fees per Sq. Ft.	\$4.96	\$4.96	\$4.96	\$1.21	\$1.21	\$1.41	\$0.65	\$0
Development Impact Fees per Sq. Ft.	A	• ·	• · -•	• · · · ·	• · · · ·			
Sewer	\$1.53	\$1.53	\$1.53	\$1.30	\$1.66	\$1.03	\$2.46	\$2
Water [2]	\$1.28	\$1.28	\$1.28	\$1.08	\$1.08	\$0.76	\$1.02	\$3
Traffic/Roadways/Transportation (Local and Regional)	\$5.19	\$4.48	\$4.38	\$10.76	\$14.49	\$5.22	\$7.51	\$3
Drainage [3]	\$0.12	\$0.12	\$0.12	-	\$3.11	\$0.38	\$0.37	\$0
School	\$0.47	\$0.47	\$0.47	\$0.54	\$0.54	\$0.54	\$0.50	\$0
Parks/Open Space	\$0.86	\$0.86	\$0.86	\$2.04	\$2.04	\$0.36	-	
Fire/Police	\$1.08	\$0.93	\$0.82	\$2.29	\$2.29	\$1.48	\$0.62	\$0
In-Lieu Flood Protection Fees	-	-	-	\$2.75	\$2.75	-	-	
Housing Trust Fund	-	-	-	-	-	\$1.50	-	
Habitat/Greenbelt Preservation	\$0.58	\$0.58	\$0.58	-	-	-	-	
Capital Improvements/Public Facilities	\$0.93	\$0.86	\$0.82	-	-	\$0.45	\$0.83	\$0.
Other General Fees/One-Time Taxes [4]	- •	- *0 - 0	- #0.70	\$2.08	\$2.08	\$0.10	\$1.17	* 4
Countywide Fee	\$0.72	\$0.72	\$0.72	- *~~ ~=	-	-	\$0.50	\$1.
Total Development Impact Fees per Sq. Ft.	\$12.76	\$11.83	\$11.58	\$22.85	\$30.04	\$11.83	\$14.98	\$12.0
Fotal City/County Fees	\$17.72	\$16.79	\$16.54	\$24.06	\$31.25	\$13.24	\$15.63	\$12.9

Table A-11 City of Davis MRIC Land Economics Analysis Office/Business Park Development Infrastructure Burden Comparison

ltem	Davis			West Sacramento		Folsom	Roseville	Vacaville
	Base (no CFD)	South (Interland)	Mace (MRIC)	Riverside Centre Business Park	Southport	Broadstone Unit III	North Central	VacaValley Business Park
Assumptions								
Building Valuation	\$9,282,000	\$9,282,000	\$9,282,000	\$9,282,000	\$9,282,000	\$9,282,000	\$9,282,000	\$9,282,000
Building Square Feet	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000
Acres	5	5	5	5	5	5	5	5
Floor Area Ratio	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
Plan Area Fees [5]	-	-	-	-	\$0.03	-	-	-
Annual Special Taxes and Assessments								
Infrastructure CFD	-	\$0.86	\$5.76	-	\$5.75	\$2.15	\$4.05	-
Infrastructure Assessment District	-	-	-	\$0.19	-		-	\$0.10
School CFD	\$1.21	\$1.21	-	-	-	-	-	-
West Sacramento Area Flood Control	-	-	-	\$0.86	\$0.86	-	-	-
Total Annual Special Taxes and Assessments	\$1.21	\$2.07	\$5.76	\$1.05	\$6.61	\$2.15	\$4.05	\$0.10
Total Fees per Sq. Ft.	\$18.93	\$18.87	\$22.30	\$25.11	\$37.89	\$15.39	\$19.68	\$13.04
Fees per Acre	\$284,001	\$282,976	\$334,555	\$376,591	\$568,310	\$230,826	\$295,140	\$195,588

Source: City of Davis; City of Roseville; City of West Sacramento; Yolo County; EPS.

[1] Processing fees exclude mechanical, electrical, plumbing and other similar review fees.

[2] Assumes two 2-inch water meters.

[3] Vacaville: Assumes development occurs in drainage detention Zone 1A, which does not pay a drainage detention zone fee.

[4] <u>Roseville</u>: Includes the electric installation fee and solid waste fee. <u>West Sacramento</u>: Includes the corp yard, city hall, and childcare impact fees.

Folsom: Includes solid waste capital fee, school impact mitigation fee, and business license fee.

[5] <u>Southport:</u> Southport framework plan area fee.

of fees

Table A-12 City of Davis MRIC Land Economics Analysis Development Impact Fee Reimbursements

Land Use	Development Impact Fees Reimbursed [1]	50% Reimbursed to Project	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25
Office/Flex/R&D Office	\$8.17	\$4.09	\$3,457,822	\$0	\$0	\$419,599	\$0	\$419,599	\$0	\$0	\$419,599	\$0	\$419,599	\$0	\$0	\$355,885	\$0	\$355,885	\$0	\$0	\$355,885	\$0	\$355,885	\$0	\$0	\$355,885	\$0	\$0
Flex: R&D/Office Subtotal Office/Flex/R&D	\$2.37	\$1.19	\$553,527 \$4,011,348	\$0 \$0	\$0 \$0	\$0 \$419,599	\$111,584 \$111,584	\$0 \$419,599	\$0 \$0	\$0 \$0	\$111,584 \$531,183	\$0 \$0	\$0 \$419,599	\$82,590 \$82,590	\$0 \$0	\$0 \$355,885	\$0 \$0	\$82,590 \$438,475	\$0 \$0	\$0 \$0	\$82,590 \$438,475	\$0 \$0	\$0 \$355,885	\$0 \$0	\$82,590 \$82,590	\$0 \$355,885	\$0 \$0	\$0 \$0
Manufacturing	\$2.37	\$1.19	\$1,128,320	\$0	\$0	\$127,224	\$0	\$127,224	\$0	\$127,224	\$0	\$127,224	\$0	\$103,237	\$0	\$0	\$103,237	\$0	\$103,237	\$0	\$103,237	\$0	\$103,237	\$0	\$103,237	\$0	\$0	\$0
Retail																												
Industrial Commercial	\$2.37	\$1.19	\$74,155	\$0	\$0	\$0	\$0	\$0	\$19,955	\$0	\$0	\$0	\$0	\$0	\$18,067	\$0	\$0	\$0	\$0	\$0	\$18,067	\$0	\$0	\$0	\$0	\$0	\$18,067	\$0
Ancillary Retail [2]	\$18.04	\$9.02	\$337,574	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200,048	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$137,527	\$0	\$0	\$0	\$0	\$0
Subtotal Retail			\$411,729	\$0	\$0	\$0	\$0	\$0	\$19,955	\$0	\$0	\$0	\$200,048	\$0	\$18,067	\$0	\$0	\$0	\$0	\$0	\$18,067	\$0	\$137,527	\$0	\$0	\$0	\$18,067	\$0
Hotel/Conference [2]	\$18.04	\$9.02	\$1,444,029	\$0	\$0	\$0	\$0	\$1,444,029	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Public/Nonprofit [3]																												
UC Davis-Owned	\$2.37 \$2.37	\$1.19	\$136,782	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$54,192	\$0	\$0	\$0	\$0	\$82,590	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Nonprofits	\$2.37	\$1.19	\$15,198	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,198	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Public/Nonprofit				\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$69,390	\$0	\$0	\$0	\$0	\$82,590	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Estimated																												
Development Impact Fee Reimburseme	nts		\$7,147,406	\$0	\$0	\$546,823	\$111,584	\$1,990,852	\$19,955	\$127,224	\$531,183	\$127,224	\$689,037	\$185,827	\$18,067	\$355,885	\$103,237	\$521,065	\$103,237	\$0	\$559,779	\$0	\$596,649	\$0	\$185,827	\$355,885	\$18,067	\$0
																											DI	= reimbursements

Source: City of Davis; EPS

It is assumed that the Sewer, Water, Roads, Parks, and Drainage Development Impact Fees are eligible for reimbursements back into the project. Refer to Table A-10 and Table A-11 for a detailed outline of specific Development Impact Fees.
 Ancillary Retail and Hotel land uses are considered to be in the "Other Retail" category according to the City of Davis Fee Schedule.
 For Public/Nonprofit land uses, UC Davis and other nonprofits are assumed to be tenants in market-rate Flex: R&D/Office buildings, categorized in this analysis under the light industrial fee schedule.

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DIF reimbursements

APPENDIX B:

Sensitivity Analysis

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Table B-1 City of Davis MRIC Land Economics Analysis Base Case and Sensitivity Analysis Scenarios: IRR Results and Descriptions

So	enario	IRR	Notes
	Note: All scenarios reflect change from	Base Ca	se (Scenario A)
A	Base Case (BC)	4.78%	Excludes EIFD
В	EIFD Funding	7.26%	Base Case including EIFD funding
С	Reduced Land Value	3.69%	Uses lower of either computed residual land value or land sale comparable
D	Lower CFD	4.36%	Reduces maximum tax rate by 50% to \$0.27/SF of building
Е	Reduced Fee Reimbursements	3.69%	Reduces percentage of eligible development impact fee reimbursed to master developer from 50% to 25% [1]
F	Reduced Infrastructure Costs	6.88%	Reduces infrastructure costs by 10%
G	Additional Mitigation	4.08%	Reflects additional predevelopment costs of \$2.0 million [2]
н	Privitized Street Maintenance	4.13%	Reflects fiscal scenario shifting street maintenance away from City.

Source: EPS

scenario descriptions

[1] Master developer/applicant is fronting the cost of public facilities that are eligible for funding from impact fees. Includes road, water, sewer, parks, and drainage fees. Fees are paid at time that vertical development commences after land sale. It is expected that the City has a need for a portion of these fees in other parts of the City.

[2] Not intended to reflect specific measures, to be determined. Cost is incurred in second year of project and would be of lessor impact if spread over multiple years and/or occuring later in the project.

Table B-2 City of Davis MRIC Land Economics Analysis Sensitivity Analysis Results of Projected Master Developer Cash Flow Scenarios

tem	Assumption	Scenario A Base Case	Scenario B EIFD Funding	Scenario C Reduced Land Value	Scenario D Lower CFD	Scenario E Reduced DIF Reimbursements	Scenario F Reduced Infrastructure Costs	
em	Assumption	Case	Funding	Land value	CFD	Reimbursements	Infrastructure Costs	
COSTS								
and and Predevelopment Costs [1]		(\$11,400,000)	(\$11,400,000)	(\$11,400,000)	(\$11,400,000)	(\$11,400,000)	(\$11,400,000)	
frastructure and Site Preparation								
Backbone Infrastructure (per developable acre) [1] ubtotal Infrastructure and Site Prep Costs (Uninflated)	\$442,603	(\$56,902,000) (\$56,902,000)	(\$56,902,000) (\$56,902,000)	(\$56,902,000) (\$56,902,000)	(\$56,902,000) (\$56,902,000)	(\$56,902,000) (\$56,902,000)	(\$51,211,000) (\$51,211,000)	
lisc. Master Developer Project Admin./Pursuit Costs [1]	5% of above costs	(\$3,415,100)	(\$3,415,100)	(\$3,415,100)	(\$3,415,100)	(\$3,415,100)	(\$3,130,550)	
pen Space and Privitized Street Maintenance								
Open Space Maintenance [2]		(\$3,066,212)	(\$3,066,212)	(\$3,066,212)	(\$3,066,212)	(\$3,066,212)	(\$3,066,212)	
Street Maintenance [3] ubtotal Maintenance Costs (Uninflated)		\$0 (\$3,066,212)	\$0 (\$3,066,212)	\$0 (\$3,066,212)	\$0 (\$3,066,212)	\$0 (\$3,066,212)	\$0 (\$3,066,212)	
otal Costs (Uninflated)		(\$74,783,312)	(\$74,783,312)	(\$74,783,312)	(\$74,783,312)	(\$74,783,312)	(\$68,807,762)	
otal Costs Inflated	3% inflation	(\$88,916,116)	(\$88,916,116)	(\$88,916,116)	(\$88,916,116)	(\$88,916,116)	(\$81,764,155)	
ax Payments on CFD Bonds								
Phase 1 Bonds Total Tax Payments on Phase 1 Bonds [4]	2% escalation	(\$18,041,268)	(\$18,041,268)	(\$18,041,268)	(\$9,088,014)	(\$18,041,268)	(\$18,041,268)	
Phase 1 Bond Payments paid by Landbuyers	270 03000000	\$16,016,920	\$16,016,920	\$16,016,920	\$8,068,280	\$16,016,920	\$16,016,920	
Phase 1 Payments paid by Master Developer		(\$2,024,348)	(\$2,024,348)	(\$2,024,348)	(\$1,019,735)	(\$2,024,348)	(\$2,024,348)	
Phase 2 Bonds								
Total Tax Payments on Phase 1 Bonds [4]	2% escalation	(\$14,242,251)	(\$14,242,251)	(\$14,242,251)	(\$7,174,318)	(\$14,242,251)	(\$14,242,251)	
Phase 2 Bond Payments paid by Landbuyers		\$9,738,690	\$9,738,690	\$9,738,690	\$4,905,717	\$9,738,690	\$9,738,690	
Phase 2 Payments paid by Master Developer		(\$4,503,562)	(\$4,503,562)	(\$4,503,562)	(\$2,268,601)	(\$4,503,562)	(\$4,503,562)	
Fotal Bond Payments paid by Master Developer		(\$6,527,910)	(\$6,527,910)	(\$6,527,910)	(\$3,288,335)	(\$6,527,910)	(\$6,527,910)	
REVENUES								
Bond and Fee Proceeds								
CFD Bond Proceeds		\$15,139,000	\$15,139,000	\$15,139,000	\$7,661,000	\$15,139,000	\$15,139,000	
Development Impact Fee Reimbursements EIFD Tax Increment Financing		\$7,147,406 \$0	\$7,147,406 \$9,506,950	\$7,147,406 \$0	\$7,147,406 \$0	\$3,573,703 \$0	\$7,147,406 \$0	
Fotal Proceeds from Bonds and Fees		\$22,286,406	\$31,793,357	\$22,286,406	\$14,808,406	\$18,712,703	\$22,286,406	
		• • • • • • •	,	, , ,	• • • • • • • • •		• • • • • • •	
Gross Land Sale Revenues		\$65,742,407	\$65,742,407	\$62,001,802	\$70,149,923	\$65,742,407	\$65,742,407	
Selling Costs at 3.0% of Land Value Closing Costs at 1.0% of Land Value		(\$1,972,272)	(\$1,972,272)	(\$1,860,054)	(\$2,104,498)	(\$1,972,272)	(\$1,972,272)	
let Land Sale Revenues		(\$657,424) \$63,112,710	(\$657,424) \$63,112,710	(\$620,018) \$59,521,730	(\$701,499) \$67,343,926	(\$657,424) \$63,112,710	(\$657,424) \$63,112,710	
Fotal Revenues (Uninflated)		\$63,112,710	\$63,112,710	\$59,521,730	\$67,343,926	\$63,112,710	\$63,112,710	
Total Revenues Inflated	3% inflation	\$116,286,115	\$130,581,780	\$111,168,633	\$113,513,362	\$111,411,723	\$116,286,115	
NET PROJECT CASH FLOW (INFLATED)		\$20,842,089	\$35,137,754	\$15,724,607	\$21,308,910	\$15,967,697	\$27,994,050	
Internal Rate of Return IRR [5]	project IRR	4.78%	7.26%	3.69%	4.36%	3.69%	6.88%	
NPV at 10% [6]	project total	(\$9,769,871)	(\$5,612,139)	(\$11,617,765)	(\$11,791,905)	(\$11,788,311)	(\$5,468,534)	
	project total per developable acre	(\$9,709,871) (\$75,996)	(\$43,655)	(\$11,817,783) (\$90,370)	(\$11,791,903) (\$91,725)	(\$11,788,311) (\$91,697)	(\$3,408,534) (\$42,538)	
	per developable square foot	(\$1.74)	(\$1.00)	(\$2.07)	(\$2.11)	(\$2.11)	(\$0.98)	
NDV at 12% [6]								
NPV at 12% [6]	project total per developable acre	(\$11,893,570) (\$92,515)	(\$8,518,444) (\$66,262)	(\$13,477,024) (\$104,833)	(\$14,037,621) (\$109,193)	(\$13,662,059) (\$106,272)	(\$7,896,633) (\$61,425)	
	per developable square foot	(\$92,515)	(\$00,202) (\$1.52)	(\$104,833) (\$2.41)	(\$109,193) (\$2.51)	(\$100,272) (\$2.44)	(\$01,423)	
	project total	(\$13,514,941)	(\$10,746,144)	(\$14,889,507)	(\$15,740,846)	(\$15,081,037)	(\$9,771,346)	
NPV at 14% [6]	per developable acre	(\$105,127)	(\$83,590)	(\$115,820)	(\$122,442)	(\$117,309)	(\$76,007)	

Source: MRIC Project Applicant; EPS

[1] Figure provided by MRIC Project Applicant.

[2] Parks and open space are assumed to be maintained by the Master Developer. These maintenance costs increase on the basis of percentage of buildout (see Fiscal Analysis Table 1).

[3] Street maintenance is privitized as one scenario in the fiscal analysis (see Fiscal Analysis Appendix E Table E-1).

[4] Represents the total tax payments due on issued bonds, independent of who is paying them. Assumes an annual 2% payment escalation. Assumes 18 months of capitalized interest, and thus no payments are made for 18 months. No payment in the first year and 50% of the second year payment are shown to account for the 18 months of capitalized interest.

[5] For this analysis, XIRR is used to calculate the internal rate of return in order to account for the irregular cash flows over the 25 year period.

[6] For this analysis, XNPV is used to calculate the net present value in order to account for the irregular cash flows over the 25 year period.

Scenario G Additional Mitigation	Scenario H Privitized Street Maintenance
(\$13,400,000)	(\$11,400,000)
(\$56,902,000) (\$56,902,000)	(\$56,902,000) (\$56,902,000)
(\$3,515,100)	(\$3,415,100)
(\$3,066,212) \$0	(\$3,066,212) (\$2,280,758)
(\$3,066,212)	(\$5,346,970)
(\$76,883,312)	(\$77,064,070)
(\$91,121,953)	(\$92,676,235)
(\$18,041,268)	(\$18,041,268)
\$16,016,920 (\$2,024,348)	\$16,016,920 (\$2,024,348)
(\$14,242,251)	(\$14,242,251)
\$9,738,690	\$9,738,690
(\$4,503,562) <i>(\$6,527,910)</i>	(\$4,503,562) <i>(\$6,527,910)</i>
\$15,139,000 \$7,147,406	\$15,139,000 \$7,147,406
\$0	\$0
\$22,286,406	\$22,286,406
\$65,742,407	\$65,742,407
(\$1,972,272)	(\$1,972,272)
(\$657,424) \$63,112,710	(\$657,424) \$63,112,710
\$63,112,710	\$63,112,710
\$116,286,115	\$116,286,115
\$18,636,252	\$17,081,970
4.08%	4.13%
(\$11,693,284)	(\$10,594,964)
(\$90,957)	(\$82,414)
(\$2.09)	(\$1.89)
(\$13,776,480)	(\$12,533,605)
(\$107,162)	(\$97,494)
(\$2.46)	(\$2.24)
(\$15,360,113)	(\$14,018,897)
(\$15,300,113) (\$119,480)	(\$109,048)
(\$2.74)	(\$2.50)

CF comparison

Table B-3 City of Davis MRIC Land Economics Analysis Projected Master Developer Cash Flow Scenario A: Base Case

ltem	Assumption	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25
COSTS																											
and and Predevelopment Costs [1]		(\$11,400,000)	(\$7,400,000)	(\$4,000,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	:
nfrastructure and Site Preparation																											
Backbone Infrastructure (per developable acre) [1] Subtotal Infrastructure and Site Prep Costs (Uninflate	\$442,603 ed)	(\$56,902,000) (\$56,902,000)	(\$22,586,000) (\$22,586,000)		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$34,316,000) (\$34,316,000)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	9 5
Nisc. Master Developer Project Admin./Pursuit Costs	[1] 5% of above costs	(\$3,415,100)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,60
Open Space and Privitized Street Maintenance		/ *									· • • • • • • •												((a)	
Open Space Maintenance [2] Street Maintenance [3] Privatized:	? no	(\$3,066,212) \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$18,018) \$0	(\$18,018) \$0	(\$60,551) \$0	(\$62,556) \$0	(\$71,764) \$0	(\$80,574) \$0	(\$104,073) \$0	(\$116,411) \$0	(\$125,004) \$0	(\$125,004) \$0	(\$139,948) \$0	(\$147,420) \$0	(\$154,892) \$0	(\$163,485) \$0	(\$172,825) \$0	(\$187,769) \$0	(\$195,241) \$0	(\$210,186) \$0	(\$218,779) \$0	(\$226,251) \$0	(\$233,723) \$0	(\$233,72
Subtotal Maintenance Costs (Uninflated)	. 110	(\$3,066,212)	\$0	\$0	\$0	(\$18,018)	**	(\$60,551)	(\$62,556)	(\$71,764)	(\$80,574)	**	(\$116,411)	(\$125,004)	(\$125,004)	(\$139,948)	(\$147,420)	+-	(\$163,485)	•	• •	ψu	(\$210,186)	(\$218,779)	**	(\$233,723)	
Fotal Costs (Uninflated)		(\$74,783,312)	(\$30,122,604)	(\$4,136,604)	(\$136,604)	(\$154,622)	(\$154,622)	(\$197,155)	(\$199,160)	(\$208,368)	(\$217,178)	(\$34,556,677)	(\$253,015)	(\$261,608)	(\$261,608)	(\$276,552)	(\$284,024)	(\$291,496)	(\$300,089)	(\$309,429)	(\$324,373)	(\$331,845)	(\$346,790)	(\$355,383)	(\$362,855)	(\$370,327)	(\$370,32
Total Costs Inflated	3% inflation	(\$88,916,116)	(\$30,122,604)	(\$4,260,702)	(\$144,923)	(\$168,960)	(\$174,029)	(\$228,557)	(\$237,807)	(\$256,266)	(\$275,114)	(\$45,088,625)	(\$340,030)	(\$362,126)	(\$372,990)	(\$406,126)	(\$429,612)	(\$454,141)	(\$481,555)	(\$511,439)	(\$552,224)	(\$581,893)	(\$626,341)	(\$661,116)	(\$695,267)	(\$730,872)	(\$752,79
Fax Payments on CFD Bonds																											
Phase 1 CFD Bonds																											
Total Tax Payments on Phase 1 Bonds [4]	2% escalation	(\$18,041,268)	\$0	(\$301,473)	(\$615,005)	(\$627,305)	(\$639,851)		(\$665,701)	(\$679,015)	(\$692,595)		(\$720,576)	(\$734,988)	(\$749,688)	(\$764,681)	(\$779,975)	(\$795,574)	(\$811,486)	(\$827,716)			(\$878,378)	(\$895,946)	(\$913,865)		
Phase 1 Bond Payments paid by Landbuyers Phase 1 Payments paid by Master Developer		\$16,016,920 (\$2,024,348)	\$0 \$0	\$0 (\$301,473)	\$116,248 (\$498,757)	\$185,008 (\$442,297)	\$375,483 (\$264,368)	\$397,120 (\$255,528)	\$469,369 (\$196,332)	\$613,422 (\$65,593)	\$692,595 \$0	\$706,447 \$0	\$720,576 \$0	\$734,988 \$0	\$749,688 \$0	\$764,681 \$0	\$779,975 \$0	\$795,574 \$0	\$811,486 \$0	\$827,716 \$0	\$844,270 \$0	\$861,155 \$0	\$878,378 \$0	\$895,946 \$0	\$913,865 \$0	\$932,142 \$0	\$950,78 \$
Phase 2 CFD Bonds																											
Total Tax Payments on Phase 2 Bonds [4]	2% escalation	(\$14,242,251)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$424,043)	(\$865,047)	(\$882,348)	(\$899,995)	(\$917,995)	(\$936,355)	(\$955,082)	(\$974,184)	(\$993,667)	(\$1,013,541)	(\$1,033,811)	(\$1,054,488)	(\$1,075,577)	(\$1,097,089)	(\$1,119,03
Phase 2 Bond Payments paid by Landbuyers		\$9,738,690	\$0	\$0	\$0 \$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$95,885	\$206,762	\$256,419	\$307,980	\$456,223	\$513,656	\$523,929	\$697,753	\$711,708	\$843,596	\$860,468	\$986,484	\$1,061,705	\$1,097,089	\$1,119,03
Phase 2 Payments paid by Master Developer Total Bond Payments paid by Master Developer		(\$4,503,562) <i>(\$6,527,910)</i>	\$0 \$ <i>0</i>	\$0 (\$301,473)	۵U (\$498,757)	\$0 (\$442,297)	4 0	\$0 (\$255,528)	۶u (\$196,332)	\$0 (\$65,593)	\$0 <i>\$0</i>	\$0 \$ <i>0</i>	(\$328,158) <i>(</i> \$328,158)	(\$658,285) (\$658,285)	(\$625,929) (\$625,929)	(\$592,015) (\$592,015)	(\$461,771) <i>(\$461,771)</i>	(\$422,698) (\$422,698)	(\$431,152) <i>(</i> \$431,152)			(\$169,944) <i>(</i> \$169,944)	(\$173,343) (\$173,343)	(\$68,004) <i>(</i> \$68, <i>004)</i>	(\$13,873) <i>(\$13,873)</i>	\$0 \$0	\$
REVENUES																											
Bond and Fee Proceeds CFD Bond Proceeds		\$15,139,000	\$6,293,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,846,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	¢0.	5
Development Impact Fee Reimbursements		\$7,147,406	\$0,293,000		\$546,823	\$111,584	\$1,990,852	\$19,955	\$127,224	\$531,183	\$127,224	\$689,037	\$185,827	\$18,067	\$355,885	\$103,237	\$521,065	\$103,237	\$0 \$0	\$559,779	\$0 \$0	\$596,649	\$0 \$0	\$185,827	\$355,885	\$18,067	3
EIFD Tax Increment Financing Included	d? no	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$
Total Proceeds from Bonds and Fees		\$22,286,406	\$6,293,000	\$0	\$546,823	\$111,584	\$1,990,852	\$19,955	\$127,224	\$531,183	\$127,224	\$9,535,037	\$185,827	\$18,067	\$355,885	\$103,237	\$521,065	\$103,237	\$0	\$559,779	\$0	\$596,649	\$0	\$185,827	\$355,885	\$18,067	\$
Gross Land Sale Revenues		\$65,742,407	\$0	\$0	\$4,912,887	\$2,755,918	\$8,343,237	\$453,601	\$2,147,245	\$5,521,560	\$2,147,245	\$5,289,719	\$3,782,219	\$410,665	\$2,345,695	\$1,742,400	\$6,425,332	\$1,742,400	\$0	\$6,538,578	\$0	\$4,645,129	\$0	\$3,782,219	\$2,345,695	\$410,665	\$
Selling Costs at 3.0% of Land Value		(\$1,972,272)	\$0		(\$147,387)	(\$82,678)	(\$250,297)	(\$13,608)	(\$64,417)	(\$165,647)	(\$64,417)		(\$113,467)	(\$12,320)	(\$70,371)	(\$52,272)	(\$192,760)	(\$52,272)	\$0	(\$196,157)	\$0		\$0	(\$113,467)	(\$70,371)	(\$12,320)	\$
Closing Costs at 1.0% of Land Value Net Land Sale Revenues		(\$657,424) \$63,112,710	\$0 \$0		(\$49,129) \$4,716,371	(\$27,559) \$2,645,681	(\$83,432) \$8,009,507	(\$4,536) \$435,457	(\$21,472) \$2,061,355	(\$55,216) \$5,300,697	(\$21,472) \$2,061,355		(\$37,822) \$3,630,930	(\$4,107) \$394,238	(\$23,457) \$2,251,867	(\$17,424) \$1,672,704	(\$64,253) \$6,168,319	(\$17,424) \$1,672,704	\$0 \$0	(\$65,386) \$6,277,035	\$0 \$0	(\$46,451) \$4,459,323	\$0 \$0	(\$37,822) \$3,630,930	(\$23,457) \$2,251,867	(\$4,107) \$394,238	s s
Total Revenues (Uninflated)		\$63,112,710	\$6,293,000	\$0	\$5,263,195		\$10,000,359	\$455,412	\$2,188,579	\$5,831,880	\$2,188,579		\$3,816,757	\$412,305	\$2,607,752	\$1,775,941	\$6,689,383	\$1,775,941	\$0	\$6,836,814		\$5,055,972	\$0	\$3,816,757	\$2,607,752	\$412,305	\$
Total Revenues Inflated	3% inflation	\$116,286,115	\$6,293,000	\$0	\$5,583,723	\$3,012,938	\$11,255,493	\$527,947	\$2,613,278	\$7,172,477	\$2,772,427	\$19,066,868	\$5,129,402	\$570,726	\$3,718,031	\$2,608,030	\$10,118,293	\$2,766,859	\$0	\$11,300,211	\$0	\$8,865,678	\$0	\$7,100,292	\$4,996,723	\$813,719	\$
NET PROJECT CASH FLOW (INFLATED)		\$20,842,089	(\$23,829,604)	(\$4,562,175)	\$4,940,043	\$2,401,682	\$10,817,096	\$43,862	\$2,179,139	\$6,850,618	\$2,497,313	(\$26,021,757)	\$4,461,214	(\$449,685)	\$2,719,113	\$1,609,889	\$9,226,910	\$1,890,019	(\$912,707)	\$10,512,342	(\$834,183)	\$8,113,841	(\$799,684)	\$6,371,172	\$4,287,583	\$82,847	(\$752,79
Internal Rate of Return IRR [5]	project IRR	4.78%																									
NPV at 10% [6]	project total	(\$9,769,871)																									
	per developable acre	(\$75,996)																									
p	per developable square foot	(\$1.74)																									
NPV at 12% [6]	project total	(\$11,893,570)																									
	per developable acre per developable square foot	(\$92,515) (\$2.12)																									
NPV at 14% [6]	project total	(\$13,514,941)																									
r	per developable acre per developable square foot	(\$105,127) (\$2.41)																									
μ		(ψ£.+1)																									

Source: MRIC Project Applicant; EPS

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Table B-4 City of Davis MRIC Land Economics Analysis Projected Master Developer Cash Flow Scenario B: EIFD Funding

ltem	Assumption	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25
COSTS																											
Land and Predevelopment Costs [1]		(\$11,400,000)	(\$7,400,000)) (\$4,000,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Infrastructure and Site Preparation Backbone Infrastructure (per developable acre) Subtotal Infrastructure and Site Prep Costs (U		(\$56,902,000) (\$56,902,000)	(\$22,586,000) (\$22,586,000)		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$34,316,000) (\$34,316,000)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Misc. Master Developer Project Admin./Pursuit	t Costs [1] 5% of above cost	s (\$3,415,100)	(\$136,604)) (\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)
Open Space and Privitized Street Maintenance Open Space Maintenance [2]		(\$3,066,212)	\$0	¢0,	\$0	(\$18,018)	(\$18,018)	(\$60.551)	(\$62,556)	(\$71,764)	(\$80,574)	(\$104,073)	(\$116,411)	(\$125,004)	(\$125,004)	(\$139,948)	(\$147,420)	(\$154,892)	(\$163,485)	(\$172,825)	(\$187,769)	(\$195,241)	(\$210,186)	(\$218,779)	(\$226,251)	(\$233,723)	(\$233,723)
	rivatized? no	(\$3,000,212)	\$0 \$0		\$0 \$0	(\$10,010) \$0	(\$10,010) \$0	(\$00,551) \$0	(\$02,550) \$0	(\$71,704) \$0	(\$00,374) \$0	(\$104,073) \$0	(\$110,411) \$0	(\$123,004) \$0	(#123,004) \$0	(#133,340) \$0	(\$147,420) \$0	(\$154,032) \$0	(\$103,403) \$0	(\$172,023) \$0	(\$107,703) \$0	(\$135,241) \$0	(\$210,100) \$0	(\$210,779) \$0	(\$220,231)	(\$233,723) \$0	(\$233,723) \$0
Subtotal Maintenance Costs (Uninflated)		(\$3,066,212)	\$0	\$0	\$0	(\$18,018)	(\$18,018)	(\$60,551)	(\$62,556)	(\$71,764)	(\$80,574)	(\$104,073)	(\$116,411)	(\$125,004)	(\$125,004)	(\$139,948)	(\$147,420)	(\$154,892)	(\$163,485)	(\$172,825)	(\$187,769)	(\$195,241)	(\$210,186)	(\$218,779)	(\$226,251)	(\$233,723)	(\$233,723)
Total Costs (Uninflated)		(\$74,783,312)	(\$30,122,604)) (\$4,136,604)	(\$136,604)	(\$154,622)	(\$154,622)	(\$197,155)	(\$199,160)	(\$208,368)	(\$217,178)	(\$34,556,677)	(\$253,015)	(\$261,608)	(\$261,608)	(\$276,552)	(\$284,024)	(\$291,496)	(\$300,089)	(\$309,429)	(\$324,373)	(\$331,845)	(\$346,790)	(\$355,383)	(\$362,855)	(\$370,327)	(\$370,327)
Total Costs Inflated	3% inflation	(\$88,916,116)	(\$30,122,604)) (\$4,260,702)	(\$144,923)	(\$168,960)	(\$174,029)	(\$228,557)	(\$237,807)	(\$256,266)	(\$275,114)	(\$45,088,625)	(\$340,030)	(\$362,126)	(\$372,990)	(\$406,126)	(\$429,612)	(\$454,141)	(\$481,555)	(\$511,439)	(\$552,224)	(\$581,893)	(\$626,341)	(\$661,116)	(\$695,267)	(\$730,872)	(\$752,798)
Tax Payments on CFD Bonds																											
Phase 1 CFD Bonds																											
Total Tax Payments on Phase 1 Bonds [4]	2% escalation	(\$18,041,268)	\$0	(**** / -/	,	(\$627,305)	,	,	(\$665,701)	(\$679,015)	(\$692,595)		(\$720,576)	(\$734,988)	(\$749,688)	,	(\$779,975)	(\$795,574)	(\$811,486)	(\$827,716)	(\$844,270)		(\$878,378)	(\$895,946)	(\$913,865)	,	,
Phase 1 Bond Payments paid by Landbuyers	~	\$16,016,920	\$0 \$0		\$116,248 (\$498,757)	\$185,008 (\$442,297)	\$375,483 (\$264,368)	\$397,120 (\$255,528)	\$469,369 (\$196,332)	\$613,422 (\$65,593)	\$692,595 \$0	\$706,447	\$720,576 \$0	\$734,988	\$749,688	\$764,681 \$0	\$779,975	\$795,574	\$811,486	\$827,716	\$844,270 \$0	\$861,155	\$878,378 \$0	\$895,946	\$913,865 \$0	\$932,142	\$950,785 \$0
Phase 1 Payments paid by Master Develope		(\$2,024,348)	\$0	(\$301,473)	(\$490,757)	(\$442,297)	(\$204,308)	(\$255,526)	(\$190,332)	(\$03,393)	φU	φŪ	φU	φU	φU	φU	şu	φU	φU	φU	φU	φU	φU	φU	φU	φU	φU
Phase 2 CFD Bonds	00/	(\$14.040.054)	\$0	\$ 0	¢o	¢0.	¢0.	\$0	¢0.	\$0	¢0.	¢0	(\$424.042)	(\$865.047)	(\$000.040)	(\$899,995)	(\$047.00F)	(\$026.255)	(POEE 002)	(074 404)	(\$002.667)	(\$4.042.544)	(64.000.044)	(\$4.054.400)	(\$4 07E E77)	(\$4,007,000)	(\$1.110.021)
Total Tax Payments on Phase 2 Bonds [4] Phase 2 Bond Payments paid by Landbuyers	2% escalation	(\$14,242,251) \$9,738,690	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$424,043) \$95,885	(\$865,047) \$206,762	(\$882,348) \$256,419	(\$899,995) \$307,980	(\$917,995) \$456,223	(\$936,355) \$513,656	(\$955,082) \$523,929	(\$974,184) \$697,753	(\$993,667) \$711,708	(\$1,013,541) \$843,596	(\$1,033,811) \$860,468	(\$1,054,488) \$986,484	(\$1,075,577) \$1,061,705	(\$1,097,089) \$1,097,089	(\$1,119,031) \$1,119,031
Phase 2 Payments paid by Master Develope	er	(\$4,503,562)	\$0 \$0	**	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	(\$328,158)	(\$658,285)	(\$625,929)		(\$461,771)	(\$422,698)	(\$431,152)	(\$276,430)	(\$281,959)	(\$169,944)	(\$173,343)	(\$68,004)	(\$13,873)	\$0	\$0
Total Bond Payments paid by Master Develope	er	(\$6,527,910)	\$0	(\$301,473)	(\$498,757)	(\$442,297)	(\$264,368)	(\$255,528)	(\$196,332)	(\$65,593)	\$0	\$0	(\$328,158)	(\$658,285)	(\$625,929)	(\$592,015)	(\$461,771)	(\$422,698)	(\$431,152)	(\$276,430)	(\$281,959)	(\$169,944)	(\$173,343)	(\$68,004)	(\$13,873)	\$0	\$0
REVENUES																											
Bond and Fee Proceeds																											
CFD Bond Proceeds		\$15,139,000	\$6,293,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,846,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Development Impact Fee Reimbursements		\$7,147,406	\$0		\$546,823	\$111,584	\$1,990,852	\$19,955	\$127,224	\$531,183	\$127,224	\$689,037	\$185,827	\$18,067	\$355,885	\$103,237	\$521,065	\$103,237	\$0	\$559,779	\$0	\$596,649	\$0	\$185,827	\$355,885	\$18,067	\$0
5	Included? yes	\$9,506,950	\$0		\$0	\$49,928	\$51,425	\$181,330	\$192,454	\$227,478	\$259,282	\$3,399,356	\$34,761	\$72,048	\$82,963	\$138,897	\$175,100	\$209,621	\$250,410	\$2,936,849	\$60,779	\$77,412	\$139,542	\$184,230	\$226,957	\$268,000	\$288,127
Total Proceeds from Bonds and Fees		\$31,793,357	\$6,293,000	\$0	\$546,823	\$161,511	\$2,042,277	\$201,286	\$319,679	\$758,661	\$386,506	\$12,934,392	\$220,588	\$90,115	\$438,848	\$242,134	\$696,165	\$312,858	\$250,410	\$3,496,628	\$60,779	\$674,061	\$139,542	\$370,057	\$582,842	\$286,067	\$288,127
Gross Land Sale Revenues		\$65,742,407	\$0	\$0	\$4,912,887	\$2,755,918	\$8,343,237	\$453,601	\$2,147,245	\$5,521,560	\$2,147,245	\$5,289,719	\$3,782,219	\$410,665	\$2,345,695	\$1,742,400	\$6,425,332	\$1,742,400	\$0	\$6,538,578	\$0	\$4,645,129	\$0	\$3,782,219	\$2,345,695	\$410,665	\$0
Selling Costs at 3.0% of Land Value		(\$1,972,272)	\$0		(\$147,387)	(\$82,678)	,	(\$13,608)	(\$64,417)	(\$165,647)	(\$64,417)	(\$158,692)	(\$113,467)	(\$12,320)	(\$70,371)	(\$52,272)	(\$192,760)	(\$52,272)	\$0	(\$196,157)	\$0	(\$139,354)	\$0	(\$113,467)	(\$70,371)	(\$12,320)	\$0
Closing Costs at 1.0% of Land Value		(\$657,424)	\$0		(\$49,129)	(\$27,559)			(\$21,472)		(\$21,472)		(\$37,822)	(\$4,107)	(\$23,457)	(\$17,424)	(\$64,253)	(\$17,424)	\$0	(\$65,386)	\$0	(\$46,451)	\$0	(\$37,822)	(\$23,457)	(\$4,107)	\$0
Net Land Sale Revenues		\$63,112,710	\$0	\$0	\$4,716,371	\$2,645,681	\$8,009,507	\$435,457	\$2,061,355	\$5,300,697	\$2,061,355	\$5,078,130	\$3,630,930	\$394,238	\$2,251,867	\$1,672,704	\$6,168,319	\$1,672,704	\$0	\$6,277,035	\$0	\$4,459,323	\$0	\$3,630,930	\$2,251,867	\$394,238	\$0
Total Revenues (Uninflated)		\$63,112,710	\$6,293,000	\$0	\$5,263,195	\$2,807,193	\$10,051,785	\$636,743	\$2,381,034	\$6,059,358	\$2,447,861	\$18,012,522	\$3,851,518	\$484,353	\$2,690,715	\$1,914,838	\$6,864,483	\$1,985,562	\$250,410	\$9,773,663	\$60,779	\$5,133,384	\$139,542	\$4,000,987	\$2,834,709	\$680,305	\$288,127
Total Revenues Inflated	3% inflation	\$130,581,780	\$6,293,000	\$0	\$5,583,723	\$3,067,495	\$11,313,372	\$738,159	\$2,843,079	\$7,452,247	\$3,100,878	\$23,502,256	\$5,176,118	\$670,458	\$3,836,316	\$2,812,004	\$10,383,147	\$3,093,441	\$401,835	\$16,154,375	\$103,472	\$9,001,421	\$252,029	\$7,443,014	\$5,431,596	\$1,342,641	\$585,704
NET PROJECT CASH FLOW (INFLATED)		\$35,137,754	(\$23,829,604)) (\$4,562,175)	\$4,940,043	\$2,456,239	\$10,874,976	\$254,074	\$2,408,940	\$7,130,388	\$2,825,763	(\$21,586,369)	\$4,507,929	(\$349,953)	\$2,837,398	\$1,813,864	\$9,491,764	\$2,216,601	(\$510,872)	\$15,366,506	(\$730,711)	\$8,249,583	(\$547,655)	\$6,713,894	\$4,722,456	\$611,769	(\$167,094)
Internal Rate of Return IRR [5]	project IR	R 7.26%																									
NPV at 10% [6]	project tot	a/ (\$5,612,139)																									
	per developable aci																										
	per developable square for	,																									
NPV at 12% [6]	project tot																										
	per developable aci per developable square fo																										
	por 0010/000000 0400/010																										
NPV at 14% [6]	project tot																										
	per developable aci	e (\$83,590)																									
	per developable square for																										

Source: MRIC Project Applicant; EPS

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Table B-5 City of Davis MRIC Land Economics Analysis Projected Master Developer Cash Flow Scenario C: Reduced Land Value

Item	Assumption	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25
COSTS																											
Land and Predevelopment Costs [1]		(\$11,400,000)	(\$7,400,000)	(\$4,000,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$
Infrastructure and Site Preparation																											
Backbone Infrastructure (per developable acre) [1] Subtotal Infrastructure and Site Prep Costs (Uninf	\$442,603 ated)	(\$56,902,000) (\$56,902,000)	(\$22,586,000) (\$22,586,000)		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	,	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$ \$
Misc. Master Developer Project Admin./Pursuit Co	sts [1] 5% of above costs	(\$3,415,100)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,60
Open Space and Privitized Street Maintenance																											
Open Space Maintenance [2] Street Maintenance [3] Privat	nod?	(\$3,066,212) \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$18,018) \$0	(\$18,018) \$0	(\$60,551)	(\$62,556) \$0	(\$71,764) \$0	(\$80,574) \$0	(\$104,073) \$0	(\$116,411) \$0	(\$125,004) \$0	(\$125,004) \$0	(\$139,948)	(\$147,420) \$0	(\$154,892) \$0	(\$163,485)	(\$172,825) \$0	(\$187,769) \$0	(\$195,241) \$0	(\$210,186) \$0	(\$218,779) \$0	(\$226,251) \$0	(\$233,723)	
Street Maintenance [3] Privat Subtotal Maintenance Costs (Uninflated)	zed? no	هں (\$3,066,212)	\$0 \$0		\$0 \$0	ه0 (\$18,018)	**	\$0 (\$60,551)	• •	÷ -	هں (\$80,574)	**	₅₀ (\$116,411)	_{\$0} (\$125,004)	هں (\$125,004)	\$0 (\$139,948)	₅₀ (\$147,420)	+-	\$0 (\$163,485)	_{\$0} (\$172,825)	هو (\$187,769)	هں (\$195,241)	ه0 (\$210,186)	هو (\$218,779)	φυ	پور (\$233,723)	\$ (\$233,72
Total Costs (Uninflated)		(\$74,783,312)	(\$30,122,604)	(\$4,136,604)	(\$136,604)	(\$154,622)	(\$154,622)	(\$197,155)	(\$199,160)	(\$208,368)	(\$217,178)	(\$34,556,677)	(\$253,015)	(\$261,608)	(\$261,608)	(\$276,552)	(\$284,024)	(\$291,496)	(\$300,089)	(\$309,429)	(\$324,373)	(\$331,845)	(\$346,790)	(\$355,383)	(\$362,855)	(\$370,327)	(\$370,32
Total Costs Inflated	3% inflation	(\$88,916,116)	(\$30,122,604)	(\$4,260,702)	(\$144,923)	(\$168,960)	(\$174,029)	(\$228,557)	(\$237,807)	(\$256,266)	(\$275,114)	(\$45,088,625)	(\$340,030)	(\$362,126)	(\$372,990)	(\$406,126)	(\$429,612)	(\$454,141)	(\$481,555)	(\$511,439)	(\$552,224)	(\$581,893)	(\$626,341)	(\$661,116)	(\$695,267)	(\$730,872)	(\$752,798
Tax Payments on CFD Bonds																											
Phase 1 CFD Bonds																											
Total Tax Payments on Phase 1 Bonds [4]	2% escalation	(\$18,041,268)	\$0	(**** / -/	,	,	(\$639,851)	(\$652,648)		(\$679,015)	(\$692,595)		(\$720,576)	(\$734,988)	(\$749,688)		(\$779,975)	(\$795,574)	(\$811,486)	(\$827,716)	(\$844,270)	(\$861,155)	(\$878,378)	(\$895,946)	,		.
Phase 1 Bond Payments paid by Landbuyers		\$16,016,920	\$0			\$185,008	\$375,483	\$397,120	\$469,369	\$613,422	\$692,595	\$706,447	\$720,576	\$734,988 \$0	\$749,688 \$0	\$764,681	\$779,975 \$0	\$795,574 \$0	\$811,486 \$0	\$827,716 \$0	\$844,270	\$861,155 \$0	\$878,378 \$0	\$895,946 \$0	\$913,865 \$0	\$932,142 \$0	\$950,78
Phase 1 Payments paid by Master Developer		(\$2,024,348)	\$0	(\$301,473)	(\$498,757)	(\$442,297)	(\$264,368)	(\$255,528)	(\$196,332)	(\$65,593)	\$0	\$0	\$0	\$U	\$U	\$0	\$U	\$U	\$U	\$U	\$0	\$ 0	\$ U	\$ 0	φU	\$ 0	\$
Phase 2 CFD Bonds Total Tax Payments on Phase 2 Bonds [4]	2% appalation	(\$14,242,251)	\$0	\$0	\$0	¢0.	\$0	\$0	\$0	\$0	\$0	\$0	(\$424,043)	(\$865,047)	(\$882,348)	(\$899,995)	(\$917,995)	(\$936,355)	(\$955,082)	(\$974,184)	(\$993,667)	(\$1,013,541)	(\$1,033,811)	(\$1 0E4 499)	(\$1.075.577)	(\$1,097,089)	(\$1,119,03
Phase 2 Bond Payments paid by Landbuyers	2% escalation	(\$14,242,251) \$9,738,690	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$424,043) \$95,885	(\$665,047) \$206,762	(\$002,340) \$256,419	(\$899,995) \$307,980	(\$917,995) \$456,223	(\$936,355) \$513,656	(\$955,082) \$523,929	(\$974,184) \$697,753	(\$993,667) \$711,708	(\$1,013,541) \$843,596	(\$1,033,811) \$860,468	(\$1,054,488) \$986,484	(\$1,075,577) \$1,061,705	(\$1,097,089) \$1,097,089	\$1,119,03
Phase 2 Payments paid by Master Developer		(\$4,503,562)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$328,158)	(\$658,285)	(\$625,929)	(\$592,015)	(\$461,771)	(\$422,698)	(\$431,152)	(\$276,430)	(\$281,959)	(\$169,944)	(\$173,343)	(\$68,004)	(\$13,873)	\$0	\$
Total Bond Payments paid by Master Developer		(\$6,527,910)	\$0	(\$301,473)	(\$498,757)	(\$442,297)	(\$264,368)	(\$255,528)	(\$196,332)	(\$65,593)	\$0	\$0	(\$328,158)	(\$658,285)	(\$625,929)	(\$592,015)	(\$461,771)	(\$422,698)	(\$431,152)	(\$276,430)	(\$281,959)	(\$169,944)	(\$173,343)	(\$68,004)	(\$13,873)	\$0	\$0
REVENUES																											
Bond and Fee Proceeds																											
CFD Bond Proceeds		\$15,139,000	\$6,293,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,846,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$
Development Impact Fee Reimbursements EIFD Tax Increment Financing Incl	uded? no	\$7,147,406 \$0	\$0 \$0	\$0 \$0	\$546,823	\$111,584 \$0	\$1,990,852 \$0	\$19,955 \$0	\$127,224	\$531,183 \$0	\$127,224 \$0	\$689,037 \$0	\$185,827 \$0	\$18,067 \$0	\$355,885 \$0	\$103,237 \$0	\$521,065	\$103,237 \$0	\$0 \$0	\$559,779 \$0	\$0 \$0	\$596,649 \$0	\$0 \$0	\$185,827 \$0	\$355,885 \$0	\$18,067	\$
Total Proceeds from Bonds and Fees	uded? no	\$0 \$22,286,406	\$6,293,000	÷-	\$546,823	\$0 \$111,584	\$0 \$1,990,852	\$19,955	\$0 \$127,224	₅₀ \$531,183	مں 127,224\$	_{\$0} \$9,535,037	\$0 \$185,827	۵0 \$18,067	\$355,885	\$0 \$103,237	\$0 \$521,065	۵0 \$103,237	\$0 \$0	\$559,779	\$0 \$0	۵۵ \$596,649	\$0 \$0	_{\$0} \$185,827	۵۵ \$355,885	50 \$18,067	\$ \$
Gross Land Sale Revenues		\$62,001,802	\$0	\$0	\$4,511,447	\$2,709,161	\$7,941,797	\$453,601	\$2,147,245	\$5,073,363	\$2,147,245	\$4,778,135	\$3,747,611	\$410,665	\$2,005,211	\$1,742,400	\$6,015,633	\$1,742,400	\$0	\$6,163,487	\$0	\$4,248,914	\$0	\$3,747,611	\$2,005,211	\$410,665	\$
Selling Costs at 3.0% of Land Value		(\$1,860,054)	\$0	\$0	(\$135,343)	(\$81,275)	(\$238,254)	(\$13,608)	(\$64,417)	(\$152,201)	(\$64,417)	(\$143,344)	(\$112,428)	(\$12,320)	(\$60,156)	(\$52,272)	(\$180,469)	(\$52,272)	\$0	(\$184,905)	\$0	(\$127,467)	\$0	(\$112,428)	(\$60,156)	(\$12,320)	\$
Closing Costs at 1.0% of Land Value		(\$620,018)	\$0		(\$45,114)	,		(\$4,536)	,	,	(\$21,472)		(\$37,476)	(\$4,107)	(\$20,052)	(\$17,424)	(\$60,156)	(\$17,424)	\$0	(\$61,635)	\$0	(\$42,489)	\$0	(\$37,476)	(\$20,052)	(\$4,107)	
Net Land Sale Revenues		\$59,521,730	\$0	\$0	\$4,330,989	\$2,600,795	\$7,624,125	\$435,457	\$2,061,355	\$4,870,428	\$2,061,355	\$4,587,010	\$3,597,707	\$394,238	\$1,925,003	\$1,672,704	\$5,775,008	\$1,672,704	\$0	\$5,916,948	\$0	\$4,078,957	\$0	\$3,597,707	\$1,925,003	\$394,238	\$
Total Revenues (Uninflated)		\$59,521,730	\$6,293,000	\$0		\$2,712,378	\$9,614,977	\$455,412		\$5,401,611	\$2,188,579	\$14,122,047	\$3,783,534	\$412,305	\$2,280,888	\$1,775,941	\$6,296,073	\$1,775,941	\$0	\$6,476,726		\$4,675,606	\$0	\$3,783,534	\$2,280,888	\$412,305	\$
Total Revenues Inflated	3% inflation	\$111,168,633	\$6,293,000	\$0	\$5,174,871	\$2,963,889	\$10,821,741	\$527,947	\$2,613,278	\$6,643,300	\$2,772,427	\$18,426,068	\$5,084,753	\$570,726	\$3,252,001	\$2,608,030	\$9,523,375	\$2,766,859	\$0	\$10,705,042	\$0	\$8,198,704	\$0	\$7,038,487	\$4,370,417	\$813,719	\$0
NET PROJECT CASH FLOW (INFLATED)		\$15,724,607	(\$23,829,604)	(\$4,562,175)	\$4,531,191	\$2,352,633	\$10,383,345	\$43,862	\$2,179,139	\$6,321,441	\$2,497,313	(\$26,662,558)	\$4,416,564	(\$449,685)	\$2,253,082	\$1,609,889	\$8,631,992	\$1,890,019	(\$912,707)	\$9,917,172	(\$834,183)	\$7,446,867	(\$799,684)	\$6,309,367	\$3,661,277	\$82,847	(\$752,798
Internal Rate of Return IRR [5]	project IRR	3.69%																									
NPV at 10% [6]	project total	(\$11,617,765)																									
	per developable acre	(\$90,370)																									
	per developable square foot	(\$2.07)																									
NPV at 12% [6]	project total	(\$13,477,024)																									
······································	per developable acre	(\$104,833)																									
	per developable square foot	(\$2.41)																									
NPV at 14% [6]	project total	(\$14,889,507)																									
INI V CL 14/0 [U]	project total	(\$14,009,007)																									
	per developable acre	(\$115,820)																									

Source: MRIC Project Applicant; EPS

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Table B-6 City of Davis MRIC Land Economics Analysis Projected Master Developer Cash Flow Scenario D: Lower CFD

Total Year 3 Year 4 Year 5 Year 6 Year 7 Year 8 Year 9 Year 10 Year 11 Year 12 Year 13 Year 14 Year 15 Year 16 Year 17 Item Assumption Year 1 Year 2 COSTS Land and Predevelopment Costs [1] (\$11,400,000) (\$7,400,000) (\$4,000,000) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$ Infrastructure and Site Preparation Backbone Infrastructure (per developable acre) [1] \$442.603 (\$56,902,000) (\$22,586,000) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 (\$34,316,000) \$0 \$0 \$0 \$0 \$0 \$0 Subtotal Infrastructure and Site Prep Costs (Uninflated) (\$56.902.000) (\$22.586.000) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 (\$34.316.000) \$0 \$0 \$0 \$0 \$0 \$0 Misc. Master Developer Project Admin./Pursuit Costs [1] 5% of above costs (\$3,415,100) (\$136,604) (\$136,604) (\$136,604) (\$136,604) (\$136,604) (\$136,604) (\$136,604) (\$136,604) (\$136,604) (\$136,604) (\$136,604) (\$136,604) (\$136,604) (\$136,604) (\$136,604) (\$136,604) (\$136,60 Open Space and Privitized Street Maintenance Open Space Maintenance [2] (\$3,066,212) \$0 \$0 \$0 (\$18,018) (\$18,018) (\$60,551) (\$62,556) (\$71,764) (\$80,574) (\$104,073) (\$116,411) (\$125,004) (\$125,004) (\$139,948) (\$147,420) (\$154,892) (\$163,48 Street Maintenance [3] \$0 \$0 \$0 \$0 no Subtotal Maintenance Costs (Uninflate (\$3,066,212) (\$18,018) (\$71,764) (\$104,073) (\$116,411) (\$139,948) (\$147,420) (\$163,48 \$0 \$0 \$0 (\$18,018) (\$60,551) (\$62,556) (\$80,574) (\$125,004) (\$125,004) (\$154,892) Total Costs (Uninflated) (\$74,783,312) (\$30,122,604) (\$4,136,604) (\$136,604) (\$154,622) (\$154,622) (\$197,155) (\$199,160) (\$208,368) (\$217,178) (\$34,556,677) (\$253,015) (\$261,608) (\$261,608) (\$276,552) (\$284,024) (\$291,496) (\$300,08 Total Costs Inflated (\$88,916,116) (\$30,122,604) (\$4,260,702) (\$144,923) (\$168,960) (\$174,029) (\$228,557) (\$237,807) (\$256,266) (\$275,114) (\$45,088,625) (\$340,030) (\$372,990) (\$406,126) (\$454,141) (\$481,55 3% inflation (\$362,126) (\$429,612) Tax Payments on CFD Bonds Phase 1 CFD Bonds Total Tax Payments on Phase 1 Bonds [4] 2% escalation (\$9,088,014) \$0 (\$151,862) (\$309,799) (\$315,995) (\$322,315) (\$328,762) (\$335,337) (\$342,044) (\$348,884) (\$355,862) (\$362,979) (\$370,239) (\$377,644) (\$385,197) (\$392,901) (\$400,759) (\$408,7 Phase 1 Bond Payments paid by Landbuyers \$8,068,280 \$58,558 \$93,195 \$189,144 \$200,043 \$236,437 \$309,002 \$348,884 \$355,862 \$362,979 \$370,239 \$377,644 \$385,197 \$392,901 \$400,759 \$408,77 \$0 Phase 1 Payments paid by Master Developer (\$1,019,735) \$0 (\$151,862) (\$251,241) (\$222.800) (\$133,171) (\$128,719) (\$98.899) (\$33.041) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 Phase 2 CFD Bonds Total Tax Payments on Phase 2 Bonds [4] (\$7,174,318) \$0 (\$213,605) (\$435,754) (\$444,469) (\$453,359) (\$471,674) (\$481,10 \$0 \$0 (\$462,426) 2% escalation \$0 \$0 \$0 \$0 \$0 \$0 \$0 Phase 2 Bond Payments paid by Landbuyers \$4,905,717 \$0 \$0 \$0 \$0 \$48,300 \$104.153 \$129,167 \$155,140 \$229.816 \$258.747 \$263.92 \$0 \$0 \$0 \$0 (\$2,268,601) Phase 2 Payments paid by Master Developer \$0 (\$165,305) (\$331,601) (\$315,302) (\$298,218) (\$232,610) (\$212,928) (\$217,18 \$0 \$0 \$0 \$0 Total Bond Payments paid by Master Developer (\$3,288,335) \$0 (\$151,862) (\$251,241) (\$222,800) (\$133,171) (\$128,719) (\$98,899) (\$33,041) \$0 \$0 (\$165,305) (\$331,601) (\$315,302) (\$298,218) (\$232,610) (\$212,928) (\$217,186 REVENUES Bond and Fee Proceeds CFD Bond Proceeds \$7.661.000 \$3,192,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$4,469,000 \$0 \$0 \$0 \$0 \$0 \$0 \$111.584 \$1,990,852 \$531,183 \$185,827 \$103,237 \$103.237 Development Impact Fee Reimbursements \$7,147,406 \$0 \$0 \$546.823 \$19,955 \$127,224 \$127,224 \$689,037 \$18.067 \$355.885 \$521.065 EIFD Tax Increment Financing Included? \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 no \$0 \$0 \$14.808.406 \$3.192.000 \$111.584 \$127.224 \$531.183 \$127.224 \$5.158.037 \$185.827 \$355.885 \$103.237 \$521.065 \$103.237 \$0 \$546.823 \$1.990.852 \$19.955 \$18.067 Total Proceeds from Bonds and Fees \$70,149,923 Gross Land Sale Revenues \$0 \$5,206,516 \$3,025,096 \$8,636,866 \$501,740 \$2,147,245 \$6,084,367 \$2,147,245 \$5,814,136 \$3,981,453 \$454,247 \$2,594,738 \$1,742,400 \$7,072,844 \$1,742,400 Selling Costs at 3.0% of Land Value (\$2,104,498) \$0 (\$156,195) (\$90,753) (\$259,106) (\$15,052) (\$64,417) (\$182,531) (\$64,417) (\$174,424) (\$119,444) (\$13,627) (\$77,842) (\$52,272) (\$212,185) (\$52,272) Closing Costs at 1.0% of Land Value (\$701,499) (\$52,065) (\$30,251) (\$86,369) (\$5,017) (\$21,472) (\$60,844) (\$21,472) (\$58,141) (\$39,815) (\$4,542) (\$25,947) (\$17,424) (\$70,728) \$0 (\$17,424) Net Land Sale Revenues \$67,343,926 \$0 \$0 \$4,998,255 \$2,904,092 \$8,291,391 \$481,670 \$2,061,355 \$5,840,992 \$2,061,355 \$5,581,570 \$3,822,195 \$436,078 \$2,490,948 \$1,672,704 \$6,789,930 \$1,672,704 Total Revenues (Uninflated) \$67.343.926 \$3.192.000 \$0 \$5,545,078 \$3,015,676 \$10,282,243 \$501.626 \$2.188.579 \$6,372,175 \$2.188.579 \$10.739.607 \$4.008.022 \$454.144 \$2,846,833 \$1,775,941 \$7,310,995 \$1,775,941 Total Revenues Inflated 3% inflation \$113,513,362 \$3.192.000 \$0 \$5,882,774 \$3,295,310 \$11,572,755 \$581.522 \$2.613.278 \$7.836.971 \$2,772,427 \$14,012,751 \$5,386,446 \$628.642 \$4.058.904 \$2,608,030 \$11,058,536 \$2,766,859 NET PROJECT CASH FLOW (INFLATED) (\$26,930,604) (\$4,412,565) \$5,486,610 \$2,903,550 \$11,265,555 \$224,247 \$2,276,572 \$7,547,663 \$2,497,313 (\$31,075,874) \$4,881,111 \$21,308,910 (\$65,085) \$3,370,612 \$1,903,686 \$10,396,314 \$2,099,789 (\$698,74 Internal Rate of Return IRR [5] project IRR 4.36% NPV at 10% [6] (\$11.791.905) proiect total per developable acre (\$91.725) per developable square foot (\$2.11) NPV at 12% [6] (\$14,037,621) project total per developable acre (\$109,193) per developable square foot (\$2.51) NPV at 14% [6] (\$15,740,846) project total per developable acre (\$122,442) per developable square foot (\$2.81)

Source: MRIC Project Applicant; EPS

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	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)
185)	(\$172,825)	(\$187,769)	(\$195,241)	(\$210,186)	(\$218,779)	(\$226,251)	(\$233,723)	(\$233,723)
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
185)	(\$172,825)	(\$187,769)	(\$195,241)	(\$210,186)	(\$218,779)	(\$226,251)	(\$233,723)	(\$233,723)
089)	(\$309,429)	(\$324,373)	(\$331,845)	(\$346,790)	(\$355,383)	(\$362,855)	(\$370,327)	(\$370,327)
55)	(\$511,439)	(\$552,224)	(\$581,893)	(\$626,341)	(\$661,116)	(\$695,267)	(\$730,872)	(\$752,798)
774)	(\$416,949)	(\$425,288)	(\$433,794)	(\$442,470)	(\$451,319)	(\$460,346)	(\$469,553)	(\$478,944)
774	\$416,949	\$425,288	\$433,794	\$442,470	\$451,319	\$460,346	\$469,553	\$478,944
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
108)	(\$490,730)	(\$500,545)	(\$510,556)	(\$520,767)	(\$531,182)	(\$541,806)	(\$552,642)	(\$563,695)
922	\$351,483	\$358,512	\$424,949	\$433,448	\$496,926	\$534,818	\$552,642	\$563,695
186)	(\$139,248)	(\$142,033)	(\$85,607)	(\$87,319)	(\$34,256)	(\$6,988)	\$0	\$0
86)	(\$139,248)	(\$142,033)	(\$85,607)	(\$87,319)	(\$34,256)	(\$6,988)	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$559,779	\$0	\$596,649	\$0	\$185,827	\$355,885	\$18,067	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$559,779	\$0	\$596,649	\$0	\$185,827	\$355,885	\$18,067	\$0
\$0	\$7,030,438	\$0	\$4,937,754	\$0	\$3,981,453	\$2,594,738	\$454,247	\$0
\$0	(\$210,913)	\$0	(\$148,133)	\$0	(\$119,444)	(\$77,842)	(\$13,627)	\$0
\$0	(\$70,304)	\$0	(\$49,378)	\$0	(\$39,815)	(\$25,947)	(\$4,542)	\$0
\$0	\$6,749,221	\$0	\$4,740,244	\$0	\$3,822,195	\$2,490,948	\$436,078	\$0
\$0	\$7,308,999	\$0	\$5,336,893	\$0	\$4,008,022	\$2,846,833	\$454,144	\$0
\$0	\$12,080,662	\$0	\$9,358,274	\$0	\$7,456,101	\$5,454,827	\$896,293	\$0
741)	\$11,429,976	(\$694,256)	\$8,690,774	(\$713,660)	\$6,760,729	\$4,752,572	\$165,421	(\$752,798)

Table B-7 City of Davis MRIC Land Economics Analysis Projected Master Developer Cash Flow Scenario E: Reduced Development Impact Fee Reimbursements

tem	Assumption	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25
OSTS																											
and and Predevelopment Costs [1]		(\$11,400,000)	(\$7,400,000)	(\$4,000,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	:
frastructure and Site Preparation																											
Backbone Infrastructure (per developable acre) [1] subtotal Infrastructure and Site Prep Costs (Uninfl	\$442,603 ated)	(\$56,902,000) (\$56,902,000)	(\$22,586,000) (\$22,586,000)		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$34,316,000) (\$34,316,000)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$
isc. Master Developer Project Admin./Pursuit Co	ts [1] 5% of above costs	(\$3,415,100)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,60
pen Space and Privitized Street Maintenance																											
Open Space Maintenance [2] Street Maintenance [3] Privati.	red? no	(\$3,066,212) \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$18,018) \$0	(\$18,018) \$0	(\$60,551) \$0	(\$62,556) \$0	(\$71,764) \$0	(\$80,574) \$0	(\$104,073) \$0	(\$116,411) \$0	(\$125,004) \$0	(\$125,004) \$0	(\$139,948) \$0	(\$147,420) \$0	(\$154,892) \$0	(\$163,485) \$0	(\$172,825) \$0	(\$187,769) \$0	(\$195,241) \$0	(\$210,186) \$0	(\$218,779) \$0	(\$226,251) \$0	(\$233,723) \$0) (\$233,72
ubtotal Maintenance Costs (Uninflated)		(\$3,066,212)	\$0 \$0	\$0 \$0	\$0 \$0	(\$18,018)		(\$60,551)	(\$62,556)	(\$71,764)	(\$80,574)	+-	(\$116,411)	(\$125,004)	پور (\$125,004)	•	پې (\$147,420)	**	**	پور (\$172,825)	₄₀ (\$187,769)	₄₀ (\$195,241)	+-	پن (\$218,779)	**	(\$233,723)	
otal Costs (Uninflated)		(\$74,783,312)	(\$30,122,604)	(\$4,136,604)	(\$136,604)	(\$154,622)	(\$154,622)	(\$197,155)	(\$199,160)	(\$208,368)	(\$217,178)	(\$34,556,677)	(\$253,015)	(\$261,608)	(\$261,608)	(\$276,552)	(\$284,024)	(\$291,496)	(\$300,089)	(\$309,429)	(\$324,373)	(\$331,845)	(\$346,790)	(\$355,383)	(\$362,855)	(\$370,327)	(\$370,32
otal Costs Inflated	3% inflation	(\$88,916,116)	(\$30,122,604)	(\$4,260,702)	(\$144,923)	(\$168,960)	(\$174,029)	(\$228,557)	(\$237,807)	(\$256,266)	(\$275,114)	(\$45,088,625)	(\$340,030)	(\$362,126)	(\$372,990)	(\$406,126)	(\$429,612)	(\$454,141)	(\$481,555)	(\$511,439)	(\$552,224)	(\$581,893)	(\$626,341)	(\$661,116)	(\$695,267)	(\$730,872)	(\$752,79
ax Payments on CFD Bonds																											
Phase 1 CFD Bonds																											
Total Tax Payments on Phase 1 Bonds [4]	2% escalation	(\$18,041,268)	\$0 \$0	(\$301,473)	(\$615,005)			(\$652,648)	(\$665,701)	(\$679,015)	(\$692,595)	(\$706,447)	(\$720,576)	(\$734,988)	(\$749,688)		(\$779,975) \$770,075	(\$795,574)	(\$811,486)	(\$827,716)	(\$844,270)	(\$861,155)	(\$878,378)	(\$895,946)	(\$913,865)	(\$932,142)	
Phase 1 Bond Payments paid by Landbuyers Phase 1 Payments paid by Master Developer		\$16,016,920 (\$2,024,348)	\$0 \$0	\$0 (\$301,473)	\$116,248 (\$498,757)	\$185,008 (\$442,297)	\$375,483 (\$264,368)	\$397,120 (\$255,528)	\$469,369 (\$196,332)	\$613,422 (\$65,593)	\$692,595 \$0	\$706,447 \$0	\$720,576 \$0	\$734,988 \$0	\$749,688 \$0	\$764,681 \$0	\$779,975 \$0	\$795,574 \$0	\$811,486 \$0	\$827,716 \$0	\$844,270 \$0	\$861,155 \$0	\$878,378 \$0	\$895,946 \$0	\$913,865 \$0	\$932,142 \$0	\$950,78 \$
Phase 2 CFD Bonds																											
Total Tax Payments on Phase 2 Bonds [4]	2% escalation	(\$14,242,251)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$424,043)	(\$865,047)	(\$882,348)	(\$899,995)	(\$917,995)	(\$936,355)	(\$955,082)	(\$974,184)	(\$993,667)	(\$1,013,541)	(\$1,033,811)	(\$1,054,488)	(\$1,075,577)	(\$1,097,089)	(\$1,119,03
Phase 2 Bond Payments paid by Landbuyers Phase 2 Payments paid by Master Developer		\$9,738,690 (\$4,503,562)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$95,885 (\$328,158)	\$206,762 (\$658,285)	\$256,419 (\$625,929)	\$307,980 (\$592,015)	\$456,223 (\$461,771)	\$513,656 (\$422,698)	\$523,929 (\$431,152)	\$697,753 (\$276,430)	\$711,708 (\$281,959)	\$843,596 (\$169,944)	\$860,468 (\$173,343)	\$986,484 (\$68,004)	\$1,061,705 (\$13,873)	\$1,097,089 \$0	\$1,119,03 \$
fotal Bond Payments paid by Master Developer		(\$6,527,910)	\$0	(\$301,473)	(\$498,757)	(\$442,297)	(\$264,368)	(\$255,528)	(\$196,332)	(\$65,593)	\$0	\$0	(\$328,158)	(\$658,285)	(\$625,929)	(\$592,015)	(\$461,771)	(\$422,698)	(\$431,152)	(\$276,430)	(\$281,959)	(\$169,944)	(\$173,343)	(\$68,004)	(\$13,873)	\$0	\$
REVENUES																											
Bond and Fee Proceeds																											
CFD Bond Proceeds		\$15,139,000	\$6,293,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,846,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	9
Development Impact Fee Reimbursements	-1	\$3,573,703	\$0	\$0 ©0	\$273,412	\$55,792	\$995,426	\$9,978	\$63,612	\$265,591	\$63,612	\$344,518	\$92,913	\$9,033	\$177,943	\$51,619	\$260,532	\$51,619	\$0 \$0	\$279,889	\$0	\$298,324	\$0 ©	\$92,913	\$177,943	\$9,033	
EIFD Tax Increment Financing Inclu Fotal Proceeds from Bonds and Fees	ded? no	\$0 \$18,712,703	\$0 \$6,293,000	\$0 \$0	\$0 \$273,412	\$0 \$55,792	\$0 \$995,426	\$0 \$9,978	\$0 \$63,612	\$0 \$265,591	\$0 \$63,612	\$0 \$9,190,518	\$0 \$92,913	\$0 \$9,033	\$0 \$177,943	\$0 \$51,619	\$0 \$260,532	\$0 \$51,619	\$0 \$0	\$0 \$279,889	\$0 \$0	\$0 \$298,324	\$0 \$0	\$0 \$92,913	\$0 \$177,943	\$0 \$9,033	5
Gross Land Sale Revenues		\$65,742,407	\$0	\$0	\$4,912,887	\$2,755,918	\$8,343,237	\$453,601	\$2,147,245	\$5,521,560	\$2,147,245	\$5,289,719	\$3,782,219	\$410,665	\$2,345,695	\$1,742,400	\$6,425,332	\$1,742,400	\$0	\$6,538,578	\$0	\$4,645,129	\$0	\$3,782,219	\$2,345,695	\$410,665	5
Selling Costs at 3.0% of Land Value		(\$1,972,272)	\$0	\$0	(\$147,387)	(\$82,678)	(\$250,297)	(\$13,608)	(\$64,417)	(\$165,647)	(\$64,417)	(\$158,692)	(\$113,467)	(\$12,320)	(\$70,371)	(\$52,272)	(\$192,760)	(\$52,272)	\$0	(\$196,157)	\$0	(\$139,354)	\$0	(\$113,467)	(\$70,371)	(\$12,320)) 9
Closing Costs at 1.0% of Land Value		(\$657,424)	\$0		(\$49,129)	(\$27,559)		(\$4,536)	(\$21,472)	(\$55,216)	(\$21,472)	(\$52,897)	(\$37,822)	(\$4,107)	(\$23,457)	(\$17,424)	(\$64,253)	(\$17,424)	\$0	(\$65,386)	\$0	(\$46,451)	\$0	(\$37,822)	(\$23,457)	(\$4,107)	
let Land Sale Revenues		\$63,112,710	\$0	\$0	\$4,716,371	\$2,645,681	\$8,009,507	\$435,457	\$2,061,355	\$5,300,697	\$2,061,355	\$5,078,130	\$3,630,930	\$394,238	\$2,251,867	\$1,672,704	\$6,168,319	\$1,672,704	\$0	\$6,277,035	\$0	\$4,459,323	\$0	\$3,630,930	\$2,251,867	\$394,238	\$
Fotal Revenues (Uninflated)		\$63,112,710	\$6,293,000	\$0	\$4,989,783	\$2,701,473	\$9,004,933	\$445,434	\$2,124,967	\$5,566,289	\$2,124,967	\$14,268,649	\$3,723,843	\$403,272	\$2,429,809	\$1,724,323	\$6,428,851	\$1,724,323	\$0	\$6,556,924	\$0	\$4,757,648	\$0	\$3,723,843	\$2,429,809	\$403,272	5
fotal Revenues Inflated	3% inflation	\$111,411,723	\$6,293,000	\$0	\$5,293,661	\$2,951,973	\$10,135,132	\$516,381	\$2,537,322	\$6,845,833	\$2,691,845	\$18,617,350	\$5,004,534	\$558,222	\$3,464,327	\$2,532,226	\$9,724,214	\$2,686,438	\$0	\$10,837,597	\$0	\$8,342,564	\$0	\$6,927,446	\$4,655,766	\$795,891	\$
IET PROJECT CASH FLOW (INFLATED)		\$15,967,697	(\$23,829,604)	(\$4,562,175)	\$4,649,981	\$2,340,716	\$9,696,735	\$32,296	\$2,103,183	\$6,523,974	\$2,416,731	(\$26,471,275)	\$4,336,346	(\$462,189)	\$2,465,409	\$1,534,086	\$8,832,831	\$1,809,599	(\$912,707)	\$10,049,728	(\$834,183)	\$7,590,727	(\$799,684)	\$6,198,325	\$3,946,626	\$65,019	(\$752,79
Internal Rate of Return IRR [5]	project IRR	3.69%																									
NPV at 10% [6]	project total	(\$11,788,311)																									
	per developable acre	(\$91,697)																									
	per developable square foot	(\$2.11)																									
NPV at 12% [6]	project total	(\$13,662,059)																									
	per developable acre per developable square foot	(\$106,272) (\$2.44)																									
NPV at 14% [6]	project total per developable acre	(\$15,081,037) (\$117,309)																									

Source: MRIC Project Applicant; EPS

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Table B-8 City of Davis MRIC Land Economics Analysis Projected Master Developer Cash Flow Scenario F: Reduced Infrastructure Costs

ltem	Assumption	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25
OSTS																											
and and Predevelopment Costs [1]		(\$11,400,000)	(\$7,400,000)	(\$4,000,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
frastructure and Site Preparation																											
Backbone Infrastructure (per developable acre) [1] Subtotal Infrastructure and Site Prep Costs (Uninflated)	\$398,343	(\$51,211,000) (\$51,211,000)	(\$20,327,000) (\$20,327,000)		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(+;)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	9 9
lisc. Master Developer Project Admin./Pursuit Costs [1]	5% of above costs	(\$3,130,550)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,222)	(\$125,22
Open Space and Privitized Street Maintenance																											
Open Space Maintenance [2] Street Maintenance [3] Privatized?	20	(\$3,066,212) \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$18,018) \$0	(\$18,018) \$0	(\$60,551) \$0	(\$62,556) \$0	(\$71,764) \$0	(\$80,574) \$0	(\$104,073) \$0	(\$116,411) \$0	(\$125,004) \$0	(\$125,004)	(\$139,948) \$0	(\$147,420) \$0	(\$154,892) \$0	(\$163,485) \$0	(\$172,825) \$0	(\$187,769) \$0	(\$195,241)	(\$210,186) \$0	(\$218,779) \$0	(\$226,251) \$0	(\$233,723) \$0	(\$233,72
Subtotal Maintenance Costs (Uninflated)	no	پوں (\$3,066,212)	\$0 \$0	\$0 \$0	\$0 \$0	₄₀ (\$18,018)	₅₀ (\$18,018)	ψŪ	هو (\$62,556)	ψu	50 (\$80,574)	φe	هں (\$116,411)	₄₀ (\$125,004)	₄₀ (\$125,004)	• •		₅₀ (\$154,892)	هں (\$163,485)	_{\$0} (\$172,825)	₅∪ (\$187,769)	₀0 (\$195,241)	₄₀ (\$210,186)	• ·	\$ 5	₀0 (\$233,723)	
Fotal Costs (Uninflated)		(\$68,807,762)	(\$27,852,222)	(\$4,125,222)	(\$125,222)	(\$143,240)	(\$143,240)	(\$185,773)	(\$187,778)	(\$196,986)	(\$205,796)	(\$31,113,295)	(\$241,633)	(\$250,226)	(\$250,226)	(\$265,170)	(\$272,642)	(\$280,114)	(\$288,707)	(\$298,047)	(\$312,991)	(\$320,463)	(\$335,408)	(\$344,001)	(\$351,473)	(\$358,945)	(\$358,94
Total Costs Inflated	3% inflation	(\$81,764,155)	(\$27,852,222)	(\$4,248,979)	(\$132,848)	(\$156,522)	(\$161,218)	(\$215,362)	(\$224,216)	(\$242,268)	(\$260,696)	(\$40,595,793)	(\$324,734)	(\$346,371)	(\$356,762)	(\$389,411)	(\$412,395)	(\$436,408)	(\$463,290)	(\$492,626)	(\$532,847)	(\$561,935)	(\$605,784)	(\$639,942)	(\$673,458)	(\$708,409)	(\$729,66
ax Payments on CFD Bonds																											
Phase 1 CFD Bonds		(\$40.044.000)	6 0	(\$204.470)	(*045.005)	(\$007.005)	(\$000.054)	(\$050.040)	(\$005 704)	(\$070.045)	(\$000 505)	(\$700.447)	(\$200 520)	(\$704.000)	(\$740,000)	(\$704.004)	(\$770.075)	(\$705 574)	(\$044,400)	(\$207.740)	(\$0.44.070)	(\$004.455)	(\$070.070)	(\$895,946)	(*040.005)	(\$000.440)	(\$050.70
Total Tax Payments on Phase 1 Bonds [4] Phase 1 Bond Payments paid by Landbuyers	2% escalation	(\$18,041,268) \$16,016,920	\$0 \$0	(\$301,473) \$0	(\$615,005) \$116,248	(\$627,305) \$185.008	(\$639,851) \$375,483	(\$652,648) \$397,120	(\$665,701) \$469,369	(\$679,015) \$613,422	(\$692,595) \$692,595	(\$706,447) \$706,447	(\$720,576) \$720,576	(\$734,988) \$734,988	(\$749,688) \$749,688	(\$764,681) \$764,681	(\$779,975) \$779,975	(\$795,574) \$795,574	(\$811,486) \$811,486	(\$827,716) \$827,716	(\$844,270) \$844,270	(\$861,155) \$861,155	(\$878,378) \$878,378	(\$895,946) \$895,946	(\$913,865) \$913,865	(\$932,142) \$932,142	
Phase 1 Payments paid by Master Developer		(\$2,024,348)	\$0			(\$442,297)	(\$264,368)	(\$255,528)	(\$196,332)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$
Phase 2 CFD Bonds																											
Total Tax Payments on Phase 2 Bonds [4]	2% escalation	(\$14,242,251)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$424,043)	(\$865,047)	(\$882,348)	,		(\$936,355)	(\$955,082)	(\$974,184)		(\$1,013,541)					
Phase 2 Bond Payments paid by Landbuyers		\$9,738,690	\$0	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0	\$0	\$95,885	\$206,762	\$256,419	\$307,980	\$456,223	\$513,656	\$523,929	\$697,753	\$711,708	\$843,596	\$860,468	\$986,484	\$1,061,705	\$1,097,089	
Phase 2 Payments paid by Master Developer		(\$4,503,562)	\$0	\$0	\$0	\$0	φυ	ψŪ		\$0	\$0	\$0	(\$328,158)	(\$658,285)	(\$625,929)			(\$422,698)	(\$431,152)	(\$276,430)	(\$281,959)	(\$169,944)	(\$173,343)	(\$68,004)		\$0	\$
Total Bond Payments paid by Master Developer		(\$6,527,910)	\$0	(\$301,473)	(\$498,757)	(\$442,297)	(\$264,368)	(\$255,528)	(\$196,332)	(\$65,593)	\$0	\$0	(\$328,158)	(\$658,285)	(\$625,929)	(\$592,015)	(\$461,771)	(\$422,698)	(\$431,152)	(\$276,430)	(\$281,959)	(\$169,944)	(\$173,343)	(\$68,004)	(\$13,873)	\$0	\$
REVENUES																											
Bond and Fee Proceeds		A.E. (00.000	* ******	•	•	•	A 0	A 2		0 0	•	A A A A A A A A	•	A 2	^	^	A 0	6 0	•	^	6 0	•	A 2	•	••		
CFD Bond Proceeds Development Impact Fee Reimbursements		\$15,139,000 \$7,147,406	\$6,293,000 \$0	\$0 \$0	\$0 \$546,823	\$0 \$111,584	\$0 \$1,990,852	\$0 \$19,955	\$0 \$127,224	\$0 \$531,183	\$0 \$127,224	\$8,846,000 \$689,037	\$0 \$185,827	\$0 \$18,067	\$0 \$355,885	\$0 \$103,237	\$0 \$521,065	\$0 \$103,237	\$0 \$0	\$0 \$559,779	\$0 \$0	\$0 \$596,649	\$0 \$0	\$0 \$185,827	\$0 \$355,885	\$0 \$18,067	9
EIFD Tax Increment Financing Included?	no	\$0	\$0 \$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$
Total Proceeds from Bonds and Fees		\$22,286,406	\$6,293,000	\$0	\$546,823	\$111,584	\$1,990,852	\$19,955	\$127,224	\$531,183	\$127,224	\$9,535,037	\$185,827	\$18,067	\$355,885	\$103,237	\$521,065	\$103,237	\$0	\$559,779	\$0	\$596,649	\$0	\$185,827	\$355,885	\$18,067	\$
Gross Land Sale Revenues		\$65,742,407	\$0	\$0	\$4,912,887	\$2,755,918	\$8,343,237	\$453,601	\$2,147,245	\$5,521,560	\$2,147,245	\$5,289,719	\$3,782,219	\$410,665	\$2,345,695	\$1,742,400	\$6,425,332	\$1,742,400	\$0	\$6,538,578	\$0	\$4,645,129	\$0	\$3,782,219	\$2,345,695	\$410,665	\$
Selling Costs at 3.0% of Land Value		(\$1,972,272)	\$0	\$0	(\$147,387)	(\$82,678)	(\$250,297)	(\$13,608)	(\$64,417)	,	(\$64,417)		(\$113,467)	(\$12,320)	(\$70,371)			(\$52,272)	\$0	(\$196,157)	\$0	(\$139,354)	\$0	(\$113,467)	,	(\$12,320)	
Closing Costs at 1.0% of Land Value Net Land Sale Revenues		(\$657,424) \$63,112,710	\$0 \$0		(\$49,129) \$4,716,371	(\$27,559) \$2,645,681	(\$83,432) \$8,009,507	(\$4,536) \$435,457	(\$21,472) \$2,061,355	(\$55,216) \$5,300,697	(\$21,472) \$2,061,355	(\$52,897) \$5,078,130	(\$37,822) \$3,630,930	(\$4,107) \$394,238	(\$23,457) \$2,251,867	(\$17,424) \$1,672,704	(\$64,253) \$6,168,319	(\$17,424) \$1,672,704	\$0 \$0	(\$65,386) \$6,277,035	\$0 \$0	(\$46,451) \$4,459,323	\$0 \$0	(\$37,822) \$3,630,930	(\$23,457) \$2,251,867	(\$4,107) \$394,238	5
Net Land Sale Revenues		\$03,112,71U	\$U	\$U	\$4,710,371	\$2,04 3,0 0 I	\$0,009,507	\$435,45 7	\$2,001,355	\$5,300,697	\$2,061,355	\$5,076,130	\$3,030,930	\$394,230	\$2,251,007	\$1,072,704	\$0,100,319	\$1,672,704	\$U	\$6,277,035	\$U	\$4,459,323	\$U	\$3,630,930	\$2,251,007	\$394,230	
Total Revenues (Uninflated)		\$63,112,710	\$6,293,000	\$0			\$10,000,359	\$455,412		\$5,831,880	\$2,188,579		\$3,816,757	\$412,305	\$2,607,752		\$6,689,383	\$1,775,941		\$6,836,814		\$5,055,972		\$3,816,757	\$2,607,752	\$412,305	ş
Total Revenues Inflated	3% inflation	\$116,286,115	\$6,293,000	\$0	\$5,583,723	\$3,012,938	\$11,255,493	\$527,947	\$2,613,278	\$7,172,477	\$2,772,427	\$19,066,868	\$5,129,402	\$570,726	\$3,718,031	\$2,608,030	\$10,118,293	\$2,766,859	\$0	\$11,300,211	\$0	\$8,865,678	\$0	\$7,100,292	\$4,996,723	\$813,719	\$
NET PROJECT CASH FLOW (INFLATED)		\$27,994,050	(\$21,559,222)	(\$4,550,452)	\$4,952,119	\$2,414,119	\$10,829,906	\$57,057	\$2,192,730	\$6,864,616	\$2,511,731	(\$21,528,925)	\$4,476,510	(\$433,929)	\$2,735,341	\$1,626,604	\$9,244,126	\$1,907,752	(\$894,442)	\$10,531,155	(\$814,806)	\$8,133,799	(\$779,127)	\$6,392,346	\$4,309,392	\$105,311	(\$729,66
Internal Rate of Return IRR [5]	project IRR	6.88%																									
NPV at 10% [6]	project total	(\$5,468,534)																									
	per developable acre	(\$42,538)																									
per d	velopable square foot	(\$0.98)																									
NPV at 12% [6]	project total	(\$7,896,633)																									
	per developable acre	(\$61,425)																									
per d	velopable square foot	(\$1.41)																									
NPV at 14% [6]	project total per developable acre	(\$9,771,346) (\$76,007)																									

Source: MRIC Project Applicant; EPS

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Table B-9 City of Davis MRIC Land Economics Analysis Projected Master Developer Cash Flow Scenario G: Additional Mitigation

Item	Assumption	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25
COSTS																											
Land and Predevelopment Costs [1]		(\$13,400,000)	(\$7,400,000)) (\$6,000,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Infrastructure and Site Preparation																											
Backbone Infrastructure (per developable acre) [1] Subtotal Infrastructure and Site Prep Costs (Uninfla	\$442,603 ed)	(\$56,902,000) (\$56,902,000)	(\$22,586,000) (\$22,586,000)		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$34,316,000) (\$34,316,000)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Misc. Master Developer Project Admin./Pursuit Cost	s [1] 5% of above costs	(\$3,515,100)	(\$140,604) (\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604)	(\$140,604
Open Space and Privitized Street Maintenance																											
Open Space Maintenance [2] Street Maintenance [3] Privatize	49	(\$3,066,212)	\$0 \$0	\$0 \$0	\$0 \$0	(\$18,018) \$0	(\$18,018) \$0	(\$60,551) \$0	(\$62,556) \$0	(\$71,764) \$0	(\$80,574) \$0	(\$104,073) \$0	(\$116,411) \$0	(\$125,004) \$0	(\$125,004) \$0	(\$139,948) \$0	(\$147,420) \$0	(\$154,892) \$0	(\$163,485) \$0	(\$172,825) \$0	(\$187,769) \$0	(\$195,241) \$0	(\$210,186) \$0	(\$218,779) \$0	(\$226,251) \$0	(\$233,723)	
Street Maintenance [3] Privatize Subtotal Maintenance Costs (Uninflated)	d? no	\$0 (\$3,066,212)	\$0 \$0		\$0 \$0	₅∪ (\$18,018)		**	• -	_{\$0} (\$71,764)	پور (\$80,574)	+-	₀0 (\$116,411)	_{\$0} (\$125,004)	ه0 (\$125,004)	**	**	+-	+-	₄₀ (\$172,825)	₅∪ (\$187,769)	**	+-	₄₀ (\$218,779)	+-	₀0 (\$233,723)	\$0 (\$233,723
Total Costs (Uninflated)		(\$76,883,312)	(\$30,126,604)) (\$6,140,604)	(\$140,604)	(\$158,622)	(\$158,622)	(\$201,155)	(\$203,160)	(\$212,368)	(\$221,178)	(\$34,560,677)	(\$257,015)	(\$265,608)	(\$265,608)	(\$280,552)	(\$288,024)	(\$295,496)	(\$304,089)	(\$313,429)	(\$328,373)	(\$335,845)	(\$350,790)	(\$359,383)	(\$366,855)	(\$374,327)	(\$374,327
Total Costs Inflated	3% inflation	(\$91,121,953)	(\$30,126,604)	(\$6,324,822)	(\$149,167)	(\$173,331)	(\$178,531)	(\$233,194)	(\$242,583)	(\$261,186)	(\$280,181)	(\$45,093,844)	(\$345,406)	(\$367,663)	(\$378,693)	(\$412,000)	(\$435,662)	(\$460,373)	(\$487,973)	(\$518,050)	(\$559,034)	(\$588,907)	(\$633,565)	(\$668,557)	(\$702,932)	(\$738,766)	(\$760,929
Tax Payments on CFD Bonds																											
Phase 1 CFD Bonds																											
Total Tax Payments on Phase 1 Bonds [4] Phase 1 Bond Payments paid by Landbuyers	2% escalation	(\$18,041,268) \$16,016,920	\$0 \$0			,	(\$639,851) \$375,483	(\$652,648) \$397,120	(\$665,701) \$469,369	(\$679,015) \$613,422	(\$692,595) \$692,595	(\$706,447) \$706,447	(\$720,576) \$720,576	(\$734,988) \$734,988	(\$749,688) \$749,688	(\$764,681) \$764,681	(\$779,975) \$779,975	(\$795,574) \$795,574	(\$811,486) \$811,486	(\$827,716) \$827,716	(\$844,270) \$844,270	(\$861,155) \$861,155	(\$878,378) \$878,378	(\$895,946) \$895,946	(\$913,865) \$913,865	(\$932,142) \$932,142	(\$950,785 \$950,785
Phase 1 Payments paid by Master Developer		(\$2,024,348)	\$0 \$0						(\$196,332)	(\$65,593)	\$0 \$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$000,780 \$(
Phase 2 CFD Bonds	2 07 1.7	(\$14,040,054)	* 0	6 0	* 0	* 0	\$ 0	¢0	6 0	¢0	* 0	* 0	(\$404.040)	(\$005.047)	(\$000.040)	(6000.005)	(\$047.005)	(\$000.055)	(\$055.000)	(6074.404)	(\$000.007)	(64.040.544)	(\$4,000,044)	(\$4.054.400)	(64 075 577)	(\$4,007,000)	(64.440.00
Total Tax Payments on Phase 2 Bonds [4] Phase 2 Bond Payments paid by Landbuyers	2% escalation	(\$14,242,251) \$9,738,690	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$424,043) \$95,885	(\$865,047) \$206,762	(\$882,348) \$256,419	(\$899,995) \$307,980	(\$917,995) \$456,223	(\$936,355) \$513,656	(\$955,082) \$523,929	(\$974,184) \$697,753	(\$993,667) \$711,708	(\$1,013,541) \$843,596	(\$1,033,811) \$860,468	(\$1,054,488) \$986,484	(\$1,075,577) \$1,061,705	(\$1,097,089) \$1,097,089	(\$1,119,03 [,] \$1,119,03 [,]
Phase 2 Payments paid by Master Developer		(\$4,503,562)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$328,158)	(\$658,285)	(\$625,929)	(\$592,015)		(\$422,698)	(\$431,152)	(\$276,430)	(\$281,959)	(\$169,944)	(\$173,343)	(\$68,004)	(\$13,873)	\$0	\$(
Total Bond Payments paid by Master Developer		(\$6,527,910)	\$0	(\$301,473)	(\$498,757)	(\$442,297)	(\$264,368)	(\$255,528)	(\$196,332)	(\$65,593)	\$0	\$0	(\$328,158)	(\$658,285)	(\$625,929)	(\$592,015)	(\$461,771)	(\$422,698)	(\$431,152)	(\$276,430)	(\$281,959)	(\$169,944)	(\$173,343)	(\$68,004)	(\$13,873)	\$0	\$0
REVENUES																											
Bond and Fee Proceeds																											
CFD Bond Proceeds		\$15,139,000 \$7,147,406	\$6,293,000 \$0		\$0 \$546,823	\$0 \$111,584	\$0 \$1,990,852	\$0 \$19,955	\$0 \$127,224	\$0 \$531,183	\$0 \$127,224	\$8,846,000 \$689,037	\$0 \$185,827	\$0 \$18,067	\$0 \$355,885	\$0 \$103,237	\$0 \$521,065	\$0 \$103,237	\$0 \$0	\$0 \$559,779	\$0 \$0	\$0 \$596,649	\$0 \$0	\$0 \$185,827	\$0 \$355,885	\$0 \$18,067	\$0 \$0
Development Impact Fee Reimbursements EIFD Tax Increment Financing Include	ed? no	\$7,147,400 \$0	\$0 \$0	\$0 \$0	\$340,823 \$0	\$111,584 \$0	\$1,990,852 \$0	\$19,955	\$127,224 \$0	\$031,183 \$0	\$127,224	\$089,037 \$0	\$165,627	\$18,007	\$355,885 \$0	\$103,237	\$521,005 \$0	\$103,237 \$0	\$0 \$0	\$359,779 \$0	\$0 \$0	\$590,049 \$0	\$0 \$0	\$185,827 \$0	\$355,885 \$0	\$18,007	\$0
Total Proceeds from Bonds and Fees		\$22,286,406	\$6,293,000	\$0	\$546,823	\$111,584	\$1,990,852	\$19,955	\$127,224	\$531,183	\$127,224	\$9,535,037	\$185,827	\$18,067	\$355,885	\$103,237	\$521,065	\$103,237	\$0	\$559,779	\$0	\$596,649	\$0	\$185,827	\$355,885	\$18,067	\$0
Gross Land Sale Revenues		\$65,742,407	\$0	\$0	\$4,912,887	\$2,755,918	\$8,343,237	\$453,601	\$2,147,245	\$5,521,560	\$2,147,245	\$5,289,719	\$3,782,219	\$410,665	\$2,345,695	\$1,742,400	\$6,425,332	\$1,742,400	\$0	\$6,538,578	\$0	\$4,645,129	\$0	\$3,782,219	\$2,345,695	\$410,665	\$0
Selling Costs at 3.0% of Land Value		(\$1,972,272)	\$0 \$0		,	,	(\$250,297)	(\$13,608)	(\$64,417)	(\$165,647)	(\$64,417)	(\$158,692)	(\$113,467)	(\$12,320)	(\$70,371)	(\$52,272)	(\$192,760)	(\$52,272)	\$0 \$0	(\$196,157)	\$0 \$0		\$0 \$0	(\$113,467)	(\$70,371)	(\$12,320)	
Closing Costs at 1.0% of Land Value Net Land Sale Revenues		(\$657,424) \$63,112,710	\$0 \$0		(\$49,129) \$4,716,371		(\$83,432) \$8,009,507	(\$4,536) \$435,457	(\$21,472) \$2,061,355	(\$55,216) \$5,300,697	(\$21,472) \$2,061,355	(\$52,897) \$5,078,130	(\$37,822) \$3,630,930	(\$4,107) \$394,238	(\$23,457) \$2,251,867	(\$17,424) \$1,672,704	(\$64,253) \$6,168,319	(\$17,424) \$1,672,704	\$0 \$0	(\$65,386) \$6,277,035		(\$46,451) \$4,459,323	\$0 \$0	(\$37,822) \$3,630,930	(\$23,457) \$2,251,867	(\$4,107) \$394,238	\$0 \$0
Total Revenues (Uninflated)		\$63,112,710	\$6,293,000	\$0	\$5,263,195	\$2,757,265	\$10,000,359	\$455,412	\$2,188,579	\$5,831,880	\$2,188,579	\$14,613,167	\$3,816,757	\$412,305	\$2,607,752	\$1,775,941	\$6,689,383	\$1,775,941	\$0	\$6,836,814	\$0	\$5,055,972	\$0	\$3,816,757	\$2,607,752	\$412,305	\$0
Total Revenues Inflated	3% inflation	\$116,286,115	\$6,293,000	\$0	\$5,583,723	\$3,012,938	\$11,255,493	\$527,947	\$2,613,278	\$7,172,477	\$2,772,427	\$19,066,868	\$5,129,402	\$570,726	\$3,718,031	\$2,608,030	\$10,118,293	\$2,766,859	\$0	\$11,300,211	\$0	\$8,865,678	\$0	\$7,100,292	\$4,996,723	\$813,719	\$0
NET PROJECT CASH FLOW (INFLATED)		\$18,636,252	(\$23,833,604)	(\$6,626,295)	\$4,935,800	\$2,397,311	\$10,812,594	\$39,225	\$2,174,363	\$6,845,699	\$2,492,246	(\$26,026,976)	\$4,455,838	(\$455,222)	\$2,713,410	\$1,604,015	\$9,220,859	\$1,883,787	(\$919,126)	\$10,505,731	(\$840,992)	\$8,106,827	(\$806,908)	\$6,363,731	\$4,279,918	\$74,953	(\$760,929
Internal Rate of Return IRR [5]	project IRR	4.08%																									
NPV at 10% [6]	project total	(\$11,693,284)																									
	per developable acre	(\$90,957)																									
	per developable square foot	(\$2.09)																									
NPV at 12% [6]	project total	(\$13,776,480)																									
	per developable acre per developable square foot	(\$107,162) (\$2.46)																									
NPV at 14% [6]	project total	(\$15,360,113)																									
	per developable acre	(\$119,480)																									
	per developable square foot	(\$2.74)																									

Source: MRIC Project Applicant; EPS

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Table B-10 City of Davis MRIC Land Economics Analysis Projected Master Developer Cash Flow Scenario H: Privitized Street Maintenance

Item	Assumption	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25
COSTS																											
Land and Predevelopment Costs [1]		(\$11,400,000)	(\$7,400,000)	(\$4,000,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Infrastructure and Site Preparation Backbone Infrastructure (per developable acre) [1] Subtotal Infrastructure and Site Prep Costs (Uninflated)	\$442,603	(\$56,902,000) (\$56,902,000)	(\$22,586,000) (\$22,586,000)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$34,316,000) (\$34,316,000)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
				•••	ţu		ţ	ţ		ţ								ţ.		ţu		ţ.		ţu			
Misc. Master Developer Project Admin./Pursuit Costs [1	5% of above costs	(\$3,415,100)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604)	(\$136,604
Open Space and Privitized Street Maintenance Open Space Maintenance [2]		(\$3,066,212)	\$0	\$0	\$0	(\$18,018)	(\$18,018)	(\$60,551)	(\$62,556)	(\$71,764)	(\$80,574)	(\$104,073)	(\$116,411)	(\$125,004)	(\$125,004)	(\$139,948)	(\$147,420)	(\$154,892)	(\$163,485)	(\$172,825)	(\$187,769)	(\$195,241)	(\$210,186)	(\$218,779)	(\$226,251)	(\$233,723)	(\$233,723
Street Maintenance [3] Privatized?	yes	(\$2,280,758)	\$0	\$0	\$0	(\$13,403)	(\$13,403)	(\$45,040)	(\$46,531)	(\$53,381)	(\$59,934)	(\$77,413)	(\$86,590)	(\$92,982)	(\$92,982)	,	(\$109,656)	(\$115,214)	(\$121,606)	(\$128,553)	(,	(\$145,228)	(\$156,344)	(\$162,735)	,	(\$173,851)	
Subtotal Maintenance Costs (Uninflated)	,	(\$5,346,970)	\$0	\$0	\$0	(\$31,421)	(\$31,421)	(\$105,591)	(\$109,087)	(\$125,144)	(\$140,507)	(\$181,486)	(\$203,001)	(\$217,986)	(\$217,986)	(\$244,046)	(\$257,076)		(\$285,091)	(\$301,379)	(\$327,439)	(\$340,469)	(\$366,529)			(\$407,574)	(\$407,574
Total Costs (Uninflated)		(\$77,064,070)	(\$30,122,604)	(\$4,136,604)	(\$136,604)	(\$168,025)	(\$168,025)	(\$242,195)	(\$245,691)	(\$261,748)	(\$277,111)	(\$34,634,090)	(\$339,605)	(\$354,590)	(\$354,590)	(\$380,650)	(\$393,680)	(\$406,710)	(\$421,695)	(\$437,983)	(\$464,043)	(\$477,073)	(\$503,133)	(\$518,118)	(\$531,148)	(\$544,178)	(\$544,178
Total Costs Inflated	3% inflation	(\$92,676,235)	(\$30,122,604)	(\$4,260,702)	(\$144,923)	(\$183,605)	(\$189,113)	(\$280,770)	(\$293,368)	(\$321,917)	(\$351,036)	(\$45,189,632)	(\$456,401)	(\$490,835)	(\$505,560)	(\$558,997)	(\$595,476)	(\$633,641)	(\$676,696)	(\$723,918)	(\$790,002)	(\$836,550)	(\$908,715)	(\$963,852)	(\$1,017,735)	(\$1,073,983)	(\$1,106,202
Tax Payments on CFD Bonds																											
Phase 1 CFD Bonds				(***********		(**********					(***********			·		·							· · · · · · · · · · · · · · · · · · ·		(4		
Total Tax Payments on Phase 1 Bonds [4] Phase 1 Bond Payments paid by Landbuyers	2% escalation	(\$18,041,268) \$16,016,920	\$0 \$0	(\$301,473) \$0	(\$615,005) \$116,248	(\$627,305) \$185,008	(\$639,851) \$375,483	(\$652,648) \$397,120	(\$665,701) \$469,369	(\$679,015) \$613,422	(\$692,595) \$692,595	(\$706,447) \$706,447	(\$720,576) \$720,576	(\$734,988) \$734,988	(\$749,688) \$749,688	(\$764,681) \$764,681	(\$779,975) \$779,975	(\$795,574) \$795,574	(\$811,486) \$811,486	(\$827,716) \$827,716	(\$844,270) \$844,270	(\$861,155) \$861,155	(\$878,378) \$878,378	(\$895,946) \$895,946	(\$913,865) \$913,865	(\$932,142) \$932,142	(\$950,785 \$950,785
Phase 1 Payments paid by Master Developer		(\$2,024,348)	\$0 \$0	(\$301,473)	(\$498,757)	(\$442,297)	(\$264,368)	(\$255,528)			\$092,595 \$0	\$700,447 \$0	\$720,578 \$0	\$734,988 \$0	\$749,088 \$0	\$704,081 \$0	\$779,975 \$0	\$795,574 \$0	\$011,480 \$0	\$027,710 \$0	\$044,270 \$0	\$001,155 \$0	\$070,378 \$0	\$095,946 \$0	\$913,805 \$0	\$932,142 \$0	\$950,785 \$0
Phase 2 CFD Bonds																											
Total Tax Payments on Phase 2 Bonds [4]	2% escalation	(\$14,242,251)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$424,043)	(\$865,047)	(\$882,348)	,	(\$917,995)		(\$955,082)	(\$974,184)						(\$1,097,089)	(\$1,119,031
Phase 2 Bond Payments paid by Landbuyers		\$9,738,690	\$0 \$0	\$0 \$0	\$0	\$0	\$0 \$0	\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$95,885 (\$328,158)	\$206,762 (\$658.285)	\$256,419 (\$625,929)	\$307,980 (\$592.015)	\$456,223 (\$461.771)	\$513,656 (\$422,698)	\$523,929 (\$431,152)	\$697,753 (\$276,430)	\$711,708 (\$281,959)	\$843,596 (\$169.944)	\$860,468 (\$173,343)	\$986,484 (\$68,004)	\$1,061,705 (\$13,873)	\$1,097,089 \$0	\$1,119,031 \$0
Phase 2 Payments paid by Master Developer Total Bond Payments paid by Master Developer		(\$4,503,562) (\$6,527,910)	\$0 \$0		şu (\$498,757)	\$U (\$442 297)	şu (\$264,368)	əu (\$255.528)	əu (\$196,332)	şu (\$65.593)	\$0 \$0	\$0 \$0	(\$328,158)	(\$658,285)	(\$625,929) (\$625,929)		(, , , ,		(\$431,152) (\$431,152)	(\$276,430)		(,, ,	(\$173,343) (\$173,343)	(\$68,004)		\$0 \$0	\$0 \$0
		(\$6,627,676)	¢¢	(400 1) 11 0)	(\$100,101)	(***=;===;)	(#20.,000)	(#200,020)	(\$100,002)	(\$00,000)	<i>•••</i>	<i>40</i>	(\$020,100)	(\$000,200)	(\$020,020)	(\$002,010)	(\$101,111)	(+ .22,000)	(\$101,102)	(\$276,100)	(+201,000)	(#100,011)	(0110)010)	(\$00,00)	(\$10,010)	ţċ	
REVENUES																											
Bond and Fee Proceeds		\$15,139,000	\$6,293,000	\$0	¢0.	\$0	\$0	\$0	\$0	\$0	\$0	\$8,846,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	¢o	\$0	\$0	\$0	¢o	\$0
CFD Bond Proceeds Development Impact Fee Reimbursements		\$7,147,406	\$6,293,000 \$0	\$0 \$0	₄₀ \$546,823	₅₀ \$111.584	ەن \$1.990.852	ەن \$19,955	ەت \$127,224	ەن \$531,183	ەن \$127,224	\$689.037	₅₀ \$185.827	₄₀ \$18.067	əu \$355.885	₄₀ \$103,237	ەن \$521.065	₄₀ \$103.237	\$0 \$0	ەن \$559.779	\$0 \$0	ەن \$596.649	\$0 \$0	₄₀ \$185,827	ە ب ەن \$355,885	ەن \$18.067	\$C \$C
EIFD Tax Increment Financing Included?	no	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Proceeds from Bonds and Fees		\$22,286,406	\$6,293,000	\$0	\$546,823	\$111,584	\$1,990,852	\$19,955	\$127,224	\$531,183	\$127,224	\$9,535,037	\$185,827	\$18,067	\$355,885	\$103,237	\$521,065	\$103,237	\$0	\$559,779	\$0	\$596,649	\$0	\$185,827	\$355,885	\$18,067	\$0
Gross Land Sale Revenues		\$65,742,407	\$0	\$0	\$4,912,887	\$2,755,918	\$8,343,237	\$453,601	\$2,147,245	\$5,521,560	\$2,147,245	\$5,289,719	\$3,782,219	\$410,665	\$2,345,695	\$1,742,400	\$6,425,332	\$1,742,400	\$0	\$6,538,578	\$0	\$4,645,129	\$0	\$3,782,219	\$2,345,695	\$410,665	\$0
Selling Costs at 3.0% of Land Value		(\$1,972,272)	\$0	\$0	(\$147,387)	(\$82,678)	(\$250,297)	(\$13,608)	(\$64,417)	,	(\$64,417)	(\$158,692)	(\$113,467)	(\$12,320)	(\$70,371)		(\$192,760)	(\$52,272)	\$0	(\$196,157)	\$0	(\$139,354)	\$0	(\$113,467)	(\$70,371)	(\$12,320)	\$C
Closing Costs at 1.0% of Land Value		(\$657,424)	\$0	\$0	(\$49,129)	(\$27,559)	(\$83,432)	(\$4,536)	(\$21,472)		(\$21,472)	(\$52,897)	(\$37,822)	(\$4,107)	(\$23,457)		(\$64,253)	(\$17,424)	\$0	(\$65,386)	\$0	(\$46,451)	\$0	(\$37,822)	(\$23,457)	(\$4,107)	\$0
Net Land Sale Revenues		\$63,112,710	\$0	\$0	\$4,716,371	\$2,645,681	\$8,009,507	\$435,457	\$2,061,355	\$5,300,697	\$2,061,355	\$5,078,130	\$3,630,930	\$394,238	\$2,251,867	\$1,672,704	\$6,168,319	\$1,672,704	\$0	\$6,277,035	\$0	\$4,459,323	\$0	\$3,630,930	\$2,251,867	\$394,238	\$0
Total Revenues (Uninflated)		\$63,112,710	\$6,293,000	\$0	\$5,263,195	\$2,757,265	\$10,000,359	\$455,412	\$2,188,579	\$5,831,880	\$2,188,579	\$14,613,167	\$3,816,757	\$412,305	\$2,607,752	\$1,775,941	\$6,689,383	\$1,775,941	\$0	\$6,836,814	\$0	\$5,055,972	\$0	\$3,816,757	\$2,607,752	\$412,305	\$0
Total Revenues Inflated	3% inflation	\$116,286,115	\$6,293,000	\$0	\$5,583,723	\$3,012,938	\$11,255,493	\$527,947	\$2,613,278	\$7,172,477	\$2,772,427	\$19,066,868	\$5,129,402	\$570,726	\$3,718,031	\$2,608,030	\$10,118,293	\$2,766,859	\$0	\$11,300,211	\$0	\$8,865,678	\$0	\$7,100,292	\$4,996,723	\$813,719	\$0
NET PROJECT CASH FLOW (INFLATED)		\$17,081,970	(\$23,829,604)	(\$4,562,175)	\$4,940,043	\$2,387,036	\$10,802,011	(\$8,351)	\$2,123,578	\$6,784,967	\$2,421,391	(\$26,122,764)	\$4,344,843	(\$578,394)	\$2,586,542	\$1,457,018	\$9,061,045	\$1,710,519	(\$1,107,849)	\$10,299,863	(\$1,071,961)	\$7,859,184	(\$1,082,058)	\$6,068,436	\$3,965,115	(\$260,264)	(\$1,106,202
Internal Rate of Return IRR [5]	project IRR	4.13%																									
NPV at 10% [6]	project total	(\$10,594,964)																									
	per developable acre	(\$82,414)																									
pei	developable square foot	(\$1.89)																									
NPV at 12% [6]	project total	(\$12,533,605)																									
nei	per developable acre developable square foot	(\$97,494) (\$2.24)																									
NPV at 14% [6]	project total	(\$14,018,897)																									
	per developable acre	(\$109,048)																									
per	developable square foot	(\$2.50)																									

Source: MRIC Project Applicant; EPS

DRAFT

APPENDIX C:

Sensitivity Analysis Supporting Tables



 Table C-1
 Estimated EIFD Project Tax IncrementC-1

Table C-1 **Davis Innovation Centers** Fiscal Impact Analysis Estimated EIFD Project Tax Increment

fear	Beginning Assessed Value	Annual AV Growth [1]	New AV Added to Roll	Ending Assessed Value	Cumulative Growth in AV	Gross Tax Increment [2]	EIFD Project Tax Increment [3]	Less County Admin. Fee [4]	Net EIFD Project Tax Increment	Debt Capacity [5]	Bond Sale	Available EIFD Funding [6]
Formula / Assumptio	on	3.00%	Table D-2		а	b = a * 1.00%	c = b * 10.9961%	\$5,000	d = c - \$5,000	e = d * 10		
Base AV	\$0											
Year 1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
rear 2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Year 3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
rear 4	\$0	\$0	\$49,951,888	\$49,951,888	\$49,951,888	\$499,519	\$54,928	\$5,000	\$49,928	\$499,276	\$0	\$49,928
rear 5	\$49,951,888	\$1,498,557	\$0	\$51,450,444	\$51,450,444	\$514,504	\$56,575	\$5,150	\$51,425	\$514,255	\$0	\$51,425
rear 6	\$49,951,888	\$1,498,557	\$116,779,135	\$168,229,579	\$169,728,136	\$1,697,281	\$186,635	\$5,305	\$181,330	\$1,813,304	\$0	\$181,330
rear 7	\$166,731,023	\$5,001,931	\$5,259,038	\$176,991,991	\$179,989,104	\$1,799,891	\$197,918	\$5,464	\$192,454	\$1,924,543	\$0	\$192,454
Year 8	\$171,990,060	\$5,159,702	\$26,840,563	\$203,990,324	\$211,989,368	\$2,119,894	\$233,106	\$5,628	\$227,478	\$2,274,783	\$0	\$227,478
Year 9	\$198,830,623	\$5,964,919	\$23,111,325	\$227,906,866	\$241,065,612	\$2,410,656	\$265,078	\$5,796	\$259,282	\$2,592,820	\$0	\$259,282
Year 10	\$221,941,948	\$6,658,258	\$66,847,248	\$295,447,453	\$314,571,118	\$3,145,711	\$345,906	\$5,970	\$339,936	\$3,399,356	\$3,399,356	\$3,399,356
Year 11	\$288,789,195	\$8,663,676	\$23,111,325	\$320,564,196	\$346,346,119	\$3,463,461	\$380,846	\$6,149	\$374,697	\$347,610	\$0	\$34,761
Year 12	\$311,900,520	\$9,357,016	\$24,720,300	\$345,977,836	\$380,423,434	\$3,804,234	\$418,318	\$6,334	\$411,984	\$720,483	\$0	\$72,048
Year 13	\$336,620,820	\$10,098,625	\$0	\$346,719,445	\$390,522,059	\$3,905,221	\$429,422	\$6,524	\$422,898	\$829,629	\$0	\$82,963
Year 14	\$336,620,820	\$10,098,625	\$40,946,400	\$387,665,845	\$441,567,083	\$4,415,671	\$485,552	\$6,720	\$478,832	\$1,388,968	\$0	\$138,897
Year 15	\$377,567,220	\$11,327,017	\$21,780,000	\$410,674,237	\$474,674,100	\$4,746,741	\$521,957	\$6,921	\$515,036	\$1,751,001	\$0	\$175,100
Year 16	\$399,347,220	\$11,980,417	\$19,602,000	\$430,929,637	\$506,256,517	\$5,062,565	\$556,685	\$7,129	\$549,556	\$2,096,208	\$0	\$209,621
Year 17	\$418,949,220	\$12,568,477	\$24,720,300	\$456,237,997	\$543,545,293	\$5,435,453	\$597,688	\$7,343	\$590,346	\$2,504,101	\$0	\$250,410
Year 18	\$443,669,520	\$13,310,086	\$26,244,900	\$483,224,506	\$583,100,279	\$5,831,003	\$641,183	\$7,563	\$633,620	\$2,936,849	\$2,936,849	\$2,936,849
Year 19	\$469,914,420	\$14,097,433	\$41,382,000	\$525,393,853	\$638,579,711	\$6,385,797	\$702,189	\$7,790	\$694,399	\$607,789	\$0	\$60,779
Year 20	\$511,296,420	\$15,338,893	\$0	\$526,635,313	\$653,918,604	\$6,539,186	\$719,056	\$8,024	\$711,032	\$774,120	\$0	\$77,412
rear 21	\$511,296,420	\$15,338,893	\$41,382,000	\$568,017,313	\$710,639,497	\$7,106,395	\$781,427	\$8,264	\$773,163	\$1,395,422	\$0	\$139,542
Year 22	\$552,678,420	\$16,580,353	\$24,284,700	\$593,543,473	\$751,504,549	\$7,515,045	\$826,363	\$8,512	\$817,850	\$1,842,299	\$0	\$184,230
rear 23	\$576,963,120	\$17,308,894	\$21,780,000	\$616,052,014	\$790,593,443	\$7,905,934	\$869,345	\$8,768	\$860,578	\$2,269,572	\$0	\$226,957
Year 24	\$598,743,120	\$17,962,294	\$19,602,000	\$636,307,414	\$828,157,736	\$8,281,577	\$910,651	\$9,031	\$901,621	\$2,680,002	\$0	\$268,000
rear 25	\$618,345,120	\$18,550,354	\$0	\$636,895,474	\$846,708,090	\$8,467,081	\$931,049	\$9,301	\$921,748	\$2,881,275	\$0	\$288,127
Buildout				\$636,895,474	\$846,708,090	\$8,467,081	\$931,049	\$9,301	\$921,748	\$2,881,275	\$6,336,204	

Source:

[1] Assessed value estimated to increase by 3% annually, accounting for assumed legislated annual increase of 2% and additional property transactions.

[2] Assumes Property tax assessed at a rate of \$1 per \$1,000 of assessed value.
 [3] Calculated as 50% of County General Fund share of the 1% Property Tax Revenue plus 50% of City General Fund share of the 1% Property Tax Revenue. Refer to Table D-1 for details.

[4] Assumes an annual administration fee of \$5,000.
 [5] Uses multiple of 10.0 on annual cash flow as general indicator of bonding capacity.

EIFD

APPENDIX D:

Detailed Infrastructure Cost Estimates



N	lace	Rand	ch li	nnova	ntio	n Cent	er			
	Proje	ct Cos	t Est	imate (201	6 dollars)			
		Su	mma	ry by P	hase					
Prepared by: Gary Albertson, PMA									D	ate: 03/24/16
On-Site Street Construction Costs:										
	Sect.		Pha	ase 1A	P	hase 1B	Pha	se 2A	Ph	nase 2B
	No.	Cost/LF	LF	<u>\$</u>	LF	\$	LE	\$	LF	<u>\$</u>
	1	\$1,430	250	\$357,500		\$0		\$0		\$0
	2	\$1,590	440	\$699,600		\$0		\$0		\$0
	3	\$1,580	150	\$237,000		\$0		\$0		\$0
	4	\$1,530	670	\$1,025,100		\$0		\$0		\$0
	5	\$1,250		\$0	150	\$187,500		\$0		\$0
	6	\$1,360		\$0	820	\$1,115,200		\$0		\$0
	7	\$1,540		\$0		\$0		\$0	940	\$1,447,600
	8	\$1,370	950	\$1,301,500		\$0	2,910	\$3,986,700	470	\$643,900
	9	\$1,210	400	\$484,000		\$0		\$0		\$0
	10	\$1,220		\$0	-	\$0		\$0	1,490	\$1,817,800
	11	\$90		\$0	Mar San	\$0	2,670	\$240,300		\$0
	12	\$80	5,050	\$404,000		\$0		\$0	5,940	\$475,200
	13	\$1,400	a.	\$0		\$0		\$0	80	\$112,000
	14	\$1 <mark>;</mark> 390	17.	\$0	State of the second	\$0	80	\$111,200	10.	\$0
		1. A.M.			1000					* T
					and the					
		1								
		Subtota	Onsite:	\$4,508,700		\$1,302,700		\$4,338,200		\$4,496,500
Other On-Site Costs:										

Mace Ranch Innovation Center

Project Cost Estimate (2016 dollars)

Summary by Phase

Prep	ared by: Gary Albertson, PMA									Da	te: 03/24/16
Item		Unit		Pha	ase 1A	Ph	ase 1B	Pha	se 2A	Pha	ase 2B
No.	Description	Price	Unit	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
1	Cut in St's to Fill (4CY/LF)	\$4.50	CY	11,440	\$51,480		\$17,460	11,960	\$53,820		\$53,640
2	Cut to Fill (700 CY/AC)	\$3.75	CY	70,000	\$262,500		\$0	77,000	\$288,750		\$0
3	Import (500 CY/AC)	\$15.00	CY	50,000	\$750,000		\$0	55,000	\$825,000		\$0
4	Ag Well (Not to Domestic Std's)	\$250,000.00	LS	1	\$250,000		\$0		\$0		\$0
5	Greenbelt & Water Qual. L/S	\$5.50	SF	914,760	\$5,031,180		\$0	1,611,720	\$8,864,460		\$0
6	Drainage Culvert w/ Headwalls	\$200,000.00	LS		\$0		\$0	1	\$200,000	1	\$200,000
7	Sports Field (Hydroseed)	\$3.00	SF		\$0		\$0	304,920	\$914,760		\$0
8	Roundabout	\$150,000.00	LS		\$0		\$0		\$0	1	\$150,000
9	Transit Plaza	\$500,000.00	LS		\$0	1	\$500,000		\$0	_	\$0
10	Bike X'ing over Pipe outfall	\$50,000.00	LS		\$0		\$0	1	\$50,000		\$C
11	Bike X'ing at east end of drain	\$75,000.00	LS		\$0		\$0	1	\$75,000		\$0
12	SSLS	\$3,000,000.00	LS	1	\$3,000,000		\$0		\$0		\$0
13	Dual SS Force Mains	\$150.00	LF	2,200	\$330,000		\$0		\$0		\$0
14	Sports Field Snack Shack	\$100,000.00	SF	,	\$0		\$0	1	\$100,000		\$0
15					\$0		\$0		\$0		\$0
_											
_		Subtotal Oth	ner On-S	ite Costs:	\$9,675,160		\$517,460		\$11,371,790		\$403,640
Off	Site Costs:								. , _,		,,

Mace Ranch Innovation Center

Project Cost Estimate (2016 dollars)

Summary by Phase

	ared by: Gary Albertson, PMA										Date: 03/24/16
ltem		Unit		Ph	ase 1A	<u>P</u>	hase 1B	Pha	ise 2A	E	Phase 2B
<u>No.</u>	Description	Price	<u>Unit</u>	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
1	Bike Tunnel Under Mace	\$450,000.00	LS		\$0		\$0	1	\$450,000		\$0
2	Signal at Mace & Alhambra	\$150,000.00	LS	1	\$150,000		\$0		\$0		\$0
3	Widen Mace (Fwy to 2nd)	\$250,000.00	LS		\$0		\$0	1	\$250,000		\$0
4	Signal at Mace & 2nd	\$100,000.00	LS		\$0		\$0	1	\$100,000		\$0
5	Widen Mace (2nd to Alhambra)	\$150.00	LF		\$0		\$0	1,200	\$180,000		\$0
6	Roundabout at Mace	\$300,000.00	LS		\$0		\$0	1	\$300,000		\$0
7	SSFM (Incl. restore, traffic, tie-in)	\$250.00	LF	3,600	\$900,000		\$0		\$0		\$0
8	E'ment Acq. Crop Dam.SSFM & B.Path	\$10,000.00	Ac	4.0	\$40,000		\$0		\$0		\$0
9	12" Raw Water (Inc. traf., restore)	\$100.00	LF	3,600	\$360,000		\$0		\$0		\$0
10	Enhanced Bike Safety (3 Locations)	\$25,000.00	EA	3	\$75,000		\$0		\$0		\$0
11	Entry into Park & Ride	\$50,000.00	LS		\$0		\$0	1	\$50,000		\$0
12	Roundabout at Park & Ride	\$250,000.00	LS		\$0		\$0	1	\$250,000		\$0
13	Traffic Signal (Covell & Monarch)	\$375,000.00	LS		\$0		\$O	1	\$375,000		\$0
14	Bike Path along Mace Curve	\$76.00	LF	2,500	\$190,000		\$0		\$0		\$0
15	Reconfigure I-80 Slip Ramps	\$500,000.00	LS		\$0		\$0	1	\$500,000		\$0
16	Reconfigure Mace Ramp to I-80 East	\$100,000.00	LS		\$0		\$0	1	\$100,000		\$0
17	Flood Hazard Grading (SMARA)	\$4.00	CY	65,000	\$260,000		\$0	65,000	\$260,000		\$0
		Subto	tal Off-S	ite Costs:	\$1,975,000		\$0		\$2,815,000		\$0
		Subto	otal Cons	struction:	\$16,158,860		\$1,820,160		\$18,524,990		\$4,900,140
		1	10% Con	tingency:	\$1,615,886		\$182,016		\$1,852,499		\$490,014
		То	tal Cons	struction:	\$17,774,746		\$2,002,176		\$20,377,489		\$5,390,154
			25% S	oft Costs:	\$4,443,687		\$500,544		\$5,094,372		\$1,347,539
		Total P	roject (B	y Phase):	\$22,200,000		\$2,500,000		\$25,500,000		\$6,700,000
							1		TOTAL PRO	DJECT:	\$56,900,000
_									Price /Ra	w Acre:	\$271,000.00

		Project Cost Estimate	e (2016 d	lollars)	
epare	ed by:	Gary Albertson, PMA		Da	te: 03/24/1
adw	vay S	ection No.: 1			
			5.1.01		
-			Est. Qty.		
	Item		Per	Lineite During	
-	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
San				Ć	ćo (
		8" SS < 10'		\$55.00	\$0.0
		8" SS > 10' < 15'		\$60.00	\$0.0
	-	10" SS >10' < 15'		\$85.00	\$0.0
-		12" SS >10' < 15'		\$95.00	\$0.0
	-	12" SS > 15' < 20'		\$110.00	\$0.0 ¢0.0
		48" SSMH < 10' (round up 1/250')		\$5,000.00	\$0.0
-	7	48" SSMH >10' < 15' (round up 1/250')		\$5,500.00	\$0.0
	8	48" SSMH > 15' < 20' (round up 1/250')	0.00	\$6,300.00	\$0.0
-	9	Dewatering > 10' <15'	0.00	\$15.00	\$0.0
		Dewatering >15' < 20'	0.00	\$25.00	\$0.0
		8" SS Lateral	0.00	\$4,000.00	\$0.0
_	12	SS cleanout	0.00	\$500.00	\$0.0
			Subtotal San	iitary Sewer:	\$0.0
			Est. Qty.		
-	ltem		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Sto	rm Dra	ain			
	1	15" RCP		\$80.00	\$0.0
	2	48" SDMH	0.000	\$5,500.00	\$0.0
	3	CB with 12" RCP lateral	0.000	\$6,000.00	\$0.0
	4	SD Outfall		\$10,000.00	\$0.0
			Subtotal	Storm Drain:	\$0.0

		lace Ranch Innov			
		Project Cost Estimate	e (2016 d	lollars)	
epar	ed by:	Gary Albertson, PMA		Da	ite: 03/24/10
oadv	way S	ection No.: 1			
	1				
-			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Do	mestic	Water			
	1	12" Water	1.00	\$80.00	\$80.00
	2	12" Valves (1 valves/250')	0.004	\$3,200.00	\$12.80
	3	3" Blowoffs (1/1000')	0.001	\$4,000.00	\$4.00
	4	2" Arv's (1/1000)	0.001	\$5,000.00	\$5.0
	5	FH Assembly (1/500')	0.002	\$5,800.00	\$11.60
	6	8" Water Serv. (w/ Temp. B.O.) (1/250')	0.004	\$7,000.00	\$28.00
			Subtotal Dom	estic Water:	\$141.40
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Rav	w Wat	er System (Irrigation)			
	1	8" Water	1.00	\$64.00	\$64.00
		8" Valves (1/250')	0.004	\$1,700.00	\$6.80
	3	2" Blowoffs (1/1000')	0.001	\$2,000.00	\$2.00
	4	1" ARV's (1/1000')	0.001	\$3,000.00	\$3.00
	5	4" Irr. Serv. (w/ Temp. BO) (1/250')	0.004	\$5,000.00	\$20.00
			Subtotal Raw W	ater System:	\$95.8
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Joi	nt Utili	ty Trench & Street Lighting			
	1	Joint Utility Trench	1.00	\$175.00	\$175.00
	2	Street Lighting Sytem	1.00	\$70.00	\$70.00
			Subtotal Joint U	tility Trench:	\$245.00

		Project Cost Estimate (2016 d	lollars)	
epare	ed by:	Gary Albertson, PMA		Da	ate: 03/24/1
adw	/ay S	ection No.: 1			
			Eat Othe		
	Itom		Est. Qty.		
	Item		Per		Cost/IF
Church	No.	Description	<u>LF of Road</u>	Unit Price	<u>Cost/LF</u>
Stre	et im	provements	CO 00	\$0.42	¢20.0
_		Subgrade Prep 10" AB (TI = 5.0)	69.00 13.00	\$0.42	\$28.9
-		10° AB (11 = 5.0) 12.5" AB (TI = 6.0)	13.00	\$1.65	\$21.1 \$0.0
		12.5 AB (11 = 6.0) $15.5^{"} \text{ AB} (TI = 7.0)$		\$2.04	\$0.0
		13.5 AB (11 - 7.0) 18.5" AB (TI = 8.0)		\$2.43	\$0.0
-		20.5" AB (TI = 9.0)	56.00	\$2.90	\$172.4
-		3.0" AC (TI = 5.0)	13.00	\$1.85	\$24.0
-		3.5" AC (TI = 6.0)	15.00	\$1.85	\$0.0
-		4.0" AC (TI = 7.0)		\$2.33	\$0.0
		4.5" AC (TI = 8.0)		\$2.62	\$0.0
		5.5" AC (TI = 9.0)	56.00	\$3.38	\$189.2
-		6' wide Geotex. Fab. at Pavement Sect. break	2.00	\$1.20	\$2.4
		Vert. Curb & Gutter	2.00	\$21.00	\$0.0
		Vertical Curb	2.00	\$20.00	\$40.0
		Flush Curb	2.00	\$16.00	\$32.0
-		6' Wide Sep. Sidewalk (incl. SG & AB)		\$36.00	\$0.0
		10' Wide Multi-Use Path (w/o DG, w/ SG & AB)	2.00	\$55.00	\$110.0
		10' Wide Multi-Use Path (w/ DG, w/ SG & AB)		\$65.00	\$0.0
		12' Wide Multi-Use Path (w/DG, w/SG & AB)		\$76.00	\$0.0
		4' wide Valley Gutter (incl. SG & AB)		\$40.00	\$0.0
		30' wide 8" PCC Heavy D/way w/reinforcement	0.00	\$10,000.00	\$0.0
		Finish Grade EOP to ROW	36.00	\$0.20	\$7.2
		Sign & Stripe & Monuments	1.00	\$7.00	\$7.0
		Handicap Ramps	0.01	\$2,500.00	\$25.0
		Bike Ramps	0.005	\$3,000.00	\$15.0
		Streetscape Landscape	36.00	\$7.50	\$270.0
		Electric Vehicle Charging Stations		\$400.00	\$0.0
		Hand/Barrier Rails		\$25.00	\$0.C
		Subto	tal Street Imp	provements:	\$944.5

		Project Cost Estimate	e (2016 c	lollars)	
pare	d by:	Gary Albertson, PMA			Date: 03/24/:
adw	iay S	ection No.: 2			
	_		Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
San	-	Sewer:			
		8" SS < 10'	1.00	\$55.00	· · · · · ·
		8" SS > 10' < 15'		\$60.00	\$0.0
	3	10" SS >10' < 15'		\$85.00	\$0.0
		12" SS >10' < 15'		\$95.00	\$0.0
	5	12" SS > 15' < 20'		\$110.00	
	6	48" SSMH < 10' (round up 1/250')	0.004	\$5,000.00	
	7	48" SSMH >10' < 15' (round up 1/250')		\$5,500.00	\$0.0
	8	48" SSMH > 15' < 20' (round up 1/250')		\$6,300.00	\$0.0
	9	Dewatering > 10' <15'	0.00	\$15.00	\$0.0
	10	Dewatering >15' < 20'	0.00	\$25.00	\$0.C
	11	8" SS Lateral	0.004	\$4,000.00	\$16.0
	12	SS cleanout	0.004	\$500.00	\$2.0
			Subtotal San	itary Sewer:	\$93.0
			Est. Qty.		
	ltem		Per		
	No.	Description	LF of Road	Unit Price	Cost/LF
Stor	m Dra				
	1	15" RCP		\$80.00	\$0.0
	2	48" SDMH	0.000	\$5,500.00	\$0.0
	3	CB with 12" RCP lateral	0.000	\$6,000.00	\$0.0
	4	SD Outfall		\$10,000.00	\$0.0
			Subtotal	Storm Drain:	\$0.0

1	Ν	lace Ranch Innova	ation	Cent	er
		Project Cost Estimate	(2016 c	iollars)	
epare	ed by:	Gary Albertson, PMA		[Date: 03/24/1
badv	vav S	ection No.: 2			
1					
-			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Doi	mestic	Water			
	1	12" Water	1.00	\$80.00	\$80.0
	2	12" Valves (1 valves/250')	0.004	\$3,200.00	\$12.8
	3	3" Blowoffs (1/1000')	0.001	\$4,000.00	\$4.0
	4	2" Arv's (1/1000)	0.001	\$5,000.00	\$5.0
	5	FH Assembly (1/500')	0.002	\$5,800.00	\$11.6
	6	8" Water Serv. (w/ Temp. B.O.) (1/250')	0.004	\$7,000.00	\$28.0
			Subtotal Dom	estic Water:	\$141.4
			Est. Qty.		
	ltem		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Rav	v Wate	er System (Irrigation)			
	1	8" Water	1.00	\$64.00	\$64.0
		8" Valves (1/250')	0.004	\$1,700.00	\$6.8
	3	2" Blowoffs (1/1000')	0.001	\$2,000.00	\$2.0
	4	1" ARV's (1/1000')	0.001	\$3,000.00	\$3.0
_	5	4" Irr. Serv. (w/ Temp. BO) (1/250')	0.004	\$5,000.00	\$20.0
		Sul	ototal Raw W	ater System:	\$95.8
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Joir	÷	ty Trench & Street Lighting			
		Joint Utility Trench	1.00	\$175.00	\$175.0
	2	Street Lighting Sytem	1.00	\$70.00	\$70.0
		Sul	ototal Joint U	tility Trench:	\$245.0

		lace Ranch Innova			
		Project Cost Estimate (2016 c	lollars)	
parec	d by:	Gary Albertson, PMA		D	ate: 03/24/
adwa	ay So	ection No.: 2			
			Est. Qty.		
	ltem		Per		
	No.	Description	LF of Road	Unit Price	Cost/LF
Stree	et Im	provements			
		Subgrade Prep	58.00	\$0.42	\$24.3
		10" AB (TI = 5.0)	14.00	\$1.63	\$22.8
		12.5" AB (TI = 6.0)		\$2.04	\$0.0
		15.5" AB (TI = 7.0)		\$2.43	\$O.(
		18.5" AB (TI = 8.0)		\$2.90	\$0.0
		20.5" AB (TI = 9.0)	45.00	\$3.08	\$138.6
		3.0" AC (TI = 5.0)	13.00	\$1.85	\$24.0
		3.5" AC (TI = 6.0)		\$2.04	\$0.0
		4.0" AC (TI = 7.0)		\$2.33	\$0.0
		4.5" AC (TI = 8.0)	2	\$2.62	\$0.0
		5.5" AC (TI = 9.0)	45.00	\$3.38	\$152.:
		6' wide Geotex. Fab. at Pavement Sect. break	2.00	\$1.20	\$2.4
		Vert. Curb & Gutter		\$21.00	\$0.(
		Vertical Curb		\$20.00	\$0.0
		Flush Curb		\$16.00	\$0.0
		6' Wide Sep. Sidewalk (incl. SG & AB)		\$36.00	\$0.0
		10' Wide Multi-Use Path (w/o DG, w/ SG & AB)	2.00	\$55.00	\$110.0
		10' Wide Multi-Use Path (w/ DG, w/ SG & AB)		\$65.00	\$0.0
		12' Wide Multi-Use Path (w/DG, w/SG & AB)		\$76.00	\$0.0
		4' wide Valley Gutter (incl. SG & AB)	2.00	\$40.00	\$80.0
		30' wide 8" PCC Heavy D/way w/reinforcement	0.01	\$10,000.00	\$50.0 \$0
		Finish Grade EOP to ROW	47.00	\$0.20	\$9.4
		Sign & Stripe & Monuments	1.00 0.01	\$7.00 \$2,500.00	\$7.0 \$25.0
		Handicap Ramps Bike Ramps	0.01	\$2,500.00	\$25.0
		Streetscape Landscape	47.00	\$3,000.00	\$15.0
		Electric Vehicle Charging Stations	47.00	\$400.00	\$552
		Hand/Barrier Rails		\$400.00	\$0.0 \$0.0
		-	tal Street Im		\$0. \$1,013.
		Subto		overnents:	λ1,013.
		—			64 500
		i otal All S	street impr	ovements:	\$1,588.4

		Project Cost Estimate	(2016	dollars	
1			(
epare	ed by:	Gary Albertson, PMA			Date: 03/24/1
badw	vay S	ection No.: 3			
			Est. Qty.		
	ltem		Per		
_	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
San		Sewer:			
		8" SS < 10'		\$55.00	\$0.0
		8" SS > 10' < 15'		\$60.00	\$0.0
		10" SS >10' < 15'	1.00	\$85.00	\$85.0
		12" SS >10' < 15'		\$95.00	\$0.C
	5	12" SS > 15' < 20'		\$110.00	\$0.0
		48" SSMH < 10' (round up 1/250')		\$5,000.00	\$0.0
	7	48" SSMH >10' < 15' (round up 1/250')	0.004	\$5,500.00	\$22.0
	8	48" SSMH > 15' < 20' (round up 1/250')		\$6,300.00	\$0.0
	9	Dewatering > 10' <15'	1.00	\$15.00	\$15.0
		Dewatering >15' < 20'	0.00	· ·	\$0.0
		8" SS Lateral	0.01	\$4,000.00	\$32.0
	12	SS cleanout	0.01	\$500.00	\$4.0
			Subtotal Sar	nitary Sewer:	\$158.0
			Est. Qty.		
	ltem		Per		
	No.	Description	LF of Road	Unit Price	Cost/LF
Sto	rm Dra	ain			
	1	15" RCP		\$80.00	\$0.0
	2	48" SDMH	0.000	\$5,500.00	\$0.0
	3	CB with 12" RCP lateral	0.000	\$6,000.00	\$0.0
	4	SD Outfall		\$10,000.00	\$0.0
			Subtotal	Storm Drain:	\$0.0

		Mace Ranch Innov	ation	Cent	er
		Project Cost Estimate	(2016	dollars)	
epar	ed by:	Gary Albertson, PMA			Date: 03/24/10
bady	vav S	ection No.: 3			
	1				
			Est. Qty.		
-	Item		Per		
-	No.	Description	LF of Road	Unit Price	Cost/LF
Do		Water	<u></u>	<u>omernee</u>	<u></u>
	1	12" Water	1.00	\$80.00	\$80.00
-	2	12" Valves (1 valves/250')	0.004	\$3,200.00	\$12.80
-	3	3" Blowoffs (1/1000')	0.001	\$4,000.00	\$4.00
-	4	2" Arv's (1/1000)	0.001	\$5,000.00	\$5.00
-	5	FH Assembly (1/500')	0.002	\$5,800.00	\$11.60
	6	8" Water Serv. (w/ Temp. B.O.) (1/250')	0.004	\$7,000.00	\$28.00
			Subtotal Dom		\$141.40
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Rav	v Wat	er System (Irrigation)			
	1	8" Water	1.00	\$64.00	\$64.00
	2	8" Valves (1/250')	0.004	\$1,700.00	\$6.80
	3	2" Blowoffs (1/1000')	0.001	\$2,000.00	\$2.00
	4	1" ARV's (1/1000')	0.001	\$3,000.00	\$3.00
	5	4" Irr. Serv. (w/ Temp. BO) (1/250')	0.004	\$5,000.00	\$20.00
		Sul	ototal Raw W	ater System:	\$95.80
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Joir		ty Trench & Street Lighting			
		Joint Utility Trench	1.00	\$175.00	\$175.00
	2	Street Lighting Sytem	1.00	\$70.00	\$70.00
		Sul	ototal Joint U	tility Trench:	\$245.00

		Desile of Oref Estimate	10040		\
		Project Cost Estimate	(2016	dollars)
epare	d by:	Gary Albertson, PMA			Date: 03/24/1
adw	iay S	ection No.: 3			
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Stre	et Im	provements			
		Subgrade Prep	58.00	\$0.42	\$24.3
		10" AB (TI = 5.0)	13.00	\$1.63	\$21.1
		12.5" AB (TI = 6.0)		\$2.04	\$0.0
		15.5" AB (TI = 7.0)		\$2.43	\$0.0
		18.5" AB (TI = 8.0)		\$2.90	\$0.0
		20.5" AB (TI = 9.0)	45.00	\$3.08	\$138.6
		3.0" AC (TI = 5.0)	13.00	\$1.85	\$24.0
		3.5" AC (TI = 6.0)		\$2.04	\$0.0
_		4.0" AC (TI = 7.0)		\$2.33	\$0.0
		4.5" AC (TI = 8.0) 5.5" AC (TI = 9.0)	45.00	\$2.62	\$0.0
		6' wide Geotex. Fab. at Pavement Sect. break	45.00	\$3.38 \$1.20	\$152.1 \$2.4
		Vert. Curb & Gutter	2.00	\$1.20	\$2.4
		Vertical Curb	2.00	\$20.00	\$40.0
		Flush Curb	2.00	\$16.00	\$32.0
		6' Wide Sep. Sidewalk (incl. SG & AB)	2.00	\$36.00	\$72.0
-		10' Wide Multi-Use Path (w/o DG, w/ SG & AB)	2.00	\$55.00	\$0.0
		10' Wide Multi-Use Path (w/ DG, w/ SG & AB)		\$65.00	\$0.0
		12' Wide Multi-Use Path (w/DG, w/SG & AB)		\$76.00	\$0.0
	_	4' wide Valley Gutter (incl. SG & AB)		\$40.00	\$0.0
		30' wide 8" PCC Heavy D/way w/reinforcement	0.01	\$10,000.00	\$50.0
		Finish Grade EOP to ROW	45.00	\$0.20	\$9.0
		Sign & Stripe & Monuments	1.00	\$7.00	\$7.0
		Handicap Ramps	0.01	\$2,500.00	\$25.0
		Bike Ramps		\$3,000.00	\$0.0
		Streetscape Landscape	45.00	\$7.50	\$337.5
		Electric Vehicle Charging Stations		\$400.00	\$0.0
		Hand/Barrier Rails		\$25.00	\$0.0
		Subto	tal Street Im	provements:	\$935.2

		Project Cost Estimate	(2016	dollars)
epare	ed by:	Gary Albertson, PMA			Date: 03/24/1
oadw	vay S	ection No.: 4			
			E 1 O 1		
_			Est. Qty.		
_	Item		Per	** • •	
_	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
San				655 00	<u> </u>
		8" SS < 10'		\$55.00	\$0.0
_		8" SS > 10' < 15'	1.00	\$60.00	\$0.0
		10" SS >10' < 15'	1.00	\$85.00	\$85.0
_		12" SS >10' < 15'		\$95.00	\$0.0
_		12" SS > 15' < 20'		\$110.00	\$0.0
_		48" SSMH < 10' (round up 1/250')	0.004	\$5,000.00	\$0.0
	7	48" SSMH >10' < 15' (round up 1/250')	0.004	\$5,500.00	\$22.0
-	8	48" SSMH > 15' < 20' (round up 1/250')	1.00	\$6,300.00	\$0.0
_	9	Dewatering > 10' <15'	1.00	\$15.00	\$15.0
_		Dewatering >15' < 20'	0.00	·	\$0.0
_		8" SS Lateral	0.01	\$4,000.00	\$32.0
_	12	SS cleanout	0.01	\$500.00	\$4.0
			Subtotal Sar	nitary Sewer:	\$158.0
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Sto	rm Dra	ain			
	1	15" RCP		\$80.00	\$0.0
	2	48" SDMH	0.000	\$5,500.00	\$0.0
	3	CB with 12" RCP lateral	0.000	\$6,000.00	\$0.0
	4	SD Outfall		\$10,000.00	\$0.0
			Subtotal	Storm Drain:	\$0.0

		Project Cost Estimate	(2016	dollars)	
repa	ared by:	Gary Albertson, PMA			Date: 03/24/16
oad	dway S	ection No.: 4			
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
D	omestic	Water			
	1	12" Water	1.00	\$80.00	\$80.00
	2	12" Valves (1 valves/250')	0.004	\$3,200.00	\$12.80
	3	3" Blowoffs (1/1000')	0.001	\$4,000.00	\$4.00
	4	2" Arv's (1/1000)	0.001	\$5,000.00	\$5.00
	5	FH Assembly (1/500')	0.002	\$5,800.00	\$11.60
	6	8" Water Serv. (w/ Temp. B.O.) (1/250')	0.004	\$7,000.00	\$28.00
		5	Subtotal Dom	nestic Water:	\$141.40
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
R	aw Wat	er System (Irrigation)			
	1	8" Water	1.00	\$64.00	\$64.00
		8" Valves (1/250')	0.004		\$6.80
_	3	2" Blowoffs (1/1000')	0.001	\$2,000.00	\$2.00
	4	1" ARV's (1/1000')	0.001	\$3,000.00	\$3.00
_	5	4" Irr. Serv. (w/ Temp. BO) (1/250')	0.004	\$5,000.00	\$20.00
-		Sub	total Raw W	ater System:	\$95.80
			Est. Qty.		
	ltem		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
JC	oint Utili	ty Trench & Street Lighting			
	1	Joint Utility Trench	1.00	\$175.00	\$175.00
	2	Street Lighting Sytem	1.00	\$70.00	\$70.00
		Sub	total Joint U	tility Trench:	\$245.00

	Project Cost Estimate	(2016	dollars)
	Come Alle entrone DAAA			D-+ 02/24/4
epared b	y: Gary Albertson, PMA			Date: 03/24/1
badway	Section No.: 4			
-		Est. Qty.		
lte	m	Per		
No		LF of Road	Unit Price	Cost/LF
	mprovements	<u>Li oi nouu</u>		<u></u>
	Subgrade Prep	69.00	\$0.42	\$28.9
	10" AB (TI = 5.0)	13.00	\$1.63	\$21.1
	12.5" AB (TI = 6.0)		\$2.04	\$0.0
	15.5" AB (TI = 7.0)		\$2.43	\$0.0
	18.5" AB (TI = 8.0)		\$2.90	\$0.0
	20.5" AB (TI = 9.0)	56.00	\$3.08	\$172.4
	3.0" AC (TI = 5.0)	13.00	\$1.85	\$24.0
	3.5" AC (TI = 6.0)		\$2.04	\$0.0
	4.0" AC (TI = 7.0)		\$2.33	\$0.0
	4.5" AC (TI = 8.0)		\$2.62	\$0.0
	5.5" AC (TI = 9.0)	56.00	\$3.38	\$189.2
	6' wide Geotex. Fab. at Pavement Sect. break	2.00	\$1.20	\$2.4
	Vert. Curb & Gutter		\$21.00	\$0.0
	Vertical Curb		\$20.00	\$0.0
	Flush Curb	2.00	\$16.00	\$32.0
	6' Wide Sep. Sidewalk (incl. SG & AB)	2.00	\$36.00	\$72.0
	10' Wide Multi-Use Path (w/o DG, w/ SG & AB)		\$55.00	\$0.0
	10' Wide Multi-Use Path (w/ DG, w/ SG & AB)		\$65.00	\$0.0
	12' Wide Multi-Use Path (w/DG, w/SG & AB)		\$76.00	\$0.0
	4' wide Valley Gutter (incl. SG & AB)	0.01	\$40.00	\$0.0 ¢50.0
	30' wide 8" PCC Heavy D/way w/reinforcement Finish Grade EOP to ROW	0.01 34.00	\$10,000.00 \$0.20	\$50.0 \$6.8
	Sign & Stripe & Monuments	1.00	\$0.20	\$7.0
	Handicap Ramps	0.01	\$2,500.00	\$7.0
	Bike Ramps	0.001	\$3,000.00	\$23.0
	Streetscape Landscape	34.00	\$3,000.00	\$255.0
	Electric Vehicle Charging Stations	54.00	\$400.00	\$255.0
	Hand/Barrier Rails		\$25.00	\$0.0
		tal Street Im		\$886.1

		Mace Ranch Innov	ation	Cent	er
		Project Cost Estimate	(2016	dollars)
epare	ed by:	Gary Albertson, PMA			Date: 03/24/1
	C				
Jadw	ay 5	ection No.: 5			
			Est. Qty.		
-	Item		Per		
	No.	Description	LF of Road	Unit Price	Cost/LF
San		Sewer:	<u></u>	<u>onici nice</u>	000(71)
	1	8" SS < 10'		\$55.00	\$0.0
	2	8" SS > 10' < 15'		\$60.00	\$0.0
	3	10" SS >10' < 15'		\$85.00	\$0.0
	4	12" SS >10' < 15'		\$95.00	\$0.0
	5	12" SS > 15' < 20'		\$110.00	\$0.0
	6	48" SSMH < 10' (round up 1/250')		\$5,000.00	\$0.0
	7	48" SSMH >10' < 15' (round up 1/250')		\$5,500.00	\$0.0
	8	48" SSMH > 15' < 20' (round up 1/250')		\$6,300.00	\$0.0
	9	Dewatering > 10' <15'	0.00	\$15.00	\$0.0
	10	Dewatering >15' < 20'	0.00	\$25.00	\$0.0
	11	8" SS Lateral	0.00	\$4,000.00	\$0.0
	12	SS cleanout	0.00	\$500.00	\$0.0
			Subtotal Sai	nitary Sewer:	\$0.0
			Est. Qty.		
-	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Stor	m Dra	ain			
	1	15" RCP		\$80.00	\$0.0
	2	48" SDMH	0.000	\$5,500.00	\$0.0
	3	CB with 12" RCP lateral	0.000	\$6,000.00	\$0.0
	4	SD Outfall		\$10,000.00	\$0.0
			Subtotal	Storm Drain:	\$0.0

Т		Mace Ranch Innov		1	
		Project Cost Estimate	(2016	dollars)
epar	ed by:	Gary Albertson, PMA			Date: 03/24/10
oady	Nav S	ection No.: 5			
Jude					
_			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Do	mestic	Water			
	1	12" Water	1.00	\$80.00	\$80.0
	2	12" Valves (1 valves/250')	0.004	\$3,200.00	\$12.80
	3	3" Blowoffs (1/1000')	0.001	\$4,000.00	\$4.00
	4	2" Arv's (1/1000)	0.001	\$5,000.00	\$5.0
	5	FH Assembly (1/500')	0.002	\$5,800.00	\$11.60
	6	8" Water Serv. (w/ Temp. B.O.) (1/250')	0.004	\$7,000.00	\$28.00
		S	Subtotal Dom	estic Water:	\$141.40
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Rav		er System (Irrigation)		10100	
_		8" Water	1.00	\$64.00	\$64.00
_		8" Valves (1/250')	0.004	\$1,700.00	\$6.80
_	3	2" Blowoffs (1/1000')	0.001	\$2,000.00 \$3,000.00	\$2.00 \$3.00
_		1" ARV's (1/1000') 4" Irr. Serv. (w/ Temp. BO) (1/250')	0.001	\$5,000.00	\$20.00
_	5			ater System:	\$20.00
		500		ater System.	
			Est. Qty.		
	ltem		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Joir		ty Trench & Street Lighting			
		Joint Utility Trench	1.00	\$175.00	\$175.00
	2	Street Lighting Sytem	1.00	\$70.00	\$70.00
		Sub	total Joint U	tility Trench:	\$245.00

		Project Cost Estimate	(2016	dollare	۱
-	r	Floject Cost Estimate	(2010	uollais	/
epare	ed by:	Gary Albertson, PMA			Date: 03/24/1
badw	vav Se	ection No.: 5			
T					
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Stre	et Im	provements			
		Subgrade Prep	36.00	\$0.42	\$15.:
		10" AB (TI = 5.0)	13.00	\$1.63	\$21.:
		12.5" AB (TI = 6.0)		\$2.04	\$0.0
		15.5" AB (TI = 7.0)		\$2.43	\$0.0
		18.5" AB (TI = 8.0)	23.00	\$2.90	\$66.7
		20.5" AB (TI = 9.0)		\$3.08	\$0.0
		3.0" AC (TI = 5.0)	13.00	\$1.85	\$24.0
		3.5" AC (TI = 6.0)		\$2.04	\$0.0
		4.0" AC (TI = 7.0)		\$2.33	\$0.0
		4.5" AC (TI = 8.0)	23.00	\$2.62	\$60.2
		5.5" AC (TI = 9.0)		\$3.38	\$0.0
		6' wide Geotex. Fab. at Pavement Sect. break	2.00	\$1.20	\$2.4
		Vert. Curb & Gutter	2.00	\$21.00	\$0.0
		Vertical Curb	2.00	\$20.00	\$40.0 622.0
		Flush Curb	2.00	\$16.00	\$32.0
		6' Wide Sep. Sidewalk (incl. SG & AB)	2.00	\$36.00	\$0.0
		10' Wide Multi-Use Path (w/o DG, w/ SG & AB)	2.00	\$55.00	\$110.0
		10' Wide Multi-Use Path (w/ DG, w/ SG & AB)		\$65.00	\$0.0
-		12' Wide Multi-Use Path (w/DG, w/SG & AB) 4' wide Valley Gutter (incl. SG & AB)		\$76.00 \$40.00	\$0.0 \$0.0
		30' wide 8" PCC Heavy D/way w/reinforcement	0.00	\$10,000.00	\$0.0
		Finish Grade EOP to ROW	34.00	\$10,000.00 \$0.20	\$6.8
		Sign & Stripe & Monuments	1.00	\$0.20	\$7.0
		Handicap Ramps	0.01	\$2,500.00	\$25.0
		Bike Ramps	0.005	\$3,000.00	\$15.0
		Streetscape Landscape	45.00	\$7.50	\$337.5
		Electric Vehicle Charging Stations		\$400.00	\$0.0
		Hand/Barrier Rails		\$25.00	\$0.0
		-	tal Street Im	provements:	\$763.0

		Project Cost Estimate	12016	dollare	
-		Fiujeci cusi Estimate	(2010	uollars	
epare	ed by:	Gary Albertson, PMA			Date: 03/24/16
- du		action No C			
auw	ay S	ection No.: 6			
			Est. Qty.		
-	Item		Per		
-	No.	Description	LF of Road	Unit Price	Cost/LF
San		Sewer:			
		8" SS < 10'	0.50	\$55.00	\$27.50
	2	8" SS > 10' < 15'	0.50		\$30.00
	3	10" SS >10' < 15'		\$85.00	\$0.00
	4	12" SS >10' < 15'		\$95.00	\$0.00
	5	12" SS > 15' < 20'		\$110.00	\$0.00
	6	48" SSMH < 10' (round up 1/250')	0.002	\$5,000.00	\$10.00
	7	48" SSMH >10' < 15' (round up 1/250')	0.002	\$5,500.00	\$11.00
	8	48" SSMH > 15' < 20' (round up 1/250')		\$6,300.00	\$0.00
	9	Dewatering > 10' <15'	0.50	\$15.00	\$7.50
	10	Dewatering >15' < 20'	0.00	\$25.00	\$0.00
	11	8" SS Lateral	0.01	\$4,000.00	\$32.00
	12	SS cleanout	0.01	\$500.00	\$4.00
			Subtotal Sar	nitary Sewer:	\$122.00
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Stor	m Dra				
		15" RCP		\$80.00	\$0.00
		48" SDMH	0.000	\$5,500.00	\$0.00
		CB with 12" RCP lateral	0.000	\$6,000.00	\$0.00
	4	SD Outfall		\$10,000.00	\$0.00
			Subtotal	Storm Drain:	\$0.00

		Project Cost Estimate	(2016	dollars)
epar	ed by:	Gary Albertson, PMA			Date: 03/24/1
badv	vay S	ection No.: 6			
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Do	mestic	Water			
	1	12" Water	1.00	\$80.00	\$80.0
	2	12" Valves (1 valves/250')	0.004	\$3,200.00	\$12.8
	3	3" Blowoffs (1/1000')	0.001	\$4,000.00	\$4.0
	4	2" Arv's (1/1000)	0.001	\$5,000.00	\$5.0
	5	FH Assembly (1/500')	0.002	\$5,800.00	\$11.6
	6	8" Water Serv. (w/ Temp. B.O.) (1/250')	0.004	\$7,000.00	\$28.0
_		S	Subtotal Dom	nestic Water:	\$141.4
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Rav		er System (Irrigation)			
	1	8" Water	1.00	\$64.00	\$64.0
-	-	8" Valves (1/250')	0.004	\$1,700.00	\$6.8
_	3	2" Blowoffs (1/1000')	0.001	\$2,000.00	\$2.0
_	4	1" ARV's (1/1000')	0.001	\$3,000.00	\$3.0
	5	4" Irr. Serv. (w/ Temp. BO) (1/250')	0.004	\$5,000.00	\$20.0
-		Sub	total Raw W	ater System:	\$95.8
			Est. Qty.		
	ltem		Per		
	<u>No.</u>	Description	<u>LF of Road</u>	<u>Unit Price</u>	<u>Cost/LF</u>
Joir		ty Trench & Street Lighting			
		Joint Utility Trench	1.00	\$175.00	\$175.0
	2	Street Lighting Sytem	1.00	\$70.00	\$70.0
		Sub	total Joint U	tility Trench:	\$245.0

-					
		Project Cost Estimate	(2016	dollars)
Prepar	ed by:	Gary Albertson, PMA			Date: 03/24/1
Roady	Nav S	ection No.: 6			
louu	lug St				
			Est. Qty.		
	Item		Per		
_	No.	Description	LF of Road	Unit Price	Cost/LF
Str		provements			
		Subgrade Prep	47.00	\$0.42	\$19.7
		10" AB (TI = 5.0)	13.00	\$1.63	\$21.1
		12.5" AB (TI = 6.0)		\$2.04	\$0.0
		15.5" AB (TI = 7.0)		\$2.43	\$0.0
		18.5" AB (TI = 8.0)	34.00	\$2.90	\$98.6
		20.5" AB (TI = 9.0)		\$3.08	\$0.0
		3.0" AC (TI = 5.0)	13.00	\$1.85	\$24.0
		3.5" AC (TI = 6.0)		\$2.04	\$0.0
		4.0" AC (TI = 7.0)		\$2.33	\$0.0
		4.5" AC (TI = 8.0)	34.00	\$2.62	\$89.0
		5.5" AC (TI = 9.0)		\$3.38	\$0.0
		6' wide Geotex. Fab. at Pavement Sect. break	2.00	\$1.20	\$2.4
		Vert. Curb & Gutter		\$21.00	\$0.0
		Vertical Curb		\$20.00	\$0.0
		Flush Curb	2.00	\$16.00	\$32.0
		6' Wide Sep. Sidewalk (incl. SG & AB)		\$36.00	\$0.0
		10' Wide Multi-Use Path (w/o DG, w/ SG & AB)	2.00	\$55.00	\$110.0
		10' Wide Multi-Use Path (w/ DG, w/ SG & AB)		\$65.00	\$0.0
		12' Wide Multi-Use Path (w/DG, w/SG & AB)		\$76.00	\$0.0
		4' wide Valley Gutter (incl. SG & AB)		\$40.00	\$0.0
		30' wide 8" PCC Heavy D/way w/reinforcement	0.01	\$10,000.00	\$50.0
		Finish Grade EOP to ROW	34.00	\$0.20	\$6.8
		Sign & Stripe & Monuments	1.00	\$7.00	\$7.0
		Handicap Ramps	0.01	\$2,500.00	\$25.0
		Bike Ramps	0.005	\$3,000.00	\$15.0
		Streetscape Landscape	34.00	\$7.50	\$255.0
		Electric Vehicle Charging Stations		\$400.00	\$0.0
		Hand/Barrier Rails		\$25.00	\$0.0
		Subto	ial Street Im	provements:	\$755.8
		Total All S	Street Impr	ovements:	\$1,360.00

	IV	lace Ranch Innov	ation	Cente	er
		Project Cost Estimate	e (2016 d	ollars)	
epar	ed by:	Gary Albertson, PMA		Dat	e: 03/24/1
Ī	1				
adv	vay S	ection No.: 7			
-			Est. Qty.		
	Item		Per		
	No.	Description	LF of Road	Unit Price	Cost/LF
Sar	itary :	Sewer:			
	1	8" SS < 10'	1.00	\$55.00	\$55.0
	2	8" SS > 10' < 15'		\$60.00	\$0.0
1	3	10" SS >10' < 15'		\$85.00	\$0.0
	4	12" SS >10' < 15'		\$95.00	\$0.0
	5	12" SS > 15' < 20'		\$110.00	\$0.0
	6	48" SSMH < 10' (round up 1/250')	0.004	\$5,000.00	\$20.0
	7	48" SSMH >10' < 15' (round up 1/250')		\$5,500.00	\$0.0
	8	48" SSMH > 15' < 20' (round up 1/250')		\$6,300.00	\$0.0
	9	Dewatering > 10' <15'	0.00	\$15.00	\$0.0
	10	Dewatering >15' < 20'	0.00	\$25.00	\$0.0
	11	8" SS Lateral	0.01	\$4,000.00	\$32.0
	12	SS cleanout	0.01	\$500.00	\$4.0
			Subtotal Sar	nitary Sewer:	\$111.0
			Fat Obs		
-	ltem		Est. Qty. Per		
	No.	Description	LF of Road	Unit Price	Cost/LF
Sto	rm Dra		LF OF ROAD	<u>Unit Price</u>	
5.0	1	15" RCP	1.00	\$80.00	\$80.0
	2	48" SDMH	0.002	\$5,500.00	\$11.0
-	3	CB with 12" RCP lateral	0.002	\$6,000.00	\$24.0
	4	SD Outfall	0.002	\$10,000.00	\$29.0
				Storm Drain:	\$135.0
1					

	N	lace Ranch Innov	vation	Cente)r
		Project Cost Estimate	e (2016 d	ollars)	
epar	ed by:	Gary Albertson, PMA		Dat	e: 03/24/10
oad	way S	ection No.: 7			
_			Est. Qty.		
	Item		Per		4
	No.	Description	LF of Road	Unit Price	Cost/LF
Do		Water			
	1	12" Water	1.00	\$80.00	\$80.0
	2	12" Valves (1 valves/250')	0.004	\$3,200.00	\$12.8
	3	3" Blowoffs (1/1000')	0.001	\$4,000.00	\$4.0
	4	2" Arv's (1/1000)	0.001	\$5,000.00	\$5.0
	5	FH Assembly (1/500')	0.002	\$5,800.00	\$11.6
	6	8" Water Serv. (w/ Temp. B.O.) (1/250')	0.004	\$7,000.00	\$28.0
			Subtotal Dom	estic Water:	\$141.40
_			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Rav	w Wate	er System (Irrigation)			
	() ()	8" Water	1.00	\$64.00	\$64.0
_	1	8" Valves (1/250')	0.004	\$1,700.00	\$6.8
	3	2" Blowoffs (1/1000')	0.001	\$2,000.00	\$2.0
	4	1" ARV's (1/1000')	0.001	\$3,000.00	\$3.00
_	5	4" Irr. Serv. (w/ Temp. BO) (1/250')	0.004	\$5,000.00	\$20.0
-			Subtotal Raw W	ater System:	\$95.8
-			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Joir		ty Trench & Street Lighting			
	1	Joint Utility Trench	1.00	\$175.00	\$175.00
	2	Street Lighting Sytem	1.00	\$70.00	\$70.00
			Subtotal Joint Ut	tility Trench:	\$245.00

	N	lace Ranch Innova	tion	Cente	ər
		Project Cost Estimate (2	2016 d	ollars)	
epare	d by:	Gary Albertson, PMA		Dar	te: 03/24/1
oadw	/ay So	ection No.: 7			
	_		Est. Qty.		
_	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Stre	et Im	provements			
_		Subgrade Prep	74.00	\$0.42	\$31.0
		10" AB (TI = 5.0)	40.00	\$1.63	\$65.2
_		12.5" AB (TI = 6.0)		\$2.04	\$0.0
		15.5" AB (TI = 7.0)	34.00	\$2.43	\$82.6
		18.5" AB (TI = 8.0)		\$2.90	\$0.0
		20.5" AB (TI = 9.0)		\$3.08	\$0.0
		3.0" AC (TI = 5.0)	40.00	\$1.85	\$74.0
		3.5" AC (TI = 6.0)		\$2.04	\$0.0
		4.0" AC (TI = 7.0)	34.00	\$2.33	\$79.2
		4.5" AC (TI = 8.0)		\$2.62	\$0.0
		5.5" AC (TI = 9.0)		\$3.38	\$0.0
_		6' wide Geotex. Fab. at Pavement Sect. break	2.00	\$1.20	\$2.4
	_	Vert. Curb & Gutter		\$21.00	\$0.0
		Vertical Curb	2.00	\$20.00	\$40.0
		Flush Curb		\$16.00	\$0.0
		6' Wide Sep. Sidewalk (incl. SG & AB)		\$36.00	\$0.0
		10' Wide Multi-Use Path (w/o DG, w/ SG & AB)	2.00	\$55.00	\$110.0
		10' Wide Multi-Use Path (w/ DG, w/ SG & AB)		\$65.00	\$0.0
		12' Wide Multi-Use Path (w/DG, w/SG & AB)		\$76.00	\$0.0
		4' wide Valley Gutter (incl. SG & AB)	2.00	\$40.00	\$80.0
		30' wide 8" PCC Heavy D/way w/reinforcement	0.01	\$10,000.00	\$50.0
		Finish Grade EOP to ROW	14.00	\$0.20	\$2.8
		Sign & Stripe & Monuments	1.00	\$7.00	\$7.0
		Handicap Ramps	0.01	\$2,500.00	\$25.0
		Bike Ramps	0.005	\$3,000.00	\$15.0
		Streetscape Landscape	14.00	\$7.50	\$105.0
		Electric Vehicle Charging Stations	0.10	\$400.00	\$40.0
		Hand/Barrier Rails		\$25.00	\$0.0
		Subto	tal Street Im	provements:	\$809.3
		Total All 9	Street Impr	ovements:	\$1,537.5

-		Project Cost Estimate	(2016	dollars	
epare	ed by:	Gary Albertson, PMA			Date: 03/24/1
badv	vay S	ection No.: 8			
			Est. Qty.		
	Item		Per		
	No.	Description	LF of Road	Unit Price	Cost/LF
San		Sewer:	LI OI NOad	UnitThe	<u>C031/ L1</u>
Jun	1	8" SS < 10'	0.20	\$55.00	\$11.0
		8" SS > 10' < 15'	0.20		\$12.0
	3	10" SS >10' < 15'	0.20		\$17.0
-	-	12" SS >10' < 15'	0.20		\$19.0
		12" SS > 15' < 20'	0.20		\$22.0
	6	48" SSMH < 10' (round up 1/250')	0.001	\$5,000.00	\$5.0
	7	48" SSMH >10' < 15' (round up 1/250')	0.002	\$5,500.00	\$11.0
	8	48" SSMH > 15' < 20' (round up 1/250')	0.001	\$6,300.00	\$6.3
	9	Dewatering > 10' <15'	0.60	\$15.00	\$9.0
	10	Dewatering >15' < 20'	0.20	\$25.00	\$5.0
	11	8" SS Lateral	0.01	\$4,000.00	\$32.0
	12	SS cleanout	0.01	\$500.00	\$4.0
			Subtotal Sar	hitary Sewer:	\$153.3
			Est. Qty.		
	ltem		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Sto	rm Dra				
	1	15" RCP		\$80.00	\$0.0
	2	48" SDMH	0.000	\$5,500.00	\$0.C
	3	CB with 12" RCP lateral	0.000	\$6,000.00	\$0.0
	4	SD Outfall		\$10,000.00	\$ 0 .0
			Subtotal	Storm Drain:	\$0.0

		Mace Ranch Innov	ation	Cent	er
		Project Cost Estimate	(2016	dollars)
epar	ed by:	Gary Albertson, PMA			Date: 03/24/1
Jady	vav S	ection No.: 8			
Juu	l ay 5				
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Do	mestic	Water			
	1	12" Water	1.00	\$80.00	\$80.00
	2	12" Valves (1 valves/250')	0.004	\$3,200.00	\$12.80
	3	3" Blowoffs (1/1000')	0.001	\$4,000.00	\$4.0
	4	2" Arv's (1/1000)	0.001	\$5,000.00	\$5.0
	5	FH Assembly (1/500')	0.002	\$5,800.00	\$11.6
	6	8" Water Serv. (w/ Temp. B.O.) (1/250')	0.004	\$7,000.00	\$28.0
		S	Subtotal Dom	estic Water:	\$141.40
			Est. Qty.		
	ltem		Per		
_	No.	Description	LF of Road	Unit Price	Cost/LF
Rav	1	er System (Irrigation)			4010
_	1	8" Water	1.00	\$64.00	\$64.00
		8" Valves (1/250')	0.004	\$1,700.00	\$6.8
_	3	2" Blowoffs (1/1000')	0.001	\$2,000.00	\$2.00
_	4	1" ARV's (1/1000')	0.001	\$3,000.00	\$3.00
	5	4" Irr. Serv. (w/ Temp. BO) (1/250')	0.004	\$5,000.00	\$20.00 \$95.8 0
-			total Raw W	ater System:	\$ 3 5.0
-			Est. Qty.		
	ltem		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Joir	nt Utili	ty Trench & Street Lighting			
	1	Joint Utility Trench	1.00	\$175.00	\$175.00
	2	Street Lighting Sytem	1.00	\$70.00	\$70.00
		Sub	total Joint U	tility Trench:	\$245.00

		Project Cost Estimate	(2016	dollare)
		riojeci oosi Estimate	(2010	uonars	/
epare	d by:	Gary Albertson, PMA			Date: 03/24/10
badw	ay S	ection No.: 8			
			Est. Qty.		
	Item	Description	Per	Linit Drice	Cost/IF
Chuo	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
stre	erim	provements Subgrade Prep	47.00	\$0.42	\$19.74
		10" AB (TI = 5.0)	13.00	\$0.42	\$19.74
		12.5" AB (II = 5.0)	15.00	\$2.04	\$0.0
		15.5" AB (TI = 7.0)		\$2.43	\$0.0
		18.5" AB (TI = 8.0)		\$2.90	\$0.0
		20.5" AB (TI = 9.0)	34.00	\$3.08	\$104.7
		3.0" AC (TI = 5.0)	13.00	\$1.85	\$24.0
		3.5" AC (TI = 6.0)		\$2.04	\$0.0
		4.0" AC (TI = 7.0)		\$2.33	\$0.0
		4.5" AC (TI = 8.0)		\$2.62	\$0.0
		5.5" AC (TI = 9.0)	34.00	\$3.38	\$114.9
		6' wide Geotex. Fab. at Pavement Sect. break	2.00	\$1.20	\$2.4
		Vert. Curb & Gutter		\$21.00	\$0.0
		Vertical Curb		\$20.00	\$0.0
		Flush Curb	2.00	\$16.00	\$32.0
		6' Wide Sep. Sidewalk (incl. SG & AB)	2.00	\$36.00	\$72.0
		10' Wide Multi-Use Path (w/o DG, w/ SG & AB)		\$55.00	\$0.0
		10' Wide Multi-Use Path (w/ DG, w/ SG & AB)		\$65.00	\$0.0
		12' Wide Multi-Use Path (w/DG, w/SG & AB)		\$76.00	\$0.0
		4' wide Valley Gutter (incl. SG & AB)	0.04	\$40.00	\$0.0
		30' wide 8" PCC Heavy D/way w/reinforcement	0.01	\$10,000.00	\$50.0
		Finish Grade EOP to ROW	34.00	\$0.20	\$6.8 \$7.0
		Sign & Stripe & Monuments Handicap Ramps	1.00 0.01	\$7.00 \$2,500.00	\$7.0 \$25.0
		Bike Ramps	0.01	\$2,500.00	\$25.0
		Streetscape Landscape	34.00	\$3,000.00	\$0.0
+	_	Electric Vehicle Charging Stations	54.00	\$400.00	\$255.0
-		Hand/Barrier Rails		\$25.00	\$0.0
		-	tal Street Im	provements:	\$734.8

		Project Cost Estimate	(2016	dollars)
pare	ed by:	Gary Albertson, PMA			Date: 03/24/1
adw	/ay S	ection No.: 9			
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
San		Sewer:			
		8" SS < 10'		\$55.00	\$0.0
		8" SS > 10' < 15'		\$60.00	\$0.0
	3	10" SS >10' < 15'		\$85.00	\$0.0
	-	12" SS >10' < 15'		\$95.00	\$0.0
	5	12" SS > 15' < 20'		\$110.00	\$0.0
		48" SSMH < 10' (round up 1/250')		\$5,000.00	\$0.0
	7	48" SSMH >10' < 15' (round up 1/250')		\$5,500.00	\$0.0
		48" SSMH > 15' < 20' (round up 1/250')		\$6,300.00	\$0.0
_	9	Dewatering > 10' <15'	0.00	•	\$0.0
		Dewatering >15' < 20'	0.00	•	\$0.0
		8" SS Lateral	0.00		\$0.0
	12	SS cleanout	0.00	· · · · · · · · · · · · · · · · · · ·	\$0.0
			Subtotal Sa	nitary Sewer:	\$0.0
			Est. Qty.		
	ltem		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Stor	m Dra	ain			
	1	15" RCP		\$80.00	\$0.0
	2	48" SDMH	0.000	\$5,500.00	\$0.0
	3	CB with 12" RCP lateral	0.000	\$6,000.00	\$0.0
	4	SD Outfall		\$10,000.00	\$0.0
			Subtotal	Storm Drain:	\$0.0

		Mace Ranch Innov			
		Project Cost Estimate	(2016	dollars	
epar	ed by:	Gary Albertson, PMA			Date: 03/24/1
oadv	way 5	ection No.: 9			
			Est. Qty.		
-	Item		Per		
+	No.	Description	LF of Road	Unit Price	Cost/LF
Do	mestic	Water			
	1	12" Water	1.00	\$80.00	\$80.0
	2	12" Valves (1 valves/250')	0.004	\$3,200.00	\$12.8
	3	3" Blowoffs (1/1000')	0.001	\$4,000.00	\$4.0
	4	2" Arv's (1/1000)	0.001	\$5,000.00	\$5.0
	5	FH Assembly (1/500')	0.002	\$5,800.00	\$11.6
_	6	8" Water Serv. (w/ Temp. B.O.) (1/250')	0.004	\$7,000.00	\$28.0
-		S	ubtotal Dom	estic Water:	\$141.4
			Est. Qty.		
	ltem		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Rav		er System (Irrigation)			4
_	1	8" Water	1.00	\$64.00	\$64.00
_	2	8" Valves (1/250')	0.004	\$1,700.00	\$6.8
_	-	2" Blowoffs (1/1000') 1" ARV's (1/1000')	0.001	\$2,000.00 \$3,000.00	\$2.0 \$3.0
-	5	4" Irr. Serv. (w/ Temp. BO) (1/250')	0.001	\$5,000.00	\$20.00
_	5		1	ater System:	\$95.8
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Joir		ty Trench & Street Lighting			
		Joint Utility Trench	1.00	\$175.00	\$175.00
	2	Street Lighting Sytem	1.00	\$70.00	\$70.00
		Sub	total Joint U	tility Trench:	\$245.00

		Project Cost Estimate	(2016	dollare	1
		Floject Cost Estimate	(2010	uollars)
epare	ed by:	Gary Albertson, PMA			Date: 03/24/1
adw	vay S	ection No.: 9			
-			Est. Qty.		
1	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Stre	eet Im	provements			
		Subgrade Prep	36.00	\$0.42	\$15.1
		10" AB (TI = 5.0)	13.00	\$1.63	\$21.1
		12.5" AB (TI = 6.0)		\$2.04	\$0.0
		15.5" AB (TI = 7.0)		\$2.43	\$0.0
		18.5" AB (TI = 8.0)		\$2.90	\$0.0
		20.5" AB (TI = 9.0)	22.00	\$3.08	\$67.7
		3.0" AC (TI = 5.0)	13.00	\$1.85	\$24.0
		3.5" AC (TI = 6.0)		\$2.04	\$0.0
		4.0" AC (TI = 7.0)		\$2.33	\$0.0
		4.5" AC (TI = 8.0)		\$2.62	\$0.0
		5.5" AC (TI = 9.0)	22.00	\$3.38	\$74.3
		6' wide Geotex. Fab. at Pavement Sect. break Vert. Curb & Gutter	2.00	\$1.20	\$2.4
-		Vert. Curb & Gutter Vertical Curb	2.00	\$21.00	\$0.0
-		Flush Curb	2.00	\$20.00	\$40.0
_		6' Wide Sep. Sidewalk (incl. SG & AB)	2.00	\$16.00 \$36.00	\$32.0 \$72.0
-		10' Wide Multi-Use Path (w/o DG, w/ SG & AB)	2.00	\$55.00	\$72.0
-		10' Wide Multi-Use Path (w/ DG, w/ SG & AB)		\$65.00	\$0.0
-		12' Wide Multi-Use Path (w/DG, w/SG & AB)		\$76.00	\$0.0
		4' wide Valley Gutter (incl. SG & AB)		\$40.00	\$0.0
		30' wide 8" PCC Heavy D/way w/reinforcement	0.00	\$10,000.00	\$0.0
		Finish Grade EOP to ROW	34.00	\$0.20	\$6.8
		Sign & Stripe & Monuments	1.00	\$7.00	\$7.0
		Handicap Ramps	0.01	\$2,500.00	\$25.0
		Bike Ramps	0.000	\$3,000.00	\$0.0
		Streetscape Landscape	45.00	\$7.50	\$337.5
		Electric Vehicle Charging Stations		\$400.00	\$0.0
		Hand/Barrier Rails		\$25.00	\$0.0
		Subto	tal Street Im	provements:	\$725.1

	1				
		Project Cost Estimate	(2016	dollars)
epare	ed by:	Gary Albertson, PMA			Date: 03/24/1
badw	vay S	ection No.: 10			
			Est. Qty.		
_	ltem		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
San		Sewer:			
		8" SS < 10'	0.50	\$55.00	\$27.5
		8" SS > 10' < 15'	0.50	\$60.00	\$30.0
	3	10" SS >10' < 15'		\$85.00	\$0.0
	4	12" SS >10' < 15'		\$95.00	\$0.0
	5	12" SS > 15' < 20'		\$110.00	\$0.C
	6	48" SSMH < 10' (round up 1/250')	0.002	\$5,000.00	\$10.0
	7	48" SSMH >10' < 15' (round up 1/250')	0.002	\$5,500.00	\$11.0
	8	48" SSMH > 15' < 20' (round up 1/250')		\$6,300.00	\$0.0
	9	Dewatering > 10' <15'	0.50	\$15.00	\$7.5
	10	Dewatering >15' < 20'	0.00	\$25.00	\$0.0
	11	8" SS Lateral	0.01	\$4,000.00	\$32.0
	12	SS cleanout	0.01	\$500.00	\$4.C
			Subtotal Sar	itary Sewer:	\$122.0
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Stor	m Dra				
	1	15" RCP		\$80.00	\$0.C
		48" SDMH	0.000	\$5,500.00	\$0.0
-	3	CB with 12" RCP lateral	0.000	\$6,000.00	\$0.0
-		SD Outfall		\$10,000.00	\$0.0
			Subtotal	Storm Drain:	\$0.0

	-	Mace Ranch Innov	auvi		
		Project Cost Estimate	(2016	dollars)
epar	ed by:	Gary Albertson, PMA			Date: 03/24/1
oadv	way S	ection No.: 10			
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Do	mestic	Water			
	1	12" Water	1.00	\$80.00	\$80.0
	2	12" Valves (1 valves/250')	0.004	\$3,200.00	\$12.8
	3	3" Blowoffs (1/1000')	0.001	\$4,000.00	\$4.0
_	4	2" Arv's (1/1000)	0.001	\$5,000.00	\$5.0
_	5	FH Assembly (1/500')	0.002	\$5,800.00	\$11.6
_	6	8" Water Serv. (w/ Temp. B.O.) (1/250')	0.004	\$7,000.00	\$28.0
_		S	Subtotal Dom	nestic Water:	\$141.40
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Rav		er System (Irrigation)			
	1	8" Water	1.00	\$64.00	\$64.00
_		8" Valves (1/250')	0.004	\$1,700.00	\$6.8
_	3	2" Blowoffs (1/1000')	0.001	\$2,000.00	\$2.00
	4	1" ARV's (1/1000')	0.001	\$3,000.00	\$3.00
_	5	4" Irr. Serv. (w/ Temp. BO) (1/250')	0.004	\$5,000.00	\$20.00
		Sub	total kaw w	ater System:	\$95.8
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Joir		ty Trench & Street Lighting			
		Joint Utility Trench	1.00	\$175.00	\$175.00
	2	Street Lighting Sytem	1.00	\$70.00	\$70.00
		Sub	total Joint U	tility Trench:	\$245.00

			10040		
		Project Cost Estimate	(2016	dollars)
epare	ed by:	Gary Albertson, PMA			Date: 03/24/1
badv	vay S	ection No.: 10			
-			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Stre	eet Im	provements			
		Subgrade Prep	35.00	\$0.42	\$14.7
		10" AB (TI = 5.0)	13.00	\$1.63	\$21.1
		12.5" AB (TI = 6.0)		\$2.04	\$0.0
		15.5" AB (TI = 7.0)	22.00	\$2.43	\$53.4
		18.5" AB (TI = 8.0)		\$2.90	\$0.0
		20.5" AB (TI = 9.0)		\$3.08	\$0.0
		3.0" AC (TI = 5.0)	13.00	\$1.85	\$24.0
		3.5" AC (TI = 6.0)		\$2.04	\$0.0
		4.0" AC (TI = 7.0)	22.00	\$2.33	\$51.2
		4.5" AC (TI = 8.0)		\$2.62	\$0.0
		5.5" AC (TI = 9.0)	2.00	\$3.38	\$0.0
		6' wide Geotex. Fab. at Pavement Sect. break Vert. Curb & Gutter	2.00	\$1.20	\$2.4
-		Vertical Curb & Gutter		\$21.00	\$0.0 ¢0.0
-		Flush Curb	2.00	\$20.00	\$0.(\$22.(
		6' Wide Sep. Sidewalk (incl. SG & AB)	2.00	\$16.00 \$36.00	\$32.0 \$72.0
		10' Wide Multi-Use Path (w/o DG, w/ SG & AB)	2.00	\$55.00	\$72.0
-		10' Wide Multi-Use Path (w/ DG, w/ SG & AB) 10' Wide Multi-Use Path (w/ DG, w/ SG & AB)		\$65.00	\$0.0
-		12' Wide Multi-Use Path (w/DG, w/SG & AB)		\$76.00	\$0.0
		4' wide Valley Gutter (incl. SG & AB)		\$40.00	\$0.0
		30' wide 8" PCC Heavy D/way w/reinforcement	0.01	\$10,000.00	\$50.0
		Finish Grade EOP to ROW	34.00	\$0.20	\$6.8
		Sign & Stripe & Monuments	1.00	\$7.00	\$7.0
-		Handicap Ramps	0.01	\$2,500.00	\$25.0
-		Bike Ramps	0.000	\$3,000.00	\$0.0
		Streetscape Landscape	34.00	\$7.50	\$255.0
		Electric Vehicle Charging Stations		\$400.00	\$0.0
		Hand/Barrier Rails		\$25.00	\$0.0
		•	al Street Im	provements:	\$614.8
		Total All S	i i Mara at Inanau		\$1,219.0

		Project Cost Estimate	(2016 do	ollars)	
repar	ed by:	Gary Albertson, PMA		Date:	03/24/1
oadv	wav S	ection No.: 11			
1			Est. Qty.		
	Item		Per		
-	No.	Description	LF of Road	Unit Price	Cost/LF
Sar	nitary S	Sewer:			
	1	8" SS < 10'		\$55.00	\$0.0
	2	8" SS > 10' < 15'		\$60.00	\$0.0
	3	10" SS >10' < 15'		\$85.00	\$0.0
	4	12" SS >10' < 15'		\$95.00	\$0.0
	5	12" SS > 15' < 20'		\$110.00	\$0.0
	6	48" SSMH < 10' (round up 1/250')		\$5,000.00	\$0.0
	7	48" SSMH >10' < 15' (round up 1/250')		\$5,500.00	\$0.0
	8	48" SSMH > 15' < 20' (round up 1/250')		\$6,300.00	\$0.0
	9	Dewatering > 10' <15'	0.00	\$15.00	\$0.0
	10	Dewatering >15' < 20'	0.00	\$25.00	\$0.0
	11	8" SS Lateral	0.00	\$4,000.00	\$0.0
	12	SS cleanout	0.00	\$500.00	\$0.0
			Subtotal Sar	nitary Sewer:	\$0.0
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Sto	rm Dra				
	1	15" RCP		\$80.00	\$0.0
	2	48" SDMH	0.000	\$5,500.00	\$0.0
	3	CB with 12" RCP lateral	0.000	\$6,000.00	\$0.0
	4	SD Outfall		\$10,000.00	\$0.0
			Subtotal	Storm Drain:	\$0.0

		Project Cost Estimate	(2016 do	ollars)	
epar	ed by:	Gary Albertson, PMA		Date:	03/24/16
hso	Nav S	ection No.: 11			
	l l				
_			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Do	mestic	Water			
	1	12" Water	0.00	\$80.00	\$0.00
	2	12" Valves (1 valves/250')	0.000	\$3,200.00	
	3	3" Blowoffs (1/1000')	0.000	\$4,000.00	
	4	2" Arv's (1/1000)	0.000	\$5,000.00	
	5	FH Assembly (1/500')	0.000	\$5,800.00	
	6	8" Water Serv. (w/ Temp. B.O.) (1/250')	0.000	\$7,000.00	· · · · · · · · · · · · · · · · · · ·
_			Subtotal Dom	estic Water:	\$0.00
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Rav	<i>w</i> Wat	er System (Irrigation)			
	1	8" Water	0.00	\$64.00	
	2	8" Valves (1/250')	0.000	\$1,700.00	-
	3	2" Blowoffs (1/1000')	0.000	\$2,000.00	\$0.00
_	4	1" ARV's (1/1000')	0.000	\$3,000.00	\$0.00
_	5	4" lrr. Serv. (w/ Temp. BO) (1/250')	0.000	\$5,000.00	\$0.00
			Subtotal Raw W	ater System:	\$0.00
			Est. Qty.		
	Item		Per		
_	<u>No.</u>	Description	<u>LF of Road</u>	Unit Price	Cost/LF
1	at I Itili	ty Trench & Street Lighting			
Joii					
Joii	1 2	Joint Utility Trench Street Lighting Sytem	0.00	\$175.00 \$70.00	\$0.00 \$0.00

I		Project Cost Estimate (2	016 do	llars)	
pare	d by:	Gary Albertson, PMA		Date:	03/24/1
adw	iay S	ection No.: 11			
			Est. Qty.		
	Item <u>No.</u>	Description	Per LF of Road	Unit Price	Cost/LF
Stre	et Im	provements			
		Subgrade Prep		\$0.42	\$0.0
		10" AB (TI = 5.0)		\$1.63	\$0.0
		12.5" AB (TI = 6.0)		\$2.04	\$0.0
		15.5" AB (TI = 7.0)		\$2.43	\$0.0
		18.5" AB (TI = 8.0)		\$2.90	\$0.0
		20.5" AB (TI = 9.0)		\$3.08	\$0.0
		3.0" AC (TI = 5.0)		\$1.85	\$0.0
		3.5" AC (TI = 6.0)		\$2.04	\$0.0
		4.0" AC (TI = 7.0)		\$2.33	\$0.0
		4.5" AC (TI = 8.0)		\$2.62	\$0.0
		5.5" AC (TI = 9.0)		\$3.38	\$0.0
		6' wide Geotex. Fab. at Pavement Sect. break		\$1.20	\$0.0
		Vert. Curb & Gutter		\$21.00	\$0.0
		Vertical Curb		\$20.00	\$0.0
		Flush Curb		\$16.00	\$0.0
		6' Wide Sep. Sidewalk (incl. SG & AB)		\$36.00	\$0.0
		10' Wide Multi-Use Path (w/o DG, w/ SG & AB)		\$55.00	\$0.0
		10' Wide Multi-Use Path (w/ DG, w/ SG & AB)		\$65.00	\$0.0
		12' Wide Multi-Use Path (w/DG, w/SG & AB)	1.00	\$76.00	\$76.0
		4' wide Valley Gutter (incl. SG & AB)		\$40.00	\$0.0
		30' wide 8" PCC Heavy D/way w/reinforcement		\$10,000.00	\$0.0
		Finish Grade EOP to ROW		\$0.20	\$0.0
		Sign & Stripe & Monuments		\$7.00	\$0.0
		Handicap Ramps		\$2,500.00	\$0.0
		Bike Ramps	0.004	\$3,000.00	\$12.0
		Streetscape Landscape		\$7.50	\$0.0
		Electric Vehicle Charging Stations		\$400.00	\$0.0
		Hand/Barrier Rails		\$25.00 provements:	\$0.0 \$88.0

			040 -		
1	1	Project Cost Estimate (2	016 do	ollars)	
epare	ed by:	Gary Albertson, PMA		Date:	03/24/1
adu		ection No.: 12			
auv	vay S				
-			Est. Qty.		
-	Item		Per		
	No.	Description	LF of Road	Unit Price	Cost/LF
San		Sewer:			<u></u>
	1	8" SS < 10'		\$55.00	\$0.0
	2	8" SS > 10' < 15'	1	\$60.00	\$0.0
	3	10" SS >10' < 15'		\$85.00	\$0.0
	4	12" SS >10' < 15'		\$95.00	\$0.0
	5	12" SS > 15' < 20'		\$110.00	\$0.0
	6	48" SSMH < 10' (round up 1/250')		\$5,000.00	\$0.0
	7	48" SSMH >10' < 15' (round up 1/250')		\$5,500.00	\$0.0
	8	48" SSMH > 15' < 20' (round up 1/250')		\$6,300.00	\$0.0
	9	Dewatering > 10' <15'	0.00	\$15.00	\$0.0
	10	Dewatering >15' < 20'	0.00	\$25.00	\$0.0
	11	8" SS Lateral	0.00	\$4,000.00	\$0.0
	12	SS cleanout	0.00	\$500.00	\$0.0
			Subtotal Sai	nitary Sewer:	\$0.0
			Est. Qty.		
	ltem		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Sto	rm Dra				
	1	15" RCP		\$80.00	\$0.0
	2	48" SDMH	0.000		\$0.0
	3	CB with 12" RCP lateral	0.000	· · ·	\$0.0
	4	SD Outfall		\$10,000.00	\$0.0
			Subtotal	Storm Drain:	\$0.0

1	Ma	ace Ranch Innova	tion (Jente	r
	ļ	Project Cost Estimate (2016 do	ollars)	
repar	ed by:	Gary Albertson, PMA		Date:	03/24/16
		ection No.: 12			
Uau					
	ltem		Est. Qty. Per		
-	No.	Description	LF of Road	Unit Price	Cost/LF
Do		Water		Juit The	<u></u>
	1	12" Water		\$80.00	\$0.0
	2	12" Valves (1 valves/250')		\$3,200.00	\$0.00
	3	3" Blowoffs (1/1000')		\$4,000.00	\$0.00
_	4	2" Arv's (1/1000)		\$5,000.00	\$0.0
	5	FH Assembly (1/500')		\$5,800.00	\$0.0
	6	8" Water Serv. (w/ Temp. B.O.) (1/250')		\$7,000.00	\$0.0
			Subtotal Dom	estic Water:	\$0.0
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Rav	1	er System (Irrigation)		1	3
_	1	8" Water		\$64.00	\$0.00
_	2	8" Valves (1/250')		\$1,700.00	\$0.0
_	3	2" Blowoffs (1/1000')		\$2,000.00	\$0.00
_	4	1" ARV's (1/1000')	_	\$3,000.00	\$0.00
_	5	4" Irr. Serv. (w/ Temp. BO) (1/250')	ubtotal Raw W	\$5,000.00 ater System:	\$0.00 \$0.0 0
				,	•
			Est. Qty.		
	ltem		Per		
	<u>No.</u>	Description	LF of Road	<u>Unit Price</u>	<u>Cost/LF</u>
Joii	nt Utili	ty Trench & Street Lighting			
	1	Joint Utility Trench		\$175.00	\$0.00
	2	Street Lighting Sytem		\$70.00	\$0.00
		Si	ubtotal Joint Ut	tility Trench:	\$0.00

		Project Cost Estimate (2	016 do	llars)	
repar	ed by:	Gary Albertson, PMA		Date:	03/24/10
Roadv	vay S	ection No.: 12			
	ltem		Est. Qty. Per		
	No.	Description	LF of Road	Unit Price	Cost/LF
Stre		provements			
		Subgrade Prep		\$0.42	\$0.00
		10" AB (TI = 5.0)		\$1.63	\$0.00
		12.5" AB (TI = 6.0)		\$2.04	\$0.00
		15.5" AB (TI = 7.0)		\$2.43	
		18.5" AB (TI = 8.0)		\$2.90	
		20.5" AB (TI = 9.0)		\$3.08	
		3.0" AC (TI = 5.0)		\$1.85	
		3.5" AC (TI = 6.0)		\$2.04	
		4.0" AC (TI = 7.0)		\$2.33	\$0.00
_		4.5" AC (TI = 8.0)		\$2.62	•
		5.5" AC (TI = 9.0)		\$3.38	-
_		6' wide Geotex. Fab. at Pavement Sect. break		\$1.20	•
_		Vert. Curb & Gutter		\$21.00	
		Vertical Curb		\$20.00	\$0.00
		Flush Curb		\$16.00	\$0.0
		6' Wide Sep. Sidewalk (incl. SG & AB)		\$36.00 \$55.00	\$0.00
_		10' Wide Multi-Use Path (w/o DG, w/ SG & AB)	1.00		\$0.00
		10' Wide Multi-Use Path (w/ DG, w/ SG & AB) 12' Wide Multi-Use Path (w/DG, w/SG & AB)	1.00	\$65.00 \$76.00	\$65.00 \$0.00
		4' wide Valley Gutter (incl. SG & AB)		\$78.00	\$0.00
		30' wide 8" PCC Heavy D/way w/reinforcement		\$10,000.00	\$0.00
_		Finish Grade EOP to ROW		\$0.20	\$0.00
		Sign & Stripe & Monuments		\$7.00	\$0.00
		Handicap Ramps		\$2,500.00	\$0.00
		Bike Ramps	0.004	\$3,000.00	\$12.00
		Streetscape Landscape		\$7.50	\$0.00
		Electric Vehicle Charging Stations		\$400.00	\$0.00
		Hand/Barrier Rails		\$25.00	\$0.00
		-	al Street Im	provements:	\$77.00

		Mace Ranch Innov	ation	Cent	er
		Project Cost Estimate	(2016	dollars)
repare	ed by:	Gary Albertson, PMA			Date: 03/24/1
oadv	vay S	ection No.: 13			
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
San		Sewer:			
	1	8" SS < 10'		\$55.00	\$0.0
		8" SS > 10' < 15'		\$60.00	\$0.0
	3	10" SS >10' < 15'		\$85.00	\$0.0
	4	12" SS >10' < 15'		\$95.00	\$0.0
_	5	12" SS > 15' < 20'		\$110.00	\$0.0
	6	48" SSMH < 10' (round up 1/250')		\$5,000.00	\$0.0
	7	48" SSMH >10' < 15' (round up 1/250')		\$5,500.00	\$0.0
_	8	48" SSMH > 15' < 20' (round up 1/250')		\$6,300.00	\$0.0
_	9	Dewatering > 10' <15'	0.00	\$15.00	\$0.0
	10	Dewatering >15' < 20'	0.00	\$25.00	\$0.0
		8" SS Lateral	0.00	\$4,000.00	\$0.0
_	12	SS cleanout	0.00	\$500.00	\$0.0
			Subtotal Sar	nitary Sewer:	\$0.0
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Sto	rm Dra				
	1	15" RCP		\$80.00	\$0.0
	2	48" SDMH	0.000	\$5,500.00	\$0.0
	3	CB with 12" RCP lateral	0.000	\$6,000.00	\$0.0
	4	SD Outfall		\$10,000.00	\$0.0
			Subtotal	Storm Drain:	\$0.0

\$

		Mace Ranch Innov	ation	Cent	er
		Project Cost Estimate	(2016	dollars)
repar	ed by:	Gary Albertson, PMA			Date: 03/24/1
oad	way S	ection No.: 13			
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Do	mestic	Water			
	1	12" Water	1.00	\$80.00	\$80.0
	2	12" Valves (1 valves/250')	0.004	\$3,200.00	\$12.8
	3	3" Blowoffs (1/1000')	0.001	\$4,000.00	\$4.0
	4	2" Arv's (1/1000)	0.001	\$5,000.00	\$5.0
	5	FH Assembly (1/500')	0.002	\$5,800.00	\$11.6
_	6	8" Water Serv. (w/ Temp. B.O.) (1/250')	0.004 Subtotal Dom	\$7,000.00 estic Water:	\$28.0 \$141.4
_	Item		Est. Qty. Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Ra	w Wat	er System (Irrigation)			
	1	8" Water		\$64.00	\$0.0
	2	8" Valves (1/250')		\$1,700.00	\$0.0
	3	2" Blowoffs (1/1000')		\$2,000.00	\$0.0
	4	1" ARV's (1/1000')		\$3,000.00	\$0.0
	5	4" lrr. Serv. (w/ Temp. BO) (1/250')		\$5,000.00	\$0.00
_		Sub	total Raw W	ater System:	\$0.0
			Est. Qty.		
_	Item		Per		
	<u>No.</u>	Description	<u>LF of Road</u>	<u>Unit Price</u>	<u>Cost/LF</u>
Joi		ty Trench & Street Lighting			
	1	Joint Utility Trench		\$175.00	\$0.0
_	2	Street Lighting Sytem		\$70.00	\$0.00
		Sub	total Joint U	tility Trench:	\$0.0 (

		Project Cost Estimate	(2016	dollars)
epare	ed by:	Gary Albertson, PMA			Date: 03/24/1
adw	vav So	ection No.: 13			
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Stre	et Im	provements			
-		Subgrade Prep	31.00	\$0.42	\$13.0
		10" AB (TI = 5.0)		\$1.63	\$0.0
		12.5" AB (TI = 6.0)		\$2.04	\$0.0
		15.5" AB (TI = 7.0)	31.00	\$2.43	\$75.3
		18.5" AB (TI = 8.0)		\$2.90	\$0.0
		20.5" AB (TI = 9.0)		\$3.08	\$0.0
		3.0" AC (TI = 5.0)	0.00	\$1.85	\$0.0
		3.5" AC (TI = 6.0)		\$2.04	\$0.0
		4.0" AC (TI = 7.0)	31.00	\$2.33	\$72.2
		4.5" AC (TI = 8.0)		\$2.62	\$0.0
		5.5" AC (TI = 9.0)		\$3.38	\$0.0
		6' wide Geotex. Fab. at Pavement Sect. break		\$1.20	\$0.0
		Vert. Curb & Gutter	2.00	\$21.00	\$42.0
		Vertical Curb		\$20.00	\$0.0
		Flush Curb		\$16.00	\$0.0
		6' Wide Sep. Sidewalk (incl. SG & AB)		\$36.00	\$0.0
		10' Wide Multi-Use Path (w/o DG, w/ SG & AB)	2.00	\$55.00	\$110.0
		10' Wide Multi-Use Path (w/ DG, w/ SG & AB)		\$65.00	\$0.0
		12' Wide Multi-Use Path (w/DG, w/SG & AB)		\$76.00	\$0.0
		4' wide Valley Gutter (incl. SG & AB)		\$40.00	\$0.0
		30' wide 8" PCC Heavy D/way w/reinforcement		\$10,000.00	\$0.0
		Finish Grade EOP to ROW	12.00	\$0.20	\$2.4
		Sign & Stripe & Monuments	1.00	\$7.00	\$7.0
		Handicap Ramps		\$2,500.00	\$0.0
		Bike Ramps		\$3,000.00	\$0.0
		Streetscape Landscape	12.00	\$7.50	\$90.0
		Electric Vehicle Charging Stations	2.00	\$400.00	\$800.0
		Hand/Barrier Rails	2.00	\$25.00	\$50.0
		Subto	tal Street Im	provements:	\$1,261.9

		Project Cost Estimate	(2016	dollars)
pare	ed by:	Gary Albertson, PMA	Ň.		Date: 03/24/1
 	1014 6	ection No.: 14			
auw	vay S				
-			Est. Qty.		
	Item		Per		
	No.	Description	LF of Road	Unit Price	Cost/LF
San		Sewer:			
	1	8" SS < 10'		\$55.00	\$0.0
	2	8" SS > 10' < 15'		\$60.00	\$0.0
	3	10" SS >10' < 15'		\$85.00	\$0.0
	4	12" SS >10' < 15'		\$95.00	\$0.0
	5	12" SS > 15' < 20'		\$110.00	\$0.0
	6	48" SSMH < 10' (round up 1/250')		\$5,000.00	\$0.0
	7	48" SSMH >10' < 15' (round up 1/250')		\$5,500.00	\$0.0
	8	48" SSMH > 15' < 20' (round up 1/250')		\$6,300.00	\$0.0
	9	Dewatering > 10' <15'	0.00	\$15.00	\$0.0
	10	Dewatering >15' < 20'	0.00	\$25.00	\$0.0
	11	8" SS Lateral	0.00	\$4,000.00	\$0.0
	12	SS cleanout	0.00	\$500.00	\$0.0
			Subtotal Sar	nitary Sewer:	\$0.0
			Est. Qty.		
	Item		Per		
	No.	Description	LF of Road	Unit Price	Cost/LF
Stor	rm Dra	ain			
	1	15" RCP		\$80.00	\$0.0
	2	48" SDMH	0.000	\$5,500.00	\$0.0
	3	CB with 12" RCP lateral	0.000	\$6,000.00	\$0.0
	4	SD Outfall		\$10,000.00	\$0.0
			Subtotal	Storm Drain:	\$0.0

		Project Cost Estimate	(2016	dollars)
repa	red by:	Gary Albertson, PMA			Date: 03/24/1
load	way S	ection No.: 14			
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Do	omestic	Water			
	1	12" Water	1.00	\$80.00	\$80.0
	2	12" Valves (1 valves/250')	0.004	\$3,200.00	\$12.8
	3	3" Blowoffs (1/1000')	0.001	\$4,000.00	\$4.0
	4	2" Arv's (1/1000)	0.001	\$5,000.00	\$5.0
	5	FH Assembly (1/500')	0.002	\$5,800.00	\$11.6
	6	8" Water Serv. (w/ Temp. B.O.) (1/250')	0.004	\$7,000.00	\$28.0
_	_	S	ubtotal Dom	estic Water:	\$141.4
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Ra	w Wat	er System (Irrigation)			
	1	8" Water		\$64.00	\$0.0
_	2	8" Valves (1/250')		\$1,700.00	\$0.0
	3	2" Blowoffs (1/1000')		\$2,000.00	\$0.0
	4	1" ARV's (1/1000')		\$3,000.00	\$0.0
	5	4" Irr. Serv. (w/ Temp. BO) (1/250')		\$5,000.00	\$0.0
_		Sub	total Raw W	ater System:	\$0.0
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	<u>Cost/LF</u>
Jo		ty Trench & Street Lighting			
	1	Joint Utility Trench		\$175.00	\$0.0
	2	Street Lighting Sytem		\$70.00	\$0.0
		Sub	total Joint U	tility Trench:	\$0.0

		Project Cost Estimate	(2016	dollars)
epare	ed by:	Gary Albertson, PMA			Date: 03/24/1
) oodu		ection No.: 14			
Jauv	vay 5				
			Est. Qty.		
	Item		Per		
	<u>No.</u>	Description	LF of Road	Unit Price	Cost/LF
Stre	eet Im	provements			
		Subgrade Prep	39.00	\$0.42	\$16.3
_		10" AB (TI = 5.0)	15.00	\$1.63	\$24.4
_		12.5" AB (TI = 6.0)		\$2.04	\$0.0
_		15.5" AB (TI = 7.0)	34.00	\$2.43	\$82.6
12		18.5" AB (TI = 8.0)		\$2.90	\$0.0
_		20.5" AB (TI = 9.0)	15.00	\$3.08	\$0.0
_		3.0" AC (TI = 5.0) 3.5" AC (TI = 6.0)	15.00	\$1.85	\$27.7
_		4.0" AC (TI = 7.0)	34.00	\$2.04 \$2.33	\$0.0 \$79.2
-		4.5" AC (TI = 8.0)	54.00	\$2.55	\$79.2
-		5.5" AC (TI = 9.0)		\$2.82	\$0.0
_		6' wide Geotex. Fab. at Pavement Sect. break	2.00	\$1.20	\$2.4
-		Vert. Curb & Gutter	2.00	\$21.00	\$42.0
_		Vertical Curb	2.00	\$20.00	\$0.0
		Flush Curb		\$16.00	\$0.0
-		6' Wide Sep. Sidewalk (incl. SG & AB)	2.00	\$36.00	\$72.0
		10' Wide Multi-Use Path (w/o DG, w/ SG & AB)		\$55.00	\$0.0
		10' Wide Multi-Use Path (w/ DG, w/ SG & AB)		\$65.00	\$0.0
		12' Wide Multi-Use Path (w/DG, w/SG & AB)		\$76.00	\$0.0
		4' wide Valley Gutter (incl. SG & AB)		\$40.00	\$0.0
		30' wide 8" PCC Heavy D/way w/reinforcement		\$10,000.00	\$0.0
		Finish Grade EOP to ROW	6.00	\$0.20	\$1.2
		Sign & Stripe & Monuments	1.00	\$7.00	\$7.0
		Handicap Ramps		\$2,500.00	\$0.0
		Bike Ramps		\$3,000.00	\$0.0
		Streetscape Landscape	6.00	\$7.50	\$45.0
		Electric Vehicle Charging Stations	2.00	\$400.00	\$800.0
		Hand/Barrier Rails	2.00	\$25.00	\$50.0
		Subto	tal Street Im	provements:	\$1,250.0

APPENDIX E: Innovation Cluster Dynamics



Significant research has been conducted regarding the sources of demand for the type of space planned for MRIC and resulting in a range of amenities and features affecting the cost of development. A summary of key clusters and related needs appears below.

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Clean Energy Technology Cluster

Characteristics
 Description – producing goods and providing services related to clean or renewable energy, energy efficiency, clean transportation, and green building Predominant Core Regional Activities – clean energy and clean transportation Prominent Local Companies – Blue Oak Energy, Octus Energy
Research & Innovation Activity
 Academic Research Strengths - clean energy and engineering Venture Capital - \$100 million in Davis in past 11 years, representing all regional activity Local Tech Companies - 9 on SARTA list and 1 gazelle
Support Ecosystem
 Regional Programs – SARTA CleanStart and Green Capital Alliance Key University Programs – Institute for Transportation Studies, California Lighting Technology Center, Energy Efficiency Center, Energy Institute
Real Estate Demand
 General Categories – utility-scale land, heavy and light industrial, and flex Specialized Space – clean room space and demonstration or prototype testing facilities
Other Indicators
Utility renewable energy portfolio standards

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Agriculture & Food Production Cluster

Characteristics
Description – growing of crops, the raising of animals, food processing, and related manufacturing, wholesaling, and retailing
 Predominant Core Regional Activities – agriculture and food and beverage manufacturing Prominent Local Companies – Marrone Bio Innovations, HM Clauss, Nunhems
Research & Innovation Activity
 Academic Research Strengths – agriculture and biotechnology Venture Capital – \$15 million in Davis in past 11 years, representing all regional activity Local Tech Companies – 14 on SARTA list, 3 UC Davis startups, and 3 gazelles
Support Ecosystem
 Regional Programs – "America's Farm-to-Fork Capital" campaign, Rural-Urban Connections Strategy (RUCS), and SARTA AgStart Key University Programs – Seed Central, World Food Center, Institute of Food & Agricultural Research
Real Estate Demand
 General Categories – agricultural land, heavy and light industrial, and flex Specialized Space – wet lab space and greenhouses
Other Indicators
 Recent land acquisitions from Marrone Bio Innovations and Monsanto Stated desire of Bayer Cropscience to stay within Davis that was unfulfilled due to lack of appropriate space

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Life Science & Health Services Cluster

Characteristics

- Description production and research activities related to pharmaceuticals and medical devices, as well as the provision of healthcare and all its related services
- Predominant Core Regional Activities health care and medical equipment and devices
- Prominent Local Companies Novozymes, Gold Standard Diagnostics, Expression Systems, Antibodies Inc., D3g Inc., Davis Sequencing, Inc.

Research & Innovation Activity

- Academic Research Strengths medicine and biotechnology
- Venture Capital \$130 million for Biotechnology in Davis in past 11 years, representing 82 percent of regional activity
- Regional Patents Over 850 patents in past 13 years
- Local Tech Companies 17 on SARTA list, 11 UC Davis startups, and 12 gazelles, representing greatest share of activity

Support Ecosystem

- Regional Programs SARTA MedStart
- Key University Programs Cancer Center, Center for Mind and Brain, Center for Neuroscience, Genome Center, M.I.N.D. Institute

Real Estate Demand

- General Categories light industrial, flex, and medical office
- Specialized Space wet lab space and clean room space

Other Indicators

• Connection to UC Davis Health System

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Information & Communications Technology Cluster

Characteristics

- Description production of electronic products, computers, software, and telecommunications equipment, as well as the provision of communications, data processing and hosting, and system design services
- Predominant Core Regional Activities system design and computer, electrical, and electronic component manufacturing
- Prominent Local Companies Maintenance Connection

Research & Innovation Activity

- Academic Research Strengths information technology and engineering
- Venture Capital Over \$800 million in region in past 11 years
- Regional Patents Over 2,500 patents in past 13 years
- Local Tech Companies 6 on SARTA list, 7 UC Davis startups, and 3 gazelles

Support Ecosystem

- Key University Programs Engineering Translational Technology Center Real Estate Demand
- General Categories heavy and light industrial, flex, and office
- Specialized Space clean room space

Other Indicators

 Application across Clean Energy Technology, Agriculture & Food, and Life Sciences & Health Services clusters

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Advanced Manufacturing & Materials Cluster

Characteristics

- Description production of new and existing products using advanced technologies plus high-tech engineered materials, components, and systems as well as the commodities, products, processes, and instruments used to make and monitor the materials.
- Predominant Core Regional Activities aerospace products and structural metal manufacturing
- Prominent Local Companies DMG Mori and FMC Schilling Robotics

Research & Innovation Activity

- Academic Research Strengths engineering
- Local Tech Companies 3 on SARTA list

Support Ecosystem

• Key University Programs – Engineering Translational Technology Center

Real Estate Demand

- General Categories heavy and light industrial and flex
- Specialized Space controlled environments and clean room space Other Indicators

- FMC Schilling Robotics stated need for expansion space
- Application across a wide range of production activities and new products

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